EXISTING SIGNALS AND SIGNS

MD 702 IS CONSIDERED TO RUN IN A NORTH-SOUTH DIRECTION

1,2,6,7 | 3-5,8,9,12,15 | 10,13 | 11,14 | 16,17 | 18,19 | 21a,21b,24a,24b | 20,22,23,25 | 26 | 27 | a-d

Old Eastern AVE — R3-2 "DIVIDE" & "OPEN" VARIABLE X 15"

ONLY — R3-5(L), 30" x 36"

SIGNAL AHEAD — PREPARE TO STOP WHEN FLASHING

VIDEO DETECTION CAMERA

PROPOSED OPTICOM

28 — OPTICOM DETECTOR EYE

NEMA PHASING:

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

EQUIPMENT LIST

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

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
* 8005	1 EACH	F & I 3M OPTICOM 4 CHANNEL DISCRIMINATOR MODULE
8017	1 EACH	REMOVE AND DISPOSE OF EXISTING EQUIPMENT PER ASSIGNMENT
8023	270 L.F.	F & I 4 CONDUCTOR OPTICOM DETECTOR CABLE
8026	140 L.F.	F & I UP TO A 4" SCHEDULE 80 RIGID PVC CONDUIT - BORED
8049	1 EACH	F & I OPTICOM NO. 721 DETECTOR EYE

* - TO BE INSTALLED BY THE SHA SIGNAL SHOP

PROJECT CONTACTS

THE PROJECT CONTACTS ARE AS FOLLOWS:

MS. ERIN KUHN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 321-2781

MR. ANDRE FUTRELL
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 321-2761

MR. MICHAEL PASQUARIELLO
ASSISTANT DISTRICT ENGINEER - UTILITIES
PHONE: (410) 321-2841

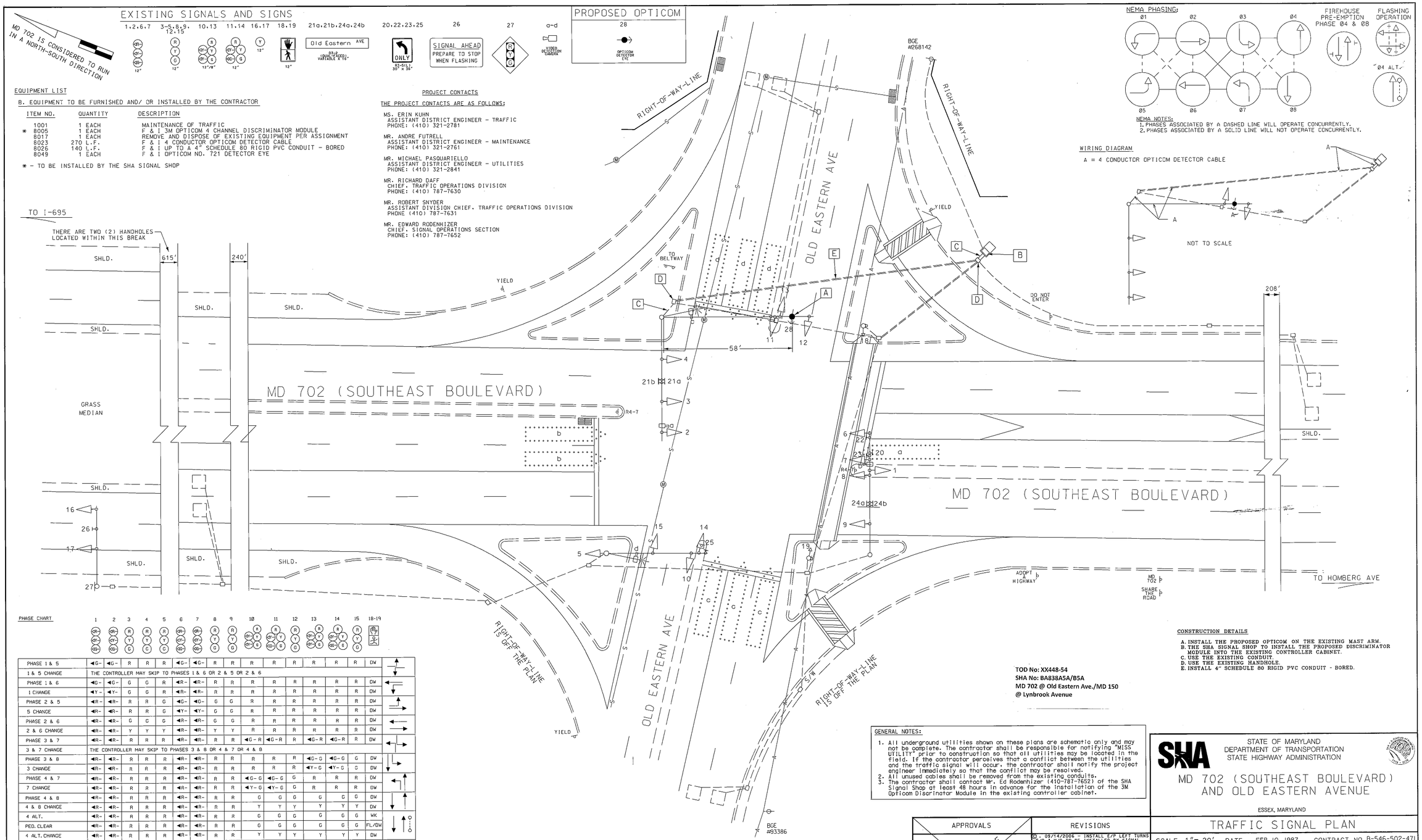
MR. RICHARD DAFF
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE (410) 787-7631

MR. EDWARD RODENHIZER
CHIEF, SIGNAL OPERATIONS SECTION
PHONE: (410) 787-7652

WIRING DIAGRAM

A = 4 CONDUCTOR OPTICOM DETECTOR CABLE



PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	18-19
PHASE 1 & 5	◄G-	◄G-	R	R	R	◄G-	◄G-	R	R	R	R	R	R	R	R	DW
1 & 5 CHANGE	THE CONTROLLER MAY SKIP TO PHASES 1 & 6 OR 2 & 5 OR 2 & 6															
PHASE 1 & 6	◄G-	◄G-	G	G	R	◄R-	◄R-	R	R	R	R	R	R	R	R	DW
1 CHANGE	◄Y-	◄Y-	G	G	R	◄R-	◄R-	R	R	R	R	R	R	R	R	DW
PHASE 2 & 5	◄R-	◄R-	R	R	G	◄G-	◄G-	G	G	R	R	R	R	R	R	DW
5 CHANGE	◄R-	◄R-	R	R	G	◄Y-	◄Y-	G	G	R	R	R	R	R	R	DW
PHASE 2 & 6	◄R-	◄R-	G	G	G	◄R-	◄R-	G	G	R	R	R	R	R	R	DW
2 & 6 CHANGE	◄R-	◄R-	Y	Y	Y	◄R-	◄R-	Y	Y	R	R	R	R	R	R	DW
PHASE 3 & 7	◄R-	◄R-	R	R	R	◄R-	◄R-	R	R	◄G-R	◄G-R	R	◄G-R	◄G-R	R	DW
3 & 7 CHANGE	THE CONTROLLER MAY SKIP TO PHASES 3 & 8 OR 4 & 7 OR 4 & 8															
PHASE 3 & 8	◄R-	◄R-	R	R	R	◄R-	◄R-	R	R	R	R	R	◄G-G	◄G-G	G	DW
3 CHANGE	◄R-	◄R-	R	R	R	◄R-	◄R-	R	R	R	R	R	◄Y-G	◄Y-G	G	DW
PHASE 4 & 7	◄R-	◄R-	R	R	R	◄R-	◄R-	R	R	◄G-G	◄G-G	G	R	R	R	DW
7 CHANGE	◄R-	◄R-	R	R	R	◄R-	◄R-	R	R	◄Y-G	◄Y-G	G	R	R	R	DW
PHASE 4 & 8	◄R-	◄R-	R	R	R	◄R-	◄R-	R	R	G	G	G	G	G	G	DW
4 & 8 CHANGE	◄R-	◄R-	R	R	R	◄R-	◄R-	R	R	Y	Y	Y	Y	Y	Y	DW
4 ALT.	◄R-	◄R-	R	R	R	◄R-	◄R-	R	R	G	G	G	G	G	G	WK
PED. CLEAR	◄R-	◄R-	R	R	R	◄R-	◄R-	R	R	G	G	G	G	G	G	FL/DW
4 ALT. CHANGE	◄R-	◄R-	R	R	R	◄R-	◄R-	R	R	Y	Y	Y	Y	Y	Y	DW
FLASHING OPERATION	FL/RA	FL/RA	FL/Y	FL/Y	FL/Y	FL/RA	FL/RA	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK
FIREHOUSE PRE-EMPTION																
FIREHOUSE PRE-EMPTION PHASE Ø4 & Ø8	◄R-	◄R-	R	R	R	◄R-	◄R-	R	R	G	G	G	G	G	G	DW
PRE-EMPTION CLEARANCE	◄R-	◄R-	R	R	R	◄R-	◄R-	R	R	Y	Y	Y	Y	Y	Y	DW
NORMAL OPERATION PHASE Ø2 & Ø6	◄R-	◄R-	G	G	G	◄R-	◄R-	G	G	R	R	R	R	R	R	DW

CONSTRUCTION DETAILS

A. INSTALL THE PROPOSED OPTICOM ON THE EXISTING MAST ARM.
B. THE SHA SIGNAL SHOP TO INSTALL THE PROPOSED DISCRIMINATOR MODULE INTO THE EXISTING CONTROLLER CABINET.
C. USE THE EXISTING CONDUIT.
D. USE THE EXISTING HANDHOLE.
E. INSTALL 4" SCHEDULE 80 RIGID PVC CONDUIT - BORED.

TOD No: XX448-54
SHA No: BA8388A5A/B5A
MD 702 @ Old Eastern Ave./MD 150
@ Lynbrook Avenue

GENERAL NOTES:

1. All underground utilities shown on these plans are schematic only and may not be complete. The contractor shall be responsible for notifying "MISS UTILITY" prior to construction so that all utilities may be located in the field. If the contractor perceives that a conflict between the utilities and the traffic signal will occur, the contractor shall notify the project engineer immediately so that the conflict may be resolved.
2. All unused cables shall be removed from the existing conduits.
3. The contractor shall contact Mr. Ed Rodemhizer (410-787-7652) of the SHA Signal Shop at least 48 hours in advance for the installation of the 3M Opticom Discrimator Module in the existing controller cabinet.

GEOMETRIC LEGEND

PROPOSED
EXISTING

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

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

APPROVALS

ORIGINAL ON FILE

TEAM LEADER
ASST. DIV. CHIEF
DIVISION CHIEF
OFFICE DIRECTOR

REVISIONS

C. 09/14/2006 - INSTALL E/P LEFT TURNS E/B & W/B TO BE INSTALLED BY SIGNAL SHOP FORCES; SHA NO. SF-SIGNAL; TIMS NO. H649
J.W.A. | J.T. | D.J.D. | M.A.R. | W.H. | L.S.
D. 03/2009 - INSTALL OPTICOM F/ E/B "OLD EASTERN AVENUE;
SHA NO. XX4485185; TIMS NO. J643
B. 11/05/2003 - ADD N.I.B. ON S/B MD 702, R10-12 SIGNS ON SIDE ROADS & BLACKFACE SIGNALS; SHA NO. AT3575185; TIMS NO. F780
J.W.A. | D.J.D. | D.J.D. | D.R.R.

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 702 (SOUTHEAST BOULEVARD) AND OLD EASTERN AVENUE

ESSEX, MARYLAND

TRAFFIC SIGNAL PLAN

SCALE 1"= 20' DATE FEB. 10, 1987 CONTRACT NO. B-546-502-471

DESIGNED BY GENE SIMMERS
DRAWN BY GENE SIMMERS
CHECKED BY GENE SIMMERS
F.A.P. NO. M-3038 (2)

COUNTY BALTIMORE
LOGMILE 03070202.01
TIMS NO. J643
TOD NO.

TS NO. 1220D | DRAWING NO. 1 OF 1 | SHEET NO. OF

DRILL HOLES
DRILL HOLES
DRILL HOLES