

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION TO THE EXISTING TRAFFIC CONTROL SIGNAL FOR THE MAINTENANCE OF TRAFFIC REQUIRED AS PART OF SHA CONTRACT NO.: AL 4195176 (GEOMETRIC IMPROVEMENTS US 220 AND I-68) IN ALLEGANY COUNTY, MARYLAND. U.S. 220 IS ASSUMED TO RUN IN AN EAST/WEST DIRECTION.

INTERSECTION OPERATION -STAGE I

DURING THIS STAGE THE INTERSECTION WILL OPERATED IN A NEMA THREE PHASE, FULL-TRAFFIC-ACTUATED MODE. THE NORTH AND SOUTH US 220 MOVEMENTS WILL OPERATE CONCURRENTLY AND THE I-68 RAMP WILL OPERATE ALONE. THE NORTHBOUND EXCLUSIVE/PERMISSIVE LEFT TURN PHASE WILL BE TURNED OFF.

INTERSECTION OPERATION -STAGE II

DURING THIS STAGE THE INTERSECTION WILL OPERATED IN A NEMA FOUR PHASE, FULL-TRAFFIC-ACTUATED MODE. THERE IS AN EXCLUSIVE /PERMISSIVE LEFT TURN PHASE FOR NORTHBOUND US 220. THE NORTH AND SOUTH US 220 MOVEMENTS WILL OPERATE CONCURRENTLY AND THE I-68 RAMP WILL OPERATE ALONE.

INTERSECTION OPERATION -STAGE III

DURING THIS STAGE THE INTERSECTION WILL OPERATED IN A NEMA THREE PHASE, FULL-TRAFFIC-ACTUATED MODE. THERE IS AN EXCLUSIVE /PERMISSIVE LEFT TURN PHASE FOR NORTHBOUND US 220. THE NORTH AND SOUTH US 220 MOVEMENTS WILL OPERATE CONCURRENTLY. THE I-68 RAMP WILL BE TURNED OFF.

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY THE STATE HIGHWAY ADMINISTRATION AND INSTALLED BY THE CONTRACTOR.

CATEGORY	QUANTITY	UNIT	DESCRIPTION
900000	1	EA	VIDEO DETECTION CAMERA - SOLD PRO, WITH 250 FOOT CABLE

NOTE: THE CONTRACTOR SHALL CONTACT GARY HALL TO ARRANGE FOR PICKUP OF VIDEO DETECTOR AND CABLE.

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

CATEGORY	QUANTITY	UNIT	DESCRIPTION
800000	1	EA	INSTALL VIDEO DETECTION CAMERA AND CABLE
800000	1	LS	REALIGN DETECTION CAMERAS AS NECESSARY
800000	1	LS	REMOVE AND DISPOSE OF EXISTING EQUIPMENT
805140	425	LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
811001	4	EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
860265	6	EA	RELOCATE EXISTING TRAFFIC SIGNAL HEAD
860284	10	EA	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
861107	100	EA	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
861108	250	LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)

PROJECT CONTACTS

THE FOLLOWING CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

MR. GEORGE SMALL
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (301) 729-8444

MR. RICK MCGRAW
ACTING ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
PHONE: (301) 729-8415

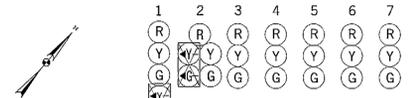
MR. DAVE FELKER
DISTRICT UTILITIES ENGINEER
PHONE: (301) 729-8439

MR. GARY HALL
TRAFFIC SIGNAL TEAM LEADER
PHONE: (443) 506-4029

MR. EDWARD RODENHIZER
CHIEF, SHA TRAFFIC SIGNAL SHOP
PHONE: (410) 787-7650

MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
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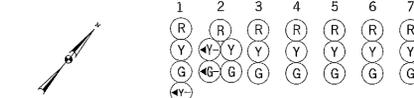
PHASE CHART - STAGE I



	1	2	3	4	5	6	7
PHASE 1 AND 6	R	R	R	R	R	R	R
1 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	Y
PHASE 2 AND 6	G	G	G	G	G	R	R
2 AND 6 CHANGE	Y	Y	Y	Y	Y	R	R
PHASE 4	R	R	R	R	R	G	G
4 CHANGE	R	R	R	R	R	Y	Y
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R

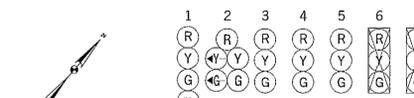
NOTES:
PHASE 1 WILL BE DEACTIVATED DURING THIS STAGE UNTIL THE TRAFFIC BARRIER IS REMOVED. IF THE BARRIER IS REMOVED SEE STAGE II PHASE CHART.

PHASE CHART - STAGE II



	1	2	3	4	5	6	7
PHASE 1 AND 6	←GG	←GG	G	R	R	R	R
1 AND 6 CHANGE	←YG	←YG	G	R	R	R	R
PHASE 2 AND 6	G	G	G	G	G	R	R
2 AND 6 CHANGE	Y	Y	Y	Y	Y	R	R
PHASE 4	R	R	R	R	R	G	G
4 CHANGE	R	R	R	R	R	Y	Y
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R

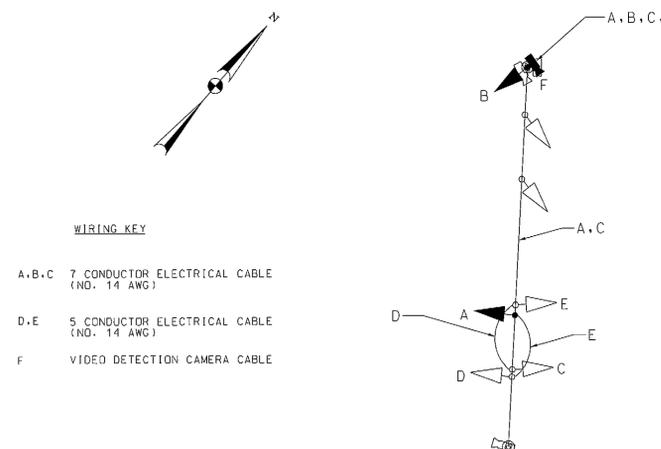
PHASE CHART - STAGE III



	1	2	3	4	5	6	7
PHASE 1 AND 6	←GG	←GG	G	R	R	SEE NOTES	SEE NOTES
1 AND 6 CHANGE	←YG	←YG	G	R	R	SEE NOTES	SEE NOTES
PHASE 2 AND 6	G	G	G	G	G	SEE NOTES	SEE NOTES
2 AND 6 CHANGE	Y	Y	Y	Y	Y	SEE NOTES	SEE NOTES
PHASE 4	SEE NOTES						
4 CHANGE	SEE NOTES						
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	SEE NOTES	SEE NOTES

NOTES:
PHASE 4 (SIGNAL HEADS 6 & 7) WILL BE DEACTIVATED DURING THIS STAGE UNTIL THE TRAFFIC BARRIER IS REMOVED. IF THE BARRIER IS REMOVED SEE STAGE II PHASE CHART.

WIRING DIAGRAM



NOTES:
SIGNALS NOT ADDRESSED IN DIAGRAM SHALL USE EXISTING WIRING.
NEW 7-CONDUCTOR SIGNAL CABLE TO TRAFFIC SIGNAL HEADS ON EXISTING SPAN WIRE SHALL HAVE 10 FEET OF ADDITIONAL CABLE LOOPED AT THE SIGNAL FOR POTENTIAL SHIFTING OF THE SIGNAL HEAD.

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
US 220 @ I-68 RAMP C & H
CUMBERLAND, MD

GENERAL INFORMATION PLAN SHEET - MOT

SCALE 1"=20' ADVERTISED DATE MAY 2011 CONTRACT NO. AL4195176

DESIGNED BY D.T. COUNTY ALLEGANY
DRAWN BY D.T. LOGMILE 01022018.70
CHECKED BY J.B. TMS NO. K930
F.A.P. NO. TOD NO.

DRAWING NO. 1566B - OF SHEET NO. 88 OF 90

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BY: Chuck -