

**PROJECT DESCRIPTION**

THIS PROJECT INVOLVES THE IMPLEMENTATION OF SPLIT PHASING, INSTALLATION OF LED SIGNAL HEADS ON 130TH STREET AND INSTALLATION OF NEAR-SIDE LED SIGNAL HEADS ON MD 528. MD 528 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

**INTERSECTION OPERATION**

THIS INTERSECTION WILL OPERATE IN A NEMA SIX-PHASE FULL-TRAFFIC-ACTUATED MODE. THE MD 528 NORTHBOUND AND SOUTHBOUND LEFT TURNS OPERATE IN EXCLUSIVE-PERMISSIVE PHASING. THE EASTBOUND AND WESTBOUND MOVEMENTS OPERATE IN SPLIT PHASING. ALTERNATE PEDESTRIAN PHASES ARE PROVIDED FOR THE NORTH AND SOUTH LEGS OF THE INTERSECTION. A PRE-EMPTION PHASE IS PROVIDED FOR THE FIRE HOUSE.

**CONTROLLER REQUIREMENTS**

THE EXISTING FULL-TRAFFIC-ACTUATED EIGHT PHASE TRAFFIC SIGNAL CONTROLLER WITH TELEMETRY CABLE HOUSED IN A BASE MOUNTED CABINET SHALL BE REMOVED. A BASE MOUNTED TYPE 'S' CABINET AND CONTROLLER WITH BATTERY BACKUP SHALL BE INSTALLED ON THE EXISTING CABINET FOUNDATION AND EXTENSION BASE.

**CONTACT PERSONS FOR DISTRICT #1 ARE AS FOLLOWS:**

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**EQUIPMENT LIST "A, B & C"**

A. EQUIPMENT TO BE SUPPLIED BY THE SHA		UNIT	QUANTITY
ITEM NO.	DESCRIPTION		
9104	CONTROLLER CABINET, SIZE "S" W/CTRL, VIDEO INT. 1-8 CAM	EA	1
*9109	EXTENDER BASE FOR "S" CABINET	EA	1
9110	UPS EQUIPMENT FOR "S" CABINET	EA	1
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR		UNIT	QUANTITY
ITEM NO.	DESCRIPTION		
1001	MAINTENANCE OF TRAFFIC	EA	1
6001	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH	LF	5
6002	5 INCH CONCRETE SIDEWALK	SF	25
8001	12 INCH LED SIGNAL HEAD SECTION	EA	26
8004	8 INCH LED SIGNAL HEAD SECTION	EA	6
*8012	EMBEDDED METERED SERVICE PEDESTAL	EA	1
8023	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)	EA	1
*8028	F&I VIDEO DETECTION CAMERA AND CABLE	EA	5
*8038	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED	LF	25
8045	ELECTRICAL CABLE 1-CONDUCTOR NO. 8 AWG-THHN/THWN	LF	60
8056	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	55
8062	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)	LF	1500
8062	INSTALL CONTROLLER AND CABINET - BASE MOUNT (ANY SIZE)	EA	1

**C. EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION. 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076.**

SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

**PHASING CHART**

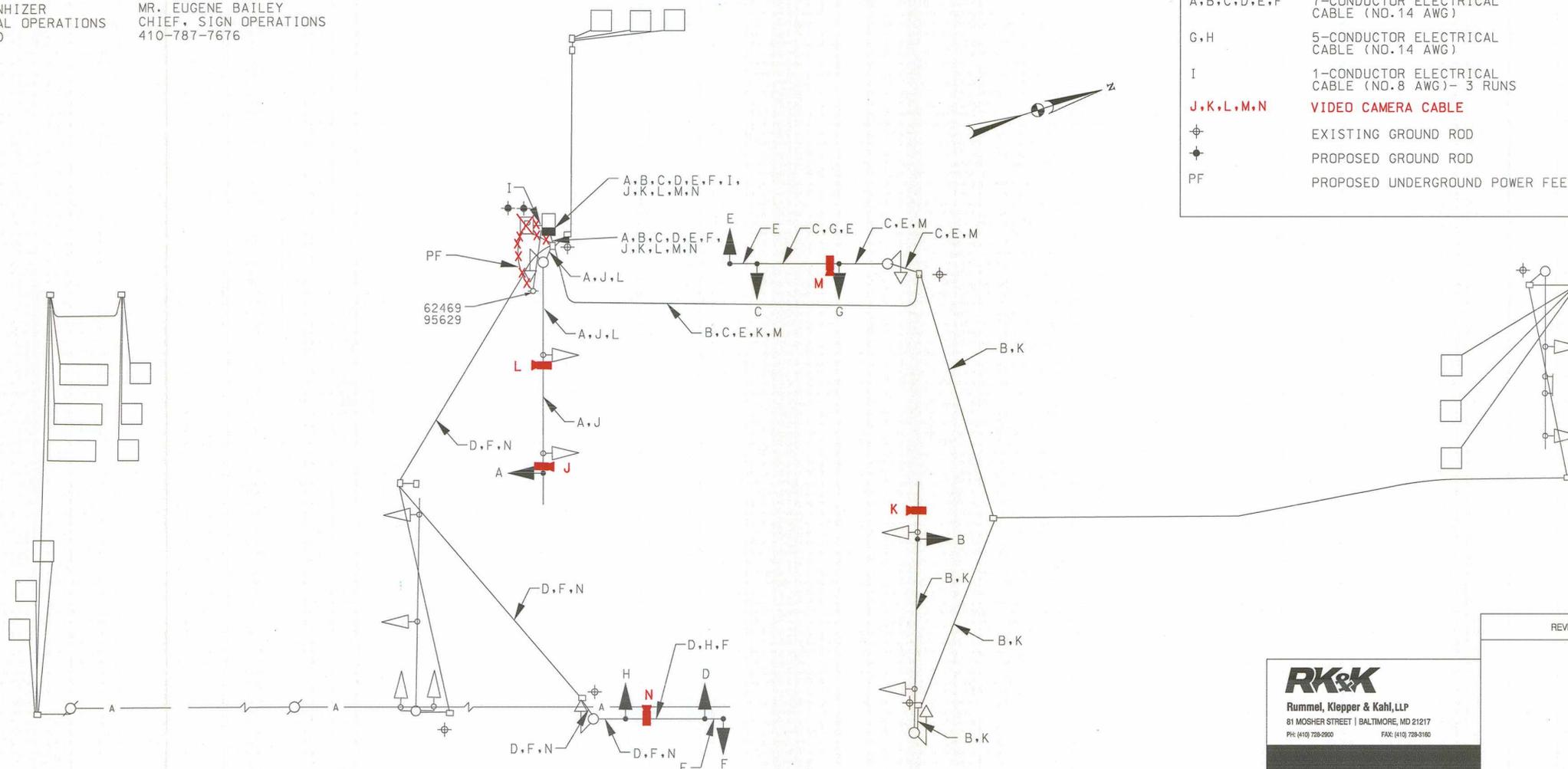
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
PHASE 1 AND 5	DARK	DARK	R	R	R	DARK	DARK	R	R	R	R	R	R	R	R	R	FL/RFL/R	DW	DW	DW	DW	DARK	
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6			G	G	G	DARK	DARK	R	R	R	R	R	R	R	R	R	FL/RFL/R	DW	DW	DW	DW	DARK	
1 AND 6 CHANGE	DARK	DARK	R	R	R	DARK	DARK	R	R	R	R	R	R	R	R	R	FL/RFL/R	DW	DW	DW	DW	DARK	
PHASE 2 AND 5	DARK	DARK	R	R	R	DARK	DARK	R	R	R	R	R	R	R	R	R	FL/RFL/R	DW	DW	DW	DW	DARK	
2 AND 5 CHANGE	DARK	DARK	R	R	R	DARK	DARK	R	R	R	R	R	R	R	R	R	FL/RFL/R	DW	DW	DW	DW	DARK	
PHASE 2 AND 6	DARK	DARK	R	R	R	DARK	DARK	R	R	R	R	R	R	R	R	R	FL/RFL/R	DW	DW	DW	DW	DARK	
2 AND 6 CHANGE	DARK	DARK	R	R	R	DARK	DARK	R	R	R	R	R	R	R	R	R	FL/RFL/R	DW	DW	DW	DW	DARK	
PHASE 3	DARK	DARK	R	R	R	DARK	DARK	R	R	R	R	R	R	R	R	R	FL/RFL/R	DW	DW	DW	DW	DARK	
3 CHANGE	DARK	DARK	R	R	R	DARK	DARK	R	R	R	R	R	R	R	R	R	FL/RFL/R	DW	DW	DW	DW	DARK	
PHASE 4	DARK	DARK	R	R	R	DARK	DARK	R	R	R	R	R	R	R	R	R	FL/RFL/R	DW	DW	DW	DW	DARK	
4 CHANGE	DARK	DARK	R	R	R	DARK	DARK	R	R	R	R	R	R	R	R	R	FL/RFL/R	DW	DW	DW	DW	DARK	
PHASE 3 ALT	DARK	DARK	R	R	R	DARK	DARK	R	R	R	R	R	R	R	R	R	FL/RFL/R	DW	DW	DW	DW	DARK	
PED CLEARANCE	DARK	DARK	R	R	R	DARK	DARK	R	R	R	R	R	R	R	R	R	FL/RFL/R	DW	DW	FL/DW	FL/DW	DARK	
3 ALT CHANGE	DARK	DARK	R	R	R	DARK	DARK	R	R	R	R	R	R	R	R	R	FL/RFL/R	DW	DW	DW	DW	DARK	
PHASE 4 ALT	DARK	DARK	R	R	R	DARK	DARK	R	R	R	R	R	R	R	R	R	FL/RFL/R	WK	WK	DW	DW	DARK	
PED CLEARANCE	DARK	DARK	R	R	R	DARK	DARK	R	R	R	R	R	R	R	R	R	FL/RFL/R	FL/DW	FL/DW	DW	DW	DARK	
4 ALT CHANGE	DARK	DARK	R	R	R	DARK	DARK	R	R	R	R	R	R	R	R	R	FL/RFL/R	DW	DW	DW	DW	DARK	
PRE-EMPTION	R	R	G	G	G	R	R	R	R	R	R	R	R	R	R	R	FL/YFL/Y	DW	DW	DW	DW		
PRE-EMPTION CLEARANCE	R	R	Y	Y	Y	R	R	R	R	R	R	R	R	R	R	R	Y	Y	DW	DW	DW	DW	
FLASHING OPERATION	DARK	DARK	FL/YFL/Y	FL/YFL/Y	FL/YFL/Y	DARK	DARK	FL/YFL/Y	DARK	DARK	DARK	DARK	DARK	DARK									

**GENERAL NOTES**

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABELING EACH CABLE.
- ALL UNUSED CABLE SHALL BE REMOVED AND DISPOSED OFF BY THE CONTRACTOR.
- 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.

**WIRING KEY**

- A,B,C,D,E,F 7-CONDUCTOR ELECTRICAL CABLE (NO.14 AWG)
- G,H 5-CONDUCTOR ELECTRICAL CABLE (NO.14 AWG)
- I 1-CONDUCTOR ELECTRICAL CABLE (NO.8 AWG)- 3 RUNS
- J,K,L,M,N VIDEO CAMERA CABLE
- ⊕ EXISTING GROUND ROD
- ⊙ PROPOSED GROUND ROD
- PF PROPOSED UNDERGROUND POWER FEED



BY: \$USER\$NAMES

**RK&K**  
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REVISIONS

**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 528 (COASTAL HWY) AT 130TH STREET  
OCEAN CITY, MARYLAND

GENERAL INFORMATION SHEET		
SCALE NONE	DATE JANUARY 2013	CONTRACT NO. XX6615185
DESIGNED BY GS	COUNTY WORCESTER	
DRAWN BY GS	LOGMILE 23052801.12	
CHECKED BY BJK	TMS NO. L692	
FAP NO.	TOD NO.	
TS NO. I433M-GI	DRAWING SP-2 OF 2	SHEET NO. OF

PLOTTED: \$DATE\$ FILE: \$FILES\$