

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE SIGNAL MODIFICATION AT THE INTERSECTION OF US 40 (W. PATRICK ST) AT BAUGHMANS LANE / LINDEN AVENUE INCLUDING THE INSTALLATION OF IP-BASED VIDEO DETECTION EQUIPMENT AND NON-INVASIVE MICROLOOP PROBES. US 40 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA SIX-PHASE FULL-TRAFFIC-ACTUATED MODE WITH A CONCURRENT PEDESTRIAN PHASE FOR THE SOUTH LEG AND ALTERNATE PEDESTRIAN PHASE FOR THE WEST LEG OF THE INTERSECTION. THE US 40 EASTBOUND AND WESTBOUND LEFT TURNS OPERATE IN EXCLUSIVE PHASING, WITH THE NORTHBOUND AND SOUTHBOUND APPROACHES OPERATING IN SPLIT PHASING. A RIGHT TURN OVERLAP IS PROVIDED FOR THE SOUTH APPROACH.

CONTROLLER REQUIREMENTS

THE EXISTING CONTROLLER HOUSED IN A BASE MOUNTED CABINET SHALL REMAIN. THE EXISTING 2-WIRE APS CENTRAL CONTROL UNIT SHALL REMAIN. IP-BASED VIDEO DETECTION INTERFACE EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY SHA.

EQUIPMENT LIST "A, B & C"

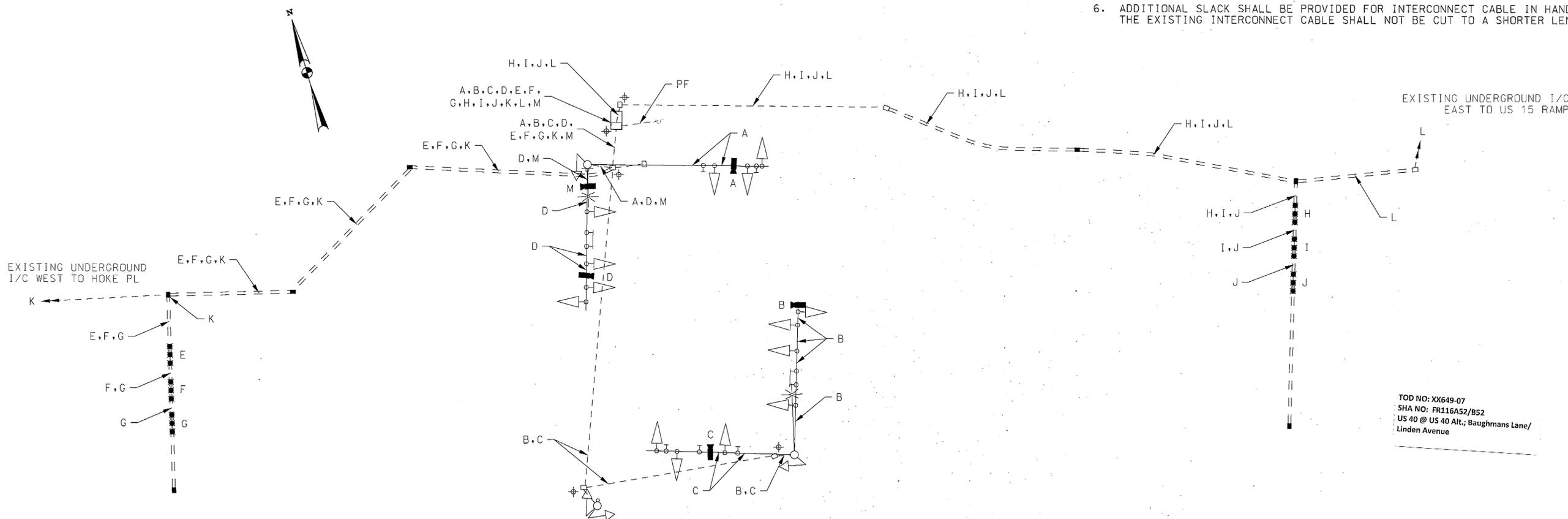
A. EQUIPMENT TO BE SUPPLIED BY SHA.			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
9124	VIDEO DETECTION INTERFACE EQUIPMENT: 1-8 CAMERAS	EA	1
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
1002	MAINTENANCE OF TRAFFIC	EA	1
8008	VIDEO DETECTION CAMERA & CABLE	EA	5
8012	PULL BACK & RE-ROUTE CABLES	LF	1050
8013	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCH - BORED	LF	240
8015	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCH - TRENCHED	LF	605
8017	NONINVASIVE DETECTOR, 1000 FOOT LEAD IN CABLE	EA	6
8018	FURNISH AND INSTALL ELECTRICAL HANDHOLE	EA	7
C. ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.			

PHASING CHART

NO PHASING CHANGES

GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABELING EACH CABLE.
2. ALL UNUSED CABLE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
3. 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.
4. THE CONTRACTOR SHALL CAP AND ABANDON CONDUIT FEEDING SIGNAL EQUIPMENT THAT IS REMOVED.
5. VIDEO CAMERA LOCATIONS/ALIGNMENT SHALL BE COORDINATED WITH THE SHA ENGINEER.
6. ADDITIONAL SLACK SHALL BE PROVIDED FOR INTERCONNECT CABLE IN HANDHOLES WHERE POSSIBLE. THE EXISTING INTERCONNECT CABLE SHALL NOT BE CUT TO A SHORTER LENGTH.



TOD NO: XX649-07  
SHA NO: FR116A52/B52  
US 40 @ US 40 Alt.; Baughmans Lane/  
Linden Avenue

CONTACT PERSONS FOR DISTRICT #7 ARE AS FOLLOWS:

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CONTACT PERSONS FOR OOTS ARE AS FOLLOWS:

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WIRING KEY	
A,B,C,D,M	IP-BASED VIDEO DETECTION CAMERA CABLE
E,F,G	NON-INVASIVE MICROLOOP PROBE SET WITH 500 FT. LEAD-IN CABLE
H,I,J	NON-INVASIVE MICROLOOP PROBE SET WITH 1000 FT. LEAD-IN CABLE
K,L	DISCONNECT, PULLBACK AND REROUTE EXISTING COMMUNICATION CABLE
PF	EXISTING UNDERGROUND POWER FEED
⊕	EXISTING GROUND ROD

**SHA** STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION  
US 40 (W. PATRICK STREET) AT BAUGHMANS LANE / LINDEN AVENUE FREDERICK, MARYLAND

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REVISIONS		GENERAL INFORMATION SHEET	
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