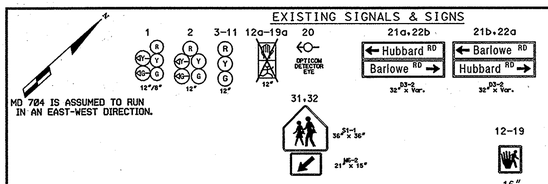
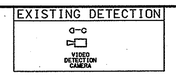
EXISTING SIGNALS & SIGNS

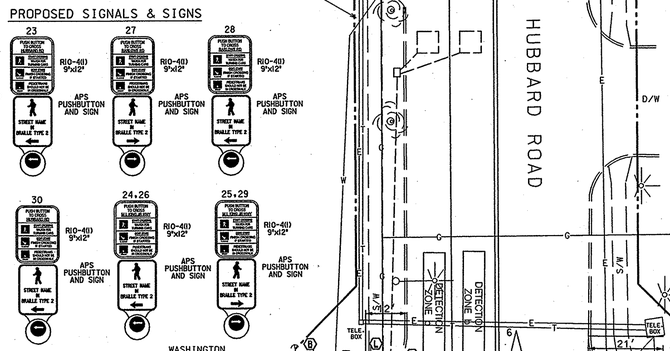


MD 704 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

EXISTING DETECTION



PROPOSED SIGNALS & SIGNS



CONSTRUCTION DETAILS

A. USE EXISTING STEEL POLE AND INSTALL ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS, PEDESTRAIN EDUCATION SIGNS, AND L.E.D. BLACK FACE PEDESTRAIN SIGNAL HEADS. REMOVE EXISTING PEDESTRAIN SIGNAL HEADS, PUSHBUTTONS AND PEDESTRAIN EDUCATION SIGNS.
B. USE EXISTING BASE MOUNTED CABINET AND CONTROLLER.
C. USE EXISTING HANDHOLE.
D. USE EXISTING CONDUIT.
E. INSTALL 24 IN. WHITE LEAD FREE THERMOPLASTIC PAVEMENT MARKING (STOP LINE).
F. INSTALL 12 IN. WHITE LEAD FREE THERMOPLASTIC PAVEMENT MARKING (CROSSWALK LINE).
G. INSTALL MICROLOOP PROBE DETECTOR SET.
H. INSTALL 1" LIQ TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT FOR MICRO LOOP PROBE DETECTOR LEAD IN.
J. ABANDON EXISTING LOOP DETECTOR.
K. INSTALL PROPOSED DETECTABLE WARNING SURFACE AS SHOWN.
L. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE, ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS, AND PEDESTRAIN EDUCATION SIGNS. CUT, CLEAN AND GALV. THE 10 FT. POLE TO 4 FT. (NOTE: 1-2 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE CONDUIT BEND.)
M. INSTALL 2 IN. SCHEDULE 80 RIGID POLYVINL CHLORIDE ELECTRICAL CONDUIT - TRENCHED.

EQUIPMENT LISTS

A. EQUIPMENT TO BE FURNISHED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
900000	6 S.F.	SHEET ALUMINUM POLE MOUNTED SIGN CONSIST OF : 8 - R10-4(I) (9"X12")

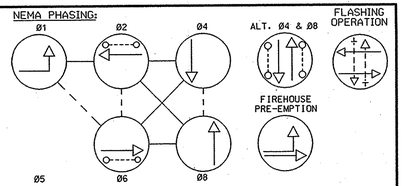
B. EQUIPMENT TO BE FURNISHED AND/ OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY		DESCRIPTION
100000	1	EA	MAINTENANCE OF TRAFFIC
203030	1	CY	TEST PIT EXCAVATION
585412	1164	LF	12" WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKING
585424	152	LF	24" WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKING
655104	20	SF	4" CONC SIDEWALK FOR REPLACEMENT/REPAIR OF EXISTING SIDEWALK
655120	40	SF	DETECTABLE WARNING SURFACE FOR CURB RAMPS
800000	8	EA	F & I AUDIBLE / TACTILE PED PUSHBUTTON STATION AND SIGNS
800000	1	EA	FURNISH 2 WIRE CENTRAL CONTROL
800000	8	EA	F & I LED 16" PEDESTRIAN SIGNAL HEAD SECTION POLE MOUNT
800000	1	EA	REMOVE AND DIPOSE OF EXISTING MATERIALS & EQUIPMENT
801004	2	CY	CONCRETE FOR SIGNAL FOUNDATION
805125	20	LF	F & I 2" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
805160	20	LF	F&I 1" LIQ TIGHT FLEX NON-METALLIC ELECT DETECTOR WIRE SLEEVE
810550	1	EA	MICROLOOP PROBE - 500 FT LEAD IN CABLE
810555	1	EA	MICROLOOP PROBE - 1000 FT LEAD IN CABLE
801607	6	SF	INSTALL SHEET ALUMINUM SIGN
818004	2	EA	10 FT BREAKAWAY PED POLE
837001	1	EA	GROUND ROD ¾ IN. DIA. X 10 FT. LENGTH
860292	2	EA	CUT, CLEAN, GALV AND CAP TRAFF SIGNAL STRUCTURE
861105	927	LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG.)
861107	1030	LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG.)
862102	50	LF	SAW CUT FOR SIGNAL
802501	10	LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE

C. EQUIPMENT TO BE REMOVED AND RETURNED TO THE SHA.

ITEM NO.	QUANTITY	DESCRIPTION
		ALL REMOVED SIGNAL MATERIALS ARE TO BECOME THE PROPERTY OF THE CONTRACTOR

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.

PROJECT CONTACTS

THE PROJECT CONTACTS ARE AS FOLLOWS:

MR. LEE STARKLOFF
ASSISTANT DISTRICT ENGINEER- TRAFFIC
PHONE: (410) 513-7318

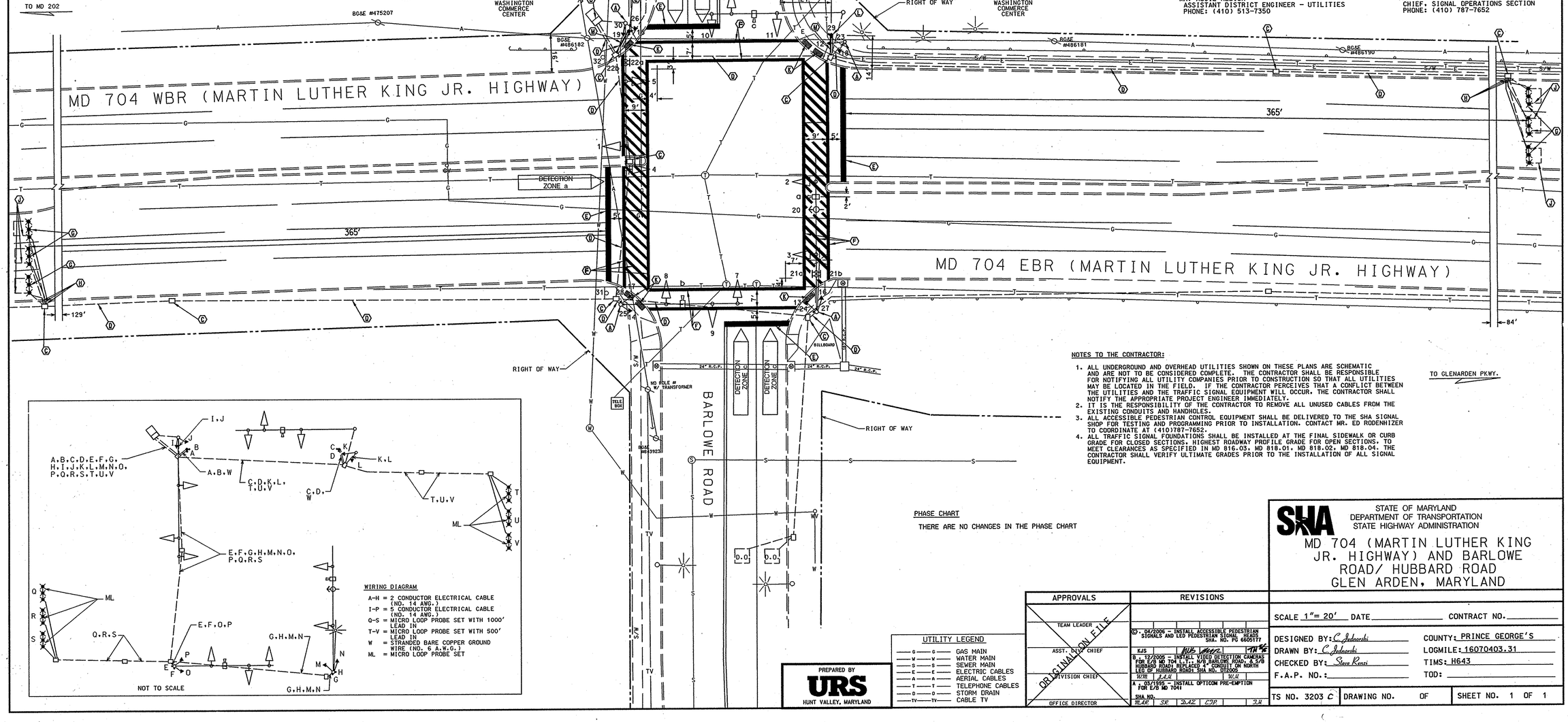
MR. WAYNE MOWDY
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 513-7304

MR. AUGIE REBISH
ASSISTANT DISTRICT ENGINEER - UTILITIES
PHONE: (410) 513-7350

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



NOTES TO THE CONTRACTOR:

1. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC AND ARE NOT TO BE CONSIDERED COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES 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 EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE PROJECT ENGINEER IMMEDIATELY.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE ALL UNUSED CABLES FROM THE EXISTING CONDUITS AND HANDHOLES.
3. ALL ACCESSIBLE PEDESTRIAN CONTROL EQUIPMENT SHALL BE DELIVERED TO THE SHA SIGNAL SHOP FOR TESTING AND PROGRAMMING PRIOR TO INSTALLATION. CONTACT MR. ED RODENHIZER TO COORDINATE AT (410)787-7652.
4. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS. HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.

PHASE CHART

THERE ARE NO CHANGES IN THE PHASE CHART

WIRING DIAGRAM

A-H = 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG.)
I-P = 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG.)
Q-S = MICRO LOOP PROBE SET WITH 1000' LEAD IN
T-V = MICRO LOOP PROBE SET WITH 500' LEAD IN
W = STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
ML = MICRO LOOP PROBE SET

UTILITY LEGEND

G	GAS MAIN
W	WATER MAIN
S	SEWER MAIN
E	ELECTRIC CABLES
A	AERIAL CABLES
T	TELEPHONE CABLES
D	STORM DRAIN
TV	CABLE TV

PREPARED BY
URS
HUNT VALLEY, MARYLAND

APPROVALS	
TEAM LEADER	
ASST. DIV. CHIEF	
DIVISION CHIEF	
OFFICE DIRECTOR	

ORIGINAL ON FILE

REVISIONS				
(C) - 04/2006 - INSTALL ACCESSIBLE PEDESTRIAN SIGNALS AND LED PEDESTRIAN SIGNAL HEADS. SHA. NO. PG 6605177				
KJS				
B - 12/2005 - INSTALL VIDEO DETECTION CAMERAS FOR E/B MD 704 (L/T) AT W/B BARLOWE ROAD, & S/B HUBBARD ROAD; REPLACED 4 CONDUIT ON NORTH LEG OF HUBBARD ROAD; SHA NO. 012005				
WM	LLW		WM	
A - 09/1996 - INSTALL OPTICOM PRE-EMPTION FOR E/B MD 704;				
SHA NO.				
MAK	SR	DAZ	CJP	JM

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 704 (MARTIN LUTHER KING JR. HIGHWAY) AND BARLOWE ROAD/ HUBBARD ROAD GLEN ARDEN, MARYLAND

SCALE 1"= 20' DATE _____ CONTRACT NO. _____

DESIGNED BY: C. Jedrowski
DRAWN BY: C. Jedrowski
CHECKED BY: Steve Renzi
F.A.P. NO.: _____
COUNTY: PRINCE GEORGE'S
LOGMILE: 16070403.31
TIMS: H643
TOD: _____

TS NO. 3203 C | DRAWING NO. | OF | SHEET NO. 1 OF 1

DRILL HOLES
DRILL HOLES
DRILL HOLES

H643_CP01.dgn