

PROJECT DESCRIPTION

I. GENERAL

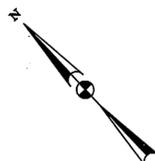
This project involves the modification of the existing traffic signal to replace the existing far left side pedestal pole mounted signal heads with near side pedestal pole mounted signal heads along the mainline approaches to the intersection of MD 404 and MD 16/Double Hills Road in Denton, Maryland. MD 404 is assumed to run in an east-west direction.

II. INTERSECTION OPERATION

- The intersection operates in a NEMA 6-phase, actuated mode.
- The existing NEMA full-traffic-actuated, eight (8) phase controller housed in a NEMA 5 base cabinet is utilized at this location.

NOTES

- The contractor shall be responsible for terminating all signal cable to the appropriate terminals and properly labeling each cable.
- All underground and overhead 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.
- The contractor shall maintain the continuous operation of all interconnect, vehicular, pedestrian detectors, and lighting devices. If any device is damaged by the contractor, it shall be repaired within 72 hours by the contractor at no cost to the Administration after notification by the Engineer.
- 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 the appropriate 800 series Standard Plates. The contractor shall verify ultimate grades prior to the installation of all signal equipment.



PHASE CHART

	1	2	3	4	5	6	7	8	9	10	
	(R) (Y) (G)										
PHASE 1 AND 5	+G/R	+G/R	R	+G/R	+G/R	R	R	R	R	R	↑
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6											↓
PHASE 1 AND 6	+G/G	+G/G	G	R	R	R	R	R	R	R	↑
1 AND 6 CHANGE	+Y/G	+Y/G	G	R	R	R	R	R	R	R	↓
PHASE 2 AND 5	R	R	R	+G/G	+G/G	G	R	R	R	R	↑
2 AND 5 CHANGE	R	R	R	+Y/G	+Y/G	G	R	R	R	R	↓
PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	R	↑
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	↓
PHASE 4 AND 8	R	R	R	R	R	R	G	G	G	G	↑
4 AND 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	↓
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	↑

CONTACTS

DISTRICT 2

MR. TERRY O. WRIGHT
DISTRICT ENGINEER
410-810-3210

MR. JEFFREY WENTZ
ASSISTANT DISTRICT ENGINEER - TRAFFIC
410-810-3240

MR. BARRY CLOTHIER
UTILITY ENGINEER
410-810-3275

MR. WM NORRIS EMBERT
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
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ASSISTANT DISTRICT ENGINEER - MAINTENANCE
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OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF SR.
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410-787-7630

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS
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MR. MIKE STOCKER
SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE)
410-787-7668

EQUIPMENT LIST

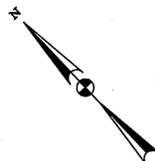
A. EQUIPMENT TO BE FURNISHED BY THE ADMINISTRATION

ITEM NO.	DESCRIPTION	UNITS	QUANTITY
9571	SHEET ALUMINUM POLE MOUNTED SIGNS CONSISTING OF: R4-7 (24"X30") POLE MOUNT	SF EA	10 2

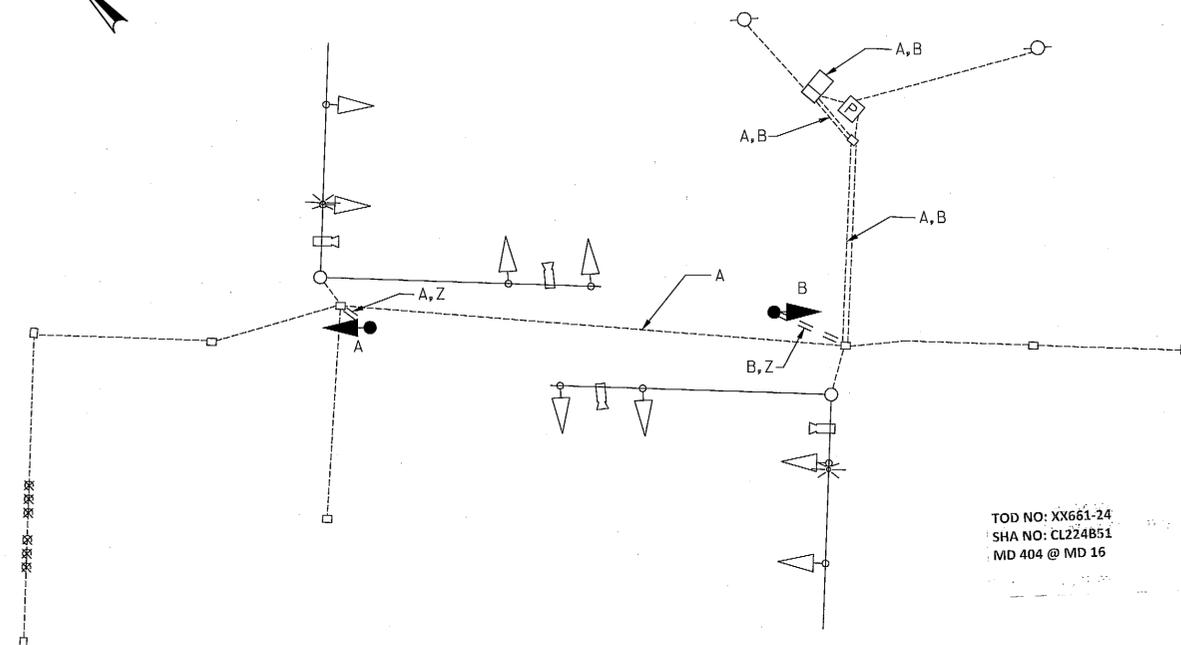
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

ITEM NO.	DESCRIPTION	UNITS	QUANTITY
1001	MAINTENANCE OF TRAFFIC	EA	1
2002	TEST PIT EXCAVATION	CY	1
8001	12 INCH LED SIGNAL HEAD SECTION	EA	4
8004	8 INCH LED SIGNAL HEAD SECTION	EA	6
8009	BREAKAWAY PEDESTAL POLE (ANY SIZE)	EA	2
8023	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)	EA	1
8038	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	30
8040	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)	SF	10
8042	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	30
8056	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)	LF	320

C. IF THE CABINET IS TO BE REMOVED 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.



WIRING DIAGRAM



KEY

- A, B } 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- Z } NO. 6 AWG BARE STRANDED COPPER GROUND WIRE

TOD NO: XX661-24
SHA NO: CL224B51
MD 404 @ MD 16



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 404 AT MD 16/DOUBLE HILLS ROAD
DENTON, MARYLAND

REVISIONS

GENERAL INFORMATION SHEET

SCALE: N.T.S. ADVERTISED DATE: MARCH 2012 CONTRACT NO.: XX6615185

DESIGNED BY: W. KOCHER COUNTY: CAROLINE

DRAWN BY: W. KOCHER LOGMILE: 05040411.02

CHECKED BY: A. GRIFFIN TMS NO.: L231

F.A.P. NO.: SEE TITLE SHEET TOD NO.:

TS NO. 1378 (D) DRAWING: pSG OF N001 SHEET NO. 2 OF 2

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