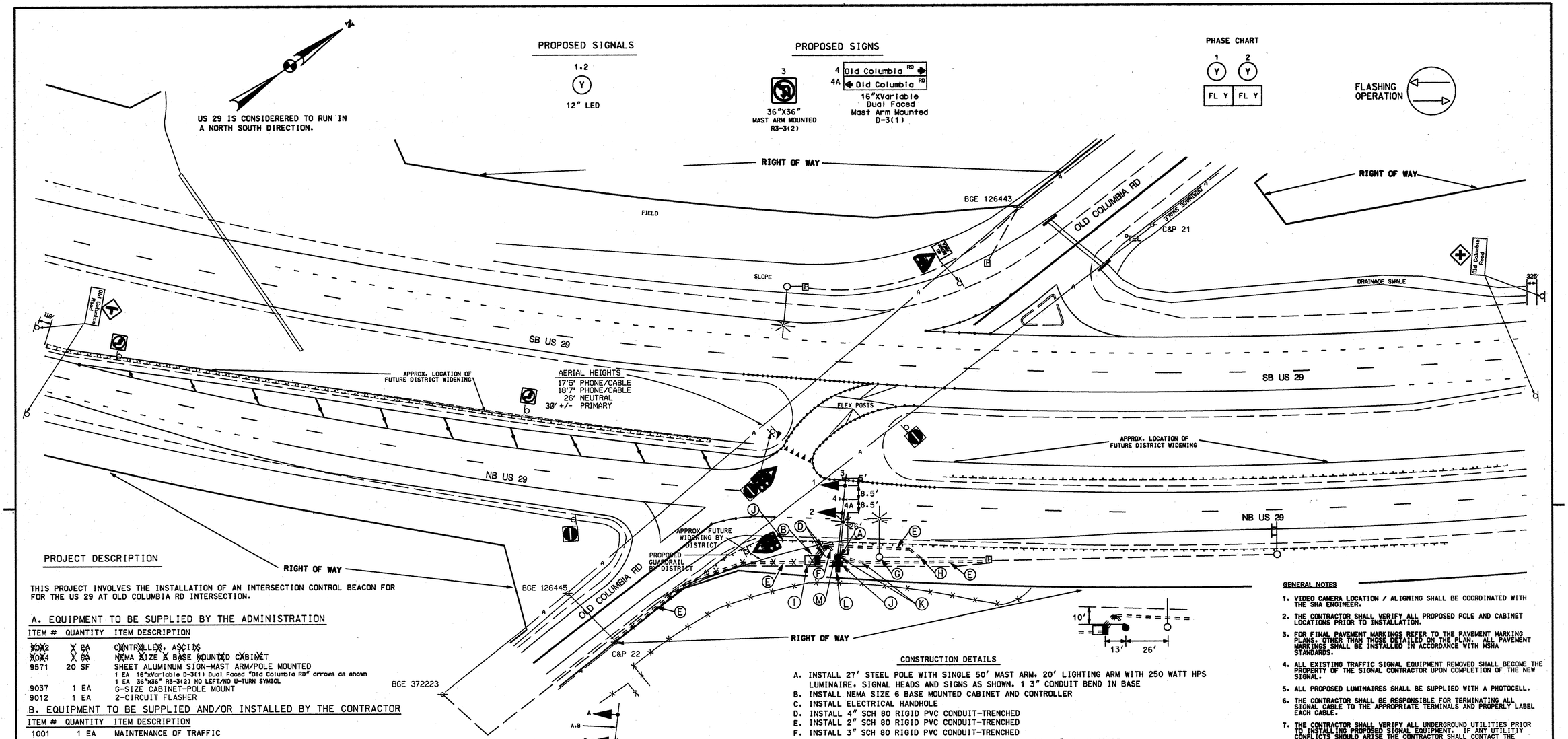


PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE INSTALLATION OF AN INTERSECTION CONTROL BEACON FOR FOR THE US 29 AT OLD COLUMBIA RD INTERSECTION.

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION

ITEM #	QUANTITY	ITEM DESCRIPTION
~~X0X2~~	~~X EA~~	~~CONTROLLER, ASCIDS~~
~~X0X4~~	~~X EA~~	~~NEMA SIZE X BASE MOUNTED CABINET~~
9571	20 SF	SHEET ALUMINUM SIGN-MAST ARM/POLE MOUNTED 1 EA 16"xVariable D-3(1) Dual Faced "Old Columbia RD" arrows as shown 1 EA 36"x36" R3-3(2) NO LEFT/NO U-TURN SYMBOL
9037	1 EA	G-SIZE CABINET-POLE MOUNT
9012	1 EA	2-CIRCUIT FLASHER

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

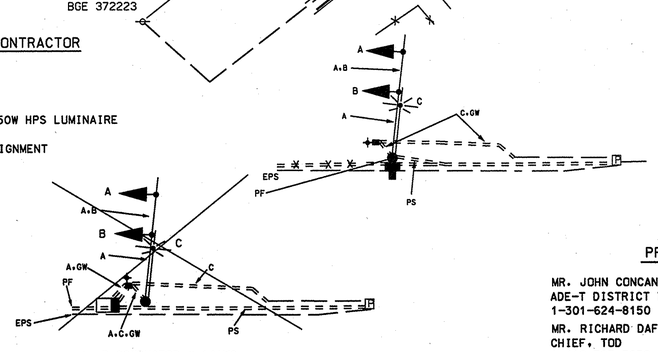
ITEM #	QUANTITY	ITEM DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
2002	2 CY	TEST PIT EXCAVATION
8001	2 EA	12" LED SIGNAL HEAD SECTION
8007	1 EA	ANY SIZE LIGHTING ARM ON SIGNAL STRUCTURE WITH 250W HPS LUMINAIRE
8019	1 EA	FURNISH AND INSTALL STEEL POLE AND 50 MAST ARM
8022	1 EA	REMOVE AND DISPOSE OF EXISTING EQUIPMENT-PER ASSIGNMENT
8035	20 LF	SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
8039	20 SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN
8041	25 LF	#6 STRANDED BARE COPPER GROUND WIRE
8045	300 LF	ELECTRICAL CABLE-1 CONDUCTOR #4
8047	1 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8056	20 LF	ELECTRICAL CABLE-5 CONDUCTOR #14AWG
8057	100 LF	ELECTRICAL CABLE-7 CONDUCTOR #14AWG
8058	175 LF	ELECTRICAL CABLE-2 CONDUCTOR #12AWG, TRAY CABLE
8065	1 EA	INSTALL CONTROLLER AND CABINET-BASE MOUNT
8064	1 EA	INSTALL CONTROLLER AND CABINET-POLE MOUNT
8027	20 LF	1" GALVANIZED RISER

C. EQUIPMENT TO BE RETURNED TO THE ADMINISTRATION

THE BASE MOUNTED CABINET AND ALL OF ITS INTERNAL EQUIPMENT SHALL BE RETURNED TO THE SHA SIGNAL WAREHOUSE.

UTILITY LEGEND

- G — G — GAS MAIN
- W — W — WATER MAIN
- S — S — SEWER MAIN
- E — E — ELECTRIC CABLES
- A — A — AERIAL CABLES
- T — T — TELEPHONE CABLES



A 7-CONDUCTOR # 14AWG
B 5-CONDUCTOR #14AWG
C 2-CONDUCTOR #14AWG TRAY CABLE
GW #6 STRANDED BARE COPPER GROUND WIRE
PS POWER FEED, 1-CONDUCTOR #4AWG
PF PROPOSED PHONE LINE
EPS EXISTING POWER TO PEDESTAL
+ GROUND ROD

CONSTRUCTION DETAILS

A. INSTALL 27' STEEL POLE WITH SINGLE 50' MAST ARM, 20' LIGHTING ARM WITH 250 WATT HPS LUMINAIRE, SIGNAL HEADS AND SIGNS AS SHOWN. 1 3" CONDUIT BEND IN BASE
B. INSTALL NEMA SIZE 6 BASE MOUNTED CABINET AND CONTROLLER
C. INSTALL ELECTRICAL HANDHOLE
D. INSTALL 4" SCH 80 RIGID PVC CONDUIT-TRENCHED
E. INSTALL 2" SCH 80 RIGID PVC CONDUIT-TRENCHED
F. INSTALL 3" SCH 80 RIGID PVC CONDUIT-TRENCHED
G. REMOVE EXISTING LIGHTING STRUCTURE AND FOUNDATION 12" BELOW GRADE
H. TURN OFF EXISTING POWER TO LIGHT POLE, CONNECT PROPOSED 2" CONDUIT TO EXISTING 2" CONDUIT AND INSTALL PROPOSED 2-CONDUCTOR TRAY CABLE FOR LIGHTS AS PER WIRING DIAGRAM
I. REMOVE EXISTING BASE MOUNTED CABINET AND FOUNDATION
J. INSTALL G-SIZE POLE MOUNTED CABINET
K. INSTALL 2" ELBOW IN FOUNDATION. TIE INTO ORIGINALLY PROPOSED 2" CONDUIT FOR SERVICE
L. INSTALL 3'X4' 4" SIDEWALK SECTION FOR COURTESY PAD
M. INSTALL 1" GALVANIZED RISER FOR OVERHEAD PHONE SERVICE

PROJECT CONTACTS

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REDLINE 1 Michael Rudnick 5-25-06
APPROVED, TRAFFIC ENGINEERING DESIGN DIVISION

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

ORIGINALS ON FILE

PLOTTED: Thursday, May 25, 2006 at 1:40:07 PM
FILE: Redline 1.dgn

GENERAL NOTES

1. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
2. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
3. FOR FINAL PAVEMENT MARKINGS REFER TO THE PAVEMENT MARKING PLANS. OTHER THAN THOSE DETAILED ON THE PLAN. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
4. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
5. ALL PROPOSED LUMINAIRES SHALL BE SUPPLIED WITH A PHOTOCELL.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
7. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITIY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
8. 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.

SHA
STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

US 29 @ OLD COLUMBIA RD
SCAGGSVILLE, MARYLAND

TRAFFIC SIGNAL PLAN

SCALE 1:30 DATE MARCH, 2006 CONTRACT NO. AT7835185

DESIGNED BY C. STRAIN
DRAWN BY C. STRAIN
CHECKED BY J. BIDDLE
FAP NO. AC-STPG-000A(81)
COUNTY HOWARD
LOGMILE 13002901.12
TIMS NO. H293
TOD NO.

TS NO. 4470 | DRAWING – OF | SHEET NO. OF

BY: cstrain