EXISTING SIGNS TO REMAIN

5

DRAWBRIDGE
PREPARE TO STOP
WHEN FLASHING

6

Sinepuxent Bay

7

DRAWBRIDGE
SIGNAL

EXISTING SIGNALS TO REMAIN

1, 2 — Y — 12"

3, 4 — R, Y, G — 12"

EQUIPMENT LIST

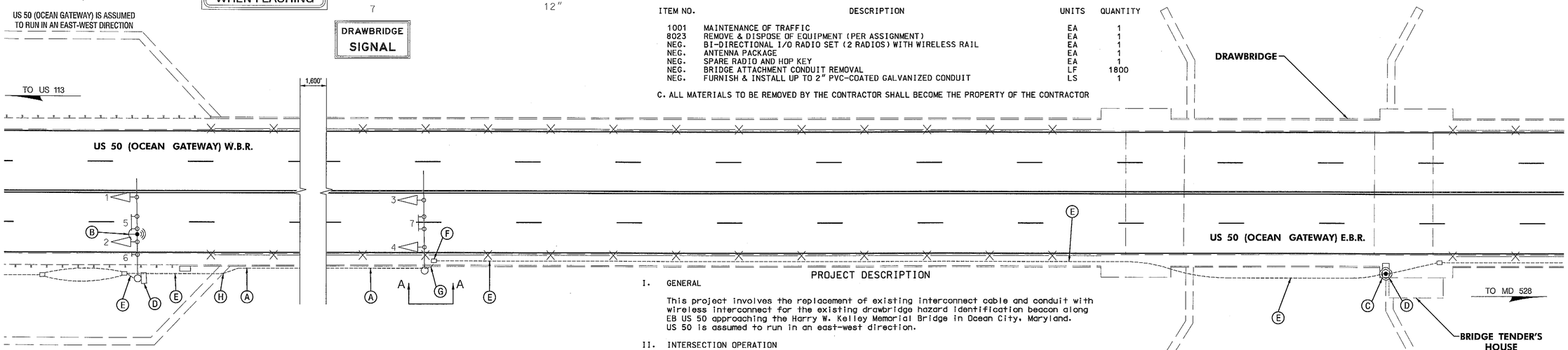
A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

ITEM NO.	DESCRIPTION	UNITS	QUANTITY
	NONE		

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

ITEM NO.	DESCRIPTION	UNITS	QUANTITY
1001	MAINTENANCE OF TRAFFIC	EA	1
8023	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)	EA	1
NEG.	BI-DIRECTIONAL I/O RADIO SET (2 RADIOS) WITH WIRELESS RAIL	EA	1
NEG.	ANTENNA PACKAGE	EA	1
NEG.	SPARE RADIO AND HOP KEY	EA	1
NEG.	BRIDGE ATTACHMENT CONDUIT REMOVAL	LF	1800
NEG.	FURNISH & INSTALL UP TO 2" PVC-COATED GALVANIZED CONDUIT	LS	1

C. ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR



PROJECT DESCRIPTION

I. GENERAL

This project involves the replacement of existing interconnect cable and conduit with wireless interconnect for the existing drawbridge hazard identification beacon along EB US 50 approaching the Harry W. Kelley Memorial Bridge in Ocean City, Maryland. US 50 is assumed to run in an east-west direction.

II. INTERSECTION OPERATION

1. The signal will continue to operate as a warning device for the opening of the drawbridge. The signal will remain dark until actuated by the drawbridge signal, at which time the signal will flash yellow.

NOTES

1. The contractor shall be responsible for terminating all signal cable to the appropriate terminals and properly labeling each cable.
2. SHA Forces shall be responsible for all wiring connections within the existing cabinets. The Contractor shall contact Mr. Ed Rodenhizer at the SHA Signal Shop at least seventy-two (72) hours prior to the completion of work to arrange for wiring within the cabinets and testing.
3. The Contractor shall arrange for radio signal testing, to ensure appropriate placement of the Yagi antenna on the traffic signal mast arm.

CONTACTS

DISTRICT ONE

MR. DONNIE DREWER
DISTRICT ENGINEER
410-677-4006

MR. KENNETH CIMINO
ASSISTANT DISTRICT ENGINEER - TRAFFIC
410-677-4040

MR. BRUCE W. POOLE
UTILITY ENGINEER
410-677-4082

MR. GREG HOLSEY
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
410-677-4020

MR. WAYNE WEICHMAN
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
410-677-4010

OFFICE OF TRAFFIC AND SAFETY

MR. AVIJIT MAJI
CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. ED RODENHIZER
TEAM LEADER SIGNAL OPERATIONS
410-787-7650

MR. EUGENE BAILEY
TEAM LEADER SIGN OPERATIONS
410-787-7670

MR. MIKE STOCKER
SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE)
410-787-7668

CONSTRUCTION DETAILS

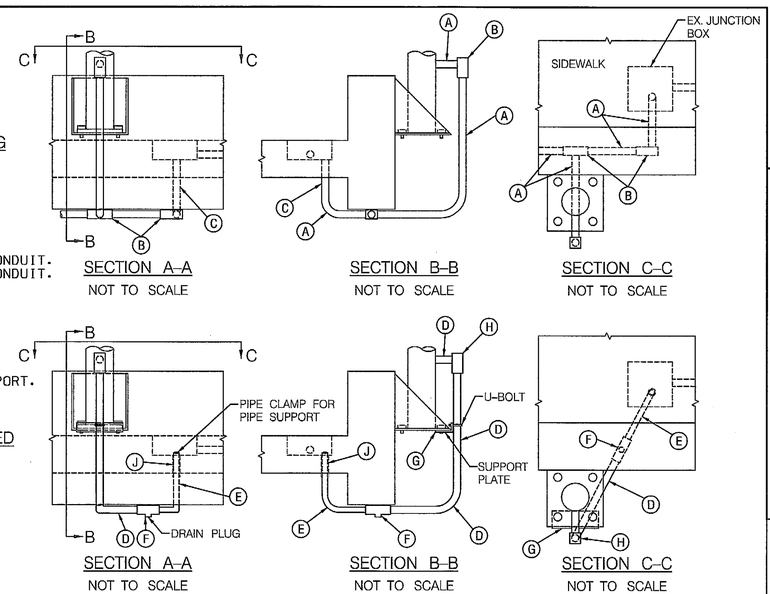
A. REMOVE EXISTING CONDUIT ATTACHED UNDERNEATH BRIDGE. THE EXISTING CLAMPS/STRAPS SHALL REMAIN IN PLACE.
B. INSTALL YAGI ANTENNA ON EXISTING TRAFFIC SIGNAL MAST ARM, AS SHOWN.
C. INSTALL OMNI-DIRECTIONAL ANTENNA ON EXISTING CONTROLLER CABINET USING STAINLESS STEEL U-CLAMPS.
D. INSTALL RADIO IN EXISTING CABINET.
E. REMOVE UNUSED CABLES FROM EXISTING CONDUIT.
F. DISCONNECT EXISTING SIGNAL CABLES TO THE FLASHING BEACON ON THE BRIDGE. PULL BACK CABLES TO THIS JUNCTION BOX AND REROUTE THROUGH NEW CONDUIT SYSTEM.
G. REPLACE CONDUIT FROM EXISTING JUNCTION BOX TO EXISTING TRAFFIC SIGNAL STRUCTURE. REFER TO DETAIL BELOW.
H. REMOVE EXISTING CONDULET. CAP AND ABANDON EXISTING CONDUIT HEADING WEST.

TOD NO: XX661-42
SHA NO: TA301B57
US 50 @ Harry W. Kelly Memorial Drawbridge

SCALE: 1" = 20'

CONDUIT REPLACEMENT DETAILS

A. REMOVE EXISTING CONDUIT.
B. REMOVE EXISTING CONDULET.
C. CUT EXISTING CONDUIT APPROX. 3 IN. BELOW BRIDGE DECK.
D. INSTALL 2 IN. PVC-COATED RIGID STEEL CONDUIT.
E. INSTALL 1 IN. PVC-COATED RIGID STEEL CONDUIT.
F. INSTALL "T" CONDULET WITH DRAIN PLUG.
G. INSTALL SUPPORT PLATE WITH U-BOLT.
H. INSTALL "LB" CONDULET.
J. INSTALL 1 IN. PVC-COATED RIGID STEEL CONDUIT THROUGH EXISTING EMBEDDED CONDUIT. INSTALL DUCT SEAL AT BOTTOM OPENING AND EXOPY AT TOP OPENING. INSTALL PIPE CLAMP AT TOP FOR PIPE SUPPORT.



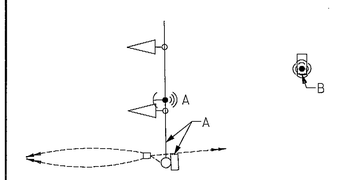
GEOMETRIC LEGEND

EXISTING

UTILITY LEGEND

SD	STORM DRAIN
G	GAS MAIN
W	WATER MAIN
S	SEWER MAIN
E	ELECTRIC CABLES
A	AERIAL CABLES
T	TELEPHONE CABLES
F	FIBER-OPTIC

WIRING DIAGRAM (NOT TO SCALE)



KEY

A} 40-FOOT ANTENNA CABLE

B} 3-FOOT ANTENNA CABLE

PHASE CHART

NO CHANGE

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

US 50 (OCEAN GATEWAY) WEST OF HARRY W. KELLEY MEM. BRIDGE
OCEAN CITY, MARYLAND

SABRA, WANG & ASSOCIATES, INC.
7055 SAMUEL MORSE DRIVE
SUITE 100
COLUMBIA, MD 21046
(443) 741-3500
WWW.SABRA-WANG.COM

APPROVALS	
TEAM LEADER	ORIGINAL ON FILE
ASST. DIV. CHIEF	
DIVISION CHIEF	
OFFICE DIRECTOR	

REVISIONS	
Ⓐ REPLACE INTERCONNECT WITH WIRELESS	01-2013
SHA NO. XX661S165	TIMS NO. L235
SWA	

HAZARD IDENTIFICATION BEACON PLAN

SCALE 1" = 20' DATE 05-08-1998 CONTRACT NO. 23855T2507309

DESIGNED BY
DRAWN BY D.A. NIES
CHECKED BY R.R.Z.
F.A.P. NO.
COUNTY WORCESTER
LOGMILE 23005013.57
T.I.M.S. NO. C837
TOD NO.

TS NO. 3799Ⓐ | DRAWING NO. pSG OF P001 | SHEET NO. 1 OF 1

PLOTTED: Tuesday, January 22, 2013 AT 09:16 AM
FILE: R:\2008\73 SHA BCS 2008-05A_TEDD DESIGN_STV_JV__$5M\Task 192 US 50 Drawbridge\dgn\pSG-P001_L235.dgn

BY: agriffin –