US 15 IS CONSIDERED TO RUN IN A NORTH SOUTH DIRECTION

EXISTING SIGNALS

1-4	5-8
Y	R
12"	12"

EXISTING SIGNS

13-16
POINT OF ROCKS RD
D-3(2)
(VAR.X12")

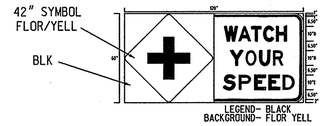
9-12
CATOCTIN MTN HWY
D-3(2)
(VAR.X12")

PROPOSED LED SIGNALS

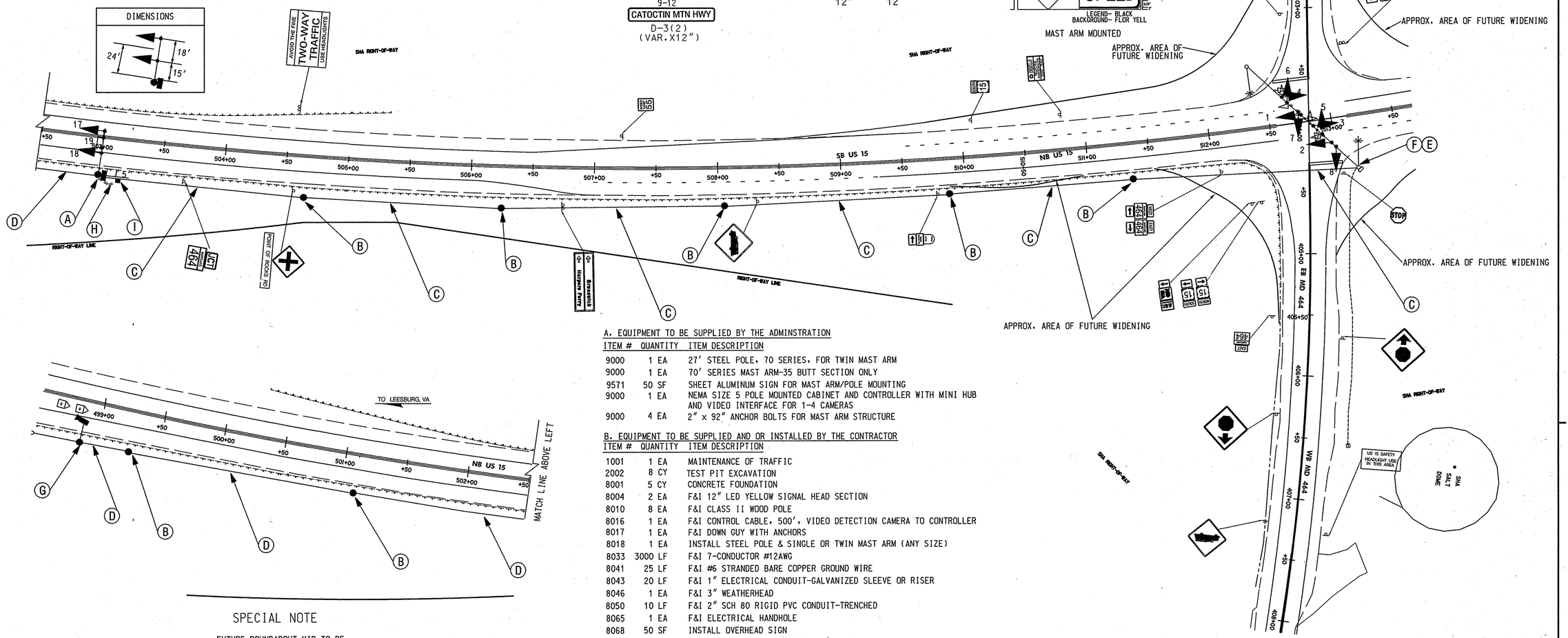
1-4, 17,18	5-8
Y	R
12"	12"

PROPOSED SIGNS

19



MAST ARM MOUNTED



SPECIAL NOTE

FUTURE ROUNDABOUT HIB TO BE INSTALLED AT STA 500+50, RT

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINSTRATION

ITEM #	QUANTITY	ITEM DESCRIPTION
9000	1 EA	27' STEEL POLE, 70 SERIES, FOR TWIN MAST ARM
9000	1 EA	70' SERIES MAST ARM-35 BUTT SECTION ONLY
9571	50 SF	SHEET ALUMINUM SIGN FOR MAST ARM/POLE MOUNTING
9000	1 EA	NEMA SIZE 5 POLE MOUNTED CABINET AND CONTROLLER WITH MINI HUB AND VIDEO INTERFACE FOR 1-4 CAMERAS
9000	4 EA	2" x 92" ANCHOR BOLTS FOR MAST ARM STRUCTURE

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

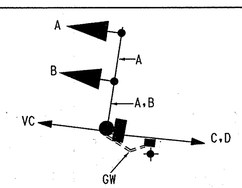
ITEM #	QUANTITY	ITEM DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
2002	8 CY	TEST PIT EXCAVATION
8001	5 CY	CONCRETE FOUNDATION
8004	2 EA	F&I 12" LED YELLOW SIGNAL HEAD SECTION
8010	8 EA	F&I CLASS II WOOD POLE
8016	1 EA	F&I CONTROL CABLE, 500', VIDEO DETECTION CAMERA TO CONTROLLER
8017	1 EA	F&I DOWN GUY WITH ANCHORS
8018	1 EA	INSTALL STEEL POLE & SINGLE OR TWIN MAST ARM (ANY SIZE)
8033	3000 LF	F&I 7-CONDUCTOR #12AWG
8041	25 LF	F&I #6 STRANDED BARE COPPER GROUND WIRE
8043	20 LF	F&I 1" ELECTRICAL CONDUIT-GALVANIZED SLEEVE OR RISER
8046	1 EA	F&I 3" WEATHERHEAD
8050	10 LF	F&I 2" SCH 80 RIGID PVC CONDUIT-TRENCHED
8065	1 EA	F&I ELECTRICAL HANDHOLE
8068	50 SF	INSTALL OVERHEAD SIGN
8069	1 EA	F&I VIDEO DETECTION CAMERA
8087	1 EA	F&I GROUND ROD 3/4" DIAMETER X 10' LENGTH
8096	100 LF	F&I ELECRICAL CABLE-3 CONDUCTOR #14AWG
8103	1 EA	INSTALL 15' LIGHTING ARM ON SIGNAL STRUCTURE
8105	1200 LF	F&I STEEL SPAN WIRE-1/4" DIAMETER
8107	1 EA	INSTALL CONTROLLER AND CABINET-POLE MOUNT

CONSTRUCTION DETAILS

A. INSTALL 27' STEEL POLE WITH SINGLE 70 SERIES MAST ARM (35' BUTT SECTION), SIGN, SIGNAL HEADS POLE MOUNTED NEMA SIZE 5 CABINET
B. INSTALL CLASS II WOOD POLE. CENTER OF POLES TO BE PLACED 6' BEHIND FACE OF W-BEAM
C. INSTALL 1/4" SPAN WIRE WITH 2 RUNS 7-CONDUCTOR #12 AWG ELECTRICAL CBALE
D. INSTALL 1/4" SPAN WIRE WITH VIDEO DETECTION CABLE
E. INSTALL 1" GALVANIZED RISER ON EXISTING STRAIN POLE WITH WEATHERHEAD
F. USE EXISTING DISCONNECT AND TIE PROPOSED #12 AWG INTO SPARE LEG.
G. INSTALL WOOD POLE WITH 15' CLAMP ON LIGHTING ARM WITH VIDEO DETECTION CAMERA AND DOWN GUY
H. INSTALL 2" CONDUIT TRENCHED WITH GROUND WIRE
I. INSTALL ELECTRICAL HANDHOLE WITH GROUND ROD

•• NOTE-SIGNAL HEAD UPGRADES AT MD 464 DONE BY SHA SIGNAL SHOP FORCES

WIRING DIAGRAM



A,B 3-CONDUCTOR #14AWG
GW #4 STRANDED BARE COPPER GROUND WIRE
VC VIDEO CABLE
C,D 7-CONDUCTOR #12AWG FOR POWER
GROUND ROD

APPROVALS

TEAM LEADER
ASST. DIV. CHIEF
DIVISION CHIEF
OFFICE DIRECTOR
ORIGINAL TO FILE

REVISIONS

A INSTALL HIB FOR NB US 15
UPGRADE EXISTING HEADS TO LED
MARCH, 2008 J070 AT205185
CJS

PLOTTED: Tuesday, March 18, 2008 at 1:34:15 PM
FILE: pSG-P000_TIMS.dgn

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

US 15 @ MD 464

INTERSECTION CONTROL BEACON

SIGNALIZATION PLAN SHEET

SCALE 1" = 40' ADVERTISED DATE _____ CONTRACT NO. AW105-853

DESIGNED BY NEM
DRAWN BY NEM
CHECKED BY MJWMAR
F.A.P. NO. N/A

COUNTY FREDERICK
LOGMILE 10001501.40
TIMS NO. J070
TOD NO. _____

TS NO. 3626A | DRAWING SG-PS 1 OF 1 | SHEET NO. 1 OF 1

BY: cstrain