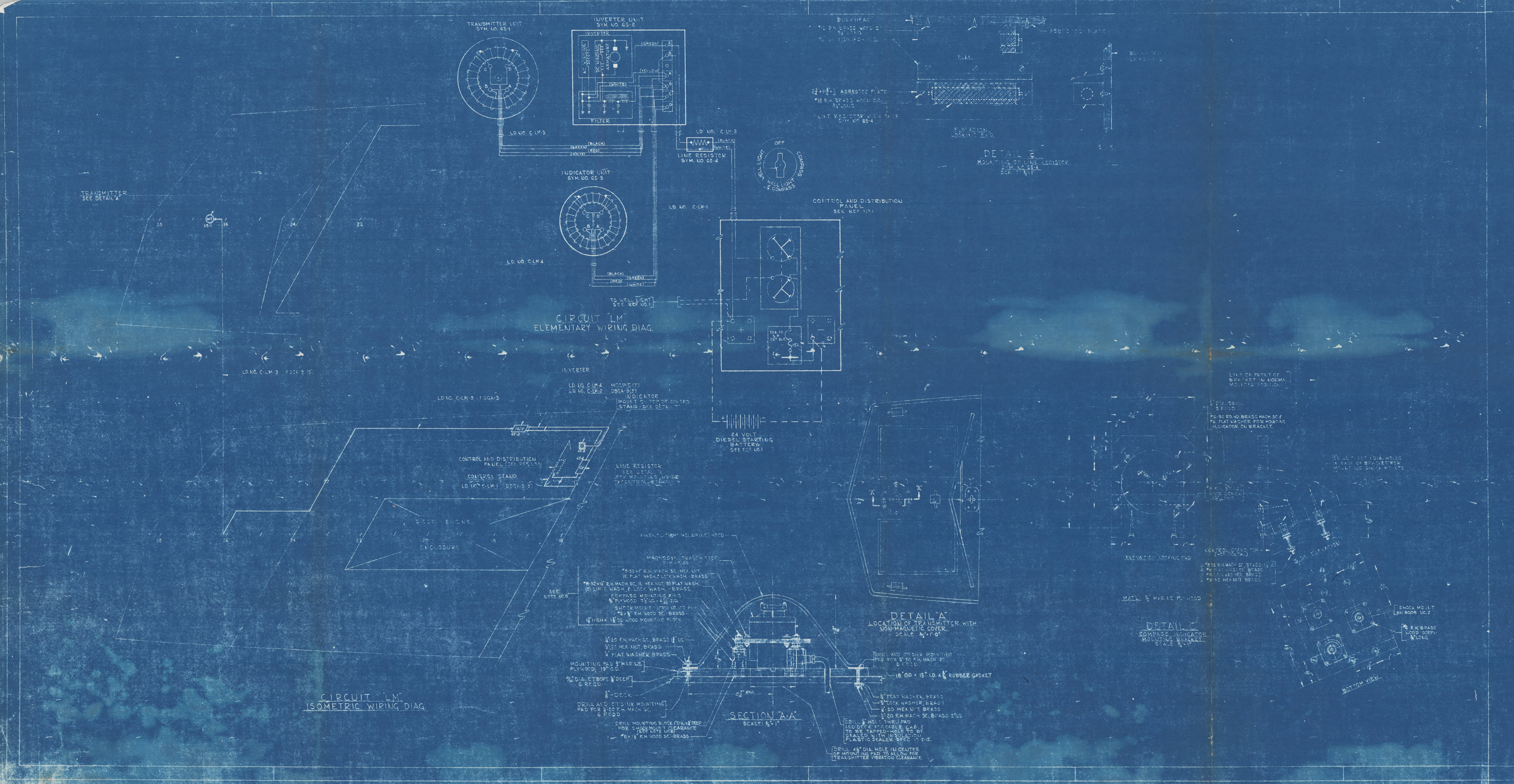
TRANSMITTER UNIT
SYM. NO. 65-1
INVERTER UNIT
SYM. NO. 65-2
INVERTER
AC WINDING
DC WINDING
ARMATURE
FILTER
(GREEN)
(YELLOW)
(WHITE)
(BLACK)
(RED)
E
B
A
C
D
LD. NO. C-LM-3
LD. NO. C-LM-2
LD. NO. C-LM-1
LD. NO. C-LM-4
LINE RESISTOR
SYM. NO. 65-4
INDICATOR UNIT
SYM. NO. 65-3
OFF
WELL LIGHT
COMPASS
WELL LIGHT & COMPASS
CONTROL AND DISTRIBUTION
PANEL
SEE REF. NO. 1
TO WELL LIGHT
SEE REF. NO. 1
50A. FR. S.P. CKT. BKR.
15A
24 VOLT
DIESEL STARTING
BATTERY
SEE REF. NO. 1
TRANSMITTER
SEE DETAIL "A"
LD. NO. C-LM-3 FSGA-3 (15')
INVERTER
LD. NO. C-LM-4 MCOP-5 (7')
LD. NO. C-LM-2 DSGA-3 (8')
INDICATOR
MOUNT ON TOP OF CONTROL STAND - SEE DETAIL "C"
LD. NO. C-LM-3 FSGA-3
INV
65-2
65-3
65-4
CONTROL AND DISTRIBUTION PANEL (SEE REF. NO. 1)
CONTROL STAND
LD. NO. C-LM-1 DSGA-3 (8')
LINE RESISTOR
SEE DETAIL "B"
FOR MOUNTING INSIDE
CONTROL STAND
DIESEL ENGINE
ENCLOSURE
28
26
24
22
20
18
16
BULKHEAD
#12 R.H. BRASS WOOD SC.
3/4" LONG
1/16 GALV. DRIPSHIELD
ASBESTOS PLATE
PLAN
2 3/4" x 11 3/4" x 1/16" ASBESTOS PLATE
#12 R.H. BRASS WOOD SC.
3/4" LONG
LINE RESISTOR WITH CAGE
SYM. NO. 65-4
ELEVATION
LOOKING FWD.
BULKHEAD
DRIPSHIELD
SIDE
PHENOLIC (OR MELAMINE) HOOD
MAGNESYN TRANSMITTER
SYM. NO. 65-1
SEE NOTE NO. 8
#8-32 x 1" R.H. MACH. SC., HEX. NUT, (2) FLAT WASH. & LOCK WASH. - BRASS
#8-32 x 1 1/4" R.H. MACH. SC., (2) HEX. NUT, (3) FLAT WASH., (2) LIMIT WASH. & LOCK WASH. - BRASS
COMPASS MOUNTING RING
5/8" PLYWOOD 7 1/2" O.D. - 4 21/32" I.D.
SHOCK-MOUNT LORD NO. 100 PI
#6 x 3/8" R.H. WOOD SC. - BRASS
1 1/8" HIGH x 1 3/8" SQ. WOOD MOUNTING BLOCK
1/4"-20 F.H. MACH. SC., BRASS 1 3/4" LG.
1/4"-20 HEX. NUT, BRASS
1/4" FLAT WASHER BRASS
MOUNTING PAD 3/4" MARINE PLYWOOD, 19" O.D.
21/32" DIA. C'BORE 3/8" DEEP
6 REQD.
5/8" - DECK
DRILL AND C'TSINK MOUNTING PAD FOR 1/4-20 F.H. MACH. SC.
6 REQD.
DRILL MOUNTING BLOCK 1" DIA. x 3/8" DEEP FOR SHOCKMOUNT CLEARANCE
(SEE NOTE NO. 8)
#8 x 1 1/2" F.H. WOOD SC. - BRASS
8 7/16" RAD.
7 9/16"
18" O.D. x 15" I.D. x 3/16" RUBBER GASKET
1/4" FLAT WASHER, BRASS
1/4" LOCK WASHER, BRASS
1/4"-20 HEX NUT, BRASS
1/4"-20 F.H. MACH. SC., BRASS 2" LG.
DRILL 5/8" HOLE THRU PAD AND DECK FOR CABLE. CABLE TO BE TAPPED-HOLE TO BE SEALED WITH INSULATION PLASTIC SEALER SPEC. 17-I-15.
DRILL 4 1/2" DIA. HOLE IN CENTER OF MOUNTING PAD TO ALLOW FOR TRANSMITTER VIBRATION CLEARANCE.
A
LINE OF FRONT OF BRACKET IN NORMAL MOUNTED POSITION
4 5/8"
2 1/16"
1/2"
1"
3/16" DIA. DRILL
3 REQD.
#6-32 RD. HD. BRASS MACH. SC. & #6 FLAT WASHER FOR MOUNTING INDICATOR ON BRACKET.
#8 F.H. BRASS WOOD SCREW 1 1/2" LONG
DRILL THREE 1" DIA. HOLES IN BASE OF BRACKET FOR MOUNTING SHOCK MOUNTS
CONTROL STAND TOP (HORIZONTAL)
(3) #8-32 R.H. MACH. SC., BRASS - 1 1/2" LG.
(4) #8 FLAT WASHER, BRASS
(3) #8 LOCK WASHER, BRASS
(3) #8-32 HEX NUT, BRASS
ELEVATION LOOKING FWD.
SIDE ELEVATION
BOTTOM VIEW
SHOCK MOUNT AN-8008 NO. 2
#6 R.H. BRASS WOOD SCREW 3/8" LONG
MAT'L: 1/2" MARINE PLYWOOD

CIRCUIT "LM"
ELEMENTARY WIRING DIAG.

CIRCUIT "LM"
ISOMETRIC WIRING DIAG.

DETAIL "A"
LOCATION OF TRANSMITTER WITH NON-MAGNETIC COVER
SCALE: 3/4" = 1'-0"

SECTION "A-A"
SCALE: 3/8" = 1"

DETAIL "B"
MOUNTING OF LINE RESISTOR
SYM. NO. 65-4
SCALE: 3/8" = 1"

DETAIL "C"
COMPASS INDICATOR
MOUNTING BRACKET
SCALE: 3/4" = 1"

LIST OF MATERIALS - QUANTITIES FOR ONE SHIP

SYMBOL	SYMB. NO.	DESCRIPTION	QTY.	BUSHIPS DWG. NO.	NAVY STANDARD STOCK NO.	UNIT WT.	PROCUREMENT RESPONSIBILITY CPA	YARD	CONT.	REMARKS
MT	65-1	TRANSMITTER, MK. I MOD. C, TYPE 10077-1A 26 V. 400 CY.	1			4 1/2#			X	WITH BASE & SHOCKMOUNTS
INV	65-2	INVERTER BOX, INPUT 12 V.D.C., OUTPUT 26 V. 400 CY.	1			9#			X	
I	65-3	INDICATOR MK. I MOD. 1, TYPE 10070-1S-A1, 26 V. 400 CY.	1			1 3/4#			X	
R	65-4	LINE RESISTOR 10 OHM - 125 W., VITROHM	1			1 1/2#		X		WARD LEONARD NO. 10448-1
		TRANSMITTER HOOD, PHENOLIC OR MC	1						X	SEE DET. "A" & SECT. A-A
		TRANSMITTER MOUNT. PAD 19" O.D. x 3/4" MARINE PLYW'D	1					X		
		HOOD GASKET, RUBBER MIL-R-900A 18" O.D. x 15" I.D. x 3/16"	1					X		
		3/8"-16 HEX. HD. BRASS BOLT 2" LG.	3					X		
		3/8"-16 HEX. HD. NUT BRASS	3					X		
		3/8" FLAT WASHER, BRASS	3					X		
		3/8" LOCK WASHER, BRASS	3					X		
		1/4"-20 F.H. BRASS MACH. SC. 1 3/4" LG. 2" LG.	6 6					X		
		1/4"-20 HEX. HD. NUT BRASS	18					X		
		1/4" FLAT WASHER BRASS	18					X		
		1/4" LOCK WASHER, BRASS	6					X		
		RESISTOR DRIPSHIELD 1/16 GALV. SHEET SHAPED AS SHOWN	1			3/4#		X		SEE DET. "B"
		RESISTOR BACK PLATE ASBESTOS SHEET 2 3/4" x 11 3/4" x 1/16"	1			1/4#		X		
		#12 RD. HD. WOOD SC., BRASS - 3/4" LG.	5					X		
		MARINE PLYWOOD 6" x 12" x 1/2"	1					X		SEE DET. "C"
		#8 F.H. WOOD SC., BRASS - 1 1/2" LG.	14					X		SEE DET. "C" & SECTION "A-A"
		#8-32 R.H. MACH. SC., BRASS - 1 1/2" LG.	6					X		
		#8 FLAT WASHER, BRASS	21					X		
		#8 LOCK WASHER, BRASS	9					X		
		#6 RD. HD. WOOD SC., BRASS 3/8" LG.	24					X		
		SHOCK MOUNT, HEDRITE PROD. CO., AN-8008-2	3					X		SEE DET. "C"
		#8-32 HEX. HD. NUT, BRASS	6					X		
		#6-32 RD. HD. MACH. SC., BRASS - 1" LG.	3					X		
		#6 FLAT WASHER	3					X		
		#8-32 RD. HD. MACH. SC., BRASS - 1" LG.	3					X		SEE SECTION "A-A"
		COMPASS MOUNTING RING 7 1/2" O.D. - 4 21/32" I.D. 5/8" MARINE PLYWOOD	1					X		
		LIMIT WASHER 5/8" O.D. x .032" THK. - 11/32" HOLE	6					X		
		SHOCK MOUNT, LORD MFG. CO. NO. 100 PI	3					X		
		COMPASS MOUNTING BLOCK 1 1/8" HIGH x 1 3/8" SQ. SOFT WOOD	3					X		
		FSGA-3 CABLE	15'					X		
		MCOP-7 CABLE	7'					X		
		DSGA-3 CABLE	8'					X		

REVISIONS

REV.	DESCRIPTION	CONTRACTOR APPR.	CONTRACTOR DATE	U.S.N. APPR.	U.S.N. DATE
A	REVISED IN ACCORDANCE WITH SUPSHIP N.Y. APPROVAL LETTER 36' LCVP/S24 SER 42548-293-4 OF 18 NOV. 54 EXCEPT AS NOTED IN KNUTSON LTR. L.C.V.P./S24(0032-K400) DATED 12-2-54; ADDED NOTE 9.		12/2/54	12-9-54	ECG

Certified that this plan has been modified to represent the vessel as constructed

M. J. Eckley 6/9/55
for SUPERVISOR OF SHIPBUILDING, USN & NIO, NEW YORK

GENERAL NOTES:

1. THE TRANSMITTER (SYM. 65-1) SHALL BE LOCATED ON AFT. DK. ALONG FORE & AFT CENTERLINE AT A POINT WHERE DEVIATION OF AN UNCOMPENSATED COMPASS IS AT A MINIMUM. NO IRON OR OTHER MAGNETIC MATERIAL TO BE WITHIN FIVE FEET OF TRANSMITTER UNLESS ABSOLUTELY NECESSARY.
2. THE TRANSMITTER SHALL BE MOUNTED WITH THE CABLE CONNECTOR POINTING FWD. A LINE PASSING THRU THE CENTER OF THE CABLE CONNECTOR AND THE CENTER OF THE REAR MOUNTING HOLE SHALL BE COINCIDENT WITH THE FORE & AFT AXIS OF THE VESSEL. THE PLANE OF THE MOUNTING LUGS MUST BE HORIZONTAL.
3. THE INDICATOR (SYM. 65-3) SHALL BE LOCATED AT THE CONTROL STAND IN A CONVENIENT POSITION FOR THE HELMSMAN. DO NOT LOCATE INDICATOR WITHIN 8" OF A DIRECT READING MAGNETIC COMPASS.
4. THE INVERTER BOX (SYM. 65-2) SHALL BE LOCATED SO THAT FREE AIR MAY CIRCULATE AROUND BOX TO DISSIPATE HEAT.
5. CABLE ENTERING TRANSMITTER AND INDICATOR SHALL HAVE FREE LOOP.
6. TERMINAL TUBES, CABLE GLANDS, BOX CONNECTORS AND BUSHINGS ARE SUPPLIED INSTALLED IN THE VARIOUS PIECES OF EQUIPMENT.
7. THE COMPASS DOES NOT REQUIRE A WARM-UP PERIOD AND CAN BE USED AS SOON AS IT IS STARTED.
8. THE TRANSMITTER (SYM. NO. 65-1) SHALL BE MOUNTED ON WOOD BLOCKS AND SHOCKMOUNTS AS SHOWN IN SECTION "A-A". THE METAL MOUNTING RING NORMALLY FURNISHED AS PART OF THE STANDARD EQUIPMENT SHALL NOT BE USED. THE LOCATION OVER THE PROPELLER ON SMALL CRAFT PLACES THE TRANSMITTER IN A SEVERE VIBRATION LOCATION AND REQUIRES THE MORE FLEXIBLE TYPE OF SHOCK MOUNTING AS SHOWN IN SECT. "A-A". FOR DETAILS OF MOUNTING PAD, COMPASS MOUNTING RING & BLOCKS SEE REF. NO. 2.
9. CABLE TAGS ARE NOT REQUIRED FOR THIS INSTALLATION.

REFERENCES

NO.	TITLE	BUSHIPS DWG. NO.
1	36 FT. LANDING CRAFT LCVP - ELECTRICAL PLAN	LCVP-1298870 CONTRACT PLAN
2	MAGNESYN COMPASS SYS. - LCVP - INSTALLATION DWG.	S2407-533030

258928

THOMAS KNUTSON DRAWING NO. K36-LCVP-87	THOMAS KNUTSON SHIPBUILDING CORP. HALESITE, N.Y.
EXAMINED	36 FT. LANDING CRAFT L.C.V.P.
OFFICIAL: SIGNATURE	MAGNESYN COMPASS SYSTEM - CKT. "LM" ISOMETRIC & ELEMENTARY WIRING DIAGRAM AND DETAILS
DRAWN	
TRACED	
REVIEWED	
APP'D	APPROVED E. C. G. Schmidt DATE 12-9-54
DATE 8-NOV.-54	FOR SUPERVISOR OF SHIPBUILDING, U.S.N. & N.I.O., N.Y.

BUREAU OF SHIPS NO. LCVP S2407-H 258928 REV. A
SCALE: 1" = 1'-0" & AS NOTED SHEET 1 OF 1