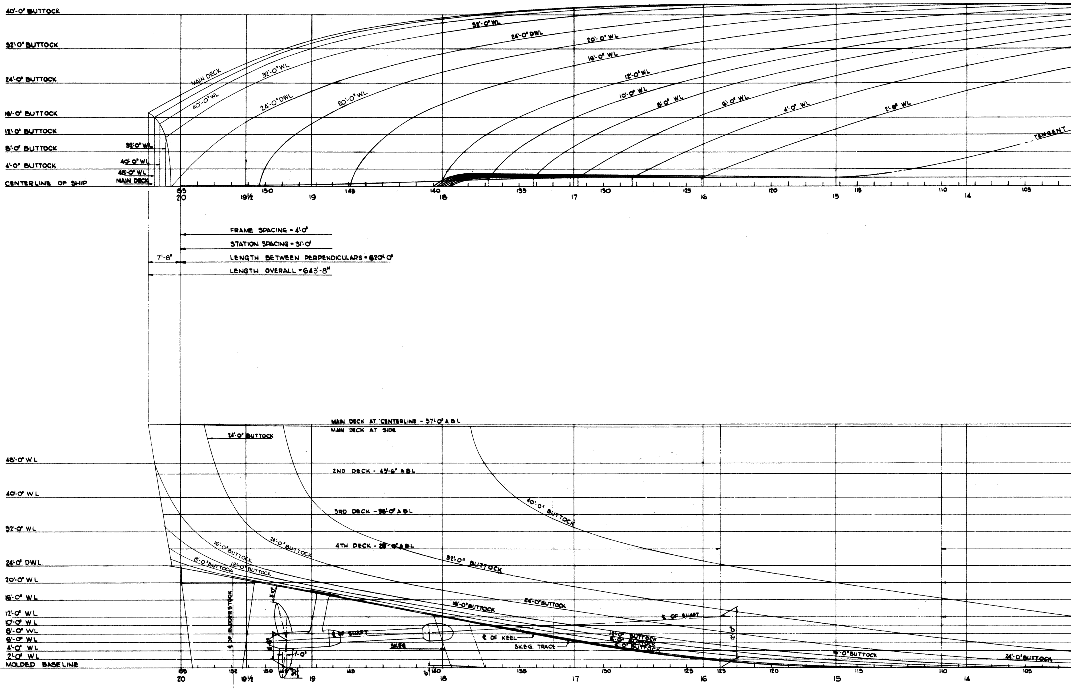
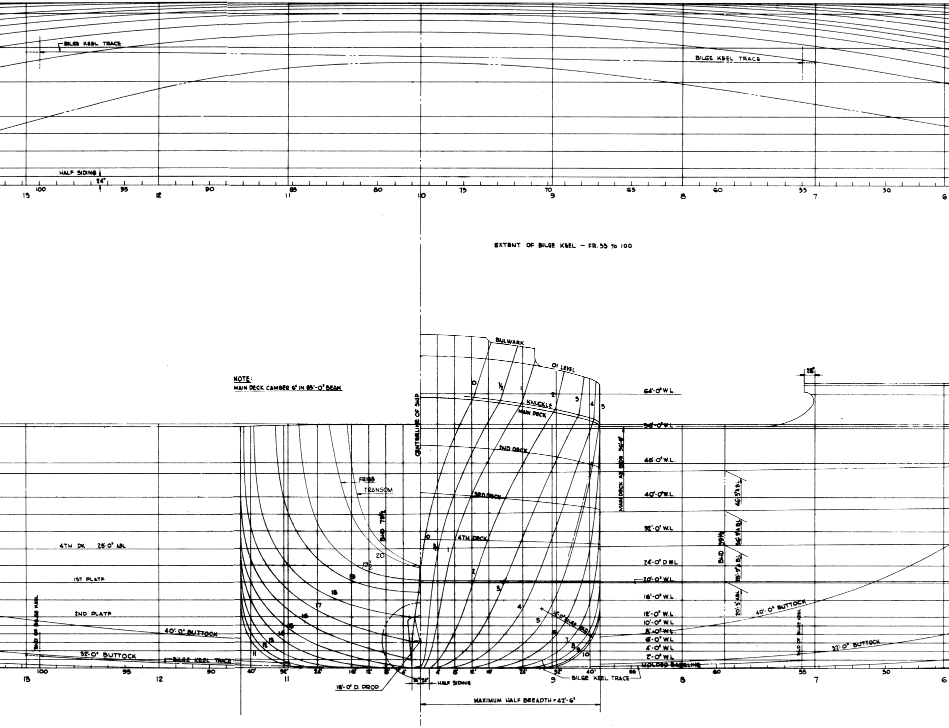

40'-0" BUTTOCK
32'-0" BUTTOCK
24'-0" BUTTOCK
16'-0" BUTTOCK
12'-0" BUTTOCK
8'-0" BUTTOCK
4'-0" BUTTOCK
CENTERLINE OF SHIP
32'-0" WL
40'-0" WL
48'-0" WL
MAIN DECK
MAIN DECK
40'-0" WL
32'-0" WL
24'-0" DWL
20'-0" WL
32'-0" WL
24'-0" DWL
20'-0" WL
16'-0" WL
12'-0" WL
10'-0" WL
8'-0" WL
6'-0" WL
4'-0" WL
2'-0" WL
TANGENT
155
20
19½
150
19
145
140
18
135
17
130
125
16
120
15
115
110
14
105
FRAME SPACING = 4'-0"
STATION SPACING = 31'-0"
LENGTH BETWEEN PERPENDICULARS = 620'-0"
7'-8"
LENGTH OVERALL = 643'-8"
MAIN DECK AT CENTERLINE - 57'-0" ABL
MAIN DECK AT SIDE
24'-0" BUTTOCK
2ND DECK - 45'-6" ABL
3RD DECK - 36'-0" ABL
4TH DECK - 28'-0" ABL
40'-0" BUTTOCK
24'-0" BUTTOCK
32'-0" BUTTOCK
16'-0" BUTTOCK
12'-0" BUTTOCK
8'-0" BUTTOCK
16'-0" BUTTOCK
24'-0" BUTTOCK
48'-0" WL
40'-0" WL
32'-0" WL
24'-0" DWL
20'-0" WL
16'-0" WL
12'-0" WL
10'-0" WL
8'-0" WL
6'-0" WL
4'-0" WL
2'-0" WL
MOLDED BASELINE
℄ OF RUDDERSTOCK
3'-10"
1'-0"
℄ OF SHAFT
℄ OF SHAFT
SKEG
℄ OF KEEL
SKEG TRACE
12'-0"
12'-0" BUTTOCK
8'-0" BUTTOCK
4'-0" BUTTOCK
8'-0" BUTTOCK
24'-0" BUTTOCK
155
20
152
19½
150
149
19
145
140
18
135
17
130
125
16
125
120
15
115
110
14
105


BILGE KEEL TRACE
BILGE KEEL TRACE
HALF SIDING
24"
13
100
95
12
90
11
85
80
10
75
9
70
65
8
60
55
7
50
6
EXTENT OF BILGE KEEL – FR. 55 TO 100
NOTE:
MAIN DECK CAMBER 6" IN 85'-0" BEAM
BULWARK
01 LEVEL
KNUCKLE
MAIN DECK
2ND DECK
3RD DECK
4TH DECK
CENTERLINE OF SHIP
FR 155
TRANSOM
END 79¾
END 59¾
MAIN DECK AT SIDE 56'-8"
64'-0" W.L.
56'-0" W.L.
48'-0" W.L.
40'-0" W.L.
32'-0" W.L.
24'-0" D.W.L.
20'-0" W.L.
16'-0" W.L.
12'-0" W.L.
10'-0" W.L.
8'-0" W.L.
6'-0" W.L.
4'-0" W.L.
2'-0" W.L.
MOLDED BASELINE
46'-5" A.B.L.
36'-9" A.B.L.
28'-9" A.B.L.
20'-5" A.B.L.
4TH DK 28'-0" ABL
1ST PLATF
2ND PLATF
40'-0" BUTTOCK
32'-0" BUTTOCK
END OF BILGE KEEL
BILGE KEEL TRACE
14'-0" BILGE RADIUS
16'-0" D. PROP
24"
24"
HALF SIDING
MAXIMUM HALF BREADTH = 42'-6"
40'
32'
24'
16'
12'
8'
4'
28"

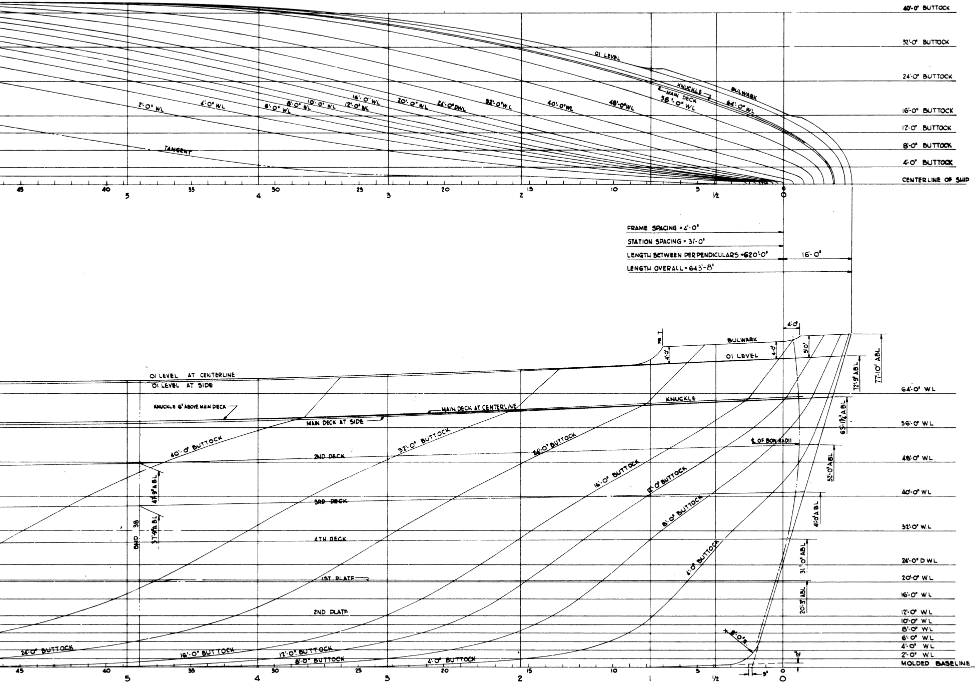

40'-0" BUTTOCK
32'-0" BUTTOCK
24'-0" BUTTOCK
16'-0" BUTTOCK
12'-0" BUTTOCK
8'-0" BUTTOCK
4'-0" BUTTOCK
CENTERLINE OF SHIP
01 LEVEL
KNUCKLE
MAIN DECK
BULWARK
2'-0" WL
4'-0" WL
6'-0" WL
8'-0" WL
10'-0" WL
12'-0" WL
16'-0" WL
20'-0" WL
24'-0" DWL
32'-0" WL
40'-0" WL
48'-0" WL
56'-0" WL
64'-0" WL
TANGENT
45
40
35
30
25
20
15
10
5
5
4
3
2
1/2
0
FRAME SPACING = 4'-0"
STATION SPACING = 31'-0"
LENGTH BETWEEN PERPENDICULARS = 620'-0"
LENGTH OVERALL = 643'-8"
16'-0"
4'-0"
FR. 7
4'-0"
BULWARK
01 LEVEL
4'-0"
5'-0"
77'-10" ABL
72'-9" ABL
01 LEVEL AT CENTERLINE
01 LEVEL AT SIDE
64'-0" WL
KNUCKLE
KNUCKLE 6' ABOVE MAIN DECK
MAIN DECK AT CENTERLINE
MAIN DECK AT SIDE
63'-1 3/4" ABL
56'-0" WL
40'-0" BUTTOCK
32'-0" BUTTOCK
24'-0" BUTTOCK
℄ OF BOW RADII
2ND DECK
48'-0" WL
52'-0" ABL
16'-0" BUTTOCK
12'-0" BUTTOCK
47'-9" ABL
40'-0" WL
3RD DECK
8'-0" BUTTOCK
41'-0" ABL
BHD 38
37'-9" ABL
32'-0" WL
4TH DECK
4'-0" BUTTOCK
24'-0" DWL
31'-0" ABL
1ST PLATF
20'-0" WL
16'-0" WL
20'-3" ABL
2ND PLATF
12'-0" WL
10'-0" WL
8'-0" WL
6'-0" WL
8'-0" R.
4'-0" WL
24'-0" BUTTOCK
16'-0" BUTTOCK
12'-0" BUTTOCK
8'-0" BUTTOCK
4'-0" BUTTOCK
2'-0" WL
12"
MOLDED BASELINE
45
40
35
30
25
20
15
10
5
5
4
3
2
1
1/2
9"
0

TABLE OF MOLDED OFFSETS

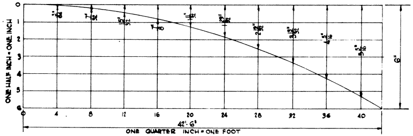
S T A.	WATERLINE HALF BREADTHS															BUTTOCK HTS ABOVE ℄							01 LEVEL			MAIN DECK			KNUCKLE		KEEL RISE	B.K. TRACE		HALF SIDING	S T A.
	BL	2'-0"	4'-0"	6'-0"	8'-0"	10'-0"	12'-0"	16'-0"	20'-0"	24'-0"	32'-0"	40'-0"	48'-0"	56'-0"	64'-0"	4'-0"	8'-0"	12'-0"	16'-0"	24'-0"	32'-0"	40'-0"	HB	HT ℄	HT SIDE	HB	HT ℄	HT SIDE	H.B.	HT.	HT.	H.B.	HT.	H.B.	
FP	—	—	—	—	—	—	—	—	—	0-0-0	1-3-3	3-0-7	5-7-3	8-10-3	12-8-5	43-4-1	54-2-5	62-2-4	—	—	—	—	15-4-7	72-8-0	72-8-4	12-2-4	62-9-0	62-8-4	12-3-4	63-2-4	1-0-0	—	—	—	F.P.
½	—	0-9-5	1-1-4	1-3-6	1-6-4	1-9-1	1-11-1	2-3-5	2-10-2	3-4-1	4-11-8	7-5-3	10-10-3	13-0-2	19-3-3	27-8-3	41-4-0	50-2-4	57-10-4	—	—	—	21-8-1	71-6-4	71-5-3	18-6-0	62-0-4	61-11-3	18-9-5	62-5-3	0-6-0	—	—	0-1-4	½
1	0-0-0	1-8-5	2-4-7	2-10-6	3-2-6	3-8-7	4-1-7	4-10-2	5-7-6	6-5-4	8-7-7	11-8-4	15-7-0	20-1-0	24-5-2	11-5-4	29-10-3	40-7-1	48-8-7	62-6-3	—	—	26-6-4	70-10-2	70-8-4	24-5-2	61-4-2	61-2-2	25-9-0	61-8-2	0-0-0	—	—	0-8-4	1
2	2-0-0	4-2-8	5-8-8	6-9-7	7-8-7	8-7-7	9-5-5	10-10-5	12-3-1	13-7-6	16-7-2	20-1-1	24-2-4	28-10-6	32-8-1	1-9-6	8-6-7	19-3-2	30-6-0	47-7-4	61-7-0	—	33-11-1	69-7-3	69-5-0	31-4-3	60-1-3	59-10-1	31-8-4	60-4-4		—	—	2-0-0	2
3	2-6-0	8-0-0	10-3-8	12-0-0	13-6-0	14-9-0	15-10-2	17-10-6	19-7-8	21-8-6	24-7-1	27-11-6	31-7-7	35-9-1	38-2-3	0-2-2	2-0-0	6-0-0	12-3-0	30-7-4	48-8-0	—	38-8-7	68-6-0	68-1-4	37-2-5	59-0-0	58-7-1	37-6-0	59-1-1		—	—		3
4	4-6-2	12-8-5	15-9-4	18-0-5	19-10-1	21-5-1	22-9-4	24-11-5	26-10-3	28-6-1	31-3-7	34-4-6	37-3-3	40-2-6	41-3-6	0-0-0	0-4-2	1-7-5	4-1-3	14-2-2	39-3-7	55-4-6	41-5-7	67-7-0	67-1-4	40-9-5	58-1-0	57-7-4	41-0-0	58-1-4		—	—		4
5	9-0-7	18-3-6	21-9-7	24-4-4	26-2-7	27-11-8	29-4-0	31-5-7	33-1-7	34-7-6	37-0-5	39-0-4	40-8-1	42-1-0	42-5-1		0-0-0	0-2-2	1-1-1	5-7-6	17-2-2	44-5-1	42-6-0	67-0-0	66-6-1	42-3-6	57-6-0	57-0-0*	42-4-4	57-6-0*		—	—		5
6	13-11-5	24-0-0	27-7-4	30-1-6	33-0-0	33-6-7	34-9-4	36-8-1	38-0-6	39-1-3	40-7-0	41-7-1	42-2-4	42-6-0	42-6-0			0-0-0	0-1-3	2-0-0	8-0-0	28-3-1	42-6-0	66-8-3	66-2-3	42-6-0	57-2-3	56-8-3	42-6-0	57-2-3		—	—		6
7	19-0-0	28-10-4	32-5-6	34-10-2	36-6-3	37-9-3	38-9-0	40-1-1	41-1-1	41-7-3	42-3-6	42-6-0	42-6-0		42-6-0				0-0-0	0-3-1	3-7-7	15-5-3	42-6-0	66-6-4	66-0-4		57-0-4	56-6-4	—	—		28-8-3	2-0-0*		7
8	23-7-4	32-7-6	35-9-6	37-10-4	39-4-5	40-5-1	41-2-1	42-0-2	42-4-3	42-6-0	42-6-0				—					0-0-0	1-8-6	9-1-4	—	—	—		57-0-0	56-6-0	—	—		28-11-1	0-9-6		8
9	27-2-4	34-11-7	37-8-4	39-5-2	40-8-5	41-7-1	42-1-4	42-6-0	42-6-0						—						0-9-5	6-10-1	—	—	—				—	—		29-3-2	0-3-1		9
10	28-6-0	35-7-4	38-3-6	39-10-6	41-1-0	41-10-1	42-3-1	↓							—					↓	0-6-1	6-0-7	—	—	—				—	—		30-0-0	0-2-0		10
11	27-3-3	35-1-1	37-11-4	39-8-5	40-11-2	41-8-5	42-1-7	42-6-0	↓						—				↓	0-0-0	0-10-2	6-4-7	—	—	—				—	—		30-4-4	0-3-0		11
12	22-5-1	32-11-1	36-5-0	38-6-1	39-11-1	40-10-6	41-7-0	42-3-5	42-6-0	↓					—		↓	↓	0-0-0	0-1-0	1-7-3	8-3-4	—	—	—				—	—		30-8-3	1-3-4		12
13	14-6-2	28-8-5	33-1-7	35-10-6	37-8-7	39-1-7	40-2-6	41-8-1	42-3-2	42-6-0					—	↓	0-0-0	0-0-0	0-0-6	0-10-4	3-4-2	11-6-5	—	—	—				—	—	↓	30-11-0	2-11-6*		13
14	6-6-0	22-2-6	27-11-3	31-7-3	34-1-6	36-2-3	37-9-3	40-2-3	41-6-6	42-3-4	↓	↓			—	0-0-0	0-0-3	0-4-1	0-3-4	2-6-1	6-8-8	15-8-7	—	—	—				—	—	0-0-0	—	—		14
15	0-0-0	19-2-4	20-6-4	25-8-3	29-2-4	32-0-0	34-2-0	37-8-5	40-0-0	41-5-7	42-6-0	42-6-0	↓	↓	—	0-4-1	1-0-0	1-8-6	2-8-5	3-3-1	10-0-0	20-0-0	—	—	—	↓		↓	—	—	0-1-0	—	—		15
16	—	2-1-6	9-10-2	16-8-6	21-9-1	25-7-5	28-9-5	33-9-1	37-3-0	39-6-2	41-9-6	42-5-1	42-6-0	42-6-0	—	2-4-6	3-6-0	4-6-6	3-9-7	9-1-4	14-4-4	25-0-0	—	—	—	42-6-0		56-6-0	—	—	2-0-0	—	—	↓	16
17	—	—	—	—	9-4-1	16-0-0	21-1-3	28-2-2	33-11-0	36-1-7	39-9-2	41-1-6	41-7-3	41-8-7	—	6-7-7	7-7-7	8-8-6	10-0-0	18-3-3	19-1-1	32-11-0	—	—	—	41-8-7		56-6-2	—	—	6-2-2	—	—	2-0-0	17
18	—	—	—	—	—	—	1-10-3	19-2-4	26-8-1	30-11-1	35-9-7	38-0-3	38-11-3	39-3-1	—	12-3-1	12-11-0	13-9-0	14-9-7	18-3-3	25-3-6	—	—	—	—	39-3-1		56-6-7	—	—	11-11-4	—	—	1-3-4	18
19	—	—	—	—	—	—	—	—	14-6-6	22-2-1	29-0-5	32-1-7	33-5-3	34-0-1	—	17-11-6	18-3-3	19-3-0	20-6-5	25-6-3	39-8-5	—	—	—	—	34-8-2		56-8-1	—	—	17-9-3	—	—	0-4-2	19
19½	—	—	—	—	—	—	—	—	—	14-11-6*	23-1-4	26-1-0	27-7-4	—	—	20-10-1	21-5-6	22-7-3	24-7-0	33-11-0	—	—	—	—	—	28-6-0	↓	56-9-3	—	—	20-7-1	—	—	0-2-6	19½
AP	—	—	—	—	—	—	—	—	—	2-3-2	13-8-3	17-6-7	19-7-7	—	—	24-9-5	26-5-6	29-10-4	36-0-0	—	—	—	—	—	—	21-2-4	57-0-0	56-10-4	—	—	23-7-3	—	—	0-1-4	A.P.
TRANSOM	—	—	—	—	—	—	—	—	—	0-1-2*	11-3-4	14-6-4	16-1-6	—	—	25-5-4	28-1-6	33-2-2	46-11-7	—	—	—	—	—	—	17-0-0	57-0-0	56-11-0	—	—	24-0-0	—	—	0-1-2	TRANSOM

*FAIRING POINT

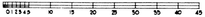
HULL DIMENSIONS

LENGTH	643'-8"
LENGTH BETWEEN PERPENDICULARS	620'-0"
BEAM	85'-0"
DRAFT	24'-0"
DISPLACEMENT, TOTAL	21,916 TONS
PRISMATIC COEFF.	.629
MIDSHIP SECTION COEFF.	.959
LCB (% OF LBP)	50.967
INERTIA COEFF.	.05255
WATERPLANE COEFF.	.769

STEM RADII	
WL	RADIUS
64'-0"	8-2-4
56'-0"	5-7-4
48'-0"	3-5-2
40'-0"	1-10-3
32'-0"	0-9-5
24'-0"	0-6-0
20'-0"	
16'-0"	
12'-0"	
10'-0"	
8'-0"	
6'-0"	
4'-0"	↓
2'-0"	0-6-0



CAMBER CURVE - MAIN DECK & 01 LEVEL



0 1 2 3 4 5
10
15
20
25
30
35
40
45

SCALE - 1/8" = 1'-0"

DEPARTMENT OF THE NAVY
WASHINGTON, D. C.

BUREAU OF SHIPS

EXAMINED	
OFFICIAL	SIGNATURE
[illegible]	[illegible]
[illegible]	W. L. [illegible]
[illegible]	[illegible]
[illegible]	W. H. Brooke
[illegible] 442	John Vasta
REVIEWED	[illegible] Harrison Jr
DRAWN	[illegible]

SUBMARINE TENDER-AS34

LINES AND MOLDED. OFFSETS

APPROVED
DATE 5/21/43
FOR CHIEF OF BUREAU

HULL
CONTRACT PLAN

BUREAU OF SHIPS NO.		
✓AS34	800	2120799

SCALE - 1/8" = 1'-0"