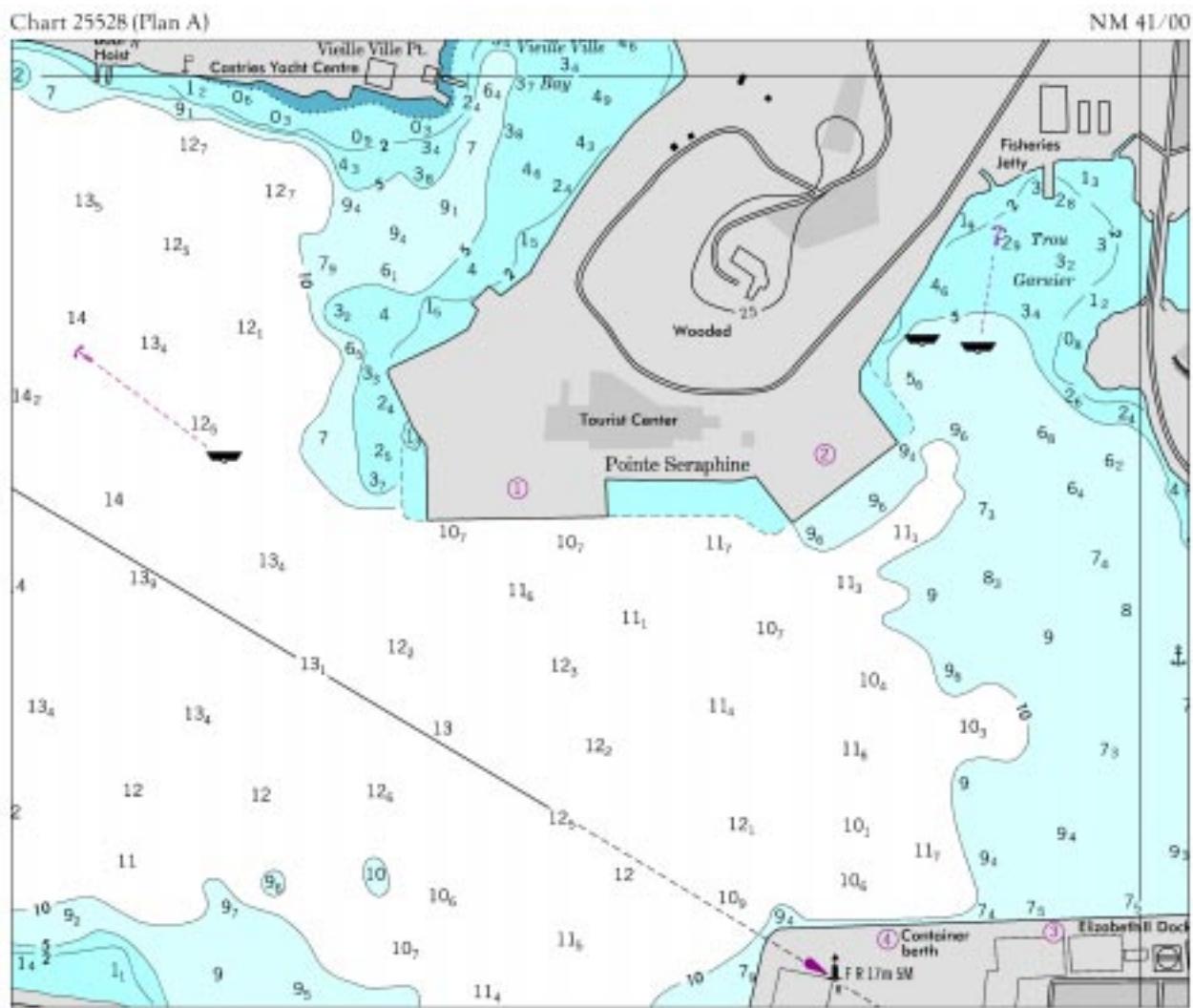


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Chart 72234

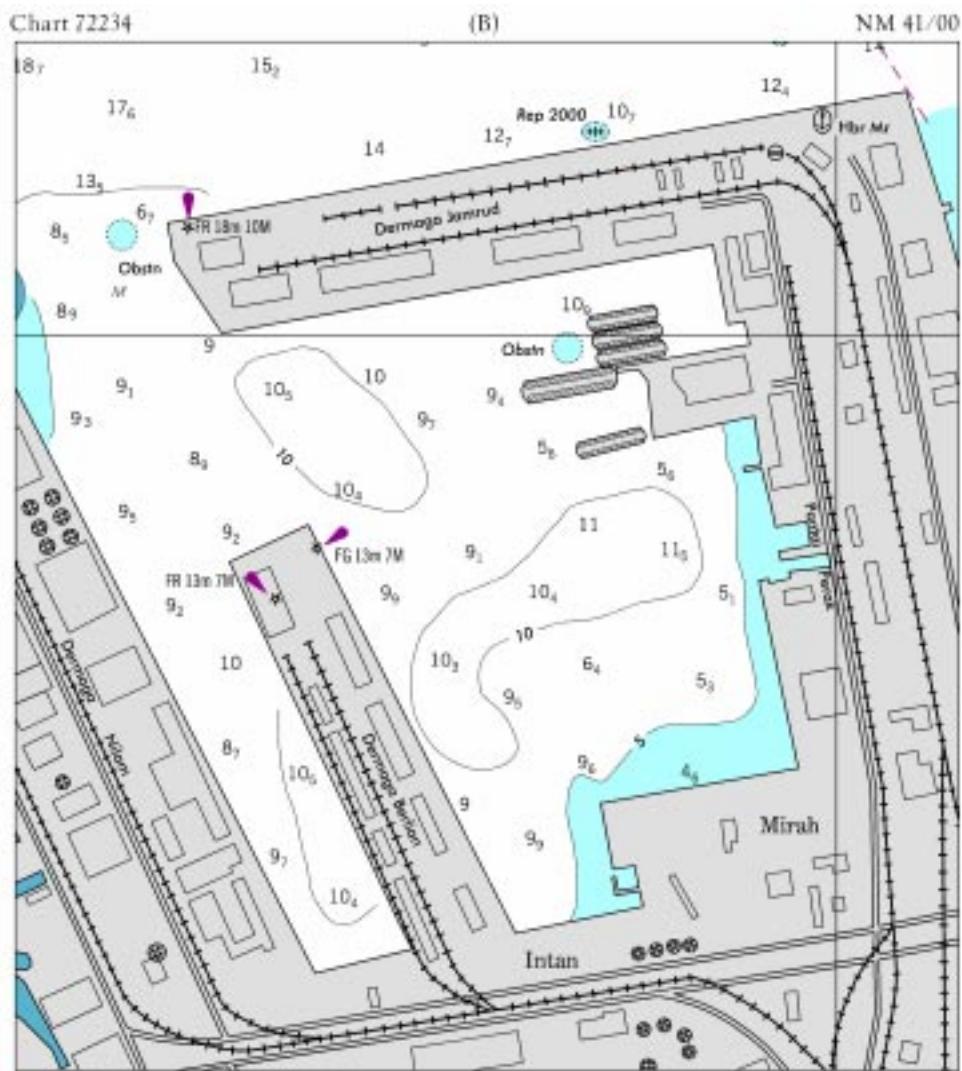
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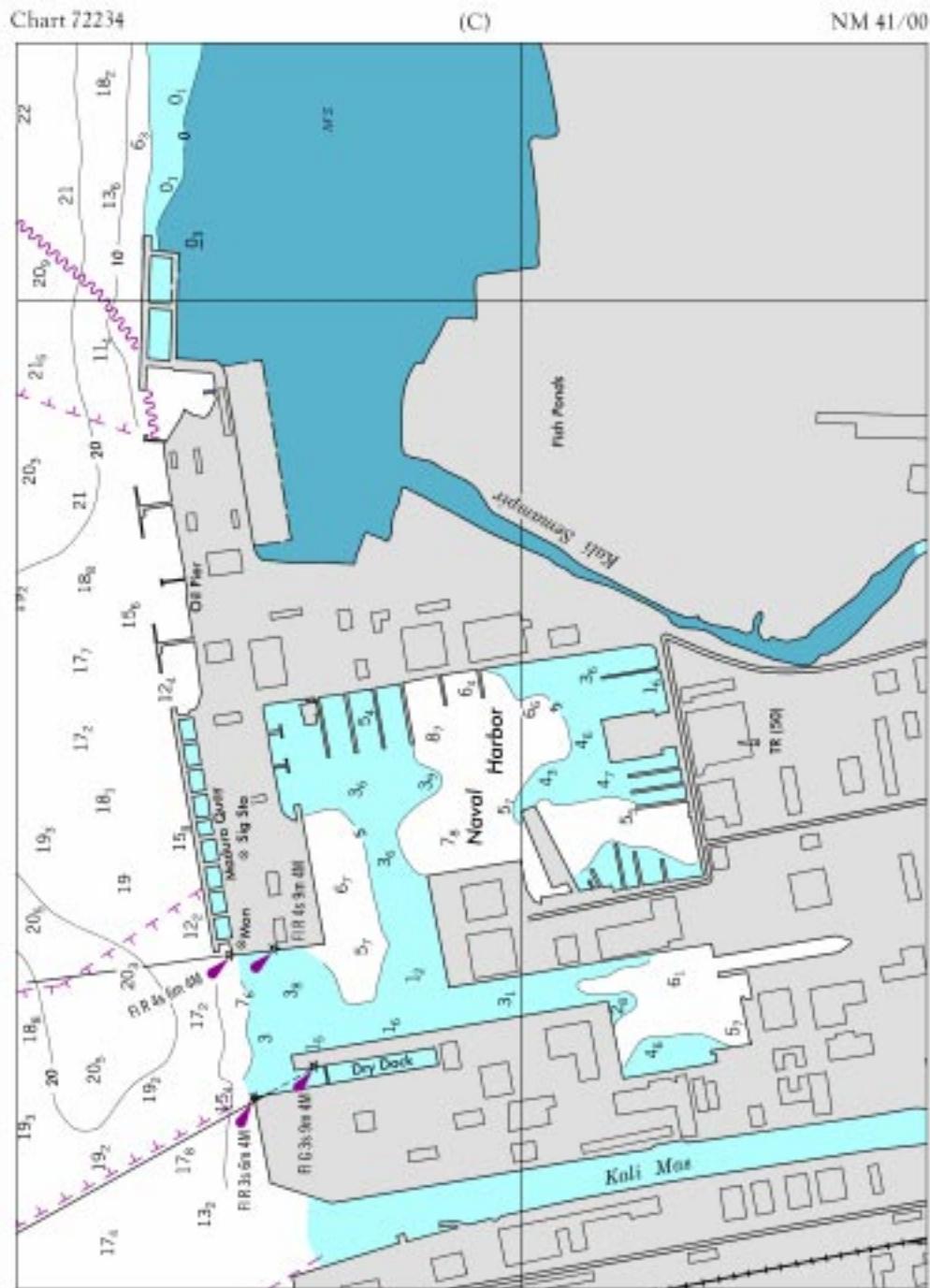
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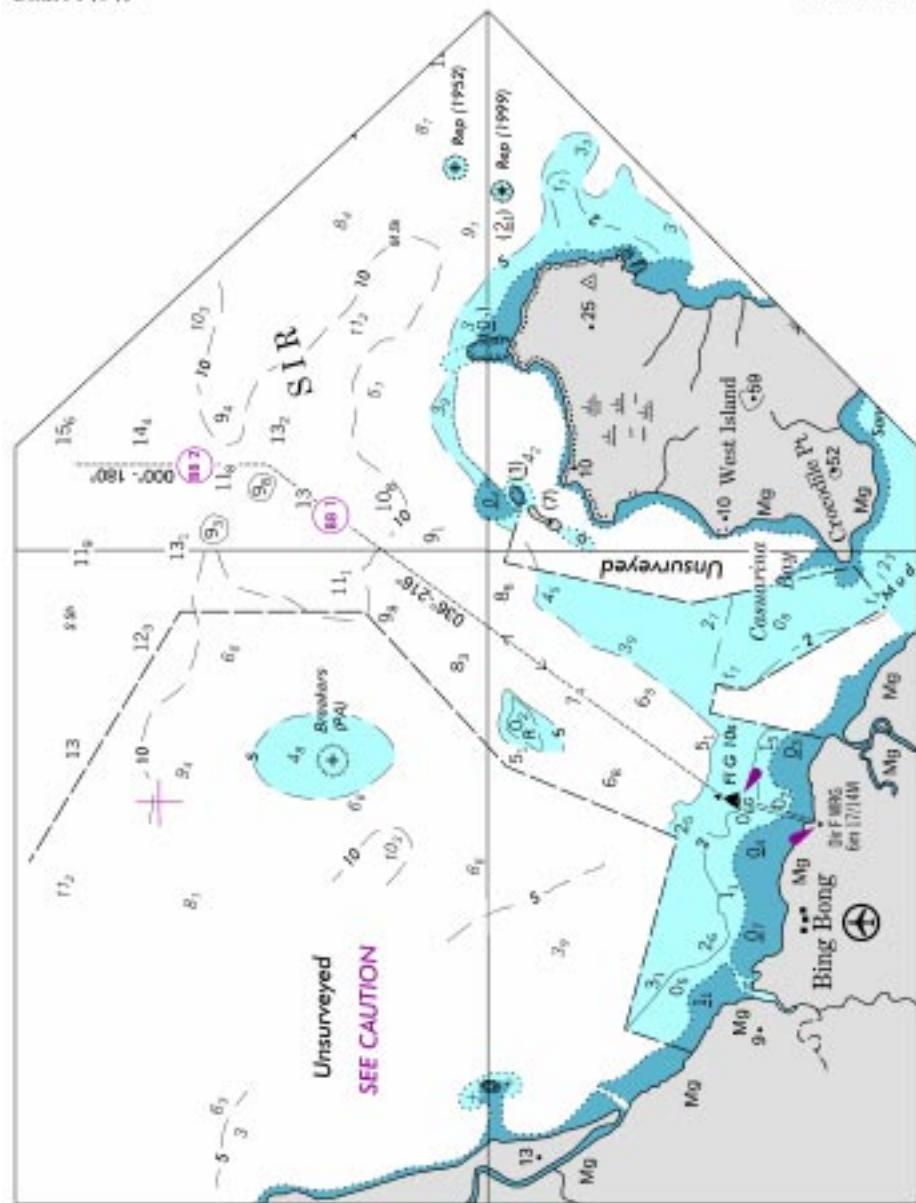


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Chart 74340

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Chart 18424

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I & J STREET, WHATCOM AND SQUALICUM CREEK WATERWAYS CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF APR 1996 AND SURVEYS TO AUG 1996							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)				PROJECT DIMENSIONS			
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET) IN AUT. MILES	LENGTH (FEET) IN AUT. MILES	DEPTH (FEET)
WHATCOM WATERWAY							
CUTTER REACH	29.1	30.3	31.1	2-96	363	0.62	26
MIDDLE REACH	3.3	22.1	16.7	2-96	363	0.36	26
INNER REACH	2.1	1.7	8.7	2-96	363	0.12	18
I&J STREET WATERWAY	16.5	16.3	12.9	11-96	180	0.53	18
SQUALICUM CREEK WATERWAY							
ENTRANCE CHANNEL	25.1	25.8	25.4	8-98	200	0.34	26
SOUTHWEST PORTION OF BASIN	21.0	24.0	24.2	8-98	300-295	0.28	26
NORTHEAST PORTION OF BASIN	A15.5	B24.8	B21.8	8-98	200-295	0.13	26

A. EXCEPT FOR SHALING TO 1 FOOT AT APPROXIMATELY 46°45'37"N, 122°30'36"W.
B. MIDDLE HALF AND RIGHT OUTSIDE QUARTER SHALING TO BARE LAST 150 FEET OF PROJECT.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18521

NM 41/00

COLUMBIA RIVER CHANNEL DEPTHS ENTRANCE TO MILLER SANDS RANGE						
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO AUG 2000						
NAME OF CHANNEL	* SEE FOOTNOTE				PROJECT DIMENSIONS	
	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER		
ENTRANCE RANGE	57	58	54	42	7-00	2640 3.3 40
SAND ISLAND RANGE (CLATSOP SPIT)	52	53	51	46	7-00-8-00	2640 3.2 40
LOWER DESDEMONA SHOAL	46	47	44	38	8-00-8-00	600 3.4 40
UPPER DESDEMONA SHOAL	36	42	46	45	8-00	600 3.7 40
TANSY POINT TURN AND RANGE	42	43	41	35	8-00	600 4.7 40
ASTORIA RANGE	41	41	41	37	8-00	600 2.7 40
TONGUE POINT CHANNEL	39	41	41	41	7-00	600 2.2 40
HARRINGTON POINT RANGE	39	39	39	37	7-00-8-00	600 2.6 40
MILLER SANDS RANGE	39	43	41	35	8-00	600 2.2 40

* CONTROLLING DEPTHS IN CHANNELS ENTERING FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER FROM THE ENTRANCE TO HARRINGTON POINT AND COLUMBIA RIVER DATUM ABOVE THAT POINT. PROJECT LENGTHS ARE IN STATUTE MILES.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

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NM 41/00

Chart 18524

NM 41/00

COLUMBIA RIVER CHANNEL DEPTHS GULL ISLAND TURN AND CHANNEL TO SAINT HELENS TURN TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JUN 2000								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT COLUMBIA RIVER DATUM (CRD)								
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (STAT. MILES)	DEPTH (CRD (FEET)
GULL I TURN AND CHANNEL	43	44	41	41	5-00	600	2.2	40
STELLA RANGE	36	39	46	39	5-00	600	2.8	40
FISHER I CHANNEL	40	43	43	38	5-00	600	0.9	40
WALKER I CHANNEL	38	44	40	38	5-00	600	1.6	40
DARLOW PT. CHANNEL	46	47	43	42	5-00	600	1.3	40
SLAUGHTERS CHANNEL	36	40	39	39	5-00	600	2.5	40
SLAUGHTERS TURN AND CHANNEL								
OPPOSITE THE TURNING BASIN	36	41	38	36	6-00	600	1.7	40
COTTONWOOD ISLAND LOWER RANGE	34	36	36	37	5-00	600	1.7	40
COTTONWOOD ISLAND TURN	42	40	38	38	5-00	600	2.7	40
COTTONWOOD ISLAND UPPER								
RANGE AND TURN	36	38	41	39	5-00	600	1.8	40
KALAMA LOWER RANGE	42	43	37	36	6-00	600	1.8	40
KALAMA UPPER RANGE	36	38	39	36	6-00	600	2.2	40
BYBEE LEDGE CHANNEL	40	40	42	38	6-00	600	2.1	40
MARTIN ISLAND CHANNEL	39	38	37	36	6-00	600	2.1	40
MARTIN ISLAND RANGE	39	38	39	39	6-00	600	1.4	40
COLUMBIA CITY CHANNEL	39	39	38	37	6-00	600	1.2	40
ST. HELENS RANGE	39	42	38	37	6-00	600	2.0	40
ST. HELENS TURN	42	43	41	36	6-00	600	1.7	40

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18581

NM 41/00

YACQUINA BAY AND RIVER CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JULY 2000							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)							
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (INCH. MILES)	DEPTH (MLLW (FEET)
CHANNEL ENTRANCE							
44°36'27"N, 123°56'24"W							
TO FIRST TURN	25	30	25	5-00	400-300	1.3	40-30
THENCE TO TURNING BASIN	21	29	18	5-00; 4-00	300-400	1.3	30
TURNING BASIN	15	24	24	4-00	300-1200	0.3	30
THENCE TO YACQUINA	13	12	12	6-00	200	1.8	10
THENCE TO END OF PROJECT	60A	07	06B	7-00; 7-00	150	9.7	10

A. SHOAL TO BARE AT 44°36'57.7"N, 123°56'34.2"W.
B. SHOAL TO BARE AT 44°38'42.0"N, 123°58'55.5"W.

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

SECTION I

NM 41/00

Chart 18587

NM 41/00

COOS BAY AND ISTHMUS SLOUGH CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JULY 2000							
CONTROLLING DEPTHS FROM SEWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)				PROJECT DIMENSIONS			
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	DEPTH (NAUT. MILES)	DEPTH MLLW (FEET)
ENTRANCE RANGE	39	40	28	9-00	—	1.8	47-37
ENTRANCE RANGE AND TURN	38	45	28	9-00	300-1050	0.8	37
INSIDE RANGE	33	39	34	9-00	300	0.8	37
COOS BAY RANGE	34	36	36	9-00/7-00	300	1.8	37
EMPIRE RANGE	34	36	36	7-00	300	1.2	37
LOWER JARVIS RANGE	34	36	33	7-00	300	0.8	37
JARVIS TURN	39	36	34	7-00	300	0.5	37
UPPER JARVIS RANGE	35	35	34	7-00	300	1.8	37
NORTH BEND LOWER RANGE	35	37	34	7-00	400	0.7	37
NORTH BEND RANGE	34	36	36	8-7-00	400	0.9	37
NORTH BEND UPPER RANGE	36	36	34	9-00	400	0.6	37
LOWER TURNING BASIN	38	37	34	9-00	400-800	0.3	37
FERNDALE LOWER RANGE	34	36	36	9-00	400	0.4	37
FERNDALE TURN	34	36	37	9-00	400	0.2	37
FERNDALE UPPER RANGE	32	37	37	9-00	400	0.7	37
MARSHFIELD RANGE	30	37	36	9-00	400	0.4	37
MARSHFIELD RANGE TO ISTHMUS SLOUGH	36	37	36	9-00	150-750	0.8	37
ISTHMUS SLOUGH	19	20	18	4-95	150	2.0	37

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 43375

NM 41/00

TRAFFIC REGULATIONS

The Uddevalla Reporting and Information System covers the area bound by Vajern, Sejebaden, Pilot Station VLCC Brofjorden, Hatten Light, Tvestjarten Light and Longitude 11°45'E on Havsten Fjord. The reporting system is mandatory for vessels greater than 300 GRT, vessels greater than 50 meters in length, and towing vessels where the length, including the tow, is greater than 50 meters. Vessels must report to the appropriate station at various times when within the system, and must maintain a continuous listening watch on VHF channel 11 or 12 as appropriate. See Sailing Directions for further details.

Chart 43384

NM 41/00

TRAFFIC REGULATIONS

The Uddevalla Reporting and Information System covers the area bound by Vajern, Sejebaden, Pilot Station VLCC Brofjorden, Hatten Light, Tvestjarten Light and Longitude 11°45'E on Havsten Fjord. The reporting system is mandatory for vessels greater than 300 GRT, vessels greater than 50 meters in length, and towing vessels where the length, including the tow, is greater than 50 meters. Vessels must report to the appropriate station at various times when within the system, and must maintain a continuous listening watch on VHF channel 11 or 12 as appropriate. See Sailing Directions for further details.