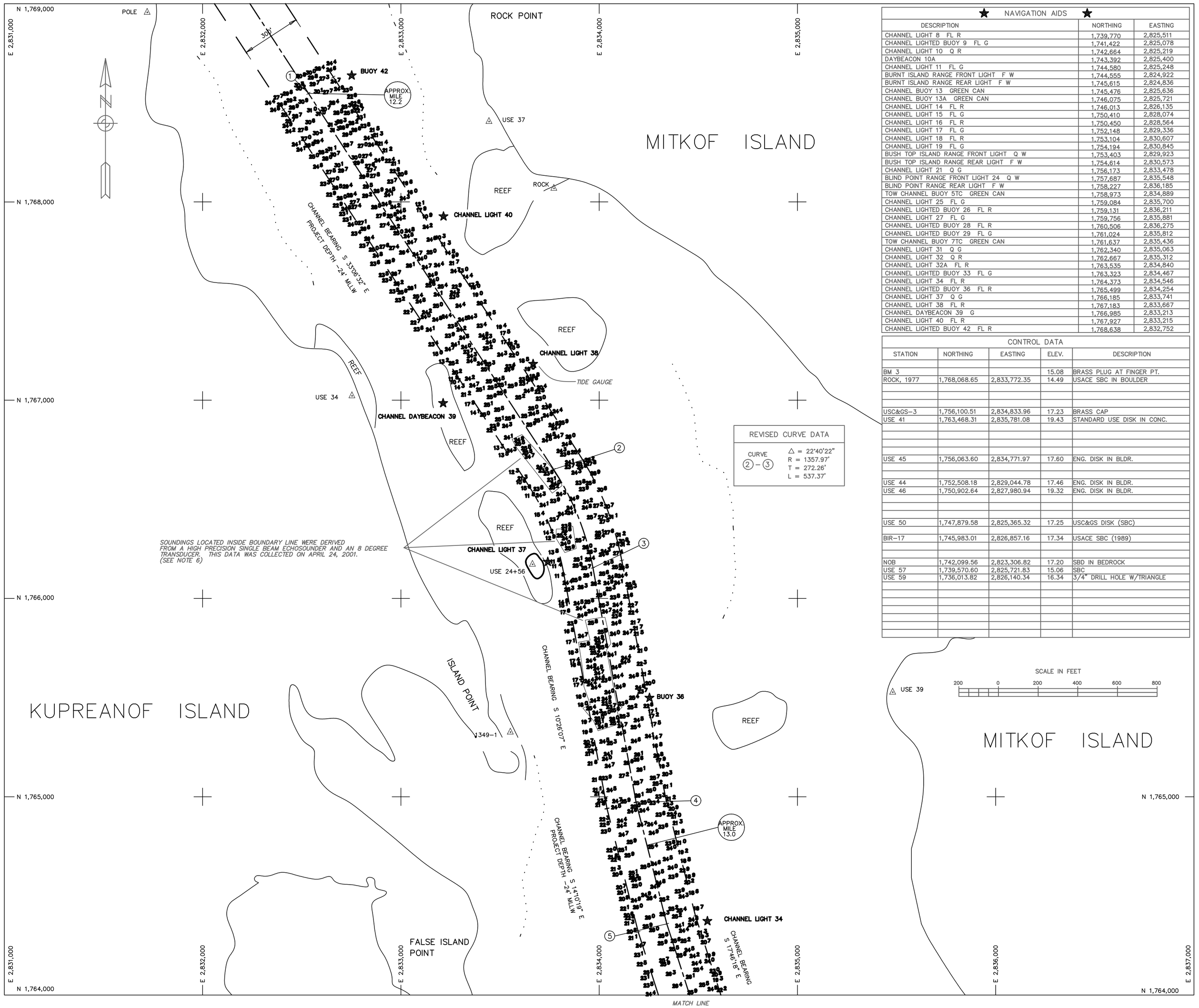
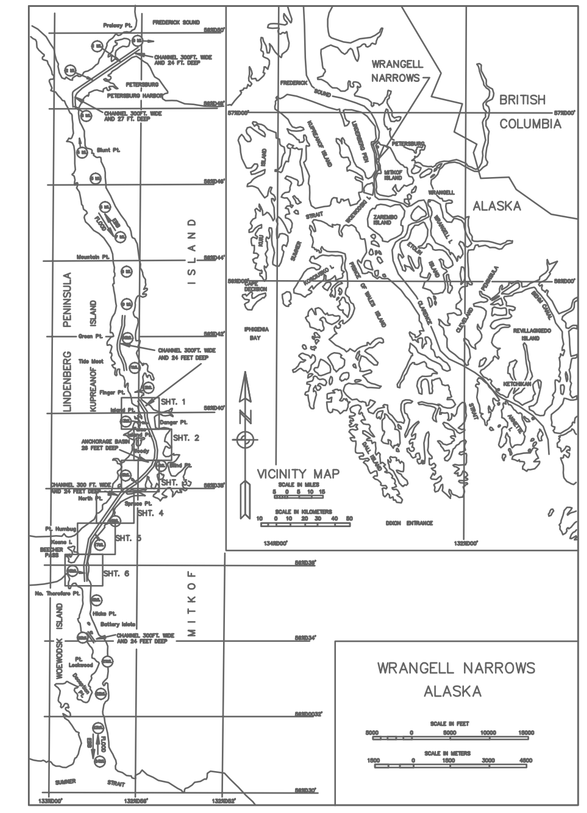


★ NAVIGATION AIDS ★		
DESCRIPTION	NORTHING	EASTING
CHANNEL LIGHT 8 FL R	1,739,770	2,825,511
CHANNEL LIGHTED BUOY 9 FL G	1,741,422	2,825,078
CHANNEL LIGHT 10 Q R	1,742,664	2,825,219
DAYBEACON 10A	1,743,392	2,825,400
CHANNEL LIGHT 11 FL G	1,744,580	2,825,248
BURNT ISLAND RANGE FRONT LIGHT F W	1,744,555	2,824,922
BURNT ISLAND RANGE REAR LIGHT F W	1,745,615	2,824,836
CHANNEL BUOY 13 GREEN CAN	1,745,476	2,825,636
CHANNEL BUOY 13A GREEN CAN	1,746,075	2,825,721
CHANNEL LIGHT 14 FL R	1,746,013	2,826,135
CHANNEL LIGHT 15 FL G	1,750,410	2,828,074
CHANNEL LIGHT 16 FL R	1,750,450	2,828,564
CHANNEL LIGHT 17 FL G	1,752,148	2,829,336
CHANNEL LIGHT 18 FL R	1,753,104	2,830,607
CHANNEL LIGHT 19 FL G	1,754,194	2,830,845
BUSH TOP ISLAND RANGE FRONT LIGHT Q W	1,753,403	2,829,923
BUSH TOP ISLAND RANGE REAR LIGHT F W	1,754,614	2,830,573
CHANNEL LIGHT 21 Q G	1,756,173	2,833,478
BLIND POINT RANGE FRONT LIGHT 24 Q W	1,757,687	2,835,548
BLIND POINT RANGE REAR LIGHT F W	1,758,227	2,836,185
TOW CHANNEL BUOY 5TC GREEN CAN	1,758,973	2,834,889
CHANNEL LIGHT 25 FL G	1,759,084	2,835,700
CHANNEL LIGHTED BUOY 26 FL R	1,759,131	2,836,211
CHANNEL LIGHT 27 FL G	1,759,756	2,835,881
CHANNEL LIGHTED BUOY 28 FL R	1,760,506	2,836,275
CHANNEL LIGHTED BUOY 29 FL G	1,761,024	2,835,812
TOW CHANNEL BUOY 7TC GREEN CAN	1,761,637	2,835,436
CHANNEL LIGHT 31 Q G	1,762,340	2,835,063
CHANNEL LIGHT 32 Q R	1,762,667	2,835,312
CHANNEL LIGHT 32A FL R	1,763,535	2,834,840
CHANNEL LIGHTED BUOY 33 FL G	1,763,323	2,834,467
CHANNEL LIGHT 34 FL R	1,764,373	2,834,546
CHANNEL LIGHTED BUOY 36 FL R	1,765,499	2,834,254
CHANNEL LIGHT 37 Q G	1,766,185	2,833,741
CHANNEL LIGHT 38 FL R	1,767,183	2,833,667
CHANNEL DAYBEACON 39 G	1,766,985	2,833,213
CHANNEL LIGHT 40 FL R	1,767,927	2,833,215
CHANNEL LIGHTED BUOY 42 FL R	1,768,638	2,832,752

CONTROL DATA				
STATION	NORTHING	EASTING	ELEV.	DESCRIPTION
BM 3			15.08	BRASS PLUG AT FINGER PT.
ROCK, 1977	1,768,068.65	2,833,772.35	14.49	USACE SBC IN BOULDER
USC&GS-3	1,756,100.51	2,834,833.96	17.23	BRASS CAP
USE 41	1,763,468.31	2,835,781.08	19.43	STANDARD USE DISK IN CONC.
USE 45	1,756,063.60	2,834,771.97	17.60	ENG. DISK IN BLDR.
USE 44	1,752,508.18	2,829,044.78	17.46	ENG. DISK IN BLDR.
USE 46	1,750,902.64	2,827,980.94	19.32	ENG. DISK IN BLDR.
USE 50	1,747,879.58	2,825,365.32	17.25	USC&GS DISK (SBC)
BIR-17	1,745,983.01	2,826,857.16	17.34	USACE SBC (1989)
NOB	1,742,099.56	2,823,306.82	17.20	SBD IN BEDROCK
USE 57	1,739,570.60	2,825,721.83	15.06	SBC
USE 59	1,736,013.82	2,826,140.34	16.34	3/4" DRILL HOLE W/TRIANGLE

REVISED CURVE DATA	
CURVE ② – ③	Δ = 22°40'22" R = 1357.97' T = 272.26' L = 537.37'



1. HORIZONTAL DATUM: NAD 27 ALASKA STATE PLANE (ZONE 1) IN FEET.
2. VERTICAL DATUM: VERTICAL CONTROL IS IN FEET REFERRING TO MEAN LOWER LOW WATER (MLLW = 0.0') HOLDING USC&GS SBD "NOB" AS 17.20'.
3. DEPTHS SHOWN ARE IN FEET BELOW MEAN LOWER LOW WATER (MLLW = 0.0'). THE DECIMAL POINT OF THE SOUNDING IS THE POSITION OF THE SOUNDING.
4. HORIZONTAL POSITIONS FOR DATA COLLECTION WERE DERIVED FROM A GPS SYSTEM OPERATING IN DIFFERENTIAL MODE. CORRECTIONS WERE RECIEVED FROM THE CONTINUOUSLY OPERATING REFERENCE STATION (CORS) NAMED "BIORKA" OPERATING AT 305 KHZ.
5. BATHYMETRIC DATA WAS COLLECTED USING A SEABEAM 1180 MULTIBEAM SONAR SYSTEM. VESSEL ATTITUDE WAS MEASURED WITH A SEATEX MRU 6 MOTION SENSOR, HEADING WAS MEASURED WITH A SCAN 2000 GYRO COMPASS. TIDE DATA WAS COLLECTED WITH A OHMEX INSTRUMENTS TIDALITE TIDE GAUGE. VESSEL NAVIGATION, DATA COLLECTION, AND DATA PROCESSING WAS PERFORMED USING COASTAL OCEANOGRAPHICS "HYPACK AND HYSWEEP" SOFTWARE.
6. BATHYMETRIC DATA WAS COLLECTED USING AN INNERSPACE MODEL 448 SINGLE BEAM ECHOSOUNDER AND A 8 DEGREE TRANSDUCER OPERATING AT 200 KHZ.
7. PHYSICAL FEATURE DRAWING WAS PROVIDED BY THE ALASKA DISTRICT CORPS OF ENGINEERS.
8. DATA COLLECTED: MARCH 21, APRIL 24, 2001.

CENTERLINE OF 300 FOOT WIDE CHANNEL					
CORNER	NORTHING	EASTING	CORNER	NORTHING	EASTING
1	1,768,548	2,832,534	10 (PT/PC)	1,759,604	2,836,082
REV 2 (PT)	1,766,651	2,833,771	11 (PT)	1,756,830	2,834,567
3 (PC)	1,766,155	2,833,969	12	1,754,121	2,831,177
4	1,764,973	2,834,186	13	1,750,551	2,828,357
5	1,764,359	2,834,341	14	1,746,065	2,825,945
6	1,763,792	2,834,523	15	1,742,760	2,825,047
7	1,763,212	2,834,766	16	1,741,380	2,825,190
8	1,762,626	2,835,081	17	1,739,373	2,825,281
9 (PT)	1,762,019	2,835,495			

REV.	DATE	DESCRIPTION	BY	APP'D.

CONTRACT NO. DACW85-00-C-0015
CONTRACTOR WESTERN MARINE CONSTRUCTION
SEATTLE STATE WASHINGTON

ALASKA DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

SURVEYED:
DRP
DRAWN:
TAH
CHECKED:
RGB
SUBMITTED:

WRANGELL NARROWS, ALASKA
BUOY 8 TO BUOY 42
(THIS SHEET APPROXIMATELY MILE 12.2 TO 13.1)
POST DREDGE SURVEY
MARCH 21, APRIL 24, 2001.

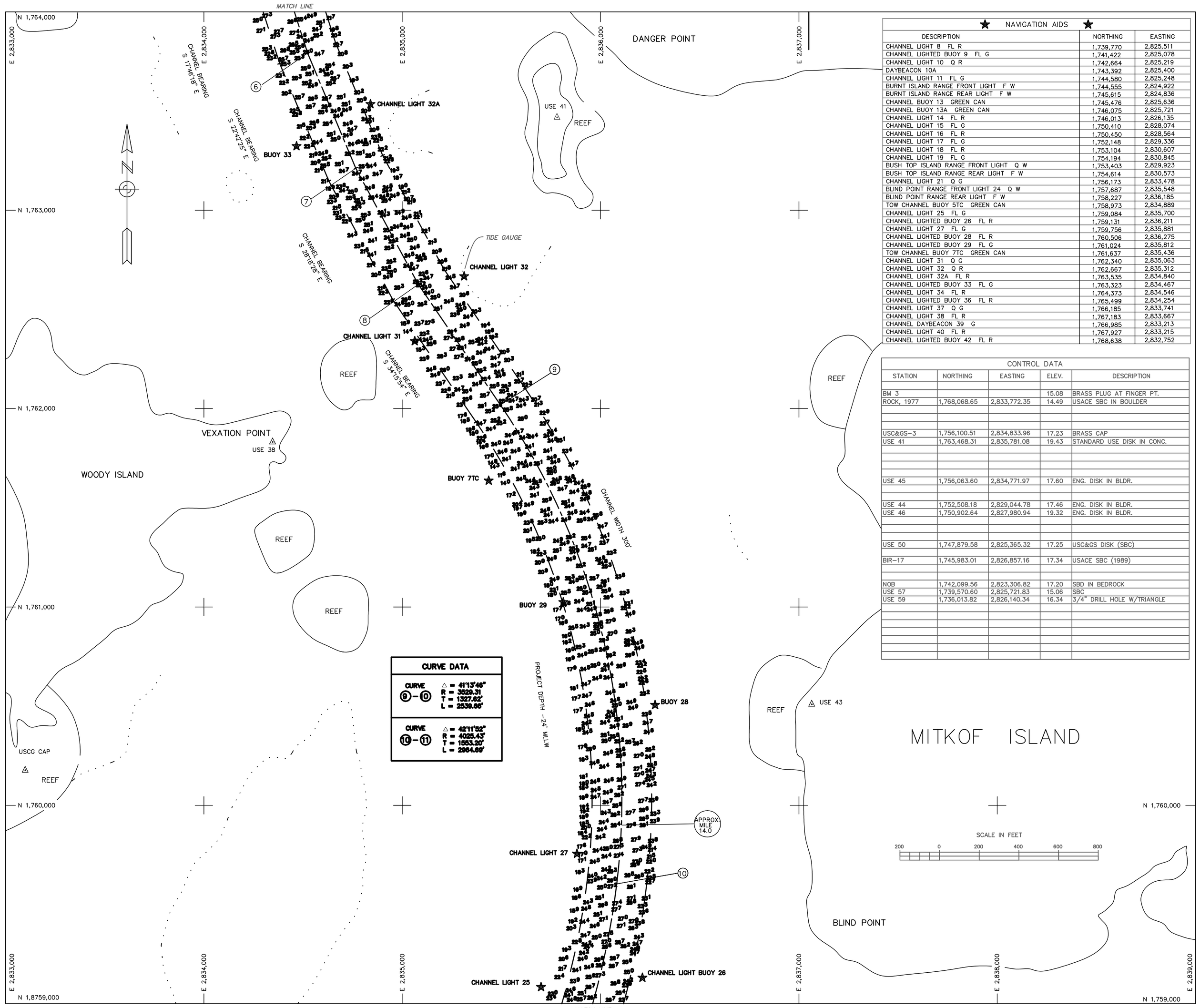
RECOMMENDED: APPROVED: DATE:
PROJECT MANAGER CHIEF OPERATIONS-READINESS BRANCH

SURVEY NO.

SCALE: 1" = 200'

SHEET 1 OF 6

DRAWING NO. POST SH-1.PRO



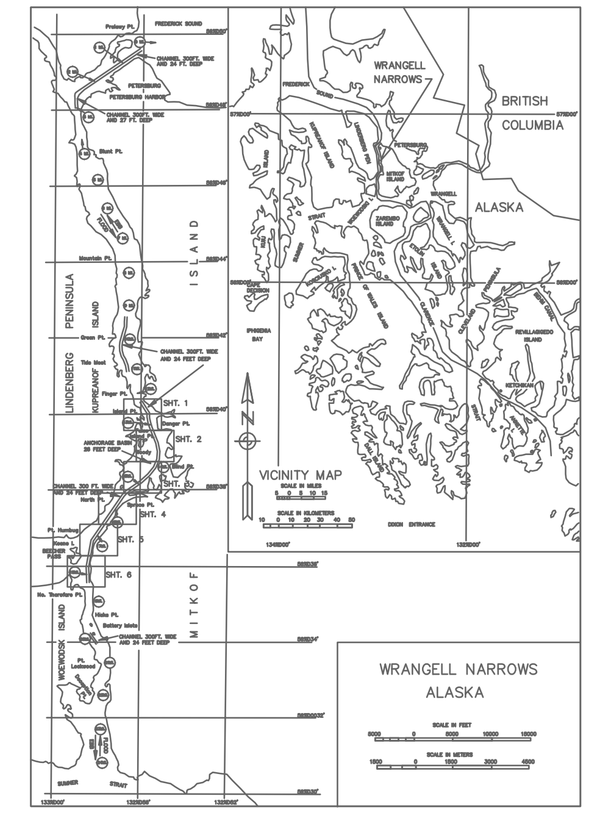
CURVE DATA	
CURVE 9 – 10	Δ = 41°13'46" R = 3529.31' T = 1327.62' L = 2539.66'
CURVE 10 – 11	Δ = 42°11'52" R = 4025.43' T = 1553.20' L = 2964.69'

★ NAVIGATION AIDS ★

DESCRIPTION	NORTHING	EASTING
CHANNEL LIGHT 8 FL R	1,739,770	2,825,511
CHANNEL LIGHTED BUOY 9 FL G	1,741,422	2,825,078
CHANNEL LIGHT 10 Q R	1,742,664	2,825,219
DAYBEACON 10A	1,743,392	2,825,400
CHANNEL LIGHT 11 FL G	1,744,580	2,825,248
BURNT ISLAND RANGE FRONT LIGHT F W	1,744,555	2,824,922
BURNT ISLAND RANGE REAR LIGHT F W	1,745,615	2,824,836
CHANNEL BUOY 13 GREEN CAN	1,745,476	2,825,636
CHANNEL BUOY 13A GREEN CAN	1,746,075	2,825,721
CHANNEL LIGHT 14 FL R	1,746,013	2,826,135
CHANNEL LIGHT 15 FL G	1,750,410	2,828,074
CHANNEL LIGHT 16 FL R	1,750,450	2,828,564
CHANNEL LIGHT 17 FL G	1,752,148	2,829,336
CHANNEL LIGHT 18 FL R	1,753,104	2,830,607
CHANNEL LIGHT 19 FL G	1,754,194	2,830,845
BUSH TOP ISLAND RANGE FRONT LIGHT Q W	1,753,403	2,829,923
BUSH TOP ISLAND RANGE REAR LIGHT F W	1,754,614	2,830,573
CHANNEL LIGHT 21 Q G	1,756,173	2,833,478
BLIND POINT RANGE FRONT LIGHT 24 Q W	1,757,687	2,835,548
BLIND POINT RANGE REAR LIGHT F W	1,758,227	2,836,185
TOW CHANNEL BUOY 5TC GREEN CAN	1,758,973	2,834,889
CHANNEL LIGHT 25 FL G	1,759,084	2,835,700
CHANNEL LIGHTED BUOY 26 FL R	1,759,131	2,836,211
CHANNEL LIGHT 27 FL G	1,759,756	2,835,881
CHANNEL LIGHTED BUOY 28 FL R	1,760,506	2,836,275
CHANNEL LIGHTED BUOY 29 FL G	1,761,024	2,835,812
TOW CHANNEL BUOY 7TC GREEN CAN	1,761,637	2,835,436
CHANNEL LIGHT 31 Q G	1,762,340	2,835,063
CHANNEL LIGHT 32 Q R	1,762,667	2,835,312
CHANNEL LIGHT 32A FL R	1,763,535	2,834,840
CHANNEL LIGHTED BUOY 33 FL G	1,763,323	2,834,467
CHANNEL LIGHT 34 FL R	1,764,373	2,834,546
CHANNEL LIGHTED BUOY 36 FL R	1,765,499	2,834,254
CHANNEL LIGHT 37 Q G	1,766,185	2,833,741
CHANNEL LIGHT 38 FL R	1,767,183	2,833,667
CHANNEL DAYBEACON 39 G	1,766,985	2,833,213
CHANNEL LIGHT 40 FL R	1,767,927	2,833,215
CHANNEL LIGHTED BUOY 42 FL R	1,768,638	2,832,752

CONTROL DATA

STATION	NORTHING	EASTING	ELEV.	DESCRIPTION
BM 3			15.08	BRASS PLUG AT FINGER PT.
ROCK, 1977	1,768,068.65	2,833,772.35	14.49	USACE SBC IN BOULDER
USC&GS-3	1,756,100.51	2,834,833.96	17.23	BRASS CAP
USE 41	1,763,468.31	2,835,781.08	19.43	STANDARD USE DISK IN CONC.
USE 45	1,756,063.60	2,834,771.97	17.60	ENG. DISK IN BLDR.
USE 44	1,752,508.18	2,829,044.78	17.46	ENG. DISK IN BLDR.
USE 46	1,750,902.64	2,827,980.94	19.32	ENG. DISK IN BLDR.
USE 50	1,747,879.58	2,825,365.32	17.25	USC&GS DISK (SBC)
BIR-17	1,745,983.01	2,826,857.16	17.34	USACE SBC (1989)
NOB	1,742,099.56	2,823,306.82	17.20	SBD IN BEDROCK
USE 57	1,739,570.60	2,825,721.83	15.06	SBC
USE 59	1,736,013.82	2,826,140.34	16.34	3/4" DRILL HOLE W/TRIANGLE



NOTES

1. HORIZONTAL DATUM: NAD 27 ALASKA STATE PLANE (ZONE 1) IN FEET.
2. VERTICAL DATUM: VERTICAL CONTROL IS IN FEET REFERRING TO MEAN LOWER LOW WATER (MLLW = 0.0') HOLDING USC&GS SBD "NOB" AS 17.20'.
3. DEPTHS SHOWN ARE IN FEET BELOW MEAN LOWER LOW WATER (MLLW = 0.0'). THE DECIMAL POINT OF THE SOUNDING IS THE POSITION OF THE SOUNDING.
4. HORIZONTAL POSITIONS FOR DATA COLLECTION WERE DERIVED FROM A GPS SYSTEM OPERATING IN DIFFERENTIAL MODE. CORRECTIONS WERE RECIEVED FROM THE CONTINUOUSLY OPERATING REFERENCE STATION (CORS) NAMED "BIORKA" OPERATING AT 305 KHZ.
5. BATHYMETRIC DATA WAS COLLECTED USING A SEABEAM 1180 MULTIBEAM SONAR SYSTEM. VESSEL ATTITUDE WAS MEASURED WITH A SEATEX MRU 6 MOTION SENSOR, HEADING WAS MEASURED WITH A SCAN 2000 GYRO COMPASS. TIDE DATA WAS COLLECTED WITH A OHMEX INSTRUMENTS TIDALITE TIDE GAUGE. VESSEL NAVIGATION, DATA COLLECTION, AND DATA PROCESSING WAS PERFORMED USING COASTAL OCEANOGRAPHICS "HYPACK AND HYSWEEP" SOFTWARE.
6. PHYSICAL FEATURE DRAWING WAS PROVIDED BY THE ALASKA DISTRICT CORPS OF ENGINEERS.
7. DATA COLLECTED: FEBRUARY 22, MARCH 20, 2001.

REV.	DATE	DESCRIPTION	BY	APP'D.

CONTRACTOR: CONTRACT NO. DACW85-00-C-0015
WESTERN MARINE CONSTRUCTION
CITY SEATTLE STATE WASHINGTON

ALASKA DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

SURVEYED: DRP
DRAWN: TAH
CHECKED: RGB
SUBMITTED:

WRANGELL NARROWS, ALASKA
BUOY 8 TO BUOY 42
(THIS SHEET APPROXIMATELY MILE 13.1 TO 14.0)
POST DREDGE SURVEY
FEBRUARY 22, MARCH 20, 2001

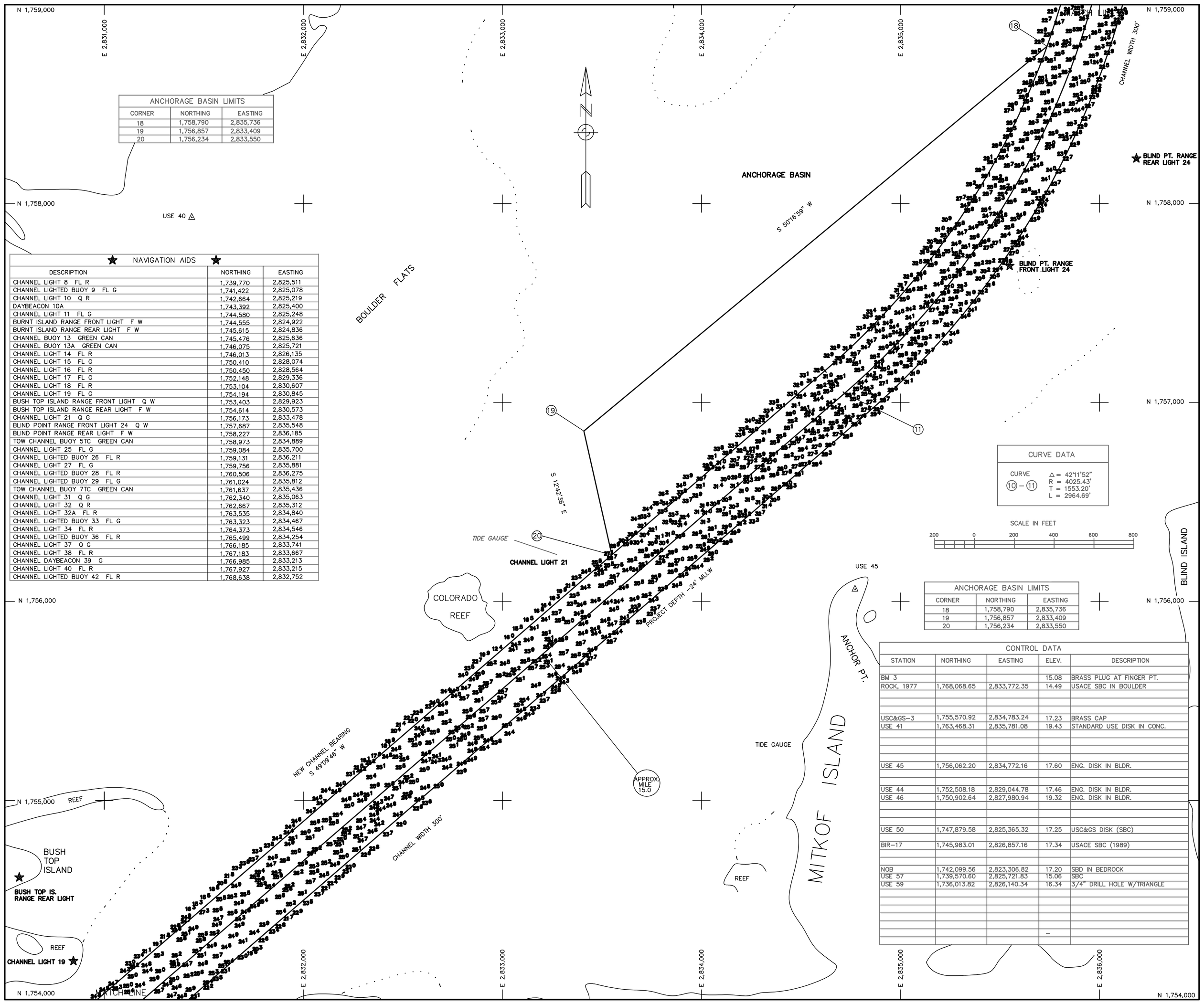
RECOMMENDED: APPROVED: DATE:
PROJECT MANAGER CHIEF OPERATIONS-READINESS BRANCH

SURVEY NO.

SCALE: 1" = 200'

SHEET 2 OF 6

DRAWING NO. POST0222 SH-2.PRO



ANCHORAGE BASIN LIMITS		
CORNER	NORTHING	EASTING
18	1,758,790	2,835,736
19	1,756,857	2,833,409
20	1,756,234	2,833,550

★ NAVIGATION AIDS ★		
DESCRIPTION	NORTHING	EASTING
CHANNEL LIGHT 8 FL R	1,739,770	2,825,511
CHANNEL LIGHTED BUOY 9 FL G	1,741,422	2,825,078
CHANNEL LIGHT 10 Q R	1,742,664	2,825,219
DAYBEACON 10A	1,743,392	2,825,400
CHANNEL LIGHT 11 FL G	1,744,580	2,825,248
BURNT ISLAND RANGE FRONT LIGHT F W	1,744,555	2,824,922
BURNT ISLAND RANGE REAR LIGHT F W	1,745,615	2,824,836
CHANNEL BUOY 13 GREEN CAN	1,745,476	2,825,636
CHANNEL BUOY 13A GREEN CAN	1,746,075	2,825,721
CHANNEL LIGHT 14 FL R	1,746,013	2,826,135
CHANNEL LIGHT 15 FL G	1,750,410	2,828,074
CHANNEL LIGHT 16 FL R	1,750,450	2,828,564
CHANNEL LIGHT 17 FL G	1,752,148	2,829,336
CHANNEL LIGHT 18 FL R	1,753,104	2,830,607
CHANNEL LIGHT 19 FL G	1,754,194	2,830,845
BUSH TOP ISLAND RANGE FRONT LIGHT Q W	1,753,403	2,829,923
BUSH TOP ISLAND RANGE REAR LIGHT F W	1,754,614	2,830,573
CHANNEL LIGHT 21 Q G	1,756,173	2,833,478
BLIND POINT RANGE FRONT LIGHT 24 Q W	1,757,687	2,835,548
BLIND POINT RANGE REAR LIGHT F W	1,758,227	2,836,185
TOW CHANNEL BUOY 5TC GREEN CAN	1,758,973	2,834,889
CHANNEL LIGHT 25 FL G	1,759,084	2,835,700
CHANNEL LIGHTED BUOY 26 FL R	1,759,131	2,836,211
CHANNEL LIGHT 27 FL G	1,759,756	2,835,881
CHANNEL LIGHTED BUOY 28 FL R	1,760,506	2,836,275
CHANNEL LIGHTED BUOY 29 FL G	1,761,024	2,835,812
TOW CHANNEL BUOY 7TC GREEN CAN	1,761,637	2,835,436
CHANNEL LIGHT 31 Q G	1,762,340	2,835,063
CHANNEL LIGHT 32 Q R	1,762,667	2,835,312
CHANNEL LIGHT 32A FL R	1,763,535	2,834,840
CHANNEL LIGHTED BUOY 33 FL G	1,763,323	2,834,467
CHANNEL LIGHT 34 FL R	1,764,373	2,834,546
CHANNEL LIGHTED BUOY 36 FL R	1,765,499	2,834,254
CHANNEL LIGHT 37 Q G	1,766,185	2,833,741
CHANNEL LIGHT 38 FL R	1,767,183	2,833,667
CHANNEL DAYBEACON 39 G	1,766,985	2,833,213
CHANNEL LIGHT 40 FL R	1,767,927	2,833,215
CHANNEL LIGHTED BUOY 42 FL R	1,768,638	2,832,752

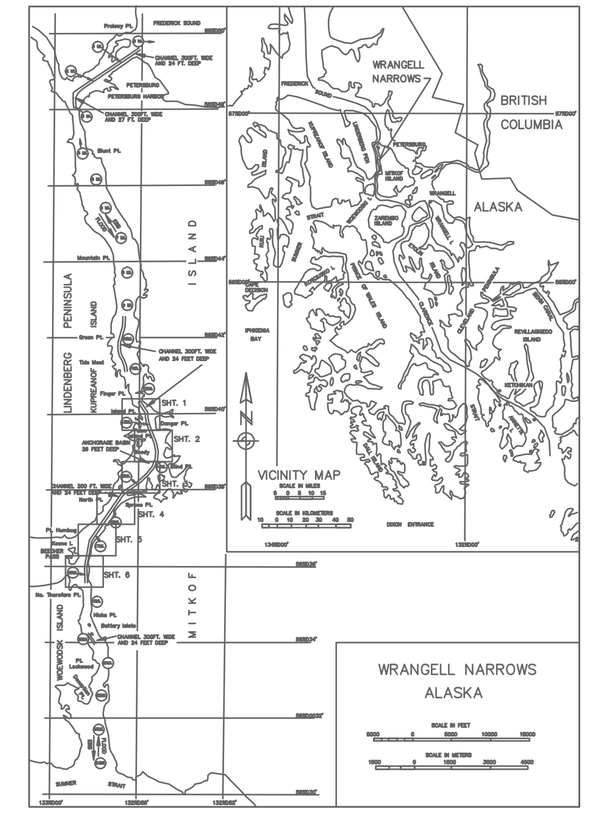
CURVE DATA	
CURVE	Δ = 42°11'52"
⑩ – ⑪	R = 4025.43'
	T = 1553.20'
	L = 2964.69'

SCALE IN FEET

200 0 200 400 600 800

ANCHORAGE BASIN LIMITS		
CORNER	NORTHING	EASTING
18	1,758,790	2,835,736
19	1,756,857	2,833,409
20	1,756,234	2,833,550

CONTROL DATA				
STATION	NORTHING	EASTING	ELEV.	DESCRIPTION
BM 3			15.08	BRASS PLUG AT FINGER PT.
ROCK, 1977	1,768,068.65	2,833,772.35	14.49	USACE SBC IN BOULDER
USC&GS-3	1,755,570.92	2,834,783.24	17.23	BRASS CAP
USE 41	1,763,468.31	2,835,781.08	19.43	STANDARD USE DISK IN CONC.
USE 45	1,756,062.20	2,834,772.16	17.60	ENG. DISK IN BLDR.
USE 44	1,752,508.18	2,829,044.78	17.46	ENG. DISK IN BLDR.
USE 46	1,750,902.64	2,827,980.94	19.32	ENG. DISK IN BLDR.
USE 50	1,747,879.58	2,825,365.32	17.25	USC&GS DISK (SBC)
BIR-17	1,745,983.01	2,826,857.16	17.34	USACE SBC (1989)
NOB	1,742,099.56	2,823,306.82	17.20	SBD IN BEDROCK
USE 57	1,739,570.60	2,825,721.83	15.06	SBC
USE 59	1,736,013.82	2,826,140.34	16.34	3/4" DRILL HOLE W/TRIANGLE
			–	



NOTES

1. HORIZONTAL DATUM: NAD 27 ALASKA STATE PLANE (ZONE 1) IN FEET.
2. VERTICAL DATUM: VERTICAL CONTROL IS IN FEET REFERRING TO MEAN LOWER LOW WATER (MLLW = 0.0') HOLDING USC&GS SBD "NOB" AS 17.20'.
3. DEPTHS ARE SHOWN IN FEET BELOW MEAN LOWER LOW WATER (MLLW = 0.0'). THE DECIMAL POINT OF THE SOUNDING IS THE POSITION OF THE SOUNDING.
4. HORIZONTAL POSITIONS FOR DATA COLLECTION WERE DERIVED FROM A GPS SYSTEM OPERATING IN DIFFERENTIAL MODE. CORRECTIONS WERE RECIEVED FROM THE CONTINUOUSLY OPERATING REFERENCE STATION (CORS) NAMED "BIORKA" OPERATING AT 325 KHZ.
5. BATHYMETRIC DATA WAS COLLECTED USING A SEABEAM 1180 MULTIBEAM SONAR SYSTEM. VESSEL ATTITUDE WAS MEASURED WITH A SEATEX MRU 6 MOTION SENSOR. HEADING WAS MEASURED WITH A SCAN 2000 GYRO COMPASS. TIDE DATA WAS COLLECTED WITH A OHMEX INSTRUMENTS TIDALITE TIDE GAUGE. VESSEL NAVIGATION, DATA COLLECTION, AND DATA PROCESSING WAS PERFORMED USING COASTAL OCEANOGRAPHICS "HYPACK AND HYSWEEP" SOFTWARE.
6. PHYSICAL FEATURE DRAWING WAS PROVIDED BY THE ALASKA DISTRICT CORPS OF ENGINEERS.
7. DATA COLLECTED: FEBRUARY 3–5, 2000.

REV.	DATE	DESCRIPTION	BY	APP'D.

CONTRACT NO. DACW85-00-C-0015
CONTRACTOR WESTERN MARINE CONSTRUCTION
CITY SEATTLE STATE WASHINGTON

ALASKA DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

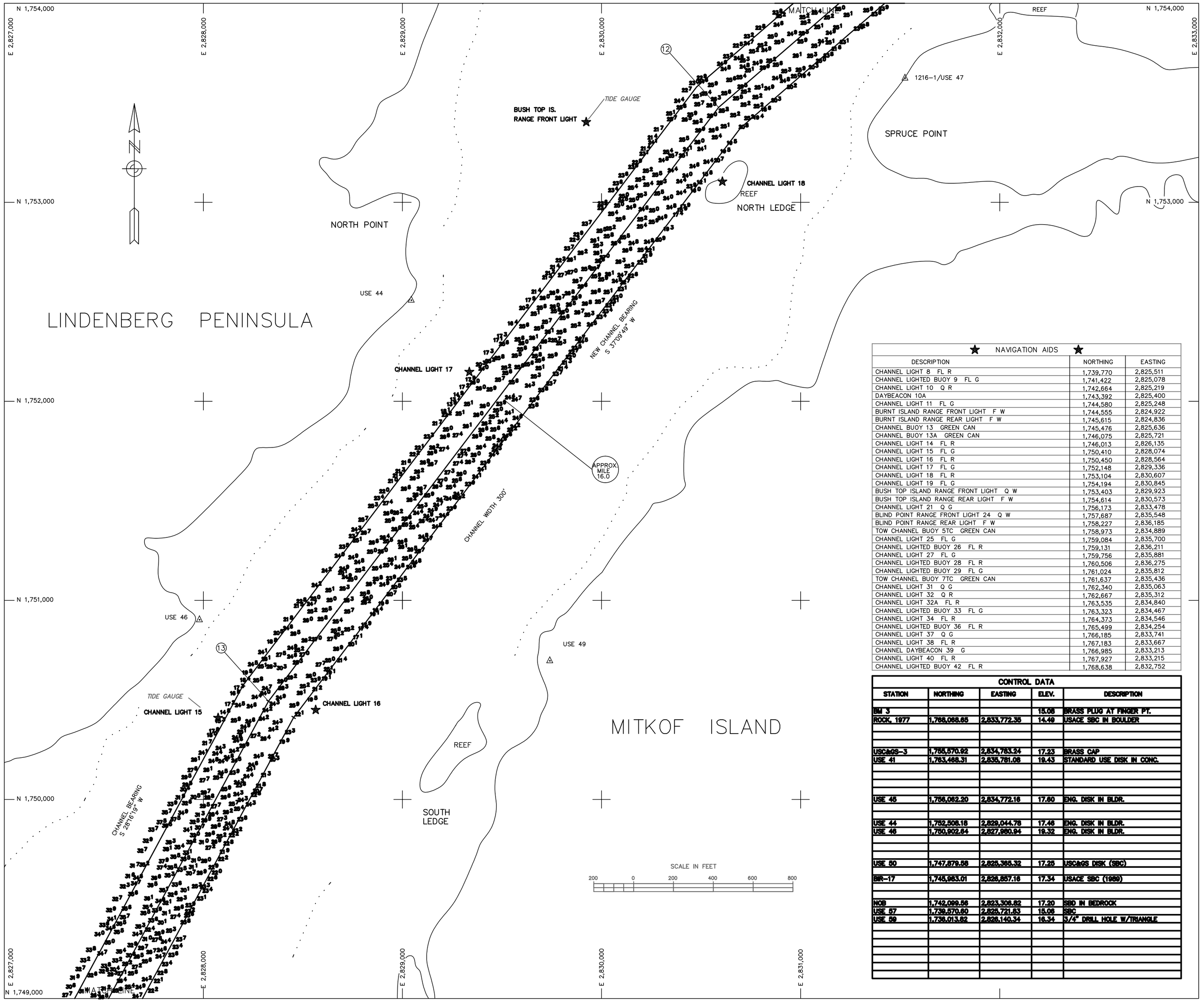
SURVEYED: DRP
DRAWN: TAH
CHECKED: RGB
SUBMITTED:

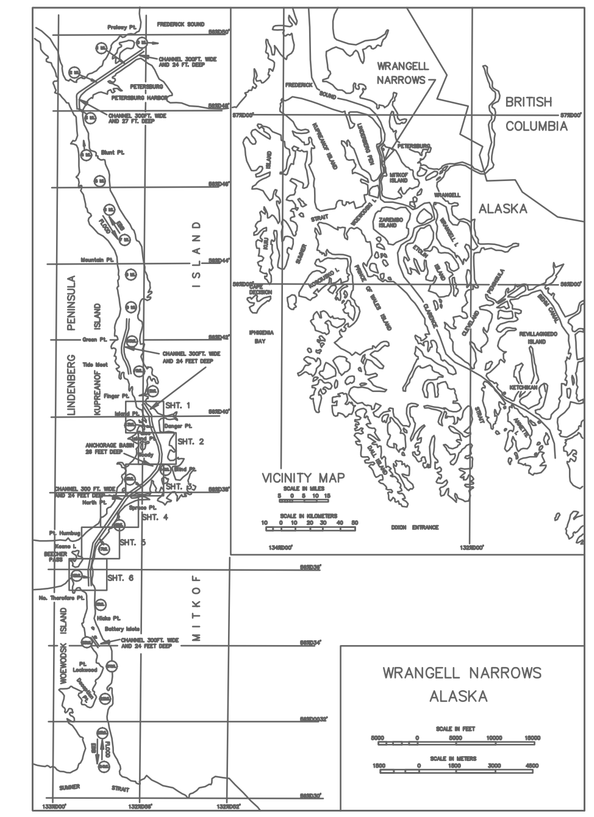
WRANGELL NARROWS, ALASKA
BUOY 8 TO BUOY 42
(THIS SHEET APPROXIMATELY MILE 14.0 TO 15.4)
POST DREDGE SURVEY
FEBRUARY 3–5, 2000.

RECOMMENDED: PROJECT MANAGER
APPROVED: CHIEF OPERATIONS-READINESS BRANCH
DATE:

SURVEY NO.
SCALE: 1" = 200'
SHEET 3 OF 6

DRAWING NO. POST0204 SH-3.PRO





★ NAVIGATION AIDS ★

DESCRIPTION	NORTHING	EASTING
CHANNEL LIGHT 8 FL R	1,739,770	2,825,511
CHANNEL LIGHTED BUOY 9 FL G	1,741,422	2,825,078
CHANNEL LIGHT 10 Q R	1,742,664	2,825,219
DAYBEACON 10A	1,743,392	2,825,400
CHANNEL LIGHT 11 FL G	1,744,580	2,825,248
BURNT ISLAND RANGE FRONT LIGHT F W	1,744,555	2,824,922
BURNT ISLAND RANGE REAR LIGHT F W	1,745,615	2,824,836
CHANNEL BUOY 13 GREEN CAN	1,745,476	2,825,636
CHANNEL BUOY 13A GREEN CAN	1,746,075	2,825,721
CHANNEL LIGHT 14 FL R	1,746,013	2,826,135
CHANNEL LIGHT 15 FL G	1,750,410	2,828,074
CHANNEL LIGHT 16 FL R	1,750,450	2,828,564
CHANNEL LIGHT 17 FL G	1,752,148	2,829,336
CHANNEL LIGHT 18 FL R	1,753,104	2,830,607
CHANNEL LIGHT 19 FL G	1,754,194	2,830,845
BUSH TOP ISLAND RANGE FRONT LIGHT Q W	1,753,403	2,829,923
BUSH TOP ISLAND RANGE REAR LIGHT F W	1,754,614	2,830,573
CHANNEL LIGHT 21 Q G	1,756,173	2,833,478
BLIND POINT RANGE FRONT LIGHT 24 Q W	1,757,687	2,835,548
BLIND POINT RANGE REAR LIGHT F W	1,758,227	2,836,185
TOW CHANNEL BUOY 5TC GREEN CAN	1,758,973	2,834,889
CHANNEL LIGHT 25 FL G	1,759,084	2,835,700
CHANNEL LIGHTED BUOY 26 FL R	1,759,131	2,836,211
CHANNEL LIGHT 27 FL G	1,759,756	2,835,881
CHANNEL LIGHTED BUOY 28 FL R	1,760,506	2,836,275
CHANNEL LIGHTED BUOY 29 FL G	1,761,024	2,835,812
TOW CHANNEL BUOY 7TC GREEN CAN	1,761,637	2,835,436
CHANNEL LIGHT 31 Q G	1,762,340	2,835,063
CHANNEL LIGHT 32 Q R	1,762,667	2,835,312
CHANNEL LIGHT 32A FL R	1,763,535	2,834,840
CHANNEL LIGHTED BUOY 33 FL G	1,763,323	2,834,467
CHANNEL LIGHT 34 FL R	1,764,373	2,834,546
CHANNEL LIGHTED BUOY 36 FL R	1,765,499	2,834,254
CHANNEL LIGHT 37 Q G	1,766,185	2,833,741
CHANNEL LIGHT 38 FL R	1,767,183	2,833,667
CHANNEL DAYBEACON 39 G	1,766,985	2,833,213
CHANNEL LIGHT 40 FL R	1,767,927	2,833,215
CHANNEL LIGHTED BUOY 42 FL R	1,768,638	2,832,752

CONTROL DATA

STATION	NORTHING	EASTING	ELEV.	DESCRIPTION
BM 3			15.08	BRASS PLUG AT FINGER PT.
ROCK, 1977	1,766,066.65	2,833,772.35	14.49	USACE SBC IN BOULDER
USC&GS-3	1,755,570.92	2,834,783.24	17.23	BRASS CAP
USE 41	1,763,468.31	2,835,781.06	19.43	STANDARD USE DISK IN CONC.
USE 45	1,756,062.20	2,834,772.16	17.60	ENG. DISK IN BLDR.
USE 44	1,752,506.18	2,829,044.78	17.46	ENG. DISK IN BLDR.
USE 46	1,750,902.64	2,827,990.94	19.32	ENG. DISK IN BLDR.
USE 50	1,747,879.58	2,825,365.32	17.25	USC&GS DISK (SBC)
BR-17	1,745,983.01	2,826,857.16	17.34	USACE SBC (1989)
NOB	1,742,099.56	2,823,306.82	17.20	SBD IN BEDROCK
USE 57	1,739,570.60	2,825,721.83	15.08	SBC
USE 59	1,738,013.82	2,826,140.34	16.34	3/4" DRILL HOLE W/TRIANGLE

NOTES

1. HORIZONTAL DATUM: NAD 27 ALASKA STATE PLANE (ZONE 1) IN FEET.
2. VERTICAL DATUM: VERTICAL CONTROL IS IN FEET REFERRING TO MEAN LOWER LOW WATER (MLLW = 0.0') HOLDING USC&GS SBD "NOB" AS 17.20'.
3. DEPTHS ARE SHOWN IN FEET BELOW MEAN LOWER LOW WATER (MLLW = 0.0'). THE DECIMAL POINT OF THE SOUNDING IS THE POSITION OF THE SOUNDING.
4. HORIZONTAL POSITIONS FOR DATA COLLECTION WERE DERIVED FROM A GPS SYSTEM OPERATING IN DIFFERENTIAL MODE. CORRECTIONS WERE RECIEVED FROM THE CONTINUOUSLY OPERATING REFERENCE STATION (CORS) NAMED "BIORKA" OPERATING AT 305 KHZ.
5. BATHYMETRIC DATA WAS COLLECTED USING A SEABEAM 1180 MULTIBEAM SONAR SYSTEM. VESSEL ATTITUDE WAS MEASURED WITH A SEATEX MRU 6 MOTION SENSOR, HEADING WAS MEASURED WITH A SCAN 2000 GYRO COMPASS. TIDE DATA WAS COLLECTED WITH A OHMEX INSTRUMENTS TIDALITE TIDE GAUGE. VESSEL NAVIGATION, DATA COLLECTION, AND DATA PROCESSING WAS PERFORMED USING COASTAL OCEANOGRAPHICS "HYPACK AND HYSWEEP" SOFTWARE.
6. PHYSICAL FEATURE DRAWING WAS PROVIDED BY THE ALASKA DISTRICT CORPS OF ENGINEERS.
7. DATA COLLECTED: DECEMBER 28, FEBRUARY 3, 2000.

REV.	DATE	DESCRIPTION	BY	APP'D.

CONTRACT NO. DACW85-00-C-0015
CONTRACTOR WESTERN MARINE CONSTRUCTION
CITY SEATTLE STATE WASHINGTON

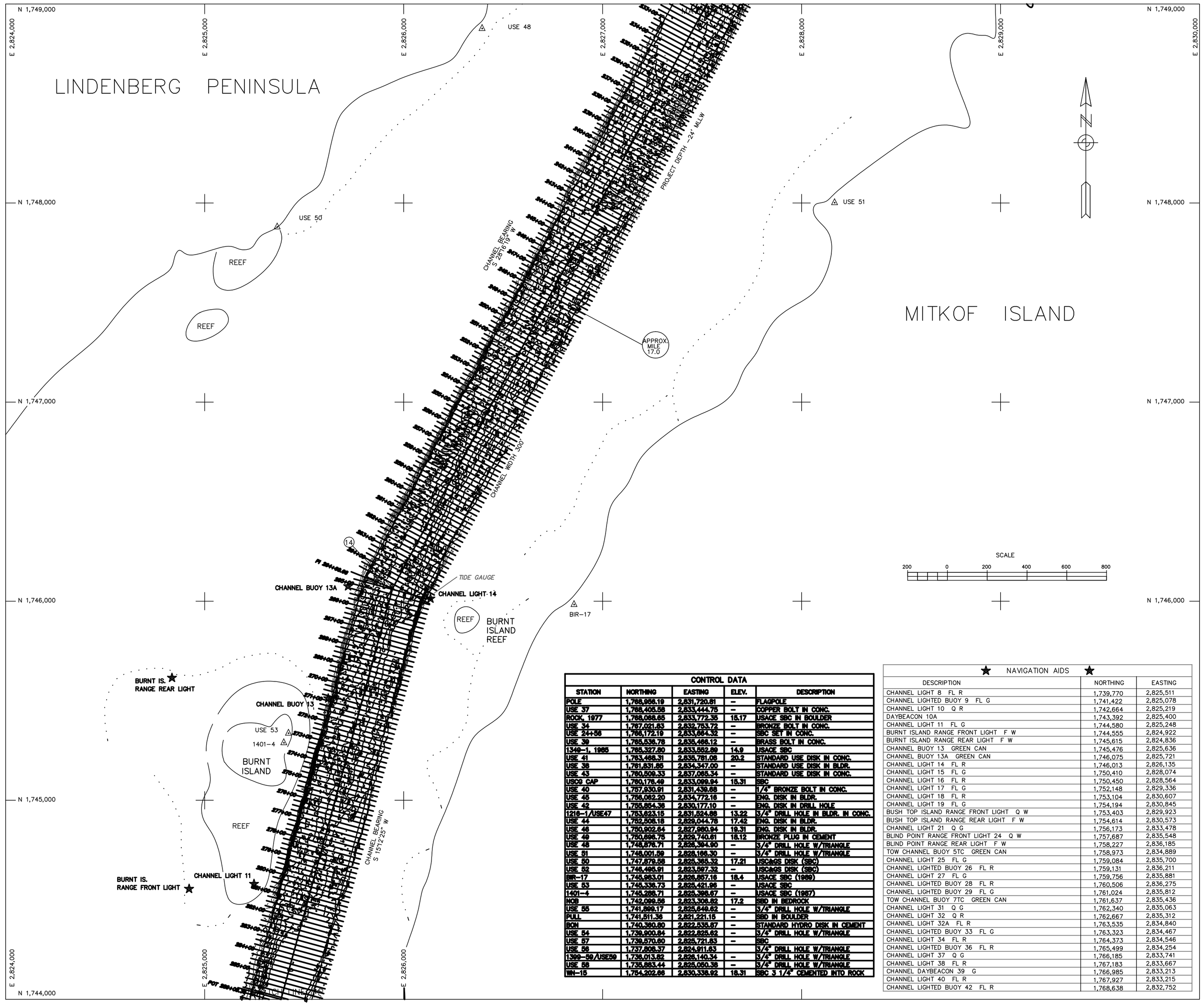
ALASKA DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

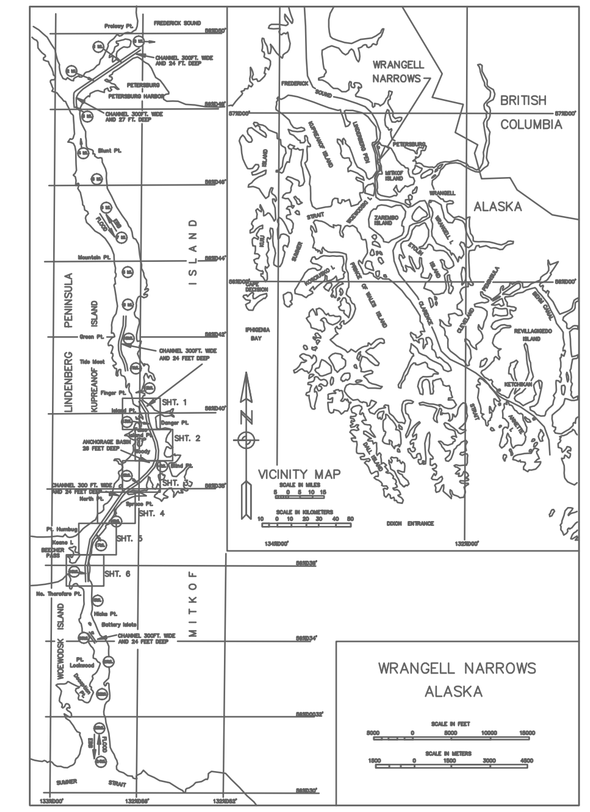
SURVEYED: DRP
DRAWN: TAH
CHECKED: RGB
SUBMITTED:

WRANGELL NARROWS, ALASKA
BUOY 8 TO BUOY 42
(THIS SHEET APPROXIMATELY MILE 15.4 TO 16.6)
POST DREDGE SURVEY
DECEMBER 28, FEBRUARY 3, 2000.

RECOMMENDED: APPROVED: DATE:
PROJECT MANAGER CHIEF OPERATIONS-READINESS BRANCH

SURVEY NO.
SCALE: 1" = 200'
SHEET 4 OF 6





NOTES

1. HORIZONTAL DATUM: NAD 27 ALASKA STATE PLANE (ZONE 1) IN FEET.
2. VERTICAL DATUM: MEAN LOWER LOW WATER (MLLW) IN FEET BASED ON PROJECT CONTROL STATIONS. CONTROL STATIONS USE44, USE46, USE50, AND NOB WERE USED.
3. CONTOURS SHOWN ARE IN FEET AT AN INTERVAL OF 1 FOOT AND ARE IN RELATION TO (MLLW) DATUM. CONTOURS BELOW ELEVATION −26' ARE NOT SHOWN.
4. HORIZONTAL POSITIONS FOR DATA COLLECTION WERE DERIVED FROM A GPS SYSTEM OPERATING IN DIFFERENTIAL MODE. CORRECTIONS WERE RECIEVED FROM THE CONTINUOUSLY OPERATING REFERENCE STATION (CORS) NAMED "BIORKA" OPERATING AT 305 KHZ.
5. BATHYMETRIC DATA WAS COLLECTED USING A SEABEAM 1180 MULTIBEAM SONAR SYSTEM. VESSEL ATTITUDE WAS MEASURED WITH A SEATEX MRU 6 MOTION SENSOR, HEADING WAS MEASURED WITH A SCAN 2000 GYRO COMPASS. TIDE DATA WAS COLLECTED WITH A OHMEX INSTRUMENTS TIDALITE TIDE GAUGE. VESSEL NAVIGATION, DATA COLLECTION, AND DATA PROCESSING WAS PERFORMED USING COASTAL OCEANOGRAPHICS "HYPACK AND HYSWEEP" SOFTWARE.
6. PHYSICAL FEATURE DRAWING WAS PROVIDED BY THE ALASKA DISTRICT CORPS OF ENGINEERS.
7. DATA COLLECTED: DECEMBER 28, 2000.

CONTROL DATA

STATION	NORTHING	EASTING	ELEV.	DESCRIPTION
POLE	1,768,956.19	2,831,720.81	–	FLAGPOLE
USE 37	1,768,405.58	2,833,444.75	–	COPPER BOLT IN CONC.
ROCK, 1977	1,768,088.85	2,833,772.35	15.17	USACE SBC IN BOULDER
USE 34	1,767,021.83	2,832,753.72	–	BRONZE BOLT IN CONC.
USE 24+56	1,766,172.19	2,833,664.32	–	SBC SET IN CONC.
USE 39	1,765,536.78	2,835,466.12	–	BRASS BOLT IN CONC.
1340–1, 1985	1,765,327.80	2,833,562.89	14.9	USACE SBC
USE 41	1,763,468.31	2,835,781.08	20.2	STANDARD USE DISK IN CONC.
USE 38	1,761,831.85	2,834,347.00	–	STANDARD USE DISK IN BLDR.
USE 43	1,760,509.33	2,837,065.34	–	STANDARD USE DISK IN CONC.
USCG CAP	1,760,176.40	2,833,069.94	15.31	SBC
USE 40	1,757,930.91	2,831,439.68	–	3/4" BRONZE BOLT IN CONC.
USE 45	1,756,062.20	2,834,772.16	–	ENG. DISK IN BLDR.
USE 42	1,755,854.38	2,830,177.10	–	ENG. DISK IN DRILL HOLE
1218–1/USE47	1,753,623.15	2,831,524.88	13.22	3/4" DRILL HOLE IN BLDR. IN CONC.
USE 44	1,752,508.18	2,828,044.78	17.42	ENG. DISK IN BLDR.
USE 46	1,750,902.84	2,827,980.94	19.31	ENG. DISK IN BLDR.
USE 49	1,750,696.75	2,829,740.61	18.12	BRONZE PLUG IN CEMENT
USE 48	1,748,876.71	2,828,384.90	–	3/4" DRILL HOLE W/TRIANGLE
USE 51	1,748,001.59	2,828,168.30	–	3/4" DRILL HOLE W/TRIANGLE
USE 50	1,747,879.58	2,828,385.32	17.21	USCG&GS DISK (SBC)
USE 52	1,746,495.91	2,823,697.32	–	USCG&GS DISK (SBC)
BIR–17	1,745,983.01	2,826,857.16	18.4	USACE SBC (1989)
USE 53	1,745,338.73	2,825,421.96	–	USACE SBC
1401–4	1,745,289.71	2,825,398.67	–	USACE SBC (1987)
NOB	1,742,099.56	2,823,308.62	17.2	SBD IN BEDROCK
USE 55	1,741,899.17	2,825,649.62	–	3/4" DRILL HOLE W/TRIANGLE
PULL	1,741,511.38	2,821,221.15	–	SBD IN BOULDER
BON	1,740,380.80	2,822,535.87	–	STANDARD HYDRO DISK IN CEMENT
USE 54	1,739,900.84	2,822,625.62	–	3/4" DRILL HOLE W/TRIANGLE
USE 57	1,738,570.60	2,825,721.63	–	SBC
USE 56	1,737,608.37	2,824,911.63		3/4" DRILL HOLE W/TRIANGLE
1309–56/USE59	1,736,013.82	2,826,140.34	–	3/4" DRILL HOLE W/TRIANGLE
USE 58	1,735,983.44	2,829,050.38	–	3/4" DRILL HOLE W/TRIANGLE
WN–15	1,754,202.66	2,830,338.92	18.31	SBC 3 1/4" CEMENTED INTO ROCK

★ NAVIGATION AIDS ★

DESCRIPTION	NORTHING	EASTING
CHANNEL LIGHT 8 FL R	1,739,770	2,825,511
CHANNEL LIGHTED BUOY 9 FL G	1,741,422	2,825,078
CHANNEL LIGHT 10 Q R	1,742,664	2,825,219
DAYBEACON 10A	1,743,392	2,825,400
CHANNEL LIGHT 11 FL G	1,744,580	2,825,248
BURNT ISLAND RANGE FRONT LIGHT F W	1,744,555	2,824,922
BURNT ISLAND RANGE REAR LIGHT F W	1,745,615	2,824,836
CHANNEL BUOY 13 GREEN CAN	1,745,476	2,825,636
CHANNEL BUOY 13A GREEN CAN	1,746,075	2,825,721
CHANNEL LIGHT 14 FL R	1,746,013	2,826,135
CHANNEL LIGHT 15 FL G	1,750,410	2,828,074
CHANNEL LIGHT 16 FL R	1,750,450	2,828,564
CHANNEL LIGHT 17 FL G	1,752,148	2,829,336
CHANNEL LIGHT 18 FL R	1,753,104	2,830,607
CHANNEL LIGHT 19 FL G	1,754,194	2,830,845
BUSH TOP ISLAND RANGE FRONT LIGHT Q W	1,753,403	2,829,923
BUSH TOP ISLAND RANGE REAR LIGHT F W	1,754,614	2,830,573
CHANNEL LIGHT 21 Q G	1,756,173	2,833,478
BLIND POINT RANGE FRONT LIGHT 24 Q W	1,757,687	2,835,548
BLIND POINT RANGE REAR LIGHT F W	1,758,227	2,836,185
TOW CHANNEL BUOY 5TC GREEN CAN	1,758,973	2,834,889
CHANNEL LIGHT 25 FL G	1,759,084	2,835,700
CHANNEL LIGHTED BUOY 26 FL R	1,759,131	2,836,211
CHANNEL LIGHT 27 FL G	1,759,756	2,835,881
CHANNEL LIGHTED BUOY 28 FL R	1,760,506	2,836,275
CHANNEL LIGHTED BUOY 29 FL G	1,761,024	2,835,812
TOW CHANNEL BUOY 7TC GREEN CAN	1,761,637	2,835,436
CHANNEL LIGHT 31 Q G	1,762,340	2,835,063
CHANNEL LIGHT 32 Q R	1,762,667	2,835,312
CHANNEL LIGHT 32A FL R	1,763,535	2,834,840
CHANNEL LIGHTED BUOY 33 FL G	1,763,323	2,834,467
CHANNEL LIGHT 34 FL R	1,764,373	2,834,546
CHANNEL LIGHTED BUOY 36 FL R	1,765,499	2,834,254
CHANNEL LIGHT 37 Q G	1,766,185	2,833,741
CHANNEL LIGHT 38 FL R	1,767,183	2,833,667
CHANNEL DAYBEACON 39 G	1,766,985	2,833,213
CHANNEL LIGHT 40 FL R	1,767,927	2,833,215
CHANNEL LIGHTED BUOY 42 FL R	1,768,638	2,832,752

CENTERLINE OF 300 FOOT WIDE CHANNEL

CORNER	NORTHING	EASTING	CORNER	NORTHING	EASTING
1	1,768,548	2,832,534	10 (PT/PC)	1,759,604	2,836,082
REV 2 (PT)	1,766,651	2,833,771	11 (PT)	1,756,830	2,834,567
3 (PC)	1,766,155	2,833,969	12	1,754,121	2,831,177
4	1,764,973	2,834,186	13	1,750,551	2,828,357
5	1,764,359	2,834,341	14	1,746,065	2,825,945
6	1,763,792	2,834,523	15	1,742,760	2,825,047
7	1,763,212	2,834,766	16	1,741,380	2,825,190
8	1,762,626	2,835,081	17	1,739,373	2,825,281
9 (PT)	1,762,019	2,835,495			

REV.	DATE	DESCRIPTION	BY	APP'D.

CONTRACTOR WESTERN MARINE CONSTRUCTION
CONTRACT NO. DACW85–00–C–0015
CITY SEATTLE STATE WASHINGTON

ALASKA DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

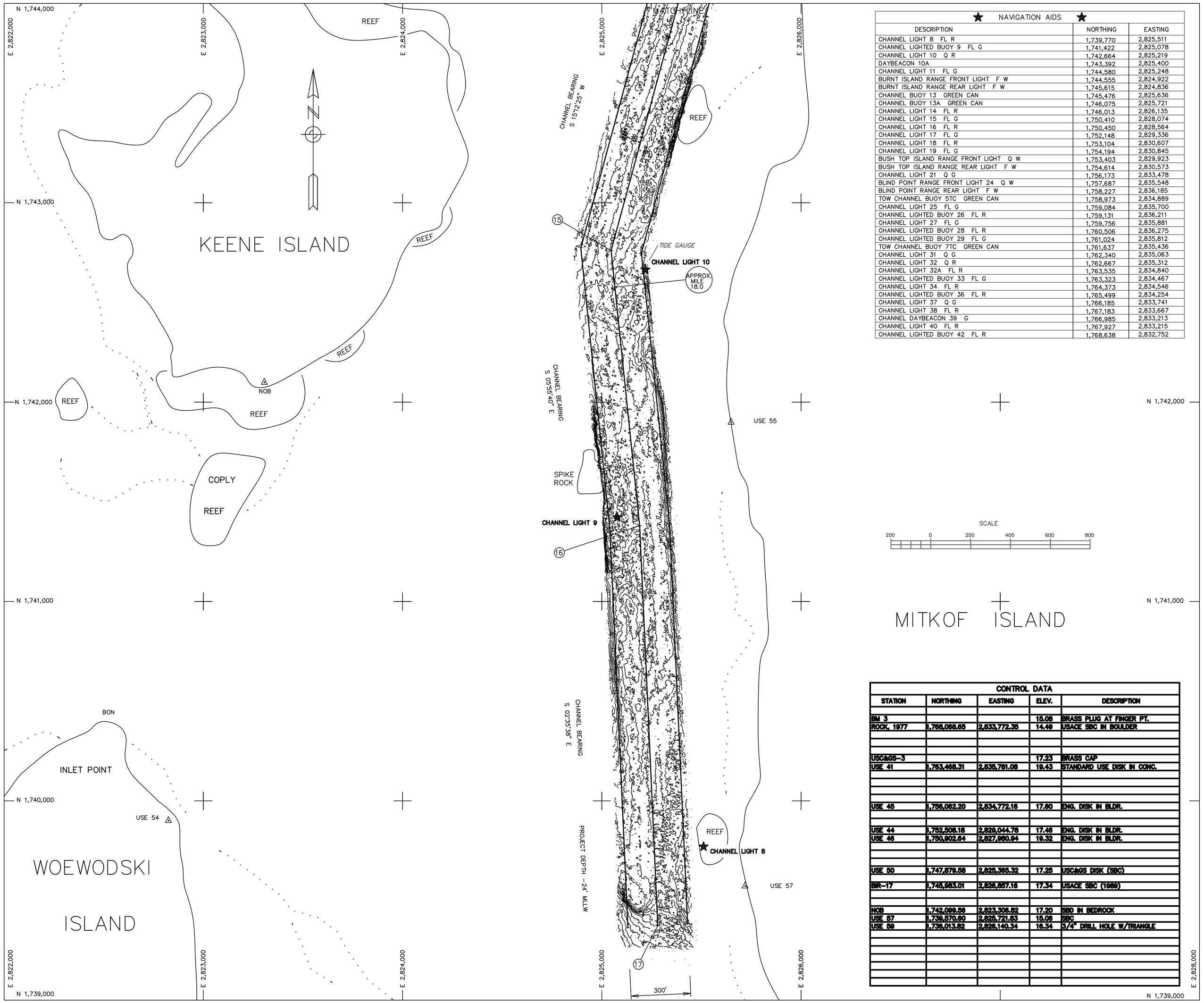
SURVEYED: DRP
DRAWN: TAH
CHECKED: RGB
SUBMITTED:

WRANGELL NARROWS, ALASKA
BUOY 8 TO BUOY 42
(THIS SHEET APPROXIMATELY MILE 16.6 TO 17.6)
POST DREDGE SURVEY
DECEMBER 28, 2000

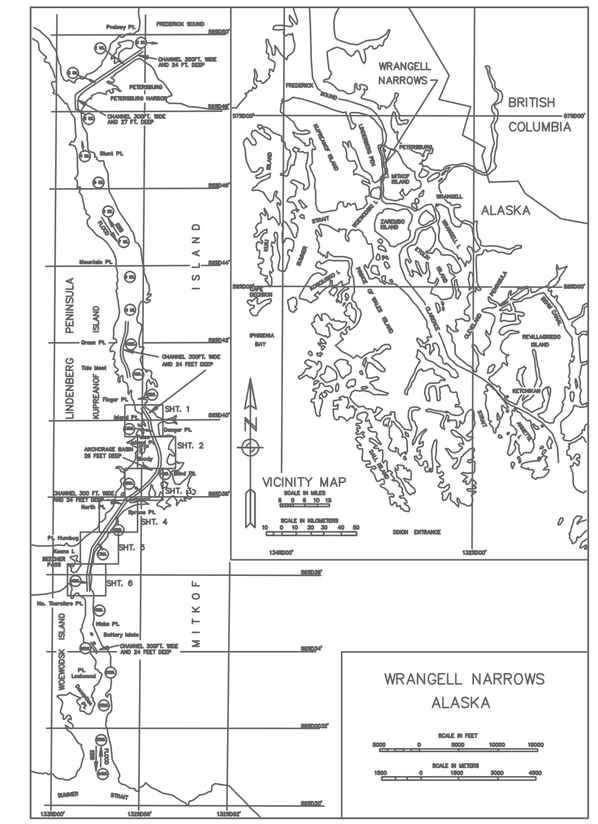
RECOMMENDED: PROJECT MANAGER
APPROVED: CHIEF OPERATIONS–READINESS BRANCH
DATE:

SURVEY NO.
SCALE: 1" = 200'
SHEET 5 OF 6

DRAWING NO. post1228 sh–5.pro



★ NAVIGATION AIDS ★		
DESCRIPTION	NORTHING	EASTING
CHANNEL LIGHT 8 FL R	1,739,770	2,825,511
CHANNEL LIGHTED BUOY 9 FL G	1,741,422	2,825,078
CHANNEL LIGHT 10 Q R	1,742,664	2,825,219
DAYBEACON 10A	1,743,392	2,825,400
CHANNEL LIGHT 11 FL G	1,744,580	2,825,248
BURNT ISLAND RANGE FRONT LIGHT F W	1,744,555	2,824,922
BURNT ISLAND RANGE REAR LIGHT F W	1,745,615	2,824,836
CHANNEL BUOY 13 GREEN CAN	1,745,476	2,825,636
CHANNEL BUOY 13A GREEN CAN	1,746,075	2,825,721
CHANNEL LIGHT 14 FL R	1,746,013	2,826,135
CHANNEL LIGHT 15 FL G	1,750,410	2,828,074
CHANNEL LIGHT 16 FL R	1,750,450	2,828,564
CHANNEL LIGHT 17 FL G	1,752,148	2,829,336
CHANNEL LIGHT 18 FL R	1,753,104	2,830,607
CHANNEL LIGHT 19 FL G	1,754,194	2,830,845
BUSH TOP ISLAND RANGE FRONT LIGHT Q W	1,753,403	2,829,923
BUSH TOP ISLAND RANGE REAR LIGHT F W	1,754,614	2,830,573
CHANNEL LIGHT 21 Q G	1,756,173	2,833,478
BLIND POINT RANGE FRONT LIGHT 24 Q W	1,757,687	2,835,548
BLIND POINT RANGE REAR LIGHT F W	1,758,227	2,836,185
TOW CHANNEL BUOY 57C GREEN CAN	1,758,973	2,834,889
CHANNEL LIGHT 25 FL G	1,759,084	2,835,700
CHANNEL LIGHTED BUOY 26 FL R	1,759,131	2,836,211
CHANNEL LIGHT 27 FL G	1,759,756	2,835,881
CHANNEL LIGHTED BUOY 28 FL R	1,760,506	2,836,275
CHANNEL LIGHTED BUOY 29 FL G	1,761,024	2,835,812
TOW CHANNEL BUOY 77C GREEN CAN	1,761,637	2,835,436
CHANNEL LIGHT 31 Q G	1,762,340	2,835,063
CHANNEL LIGHT 32 Q R	1,762,667	2,835,312
CHANNEL LIGHT 32A FL R	1,763,535	2,834,840
CHANNEL LIGHTED BUOY 33 FL G	1,763,323	2,834,467
CHANNEL LIGHT 34 FL R	1,764,373	2,834,546
CHANNEL LIGHTED BUOY 36 FL R	1,765,499	2,834,254
CHANNEL LIGHT 37 Q G	1,766,185	2,833,741
CHANNEL LIGHT 38 FL R	1,767,183	2,833,667
CHANNEL DAYBEACON 39 G	1,766,985	2,833,213
CHANNEL LIGHT 40 FL R	1,767,927	2,833,215
CHANNEL LIGHTED BUOY 42 FL R	1,768,638	2,832,752



NOTES

1. HORIZONTAL DATUM: NAD 27 ALASKA STATE PLANE (ZONE 1) IN FEET.
2. VERTICAL DATUM: VERTICAL CONTROL IS IN FEET REFERRING TO MEAN LOWER LOW WATER (MLLW = 0.0') HOLDING USC&GS SBD "NOB" AS 17.20'.
3. DEPTHS SHOWN ARE IN FEET BELOW MEAN LOWER LOW WATER (MLLW = 0.0'). THE DECIMAL POINT OF THE SOUNDING IS THE POSITION OF THE SOUNDING.
4. HORIZONTAL POSITIONS FOR DATA COLLECTION WERE DERIVED FROM A GPS SYSTEM OPERATING IN DIFFERENTIAL MODE. CORRECTIONS WERE RECIEVED FROM THE CONTINUOUSLY OPERATING REFERENCE STATION (CORS) NAMED "BIORKA" OPERATING AT 305 KHZ.
5. BATHYMETRIC DATA WAS COLLECTED USING A SEABEAM 1180 MULTIBEAM SONAR SYSTEM. VESSEL ATTITUDE WAS MEASURED WITH A SEATEX MRU 6 MOTION SENSOR, HEADING WAS MEASURED WITH A SCAN 2000 GYRO COMPASS. TIDE DATA WAS COLLECTED WITH A OHMEX INSTRUMENTS TIDALITE TIDE GAUGE. VESSEL NAVIGATION, DATA COLLECTION, AND DATA PROCESSING WAS PERFORMED USING COASTAL OCEANOGRAPHICS "HYPACK AND HYSWEEP" SOFTWARE.
6. PHYSICAL FEATURE DRAWING WAS PROVIDED BY THE ALASKA DISTRICT CORPS OF ENGINEERS.
7. DATA COLLECTED: DECEMBER 27, 2000

CONTROL DATA				
STATION	NORTHING	EASTING	ELEV.	DESCRIPTION
BM 3			15.08	BRASS PLUG AT FINGER PT.
ROCK, 1977	1,768,058.65	2,833,772.35	14.49	USACE SBC IN BOULDER
USC&GS-3			17.23	BRASS CAP
USE 41	1,763,468.31	2,835,781.08	19.43	STANDARD USE DISK IN CONC.
USE 45	1,756,082.20	2,834,772.16	17.60	ENG. DISK IN BLDR.
USE 44	1,752,508.18	2,829,044.78	17.46	ENG. DISK IN BLDR.
USE 46	1,750,902.64	2,827,980.94	19.32	ENG. DISK IN BLDR.
USE 50	1,747,879.56	2,825,365.32	17.25	USC&GS DISK (SBC)
BIR-17	1,745,983.01	2,826,857.16	17.34	USACE SBC (1988)
NOB	1,742,099.56	2,823,306.82	17.20	SBD IN BEDROCK
USE 57	1,739,970.60	2,825,721.83	15.08	SBC
USE 59	1,738,013.82	2,826,140.34	16.34	3/4" DRILL HOLE W/TRIANGLE

CENTERLINE OF 300 FOOT WIDE CHANNEL					
CORNER	NORTHING	EASTING	CORNER	NORTHING	EASTING
1	1,768,548	2,832,534	10 (PT/PC)	1,759,604	2,836,082
REV 2 (PT)	1,766,651	2,833,771	11 (PT)	1,756,830	2,834,567
3 (PC)	1,766,155	2,833,969	12	1,754,121	2,831,177
4	1,764,973	2,834,186	13	1,750,551	2,828,357
5	1,764,359	2,834,341	14	1,746,065	2,825,945
6	1,763,792	2,834,523	15	1,742,760	2,825,047
7	1,763,212	2,834,766	16	1,741,380	2,825,190
8	1,762,626	2,835,081	17	1,739,373	2,825,281
9 (PT)	1,762,019	2,835,495			

REV.	DATE	DESCRIPTION	BY	APP'D.

CONTRACT NO. DACW85-00-C-0015
CONTRACTOR WESTERN MARINE CONSTRUCTION
CITY SEATTLE STATE WASHINGTON

ALASKA DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

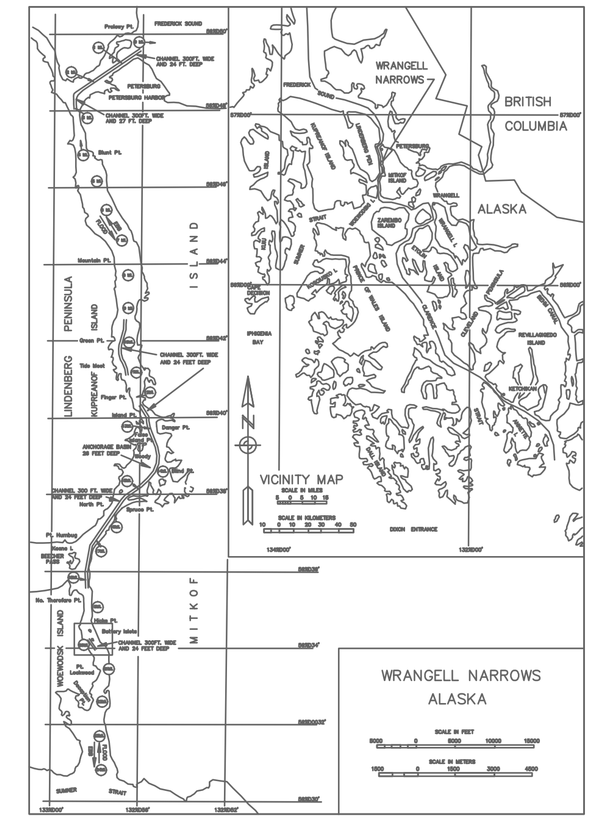
SURVEYED: DRP
DRAWN: TAH
CHECKED: RGB
SUBMITTED:

WRANGELL NARROWS, ALASKA
BUOY 8 TO BUOY 42
(THIS SHEET APPROXIMATELY MILE 17.6 TO 18.4)
POST DREDGE SURVEY
DECEMBER 27, 2000.

RECOMMENDED: PROJECT MANAGER
APPROVED: CHIEF OPERATIONS-READINESS BRANCH
DATE:

SURVEY NO.
SCALE: 1" = 200'
SHEET 6 OF 6

CENTERLINE OF 300 FOOT WIDE CHANNEL		
CORNER	NORTHING	EASTING
1	1,730,986	2,825,827
2	1,729,004	2,827,342



NOTES

1. HORIZONTAL DATUM: NAD 27 ALASKA STATE PLANE (ZONE 1) IN FEET.
2. VERTICAL DATUM: VERTICAL CONTROL IS IN FEET REFERRING TO MEAN LOWER LOW WATER (MLLW = 0.0') HOLDING 3/4" BC IN BOULDER "WN-20" AS 17.50'.
3. DEPTHS ARE SHOWN IN FEET BELOW MEAN LOWER LOW WATER (MLLW = 0.0'). THE DECIMAL POINT OF THE SOUNDING IS THE POSITION OF THE SOUNDING.
4. HORIZONTAL POSITIONS FOR DATA COLLECTION WERE DERIVED FROM A GPS SYSTEM OPERATING IN DIFFERENTIAL MODE. CORRECTIONS WERE RECIEVED FROM THE CONTINUOUSLY OPERATING REFERENCE STATION (CORS) NAMED "SIORKA" OPERATING AT 305 KHZ.
5. BATHYMETRIC DATA WAS COLLECTED USING A SEABEAM 1180 MULTIBEAM SONAR SYSTEM. VESSEL ATTITUDE WAS MEASURED WITH A SEATEX MRU 6 MOTION SENSOR, HEADING WAS MEASURED WITH A SCAN 2000 GYRO COMPASS. TIDE DATA WAS COLLECTED WITH A OHMEX INSTRUMENTS TIDALITE TIDE GAUGE. VESSEL NAVIGATION, DATA COLLECTION, AND DATA PROCESSING WAS PERFORMED USING COASTAL OCEANOGRAPHICS "HYPACK AND HYSWEEP" SOFTWARE.
6. PHYSICAL FEATURE DRAWING WAS PROVIDED BY THE ALASKA DISTRICT CORPS OF ENGINEERS.
7. DATA COLLECTED: NOVEMBER 17 AND DECEMBER 27, 2000.

CONTROL DATA				
STATION	NORTHING	EASTING	ELEV.	DESCRIPTION
BAT	1,731,331.44	2,827,238.59	16.45	USACE SBC, GOOD CONDITION
WN-20, 1997	1,731,038.77	2,826,472.11	17.50	SET 3 1/4" BC IN BOULDER

NAVIGATION AIDS			
USCG No.	DESCRIPTION	NORTHING	EASTING
22845	CHANNEL LIGHT 1 FL. G.	1,729,477	2,826,687
22850	CHANNEL LIGHT 2 FL. R.	1,730,338	2,826,596
22855	CHANNEL LIGHTED BOUY 2A FL. R.	1,731,049	2,826,045
22860	CHANNEL LIGHTED BOUY 3 FL. G.	1,731,197	2,825,452

CONTRACT NO. DACW85-00-C-0015
CONTRACTOR WESTERN MARINE CONSTRUCTION
CITY SEATTLE STATE WASHINGTON

ALASKA DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

SURVEYED: DRP
DRAWN: TAH
CHECKED: RGB
SUBMITTED:

WRANGELL NARROWS, ALASKA

MILE 20

POST DREDGE SURVEY
NOVEMBER 17 AND DECEMBER 27, 2000

RECOMMENDED: PROJECT MANAGER
APPROVED: CHIEF OPERATIONS-READINESS BRANCH
DATE:

SURVEY NO.
SCALE: 1" = 200'
SHEET 1 OF 1