



NOTES

- HORIZONTAL CONTROL IS ALASKA STATE PLANE, ZONE 1, NAD83(CORS98). IN US SURVEY FEET, BENCH MARK 13 1989 AS 20.08' AND BENCH MARK 13 1989 AS 20.08' (SEE NOTE 2) ARE THE ONLY BENCH MARKS USED. THE METLAKATLA OLD HARBOR CONTROL WAS ESTABLISHED BY THE US ARMY IN 1972. THE METLAKATLA OLD HARBOR CONTROL WAS ESTABLISHED BY THE US ARMY IN 1972. THE METLAKATLA OLD HARBOR CONTROL WAS ESTABLISHED BY THE US ARMY IN 1972.
- VERTICAL CONTROL IS MEAN-LOWER-LOW-WATER DATUM. IN US SURVEY FEET (MILLIMETER) HOLDING NOAA/NSD BENCH MARK 13 1989 AS 20.08' AND BENCH MARK 13 1989 AS 20.08' (SEE NOTE 1) ARE THE ONLY BENCH MARKS USED. THE METLAKATLA OLD HARBOR CONTROL WAS ESTABLISHED BY THE US ARMY IN 1972.
- SOUNDINGS ARE IN US SURVEY FEET AND ARE MINUS INDICATED OTHERWISE.
- THIS DRAWING INDICATES GENERAL CONDITIONS AT THE TIME OF SURVEY.
- SURVEY DATA ACQUISITION WAS PERFORMED APRIL 2-7, 2003. SOUNDINGS WERE COLLECTED USING AN EMBRO SYSTEM WITH A TRIMBLE SCIENTIFIC BUSINESS SYSTEMS (SBS) 212L GPS RECEIVER OPERATING ON RTCM CORRECTIONS BROADCAST FROM A TRIMBLE 4000 SSB RECEIVER. THE RECEIVER WAS OPERATING IN REAL TIME KINEMATIC (RTK) MODE. SOUNDINGS WERE COLLECTED FOR THE USING WATER LEVEL DATA COLLECTED WITH AN EMBRO TREE CODES WATER LEVEL RECORDING STATION. BENCH MARKS WERE SET UP AT THE TIME OF SURVEY. REAL-TIME KINEMATIC GPS TECHNOLOGIES. VERTICAL CONTROL WAS SURVEYED USING OPTICAL INSTRUMENTS AND ELECTRONIC LEVELS. SOUNDINGS WERE SURVEYED USING OPTICAL INSTRUMENTS AND ELECTRONIC LEVELS.
- CONTROL MONUMENTS OF RECORD WHICH WERE NOT SURVEYED ARE DEPICTED IN THE CONTROL TABLE WITH AN ASTERISK (\*). THESE MONUMENTS HAVE FEATURES, PROJECT LIMITS AND ASSOCIATED VALUES WHICH WERE COMMENTED FROM MONUMENTS (COMPANION TO MONUMENTS) USING A FIELD SCALE. THESE MONUMENTS WERE COMMENTED FROM MONUMENTS (COMPANION TO MONUMENTS) USING A FIELD SCALE. THESE MONUMENTS WERE COMMENTED FROM MONUMENTS (COMPANION TO MONUMENTS) USING A FIELD SCALE.

VOLUME COMPUTATIONS

ANNUAL PAY LINE	Project Depth -10' MLLW	CUBIC YARDS
Between MINIMUM PAY LINE and MAXIMUM PAY LINE (-11' MLLW)		1.26
VOLUME AVAILABLE ALONG SISESLOPES (3:1, HV)		1.246
TOTAL		1.728

CONTROL DATA

STATION	NORTHING	EASTING	ELEV.	DESCRIPTION
MET 3 1972	1,209,604.35	3,124,977.00	23.82	USACE SIBC
MET 4 1972	1,209,594.47	3,124,661.64	21.55	USACE SIBC
BW 11 1989	1,209,598.53	3,124,922.11	24.06	USACE BENCH MARK BC
BW 13 1989	1,209,318.22	3,124,708.87	20.09	USACE BENCH MARK BC
MOH-1 1999	1,209,938.23	3,124,332.87	22.45	USACE DOWND BC
MOH-2 1989	1,209,395.29	3,124,903.51	23.71	USACE DOWND BC
MOH-3 2003	1,209,598.86	3,124,500.42	20.48	USACE DOWND BC

PROJECT LIMITS

CORNER	NORTHING	EASTING	CORNER	NORTHING	EASTING
1	1,210,130.22	3,124,606.88	4	1,209,423.69	3,124,687.61
2	1,209,950.73	3,124,664.81	5	1,209,413.41	3,124,465.96
3	1,209,554.62	3,124,865.66	6	1,210,114.85	3,124,538.42

NAVIGATION AIDS

USCG No.	DESCRIPTION	NORTHING	EASTING
22090	METLAKATLA BREWERY LIGHT 1	1,209,989.9	3,124,628.0

CONTRACTOR: TERRA SURVEYS, LLC  
 CONTRACT NO.: DCM85-01-D-0001  
 STATE: ALASKA  
 CITY: METLAKATLA

ALASKA DISTRICT  
 CORPS OF ENGINEERS  
 ANCHORAGE, ALASKA

METLAKATLA, ALASKA  
 METLAKATLA OLD HARBOR  
 PROJECT CONDITION SURVEY  
 APRIL 2-7, 2003

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CHECKED: KDW  
 SUBMITTED: \_\_\_\_\_  
 SURVEY NO. 2036-03  
 SCALE: 1" = 50'  
 SHEET 1 OF 1