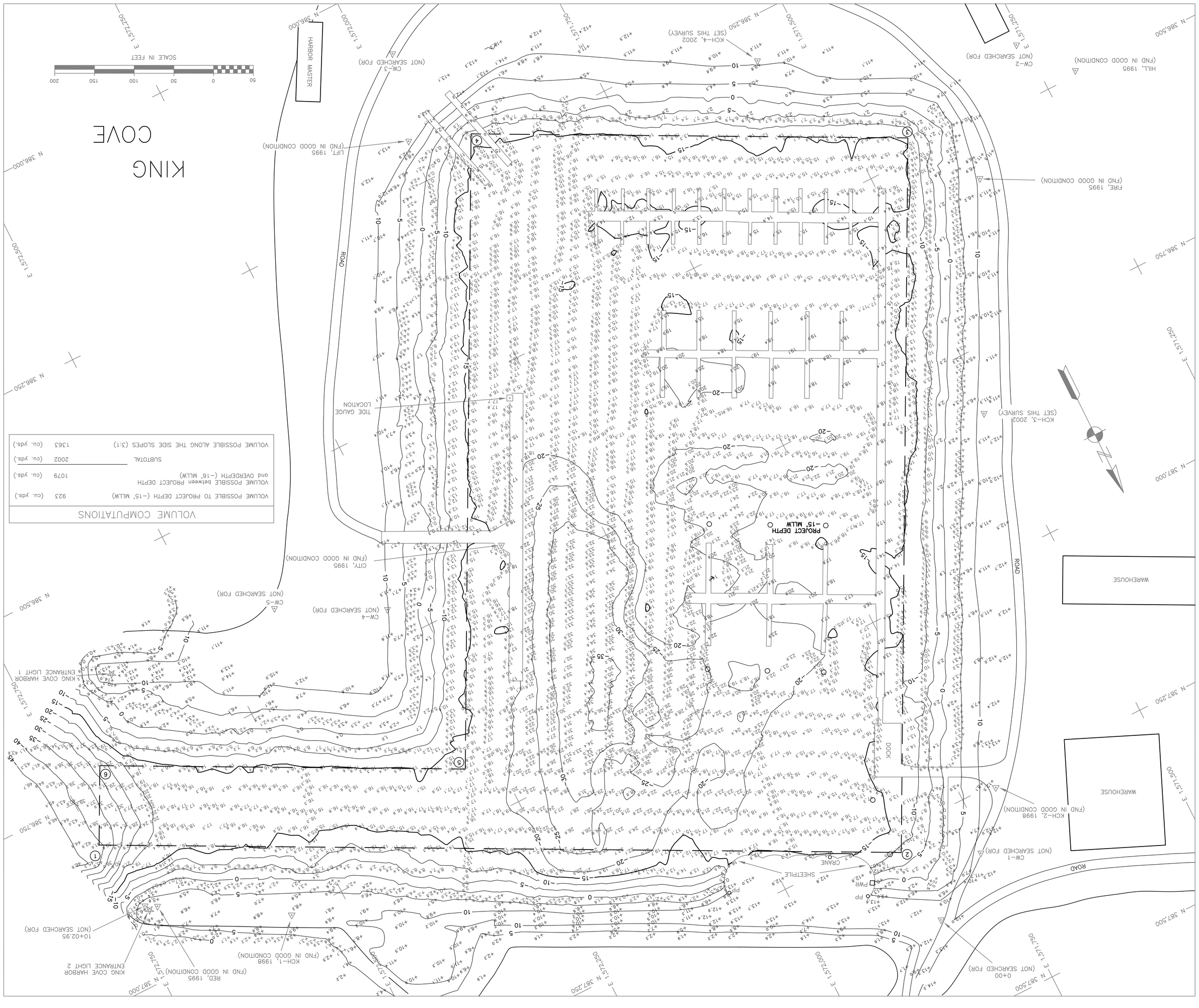


KING COVE

VOLUME COMPUTATIONS

VOLUME POSSIBLE TO PROJECT DEPTH (-15' MLLW)	923	(cu. yds.)
VOLUME POSSIBLE between PROJECT DEPTH and OVERDEPTH (-16' MLLW)	1079	(cu. yds.)
SUBTOTAL	2002	(cu. yds.)
VOLUME POSSIBLE ALONG THE SIDE SLOPES (3:1)	1363	(cu. yds.)

CONTROL DATA

STATION	NORTHING	EASTING	ELEV.	DESCRIPTION
0+00	387,372.79	1,571,842.53	10.98	USACE BC
10+02.95	386,904.99	1,572,729.13	6.16	PK NAIL IN S. COR. OF NAV. LIGHT
CW-3	386,087.70	1,571,966.86	–	COPPERED 1 IN. BELOW GRND.
CW-4	386,709.42	1,572,288.28	–	COPPERED FLUSH W/GRND.
CW-5	386,644.13	1,572,414.60	–	COPPERED 3 INS. ABOVE GRND.
RED, 1995	386,912.47	1,572,715.25	7.02	1.5" ALCAP FLUSH
LIFT, 1995	386,195.10	1,571,998.25	13.28	5/8" BY 30" REBAR – NO CAP
FIRE, 1995	386,565.50	1,571,377.73	12.43	1.5" ALCAP FLUSH
HILL, 1995	386,494.28	1,571,209.08	37.27	1.5" ALCAP ON 5/8" – 30" REBAR
CITY, 1995	386,701.94	1,572,123.65	12.47	1.5" ALCAP FLUSH
KCH-1, 1998	386,998.60	1,572,569.29	9.65	3.25" DOMED BC
KCH-2, 1998	387,255.12	1,571,705.77	12.75	3.25" DOMED BC
KCH-3, 2002	386,828.01	1,571,506.54	11.84	3.25" DOMED BC
KCH-4, 2002	386,302.89	1,571,560.83	10.48	3.25" DOMED BC

PROJECT LIMITS

CORNER	NORTHING	EASTING	CORNER	NORTHING	EASTING
1	386,810.57	1,572,745.98	4	386,222.44	1,571,923.92
2	387,274.51	1,571,848.82	5	386,933.09	1,572,291.31
3	386,475.05	1,571,435.43	6	386,721.78	1,572,699.99

NAVIGATION AIDS

DESCRIPTION	USCG NO.	NORTHING	EASTING
KING COVE HARBOR ENTRANCE LIGHT 1	27185	386,625	1,572,635
KING COVE HARBOR ENTRANCE LIGHT 2	27190	386,912	1,572,726

CONTRACTOR TERRA SURVEYS, LLC
CITY PALMER STATE AK
CONTRACT NO. DACW85-01-D-0001

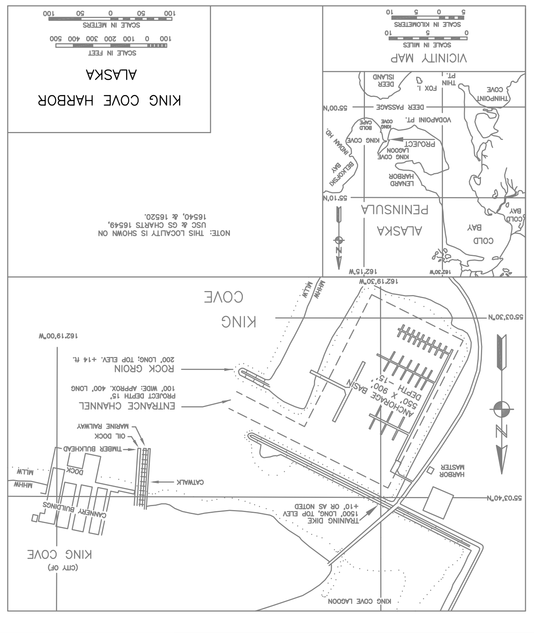
ALASKA DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

SURVEYED:
DRAWN: JDE/DBM
CHECKED: DJB/LES
SUBMITTED: KDW

KING COVE, ALASKA
KING COVE HARBOR
CONDITION SURVEY
AUGUST 7–14, 2002

RECOMMENDED:
APPROVED:
DATE:
PROJECT MANAGER
CHIEF OPERATIONS–REAL ESTATE BRANCH

SURVEY NO. 1986–02
SCALE: 1"= 50'
SHEET 1 OF 1

NOTES

1. HORIZONTAL CONTROL IS ALASKA STATE PLANE, ZONE 7, NAD 83 (CORS), IN U.S. FEET. HOLDING NGS CORS STATION "COLD BAY 1 LI PHASE CENTER" AS N 435,403.99, E 1,492,669.47 (EPOCH 2002.0) AND 1.5" ALCAP "HILL, 1995" AS N 386,494.28, E 1,571,209.08.
2. VERTICAL CONTROL IS IN FEET, REFERRING TO MEAN LOWER LOW WATER (MLLW=0.0'), HOLDING USC&GS BM "NO. 10, 1964" AS 16.10'.
3. SOUNDINGS ARE IN FEET AND ARE MINUS UNLESS OTHERWISE INDICATED.
4. DATA ACQUISITION WAS CONDUCTED ON AUGUST 7–14, 2002. SOUNDINGS WERE OBTAINED WITH AN ODOM HYDROTRAC DEPTH SOUNDER, AND A ROSS 950 TRANSDUCER. POSITIONING WAS PROVIDED BY A TRIMBLE 4000SSI RECEIVER, AND A SURVEYOR/SMART SOUNDER, BOTH WITH A 200KHZ, 3° BEAM WIDTH, SINGLE BEAM TRIMBLE AG132 DGPS RECEIVER, BOTH OPERATING ON CORRECTIONS BROADCAST FROM A TRIMBLE 4000SSE LOCAL BASE STATION SET AT 1.5' ALCAP "HILL, 1995". DEPTHS WERE CORRECTED FOR TIDE USING READINGS TAKEN FROM AN ENDECO TYPE 1029 WATER LEVEL RECORDER SET BY TERRA SURVEYS, LLC. NAVIGATION AND DATA COLLECTION WERE PERFORMED USING HYPACK MAX INTEGRATED SOFTWARE. HORIZONTAL CONTROL WAS SURVEYED UTILIZING STATIC AND REAL TIME KINEMATIC GPS TECHNIQUES. VERTICAL CONTROL WAS SURVEYED USING OPTICAL INSTRUMENTS AND DIFFERENTIAL LEVELING TECHNIQUES.
5. THIS SURVEY INDICATES GENERAL CONDITIONS AT THE TIME OF SURVEY.
6. THIS SURVEY WAS CONVERTED FROM NAD27 TO ALASKA STATE PLANE ZONE 7, NAD83 USING COPPSCON VERSION 5.11.01. THE CONVERSION WAS FURTHER REFINED USING A POST-PROCESSED STATIC GPS NETWORK HOLDING NOAA/NGS CORS STATION "BAYT", BASED ON PUBLISHED NAD83 (EPOCH 2002.0) COORDINATES. ALL PLAT FEATURES TRANSFORMATION USING CORPSCON CONVERTED VS. MEASURED CONTROL COORDINATE AND PROJECT LIMIT COORDINATES WERE INCLUDED IN A FIXED-SCALE, LEAST SQUARES PARAMETERS. GPS POST PROCESSING WAS PERFORMED USING TRIMBLE GEOMATICS OFFICE SOFTWARE. COORDINATE TRANSFORMATION WAS PERFORMED USING SURVCADD CES SOFTWARE.