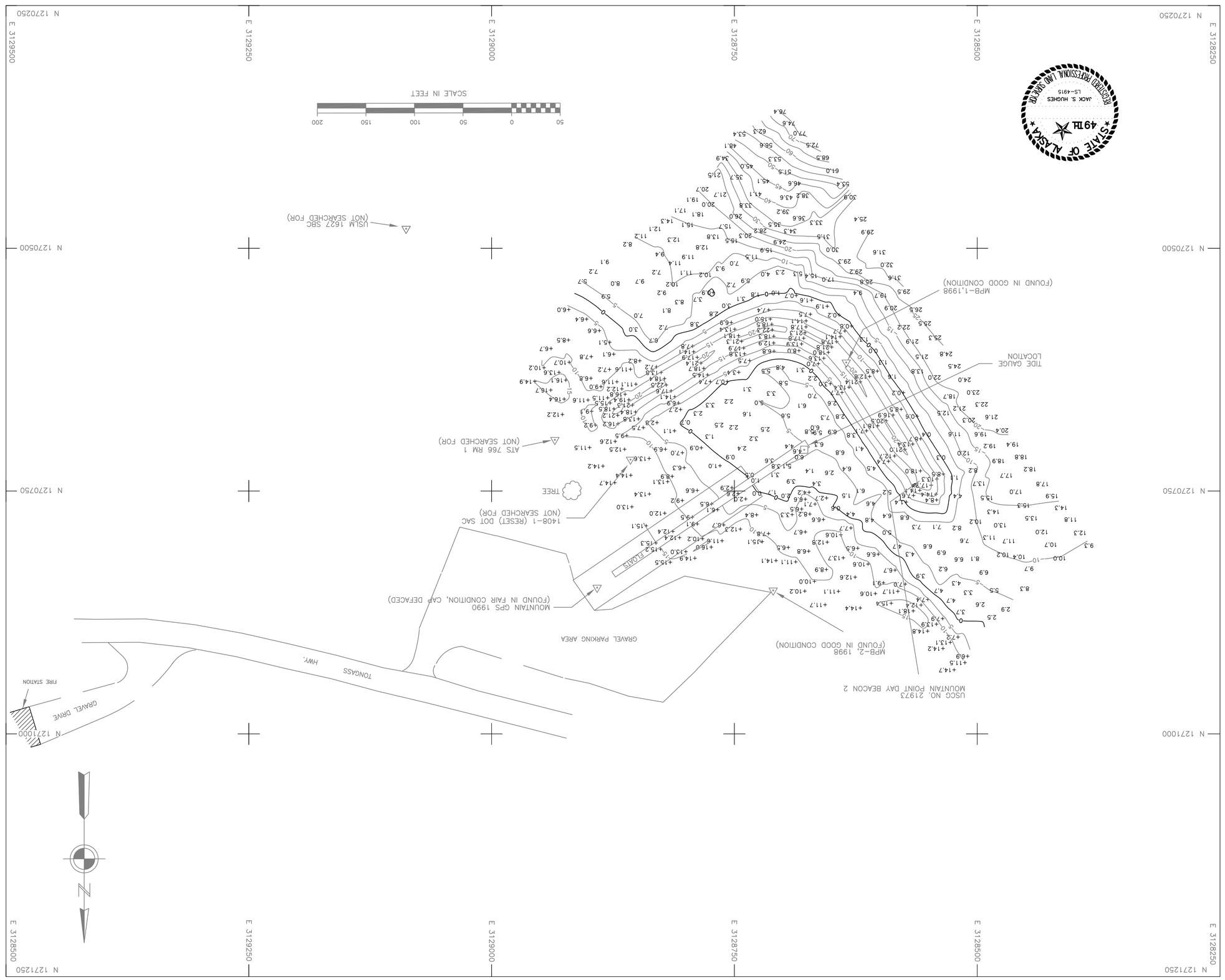


2155-04

SURVEY NO.

SCALE: 1" = 50

SHEET 1 OF 1

RECOMMENDED: APPROVED: DATE:

PROJECT MANAGER — CHIEF OPERATIONS-READINESS BRANCH

SURVEYED: CSH/REH

DRAWN: CSH/REH

CHECKED: JSH

SUBMITTED:

MOUNTAIN POINT, ALASKA
MOUNTAIN POINT BREAKWATER
JULY 22, 2004
PROJECT CONDITION SURVEY

ALASKA DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

CONTRACTOR HUGHES AND ASSOCIATES
CONTRACT NO. W911KB04-D-0007
CITY PALMER STATE AK

REV.	DATE	DESCRIPTION	BY	APP'D.

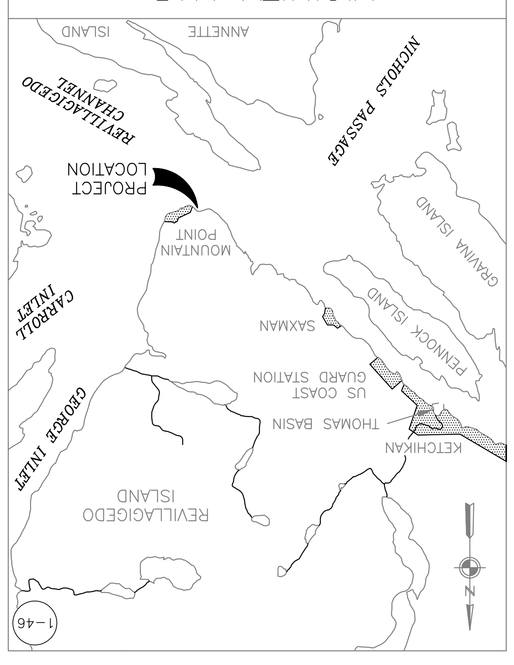
NOTES

1. HORIZONTAL CONTROL IS ALASKA STATE PLANE ZONE 1, IN FEET, NORTH AMERICAN DATUM OF 1983, HOLDING BC "MPB-1 1998" AS N 1,270,617.54, E 3,128,654.81 AND BC "MPB-2 1998" AS N 1,270,852.30, E 3,128,710.07.
2. VERTICAL CONTROL IS IN FEET BASED ON MEAN LOWER LOW WATER (MLLW = 0.0'), HOLDING USACE BC "MPB-2 1998" AS 21.44' ABOVE MLLW WATER.
3. SOUNDINGS ARE IN FEET AND ARE MINUS UNLESS OTHERWISE INDICATED.
4. BATHYMETRY WAS COLLECTED JULY 22, 2004. SOUNDINGS WERE COLLECTED USING AN "NAVIGRAPHE 448" SOUNDER WITH A 3° SINGLE BEAM TRANSDUCER. SOUND VELOCITY THROUGH THE WATER COLUMN WAS DETERMINED WITH AN ODOM DIGIBAR PRO SOUND DEPTH. POSITIONING AND VESSEL ATTITUDE WERE MEASURED USING A "TRIMBLE 5700 RTK" SYSTEM AND A TSS MOTION REFERENCE UNIT. RTK CORRECTIONS WERE BROADCAST FROM A LOCAL BASE STATION OCCUPYING "MOUNTAIN GPS 1990". DATA WAS COLLECTED AND FIELD PROCESSED USING "HYPACK MAX VERSION 02.12A" SOFTWARE. THE ELEVATIONS WERE MEASURED USING A "TRIMBLE 5700 RTK" SYSTEM AND VERTICAL CONTROL WAS VERIFIED THROUGH CONVENTIONAL DIFFERENTIAL LEVELING TECHNIQUES.
5. THIS SURVEY INDICATES GENERAL CONDITIONS AT THE TIME OF SURVEY.

CONTROL DATA

STATION	NORTHING	EASTING	ELEV.	DESCRIPTION
USLM 1627	1,270,479.87	3,129,087.99		BC ON POST
MOUNT 1910	1,270,907.85	3,127,395.64		COPPER BOLT
MOUNTAIN GPS 1990	1,270,849.45	3,128,891.34	22.89	3 1/4" NGS SBC, NO RECORD INFO. AVAIL.
MPB-1, 1998	1,270,617.54	3,128,654.81	21.25	3 1/4" BC IN ROCK
MPB-2, 1998	1,270,852.30	3,128,710.07	21.44	3 1/4" BC IN ROCK
ATS 766 RM 1			13.69	ALCAP ON REBAR

NAVIGATION AIDS

DESCRIPTION	USCG NO.	NORTHING	EASTING
MOUNTAIN POINT DAY BEACON 2		1,270,737	3,128,557

VICINITY MAP