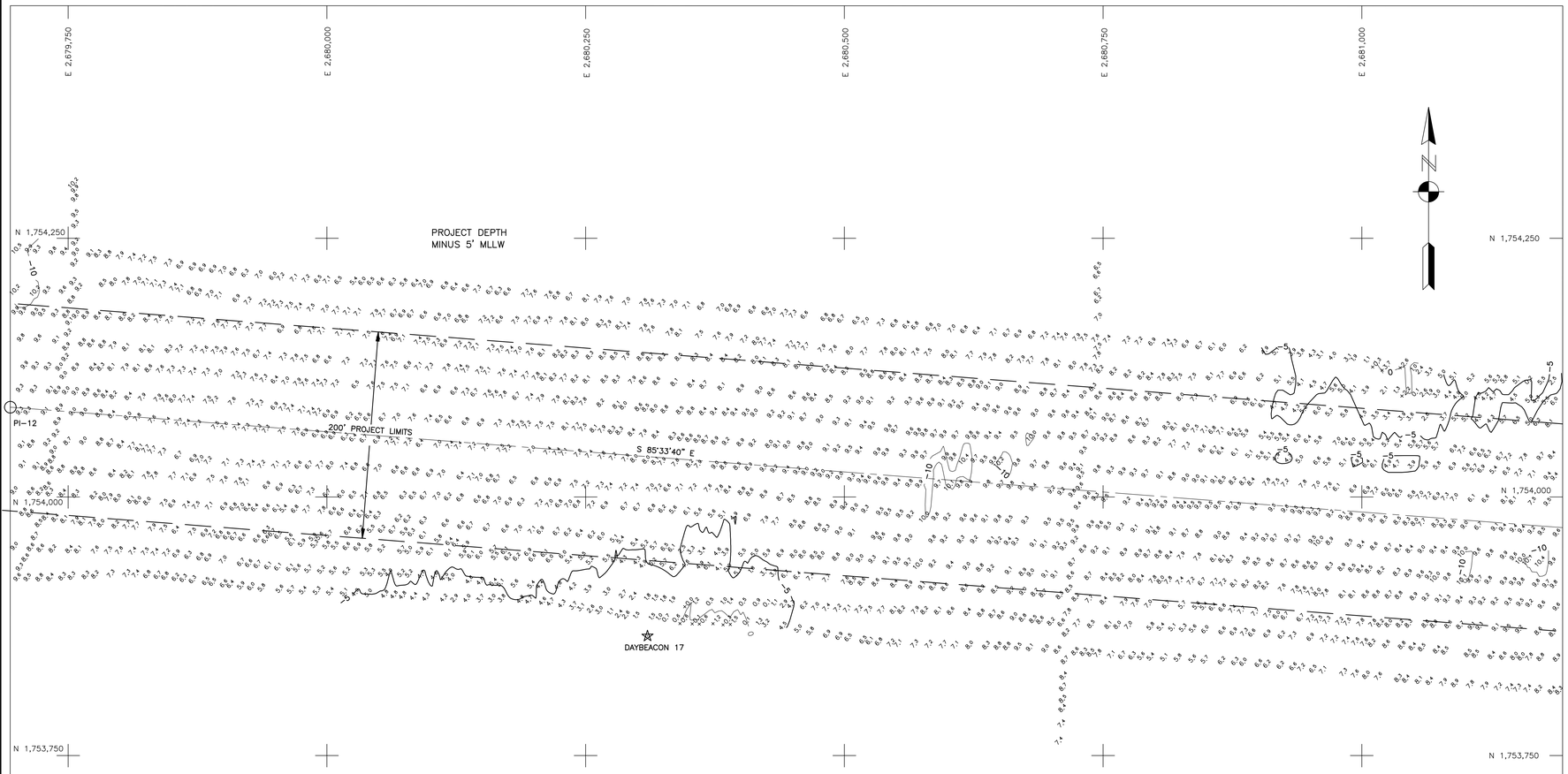


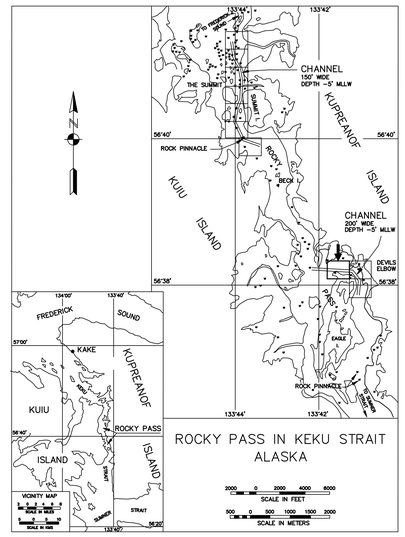


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2. VERTICAL CONTROL IS MEAN-LOWER-LOW-WATER DATUM, IN US SURVEY FEET (MLLW=0.0') HOLDING USC&GS "BENCH MARK 1" 1929 AS 17.88'. TIDAL DATUM IS BASED ON NOS TIDAL BENCH MARK SHEET FOR "THE SUMMIT, N.W. SUMMIT ISLAND ALASKA", STATION ID 9451349, TIDAL EPOCH 1983-2001, PUBLISHED JULY 2, 2007.
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△ CONTROL DATA △

| STATION | NORTHING | EASTING | ELEV. | DESCRIPTION |
|---|---|---|---|---|
| D-1 1977 | 1,753,036.96 | 2,681,889.48 | 17.25 | USACE SBC |
| D-2 1977 | 1,752,365.10 | 2,683,162.77 | 13.02 | USACE SBC |
| D-3 1977 | 1,754,219.15 | 2,682,766.21 | 15.63 | USACE SBC |
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| DE-1 2001 | 1,754,921.62 | 2,681,006.69 | 20.80 | USACE DOMED BC |
| DE-2 2001 | 1,753,067.07 | 2,681,051.56 | 15.98 | USACE DOMED BC |
| DE-3 2007 | 1,753,633.78 | 2,681,681.89 | 18.30 | SET 3.25" DOMED BC |
| NICK 1958 | 1,753,449.30 | 2,681,631.96 | | SEARCHED FOR, NOT FOUND |
| SPIKE | 1,753,445.78 | 2,681,616.58 | 17.97 | IRON SPIKE |

MLLW ELEVATION AND ELLIPSOID HEIGHT COMPARISON

| | 2001 | | 2007 | |
|---|---|---|---|---|
| STATION | MLLW | EHT | MLLW | EHT |
| DE-1 2001 | 20.78' | – | 20.80' | 13.10' |
| DE-3 2007 | – | – | 18.30' | 10.59' |
| D-4 1977 | 16.05' | – | 16.05' | 8.32' |

VOLUME COMPUTATIONS

| Project Depth -5' MLLW | CUBIC YARDS |
|---|---|
| MINIMUM PAY LINE (-5' MLLW) | 174 |
| Between MINIMUM PAY LINE and MAXIMUM PAY LINE (-6' MLLW) | 367 |
| VOLUME AVAILABLE ALONG SIDESLOPES (3:1, H:V) | 34 |
| TOTAL | 575 |

PROJECT LIMITS

| CORNER | NORTHING | EASTING | CORNER | NORTHING | EASTING |
|---|---|---|---|---|---|
| PI-12 | 1,754,086.7 | 2,679,694.0 | PI-15 | 1,752,239.3 | 2,682,308.6 |
| PI-13 | 1,753,921.0 | 2,681,828.3 | PI-16 | 1,751,974.7 | 2,682,362.8 |
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☆ NAVIGATION AIDS ☆

| USCG NO. | DESCRIPTION | NORTHING | EASTING |
|---|---|---|---|
| 23305.9 | DAYBEACON 13 – SG ON PILE | 1,753,257.98 | 2,682,183.33 |
| 23305.95 | DAYBEACON 14 – TR ON PILE | 1,753,939.34 | 2,682,093.75 |
| 23306 | DAYBEACON 15 – SG ON PILE | 1,753,729.46 | 2,681,811.14 |
| 23306.1 | DAYBEACON 17 – SG ON PILE | 1,753,865.80 | 2,680,309.76 |

50 0 50 100 150 200
SCALE IN FEET

### SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT I AM PROPERLY REGISTERED AND LICENSED TO PRACTICE LAND SURVEYING IN THE STATE OF ALASKA AND THAT THIS PLAT REPRESENTS A HYDROGRAPHIC SURVEY MADE BY ME OR UNDER MY DIRECT SUPERVISION. THE ELEVATIONS SHOWN HEREON DEPICT THE DEPTHS AS SURVEYED MAY 8-10, 2007, TO THE BEST OF MY KNOWLEDGE AND BELIEF.

KARL D. WOODS, P.L.S. DATE
REGISTRATION NO. LS 10950

STATE OF ALASKA 49TH KARL D. WOODS LS 10950 REGISTERED PROFESSIONAL LAND SURVEYOR

CONTRACTOR TERRA SURVEYS, LLC CONTRACT NO. W911KB-04-D-0006-0016
CITY PALMER STATE ALASKA

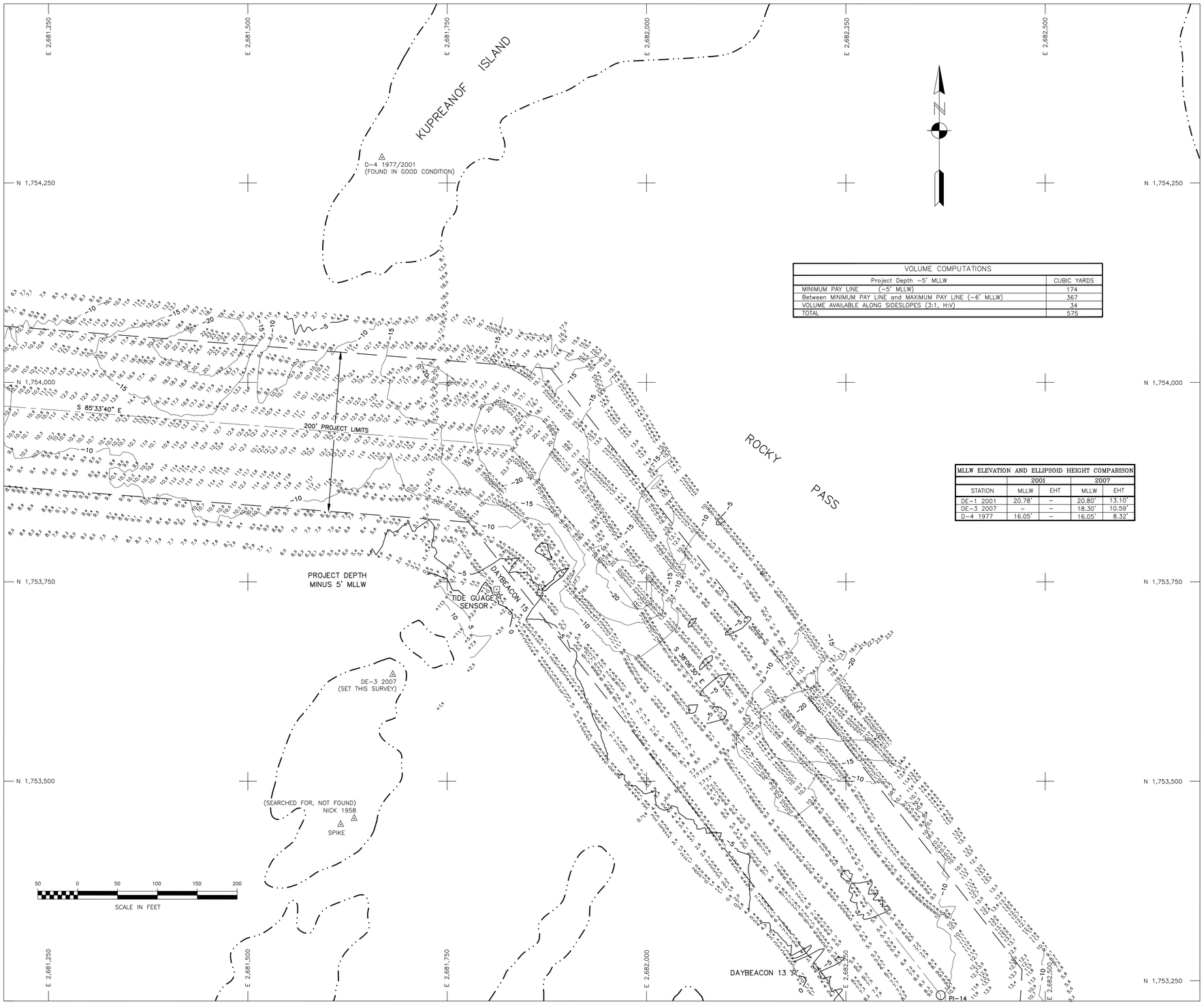
ALASKA DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

SURVEYED: CDK/CRR
DRAWN: LES
CHECKED: KDW
SUBMITTED:

ROCKY PASS, KEKU STRAIT, ALASKA
DEVIL'S ELBOW
MAY 8-10, 2007

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

SURVEY NO. 2475-0
SCALE: 1"= 50'
SHEET 1 OF 3




| VOLUME COMPUTATIONS | |
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| MLLW ELEVATION AND ELLIPSOID HEIGHT COMPARISON | | | | |
|---|---|---|---|---|
| | 2001 | | 2007 | |
| STATION | MLLW | EHT | MLLW | EHT |
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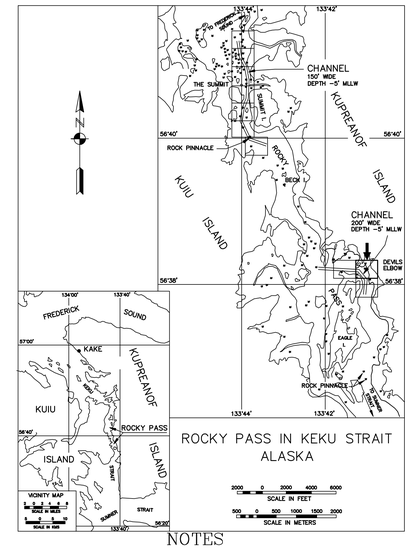


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CONTRACT NO. W911KB-04-D-0006-0016
CONTRACTOR TERRA SURVEYS, LLC
CITY PALMER STATE ALASKA

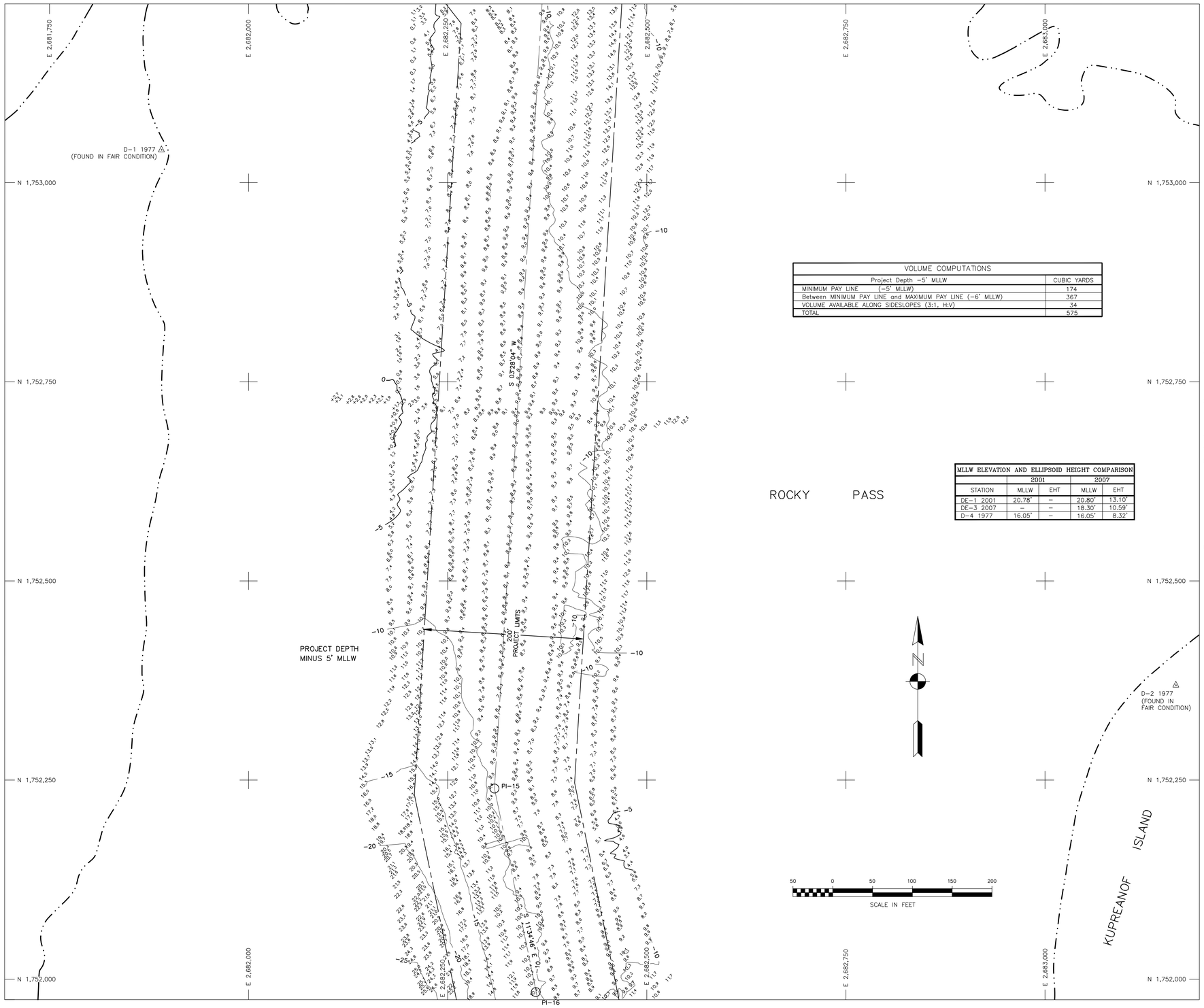
ALASKA DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

SURVEYED: CDK/CRR
DRAWN: LES
CHECKED: KDW
SUBMITTED:

ROCKY PASS, KEKU STRAIT, ALASKA
DEVIL'S ELBOW
MAY 8-10, 2007

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

SURVEY NO. 2475-07
SCALE: 1"= 50'
SHEET 2 OF 3

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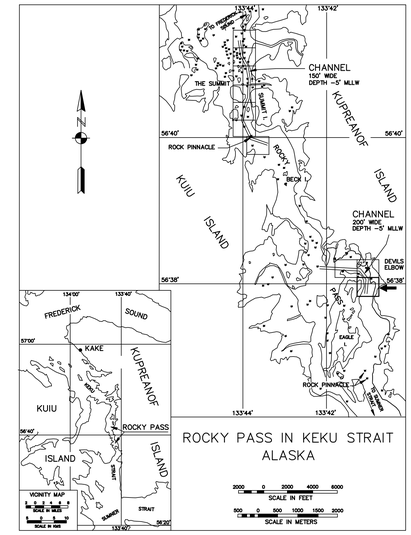


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CITY: PALMER — STATE: ALASKA

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ROCKY PASS, KEKU STRAIT, ALASKA
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MAY 8-10, 2007

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

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SCALE: 1"= 50'

SHEET 3 OF 3