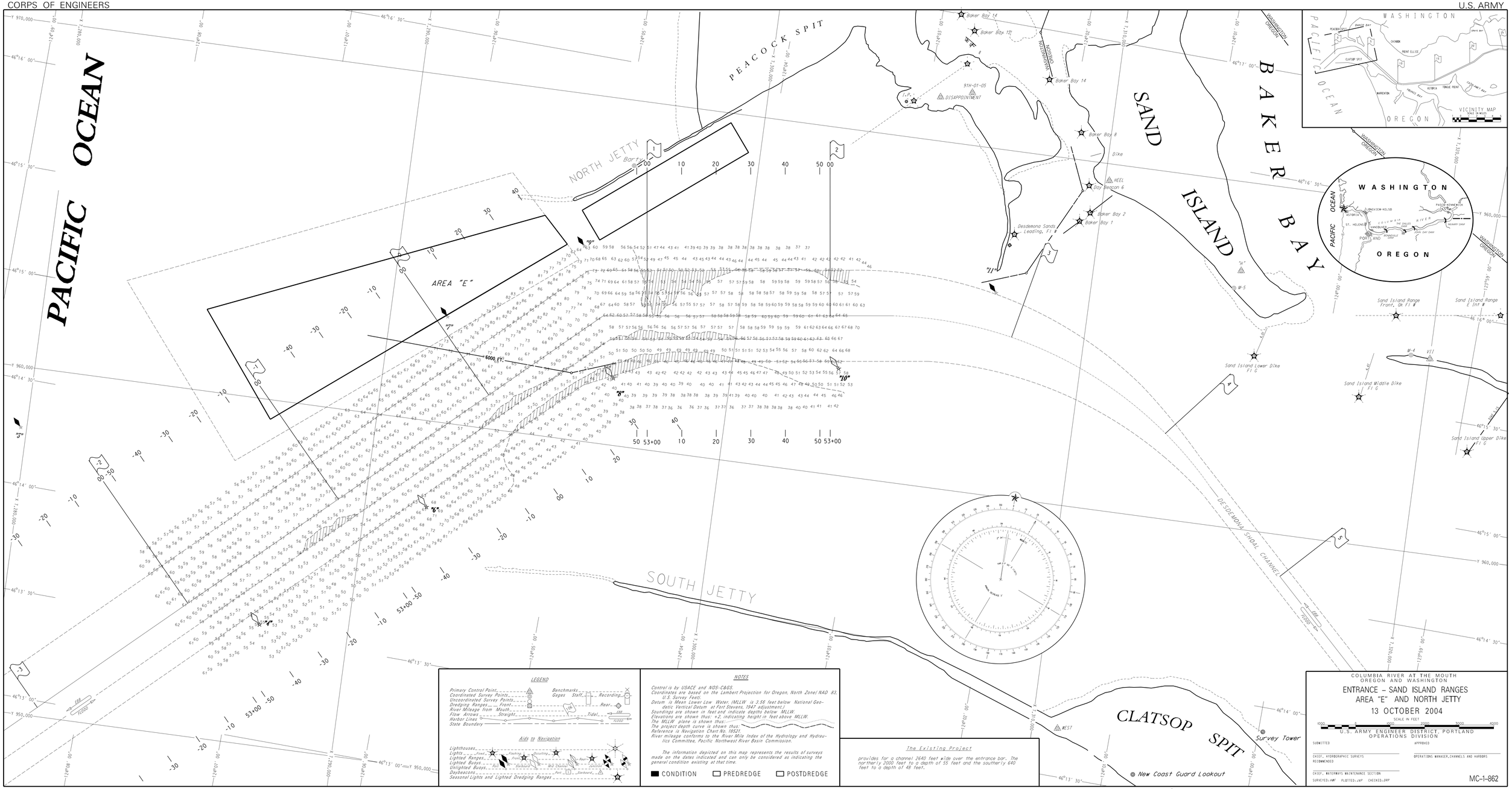

LEGEND

Primary Control Point
Coordinated Survey Points
Uncoordinated Survey Points
Dredging Ranges ..... Front ..... Rear
River Mileage from Mouth
Flow Arrows ..... Straight ..... Tidal
Harbor Lines
State Boundary

Benchmarks
Gages ..... Staff ..... Recording

Aids to Navigation

Lighthouses
Lights ..... Fixed ..... Flashing ..... Occulting
Lighted Ranges
Lighted Buoys ..... Port ..... Starboard ..... Mid Channel ..... Junction
Unlighted Buoys
Daybeacons ..... Port ..... Starboard
Seasonal Lights and Lighted Dredging Ranges

NOTES

Control is by USACE and NOS-C&GS.
Coordinates are based on the Lambert Projection for Oregon, North Zone(NAD 83, U.S. Survey Feet).
Datum is Mean Lower Low Water. (MLLW is 3.56 feet below National Geodetic Vertical Datum at Fort Stevens, 1947 adjustment.)
Soundings are shown in feet and indicate depths below MLLW.
Elevations are shown thus: +2, indicating height in feet above MLLW.
The MLLW plane is shown thus:
The project depth curve is shown thus:
Reference is Navigation Chart No. 18521.
River mileage conforms to the River Mile Index of the Hydrology and Hydraulics Committee, Pacific Northwest River Basin Commission.

The information depicted on this map represents the results of surveys made on the dates indicated and can only be considered as indicating the general condition existing at that time.

■ CONDITION □ PREDREDGE □ POSTDREDGE

The Existing Project

provides for a channel 2640 feet wide over the entrance bar. The northerly 2000 feet to a depth of 55 feet and the southerly 640 feet to a depth of 48 feet.

COLUMBIA RIVER AT THE MOUTH
OREGON AND WASHINGTON

ENTRANCE – SAND ISLAND RANGES
AREA "E" AND NORTH JETTY
13 OCTOBER 2004

SCALE IN FEET

U.S. ARMY ENGINEER DISTRICT, PORTLAND
OPERATIONS DIVISION

SUBMITTED
CHIEF, HYDROGRAPHIC SURVEYS
RECOMMENDED
CHIEF, WATERWAYS MAINTENANCE SECTION
SURVEYED:KWF PLOTTED:JAP CHECKED:DRP

APPROVED
OPERATIONS MANAGER,CHANNELS AND HARBORS

MC-1-862