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Pacific Southwest Region
HOLMES & NARVER, Inc.
ENGINEERS-CONSTRUCTORS

405809

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TO: H. L. Dietze, Resident Engineer
via J. E. Harvey, Head-Test- JOB: 881
Inspection Department
FROM: H. L. Jones, Engineer RE: Building 419, Gantry Crane, Load Test of

DATE: 17 December 1953

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On this date, load-lift tests were conducted on the electric Gantry cranes located in Building 419 - Barge slip, in the Assembly Area. This crane is equipped with two hoists; a 25 ton main hoist, and a 5 ton auxiliary hoist.

Maximum overload of the main hoist is 20% of the nominal load or approximately 30 tons. The test load of 26 tons was the same as that agreed upon for the test of the 25 ton bridge crane in Building 411.

The test load was a Caterpillar D-8 Diesel tractor equipped with bulldozer blade and power unit and serviced for operation for a total weight of 46,993 pounds. Two boxes of lead bricks at 2,024 pounds each, and cable slings at 350 pounds were added for a total test load of 51,365 pounds.

Procedure: D-8 Caterpillar was walked under crane. Cable slings were placed front and rear. Load was then lifted about three feet from the ground to test holding brakes. Bridge travel with load was made for ten feet in each direction. Trolley travel with load was made for ten feet in each direction. Final test was bridge and trolley together while load was lifted to about three feet from ground.

Mr. Robert Newman, of T.G. 7.1, approved this main hoist test and waived the maximum lift to operate the limit switch.

The five ton auxiliary test load was made with six boxes of lead bricks at 2,024 pounds each, for a total load of 12,144 pounds. Lift was made to maximum height in order to operate the limit switch. Bridge and trolley travel was not made with this lift.

Crane operation was by Mr. Flaska, Field Representative, of the Crane Hoist Engineering Corporation of Los Angeles, California. Crane load and rigging were furnished by Mr. Grant Bartell, Mech. Superintendent. Official observers were Mr. R. Newman of T.G. 7.1 and Mr. Robert Carl, Resident Manager of H&N.

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/s/ H. L. Jones

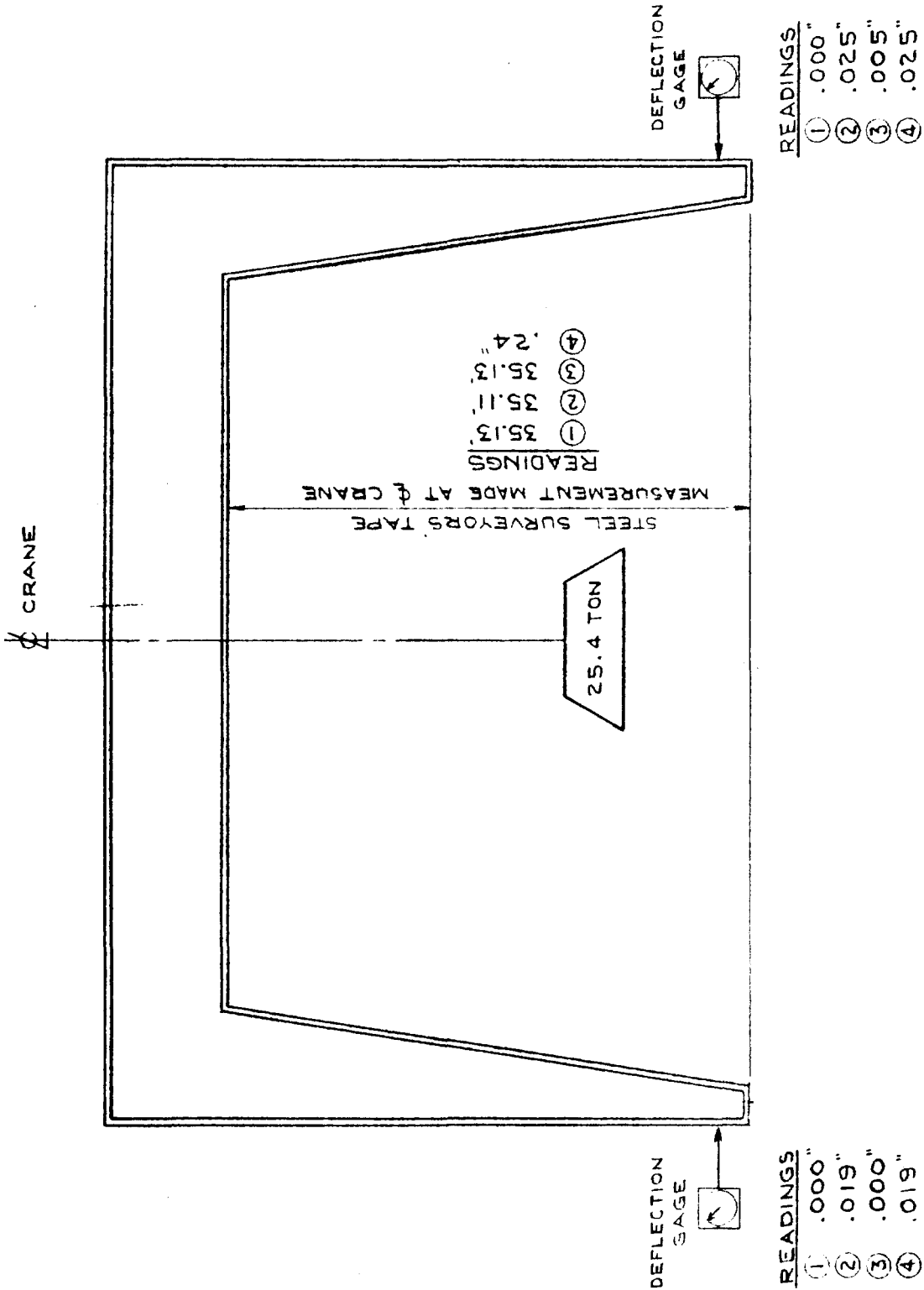
/s/ Ryre Bell

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DEFINITION OF READINGS

- ① INDICATED READING BEFORE APPLICATION OF LOAD
- ② INDICATED READING DURING APPLICATION OF LOAD
- ③ INDICATED READING AFTER REMOVAL OF APPLIED LOAD
- ④ MAXIMUM INDICATED DEFLECTION