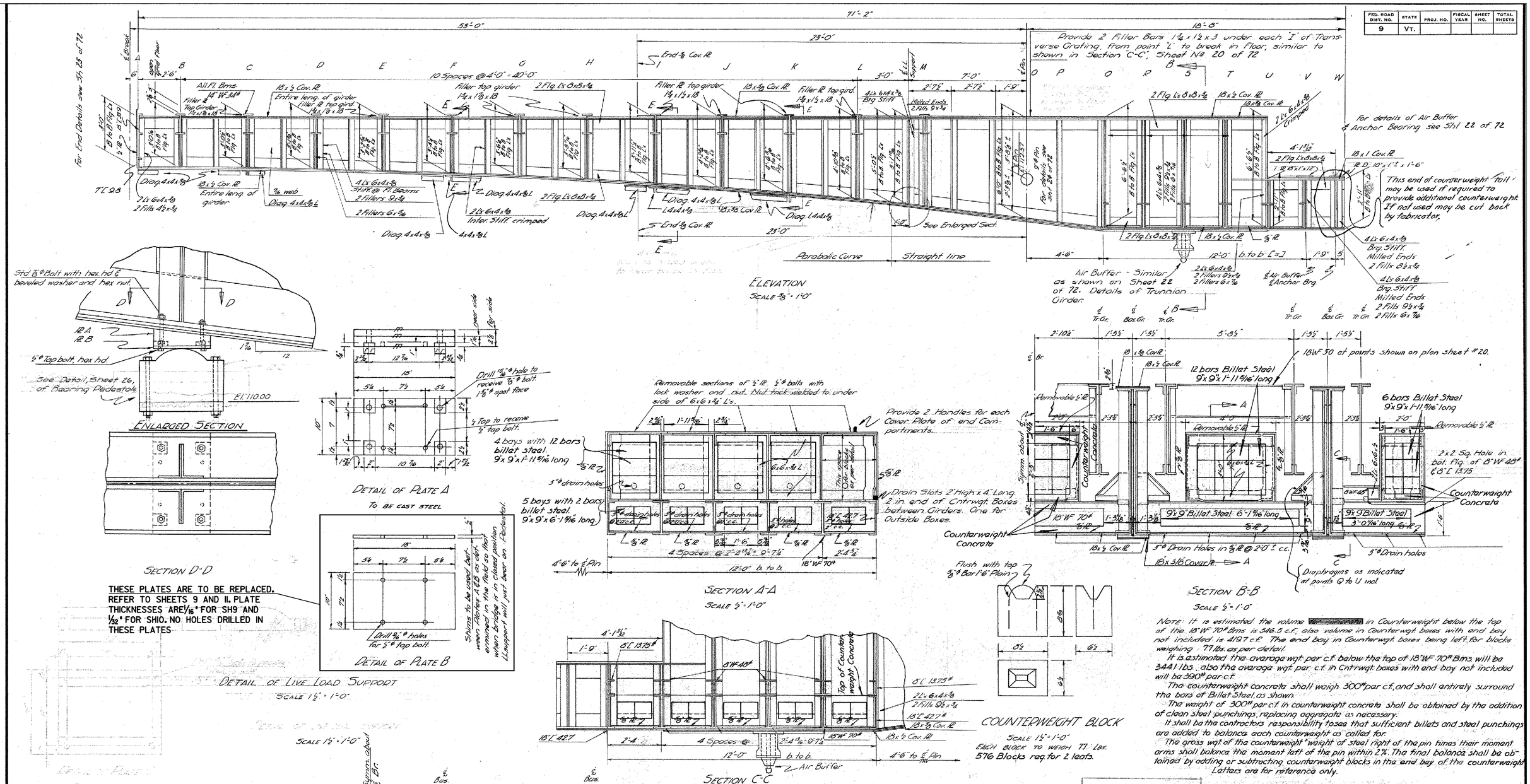
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
9	VT.				



NOTE: It is estimated the volume [redacted] in Counterweight below the top of the 18"WF 70# Bms is 546.5 c.f. also volume in Counterwgt boxes with end bay not included is 419.7 c.f. The end bay in Counterwgt boxes being left for blocks weighing 77 lbs. as per detail.

It is estimated the average wgt per c.f. below the top of 18"WF 70# Bms will be 3441 lbs. also the average wgt per c.f. in Cntrwgt boxes with end bay not included will be 390# per c.f.

The counterweight concrete shall weigh 300# per c.f. and shall entirely surround the bars of Billet Steel, as shown.

The weight of 300# per c.f. in counterweight concrete shall be obtained by the addition of clean steel punchings, replacing aggregate as necessary.

It shall be the contractors responsibility to see that sufficient billets and steel punchings are added to balance each counterweight as called for.

The gross wgt of the counterweight * weight of steel right of the pin times their moment arms shall balance the moment left of the pin within 2%. The final balance shall be obtained by adding or subtracting counterweight blocks in the end bay of the counterweight. Letters are for reference only.

See Steel Details

NOTES FOR COUNTERWGT BOXES

Boxes to be shop assembled and matched marked, unless shipped to job as complete boxes.

Inside surfaces which will be in contact with concrete are to be unpainted, and free from oil, grease, rust, etc.

While being filled with concrete all drain holes to be plugged with with wooden discs, flush with the inside surface. These discs to be removed when concrete has set.

After concrete has set in upper boxes, all steel surfaces which will be in contact with the covers, and the inside of the covers, also all exposed concrete outside the boxes, shall receive two coats of an approved asphalt paint. Then the covers shall be placed while the paint is still wet.

June 1, 1950 ~ Revised in accordance with B.P.R. letter of May 24, 1950

DETAILS OF BASCULE GIRDER GRAND ISLE - NO. HERO

SHIM PLATE DETAIL

ESTIMATED QUANTITIES

Item	Bar
Steel Superstructure	1L
5" Open Steel Grid Floor	
2" Swk Steel Grid Floor	
Concrete, Class A	
Concrete, Class B (Cntrwght)	
Machinery (Air Buffer)	1L
Steel Punchings	1
9"x9" Billet Steel	1

PROJECT NAME: NORTH HERO-GRANDE ISLE
PROJECT NUMBER: BHF 028-1(21)

FILE NAME: structure\s92b284cleandsca
PROJECT LEADER: M. EVANS-MONGEON
DESIGNED BY: S. SCRIBNER
PLOT DATE: 18-OCT-2007
DRAWN BY: L. DUQUETTE
CHECKED BY: S. SCRIBNER
SHEET 21 OF 41