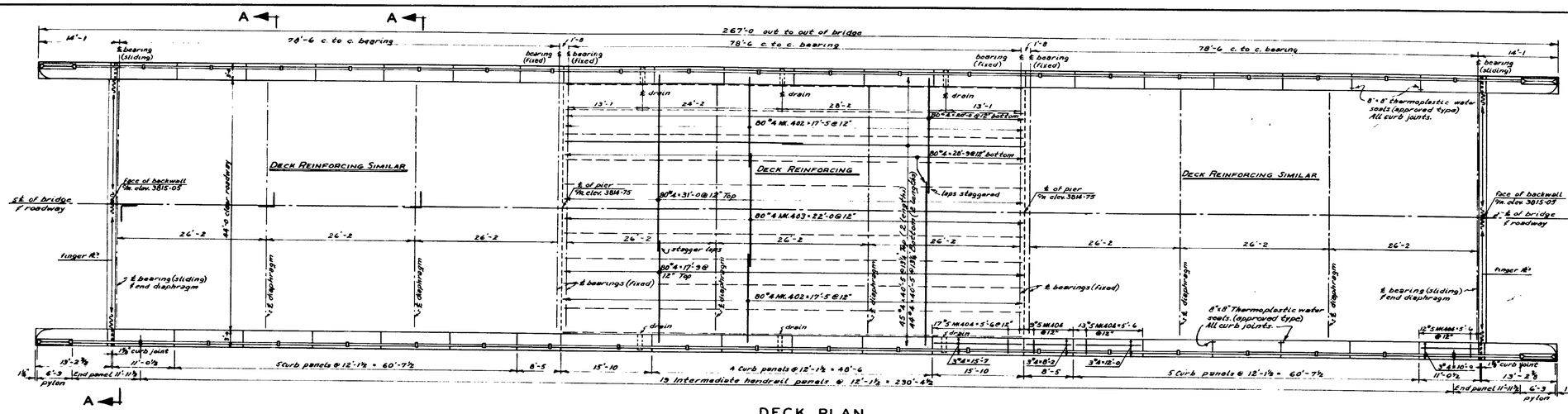
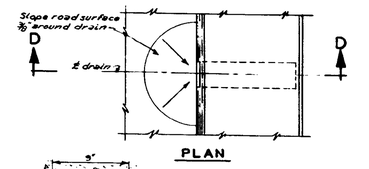
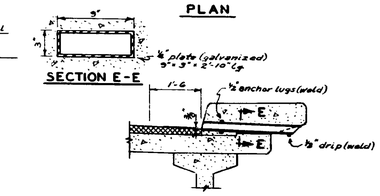
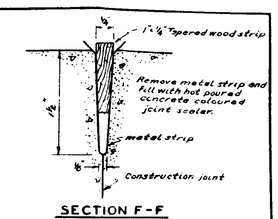


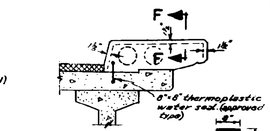
DECK PLAN
Scale 1" = 10'-0



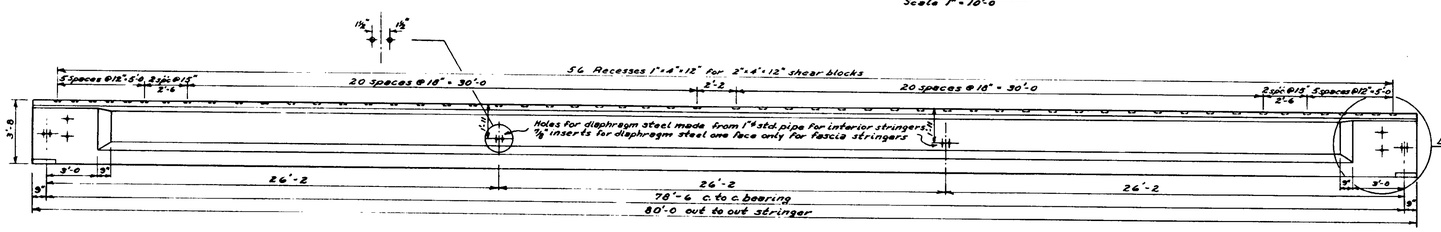


DRAIN DETAIL
Scale 1½" = 1'-0

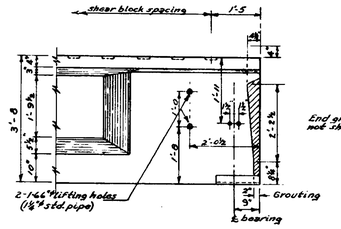




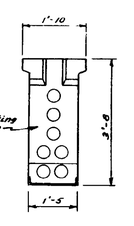
CURB JOINT DETAIL
Scale 1½" = 1'-0



STRINGER ELEVATION
Scale ½" = 1'-0

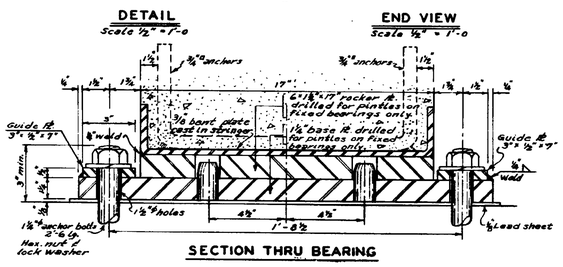


DETAIL
Scale ½" = 1'-0



APPROVED DESIGN

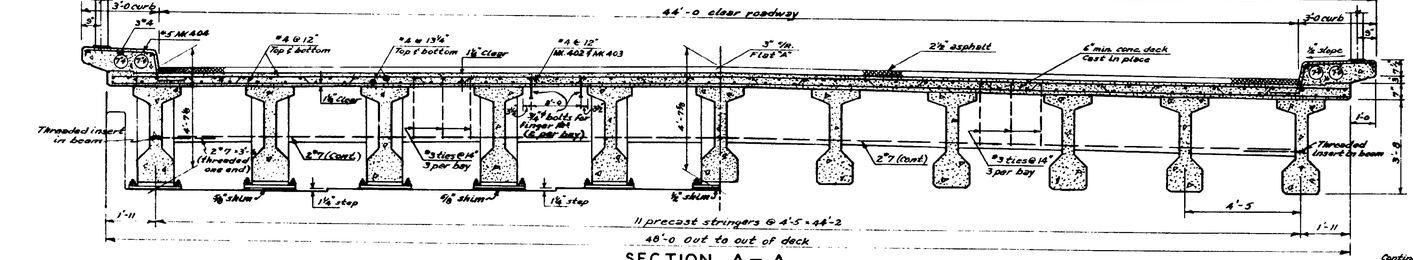
1. 18 strand - FREYSSINET type cable U.T.S. 239,000 p.s.i. Total N° of strands 7 per stringer. (18 wire ϕ 0·196")
2. (a) Precast concrete strength 5,000"ϕ 28 days. (b) Cast in place 6" deck 5,000"ϕ 28 days.
3. Distribution of loads A.A.S.H.O. specs. 1953.
4. Reinforcing - Intermediate grade deformed bars F_s = 40,000 p.s.i.
5. Ultimate load 2·22 (D.L. + L.L.) or D.L. + 3·72 L.L. (interior stringers) Capacity = 3,080'k



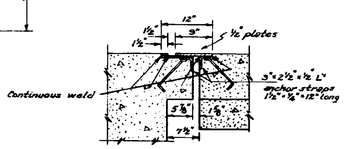
Design Liveload
Loading H20-S16-44

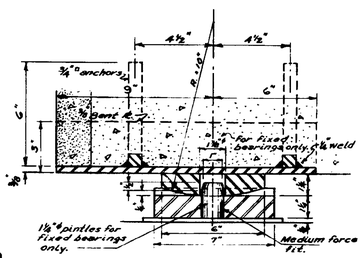
Reference
Design criteria for prestressed concrete (post tensioning) Bureau of Public Roads, Dept. of Commerce, Washington, 25, D.C., U.S.A.

Alternative 'C' designed by STRUCTURAL ENGINEERING SERVICES LTD. For PRECAST CONCRETE LTD. CALGARY
Dwg. "5C - as per dwgs 267-1 & 267-2 submitted for approval to the engineer by the contractor.

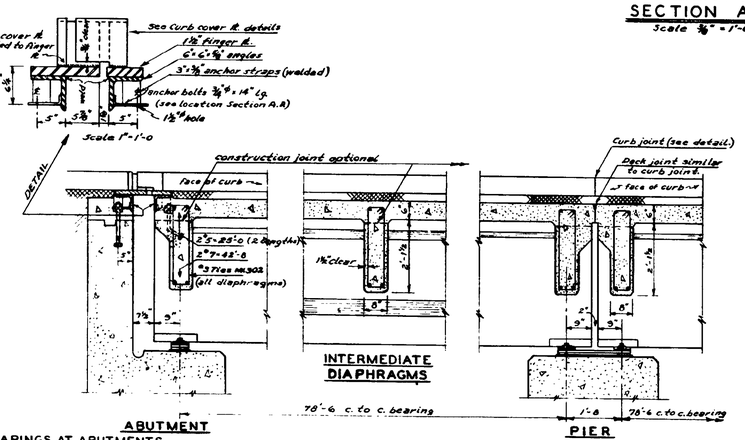


SECTION A - A
Scale ⅜" = 1'-0



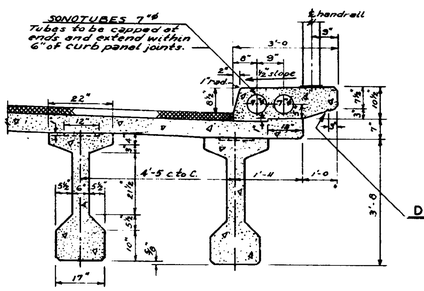


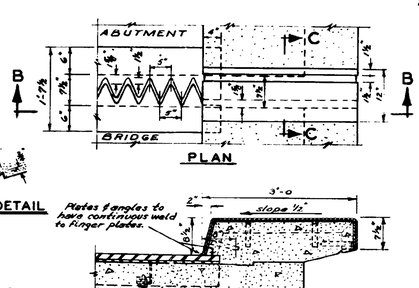
BEARING PLATE DETAIL
Scale 3" = 1'-0



ABUTMENT
BEARINGS AT ABUTMENTS
1 - Rocker ℜ 6" × 1⅛" × 17" Rad. = 10"
1 - Bed ℜ 7" × 1⅛" × 24"
2 - Guide ℜ's 3" × ½" × 7"
1 - Lead sheet 8" × ⅛" × 25" (22 bearing units req'd. thus)

SECTION AT ℄ BRIDGE
Scale ½" = 1'-0





CURB COVER PLATE
Scale ⅜" = 1'-0

BEARINGS AT PIERS
2 - Rocker ℜ's 6" × 1⅛" × 17" Rad. = 10"
1 - Bed ℜ 24" × 1¼" × 27"
4 - Guide ℜ's 3" × ½" × 7"
1 - Lead sheet 25" × ⅛" × 28"
4 - Pintles 1⅛"ϕ × 2 (fixed bearings) (22 bearing units reqd thus)

REVISIONS	DATE

DEPARTMENT OF PUBLIC WORKS
CANADA
DEVELOPMENT ENGINEERING BRANCH
STRUCTURES DIVISION

OTTERTAIL RIVER BRIDGE
YOHO NATIONAL PARK B.C. M.12·9

DECK PRESTRESSED CONCRETE ALTERNATIVE 'C'

JOB SUPERVISOR J. C. BEAUCHAMP	DESIGN
APPROVED DATE 14/2/57	DRAWN D. A. S.
W. S. Thompson. CHIEF-STRUCTURES DIVISION	CHECKED J. C. B.
	PROJECT NO. NP 10-21-34
APPROVED DATE 14-2-57	
E. W. Leman. CHIEF ENGINEER	SHEET 5C OF 6

X30