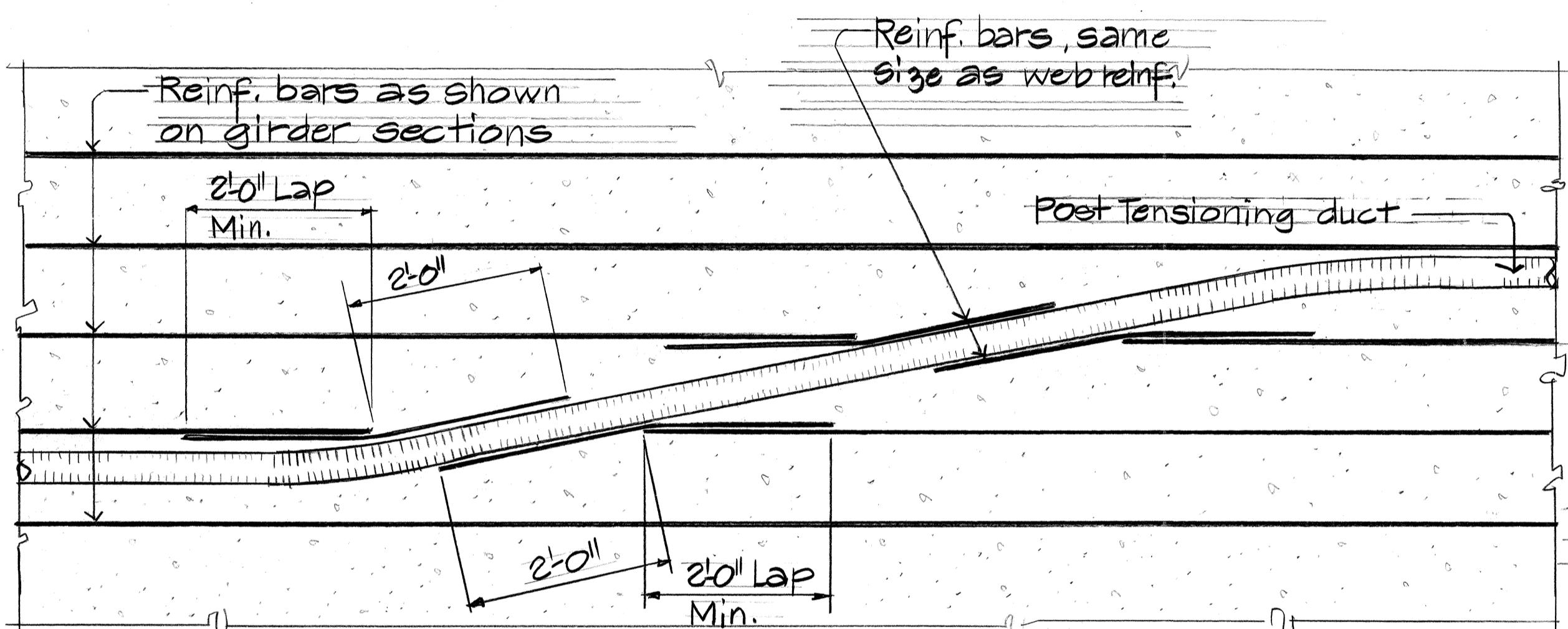


PLAN - SECTION

SECTION "X-X"

TYPICAL STIRRUP REINFORCING AT FLARE OF GIRDER STEMScale = $\frac{1}{2}$ " = 1'-0"TYPICAL ADJUSTMENT OF WEB REINF. CONFLICTING WITH DUCTS

N.T.S.

ORIGINAL	STUDYED	PLOTTED BY	DATE
PLAN	DRAWN BY		
NOTE BOOK	TRACED BY		
QUANTITY BY	DESIGNED BY		
CHECKED BY			
No.			

GENERAL POST-TENSIONING NOTES

- I. All work shall conform to the Standard Specifications and Special Provisions.
- II. Stressing Sequence:
 - A. No more than $\frac{1}{2}$ of the tendons in one girder stem shall be stressed before an equal number is stressed in an adjacent girder stem.
 - B. At no time during the stressing operations shall more than $\frac{1}{6}$ of the total post tensioning force be eccentric about the centerline of the superstructure.
 - C. Tendons shall be stressed from two ends. The two ends need not be stressed simultaneously.
- III. During stressing operations no person shall be directly behind either end of the tendon.
- IV. The working force indicated on the drawings is based on $\mu = 0.25$, $K = 0.0002$, initial jacking force based on 0.70 f' and loss of prestress other than friction equal to 33,000 psi. Maximum anchor set allowed 5/8".
- V. Shop drawings showing complete details of tendon profiles, tendon anchorages, and documented friction and wobble coefficients shall be submitted to the Engineer for approval.
- VI. Calculations indicating final post-tensioning force obtained, specified losses and stressing sequence shall be submitted to the Engineer for approval.
- VII. Provisions to vent the post tensioning ducts within 3' of the high point of the duct shall be provided.
- VIII. Should post tensioning ducts require placement above horizontal construction joints in girder webs, extra measures shall be taken to prevent damage and intrusion of concrete or water into ducts during construction.
- IX. After post tensioning work is completed, a concrete cap shall be placed over the post tensioning anchorages. Coat all surfaces, including post-tensioning hardware in contact with concrete cap, with a two component epoxy. Just before

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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new concrete is placed against post tensioning anchor plates, apply new coat of epoxy to increase bond with concrete. This work shall be incidental to Post Tensioning Operations in Hanamaulu Viaduct.

19. No tensioning or grouting shall be performed in the absence of the Engineer.

20. Ducts shall be placed against girder stirrups so as to obtain maximum radius of curvature for each tendon.

DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
<u>GENERAL POST TENSIONING NOTES AND DETAILS</u>	
HANAMAULU VIADUCT HANAMAULU-AHUKINI CUTOFF ROAD Ahukini Road to Kauai Hardwoods PROJECT NO. F-051-1(8)	
SCALE: AS SHOWN DATE: JULY 1985	
SHEET NO. S-23 OF S-39 SHEETS	



THIS WORK WAS PREPARED BY ME OR
UNDER MY SUPERVISION.
Myron Okubo
Signature