

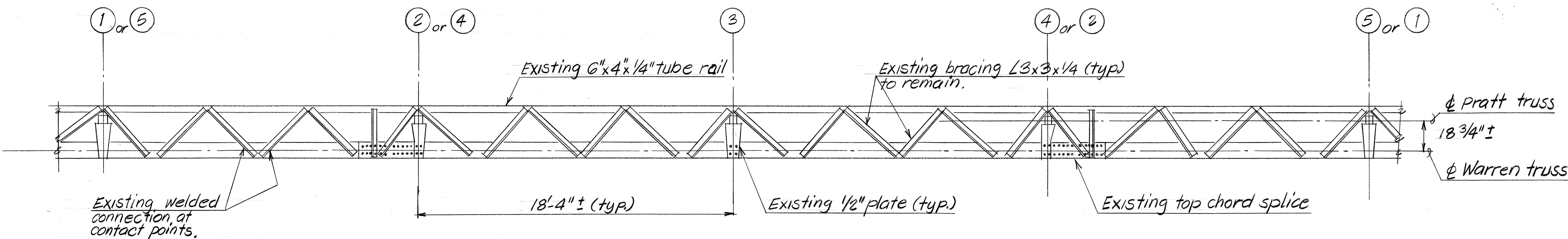
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56D-01-87M	1988	5	9

SEQUENCE of CONSTRUCTION

1. Select either upstream or downstream trusses for repair and divert traffic. (See sheet No. 3)
2. Install, under traffic, the reinforcing plates and angles for the Warren Trusses, with the bolts in the finger-tight position.
3. Then close the bridge to traffic and tighten the bolts to the specified tension.
4. Complete steel repairs to the adjacent Pratt Truss.
5. Starting from panel point ③, carefully separate the said Pratt Truss from the floorbeams at all panel points.
6. Repeat steps (1) to (5) for the other two trusses.
7. Adjust post tensioning rods under the floorbeams. (Bridge to be closed to traffic during the tensioning process).
8. Remove and replace the deck and stringers in stages. (Night closure of bridge will be permitted.) Wearing surface to be added after completion of deck replacement. (See sheet No. 7 & special provisions.)

LEGEND

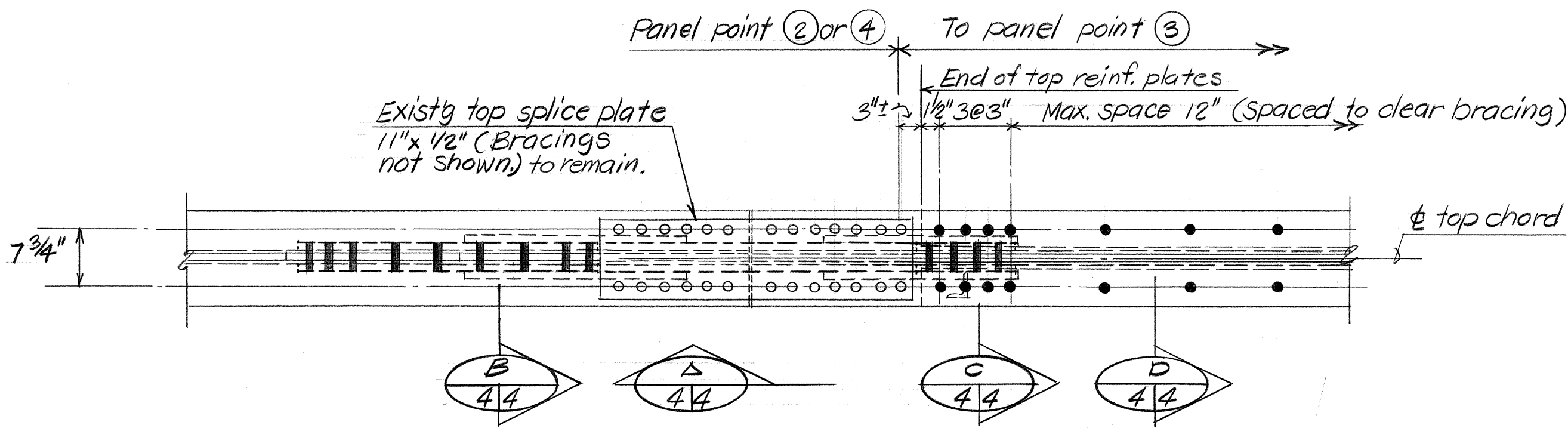
- New 7/8" ϕ , A325 bolt in new hole.
- Existg H.S. bolt to remain.
- ⊗ Existg 7/8" ϕ H.S. bolt to be removed and replaced with new 7/8" ϕ , A325 bolt connecting new steel to old steel. New holes to be drilled in new steel.



EXISTING TOP CHORD BRACING PLAN

SC: 1/4" = 1'-0"

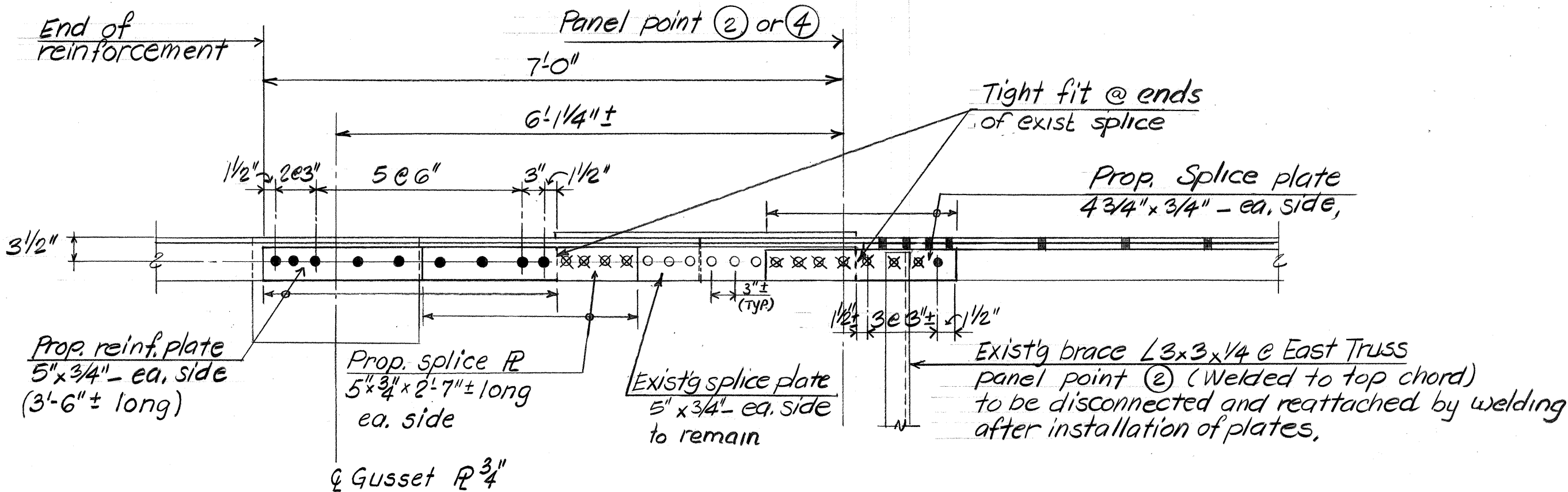
4
2 4



TOP CHORD PARTIAL PLAN

SC: 3/4" = 1'-0"

7
2 4

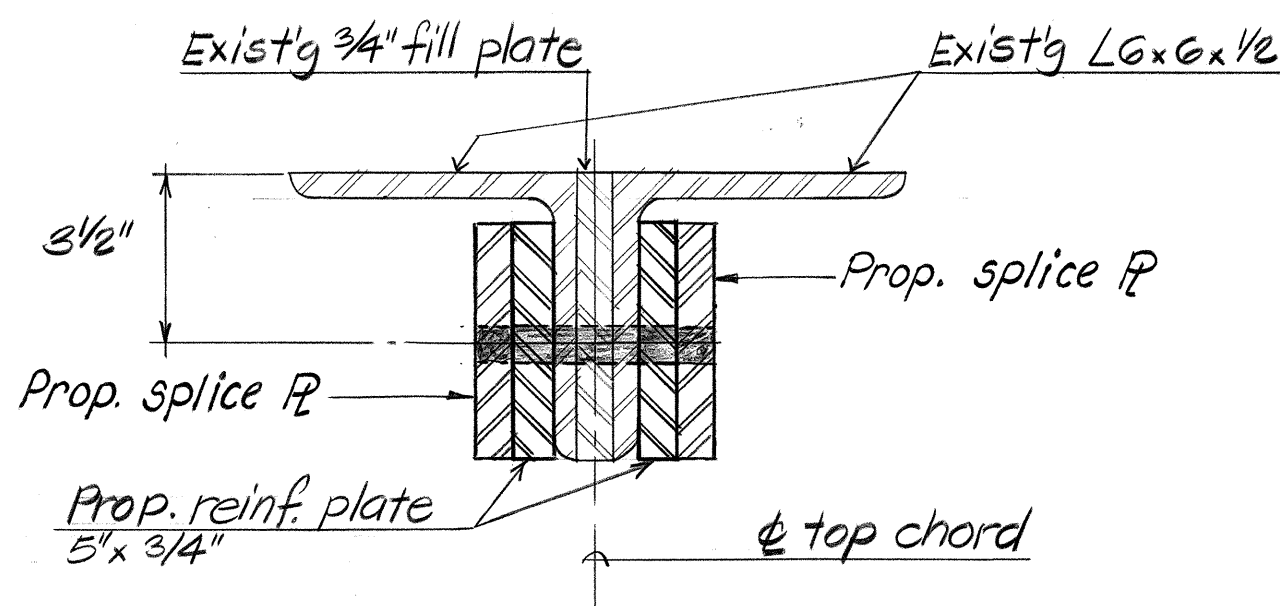


ELEVATION

3/4" = 1'-0"

A
4 4

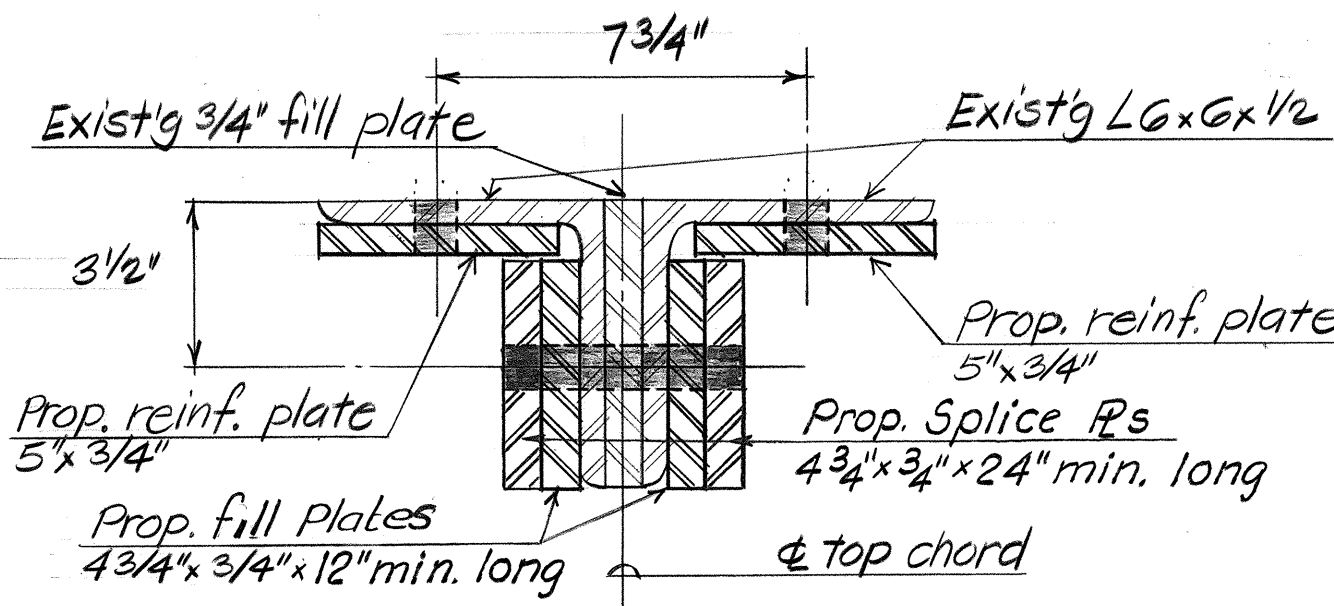
Note: Prior to the preparation of shop drawings the Contractor must field verify all dimensions and arrangement of existing details.



SECTION B

SC: 3" = 1'-0"

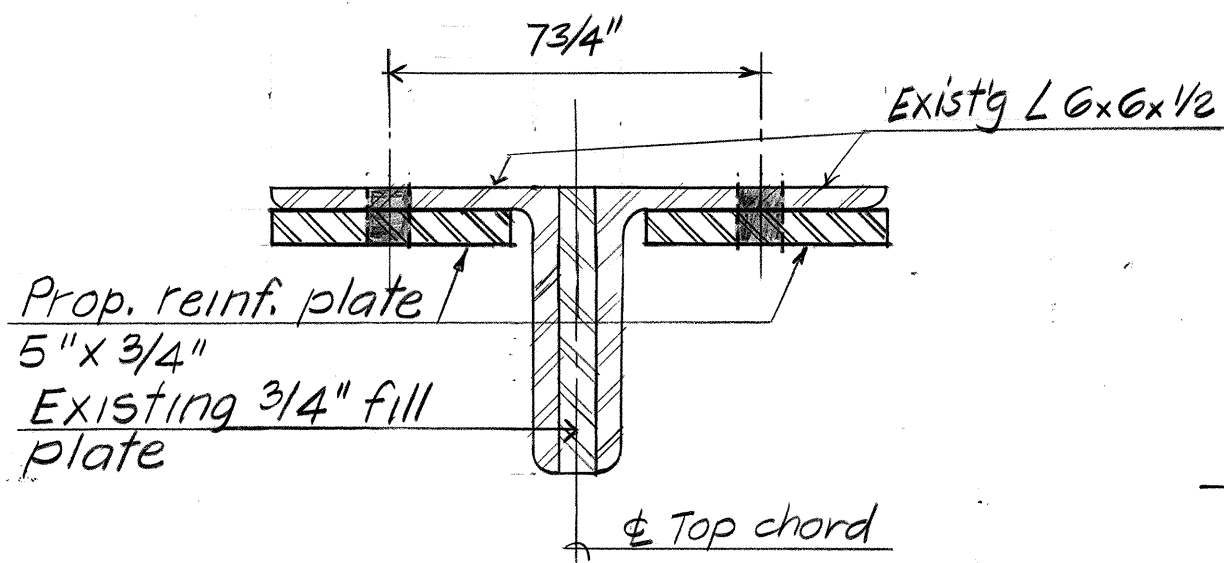
B
4 4



SECTION C

SC: 3" = 1'-0"

C
4 4

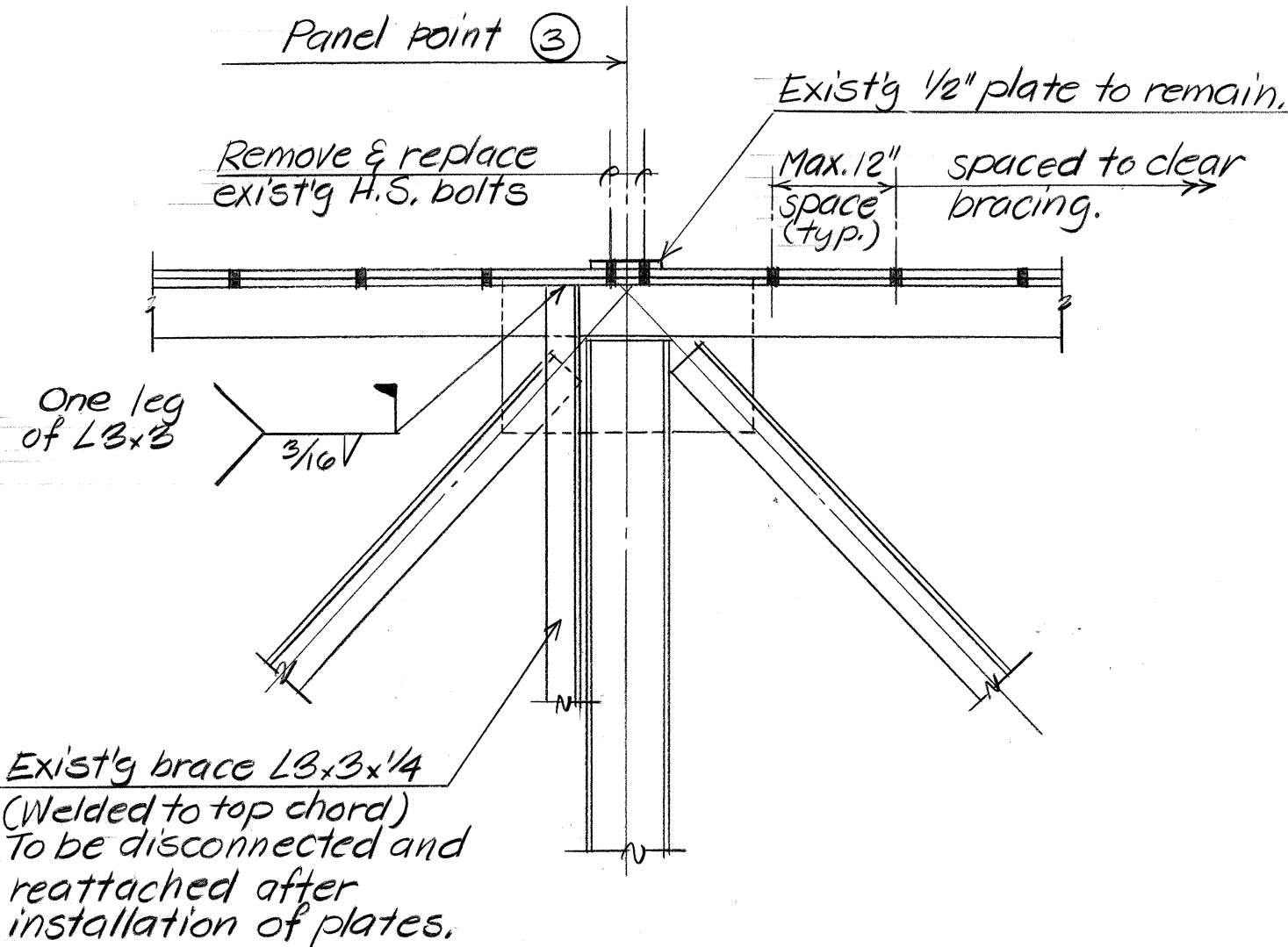


SECTION D

SC: 3" = 1'-0"

D
4 4

(TYPICAL TOP CHORD REINFORCEMENT)



ELEVATION AT PANEL POINT 3

SC: 3/4" = 1'-0"

10
2 4

THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION

ABBA G. LICHTENSTEIN, P.E.
HAWAII LICENSE NO. 6112

A.G. LICHTENSTEIN & ASSOC. INC.
CONSULTING ENGINEERS
FAIR LAWN, NEW JERSEY
HONOLULU, HAWAII

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

KUHIO HIGHWAY

REHABILITATION OF THE HANAIEI BRIDGE

STRENGTHENING OF WARREN

TRUSSES TOP CHORD

PROJECT NO. 56D-01-87M

SCALE: AS SHOWN

DATE: MAY, 1988

SHEET NO. 4 OF 8 SHEETS