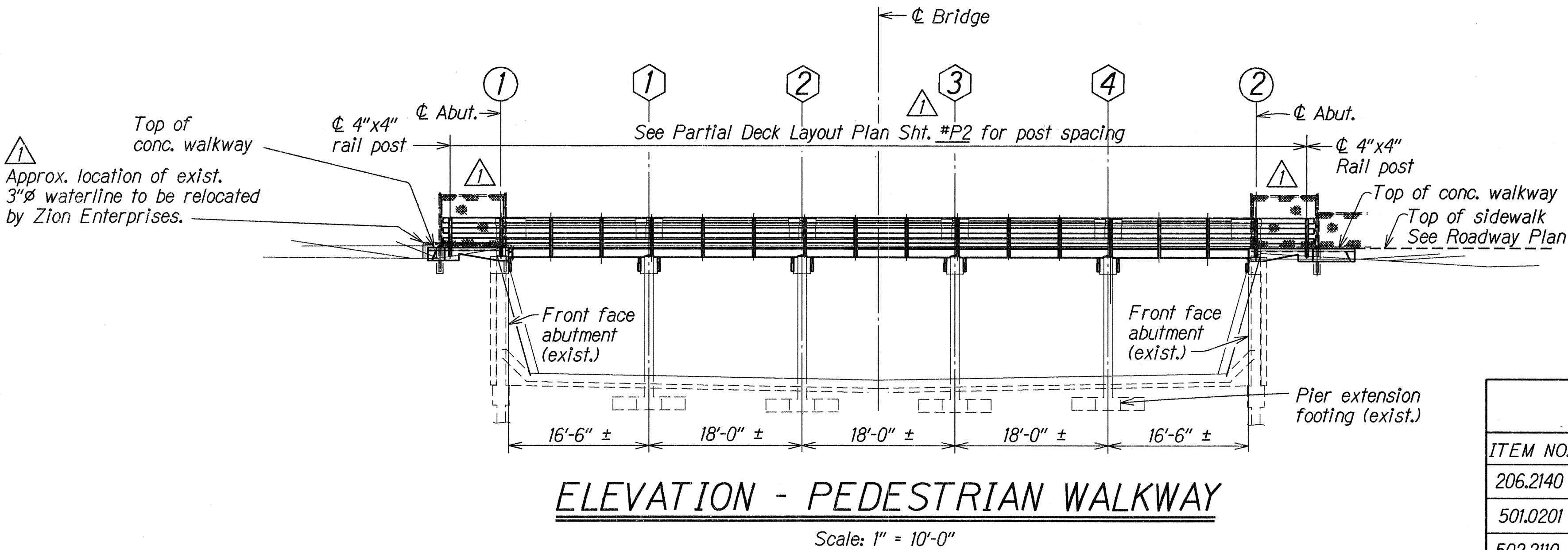
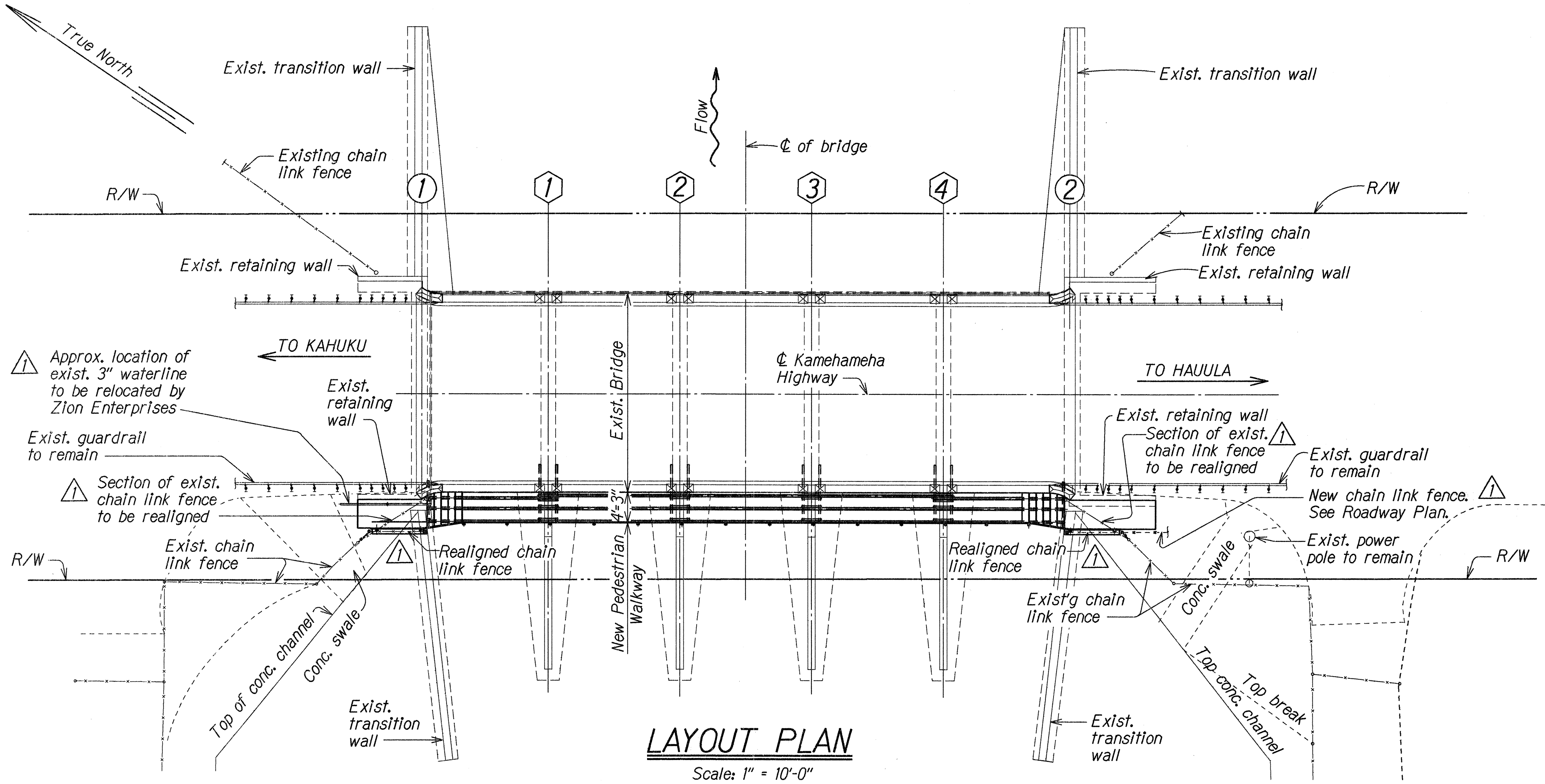


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83C-02-91M	1991	ADD. 5	9



ESTIMATED QUANTITIES			
ITEM NO.	ITEM	UNIT	QUANTITIES
206.2140	Structure Excavation	Cu. Yd.	1.4 c.y.
501.0201	Structural Steel	(Lump Sum)	2570 lbs.
502.2110	Treated Timber (Including Carriage Bolts & Nails)	(Lump Sum)	2.5 MFBM
503.0150	Class A Concrete	(Lump Sum)	3.7 c.y.
520.1096	Adhesive Anchors & Drilled Holes	Each	120 ea.

GENERAL STRUCTURAL NOTES

DESIGN SPECIFICATIONS:
AASHTO Standard Specification for Highway Bridges (14th Edition) with subsequent Interim Specifications for Bridges.

DESIGN LOADS:
85 lbs. per square foot.

MATERIALS:
1. Concrete for reinforced walkway - Class A.
2. Structural Timber and Lumber - See Special Provisions, Section 520 Wooden Footbridge.
3. Structural Steel - ASTM A-36.

CONSTRUCTION METHODS:
1. Refer to Standard Specification for Road and Bridge Construction, (Hawaii 1985 Edition) and Special Provisions.
2. All bolts, anchor bolts, nuts and washers shall be hot-dip galvanized according to ASTM A153.
3. All structural steel shapes and plates shall be hot-dip galvanized after fabrication.
4. Except as noted otherwise, all vertical dimensions are measured plumb.
5. Welding --- See Bridge Welding Code as Amended - ANSI/AASHTO/AWS D1.5-88.
6. Concrete walkway --- See Sub-Section 608.03, Construction Requirements of Standard Specification.
7. The Contractor shall be solely responsible for the protection of adjacent property, utilities, existing and new structures from damage due to construction and shall repair any damage at his own expense to the satisfaction of the Engineer. He shall conduct his work in such a manner and provide temporary shoring or other measures as may be necessary to insure the safety of all concerned.
8. Large impacting or vibratory type of equipment will not be permitted in the removal operation, nor for drilling of holes.
9. Small vibratory tools, approved by the Engineer, will be permitted for the drilling of holes for anchor bolts.

GENERAL:
1. Refer to Standard Plans for additional details and notes not covered by details and typical drawings.
2. All items noted incidental will not be paid for separately.
3. The Contractor shall verify all grades and dimensions before commencing with any work.
4. The Contractor shall verify the details of the existing structure and dimensions for the new walkway shown on the plans before commencing with any work.
5. The Contractor shall verify the locations of all existing utility lines near the bridge or structures and notify their respective owners before commencing with any work.
6. Dress approach and sides of concrete walkway as required and as directed by the Engineer.

SYMBOL
Sht. no. section is cut or detail location
Detail or section designation
Sht. no. detail is drawn on.

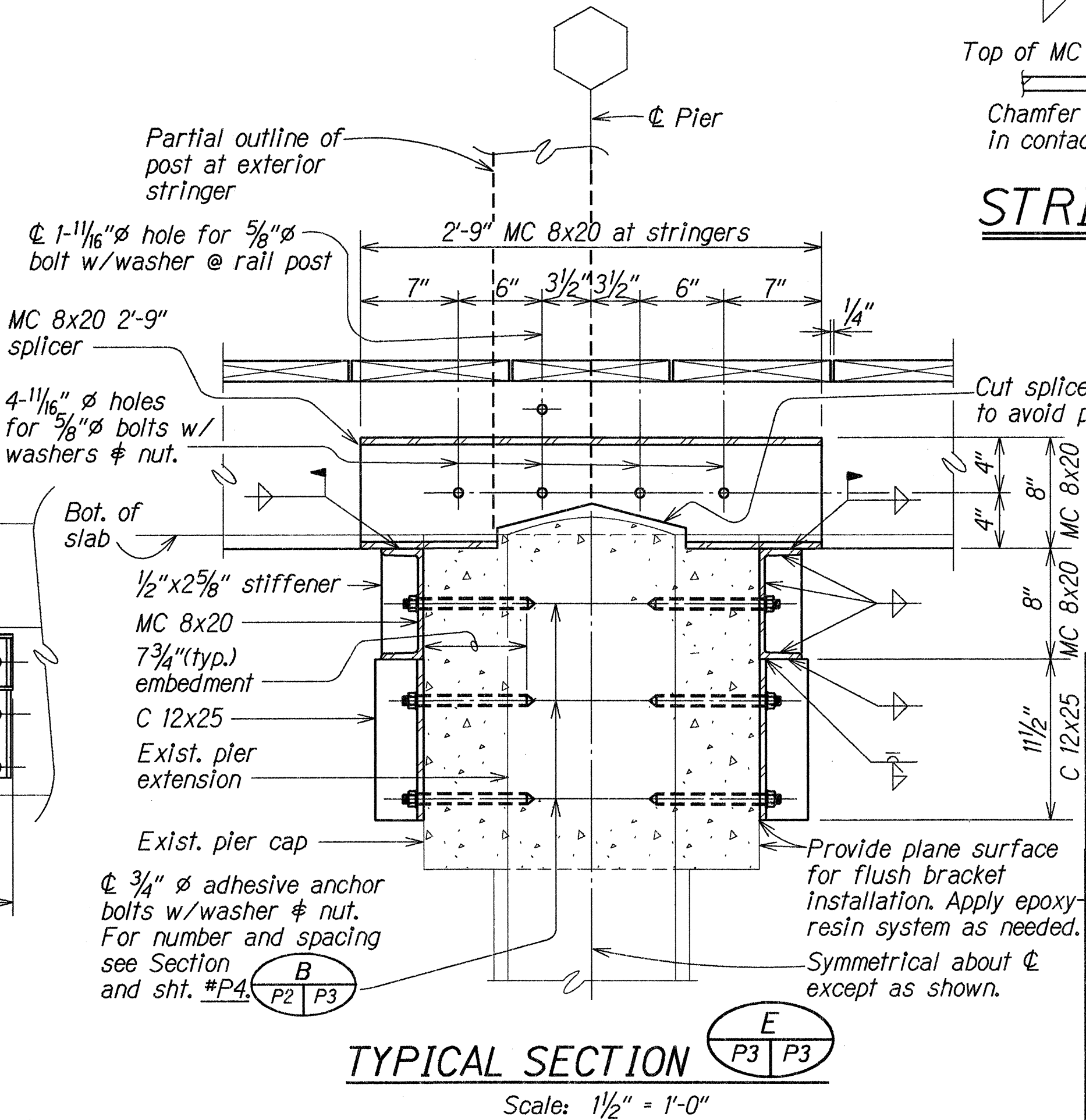
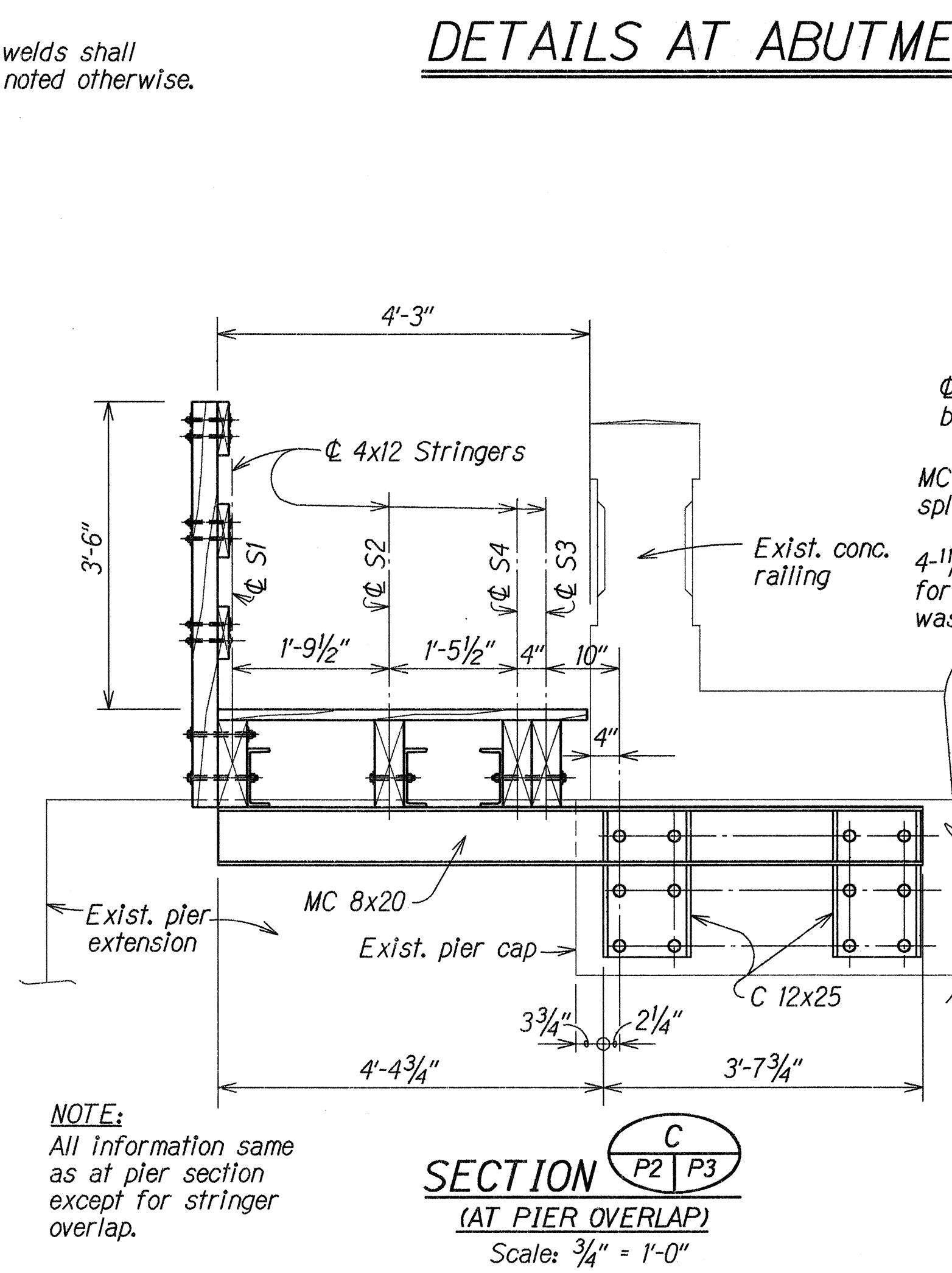
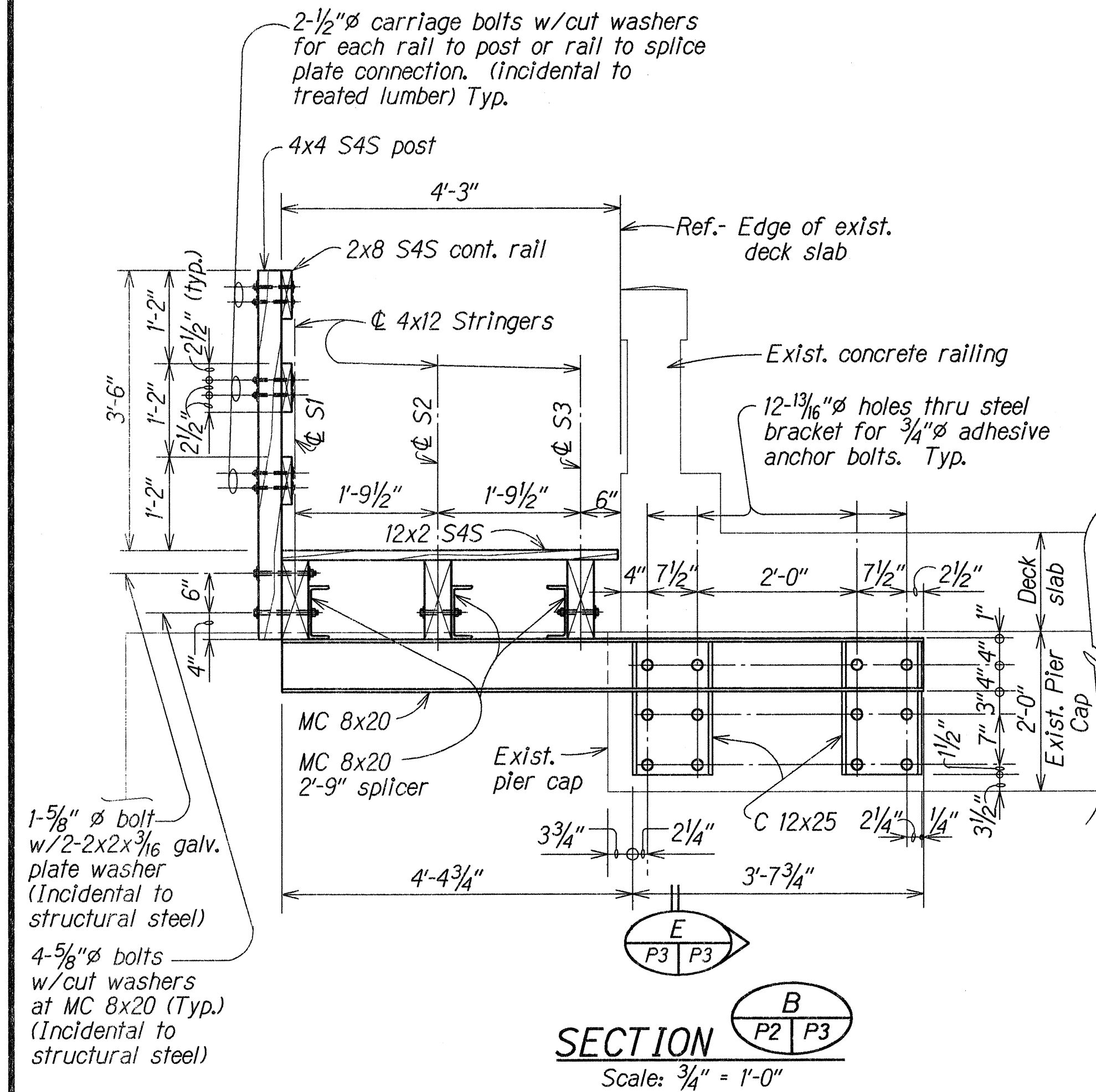
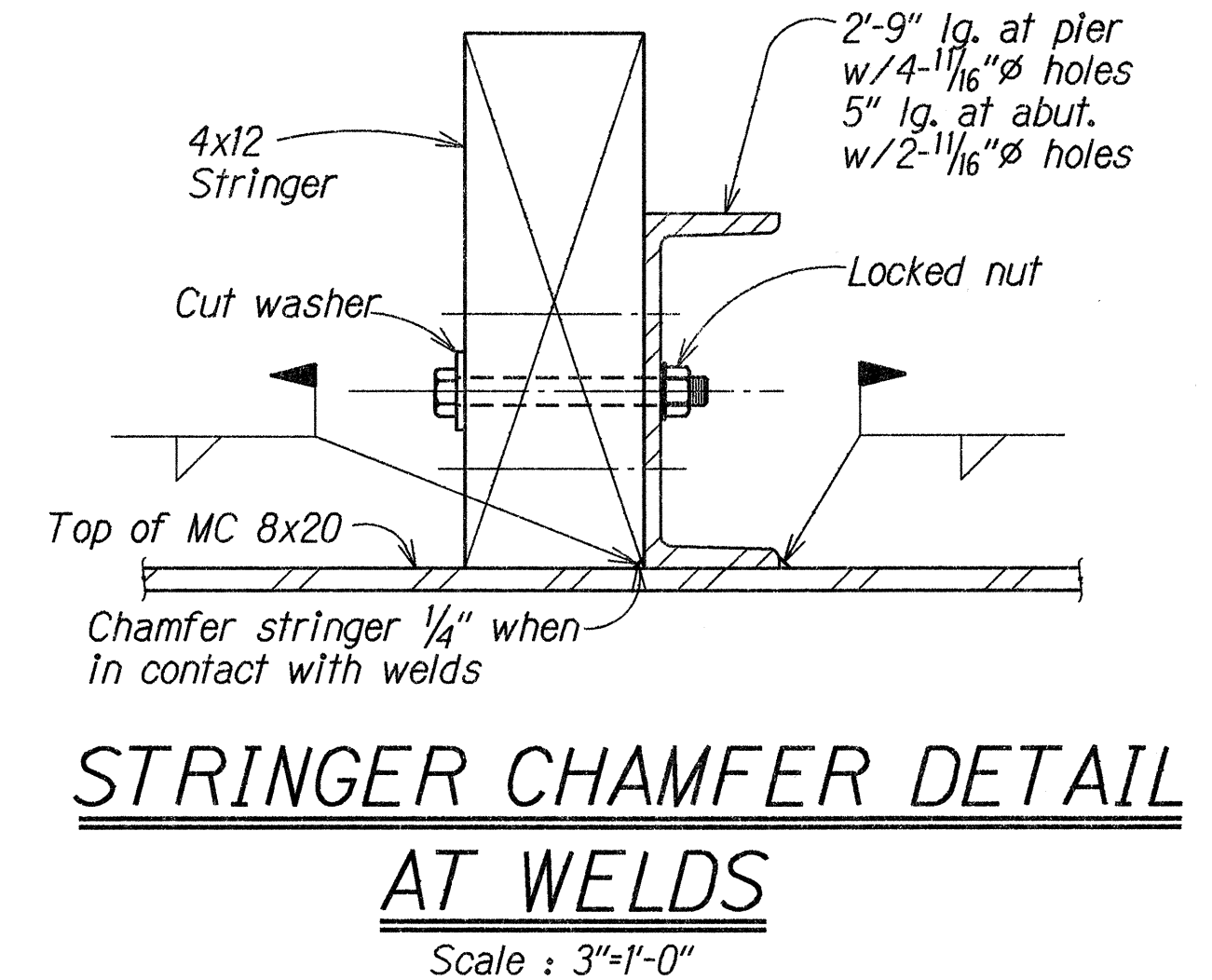
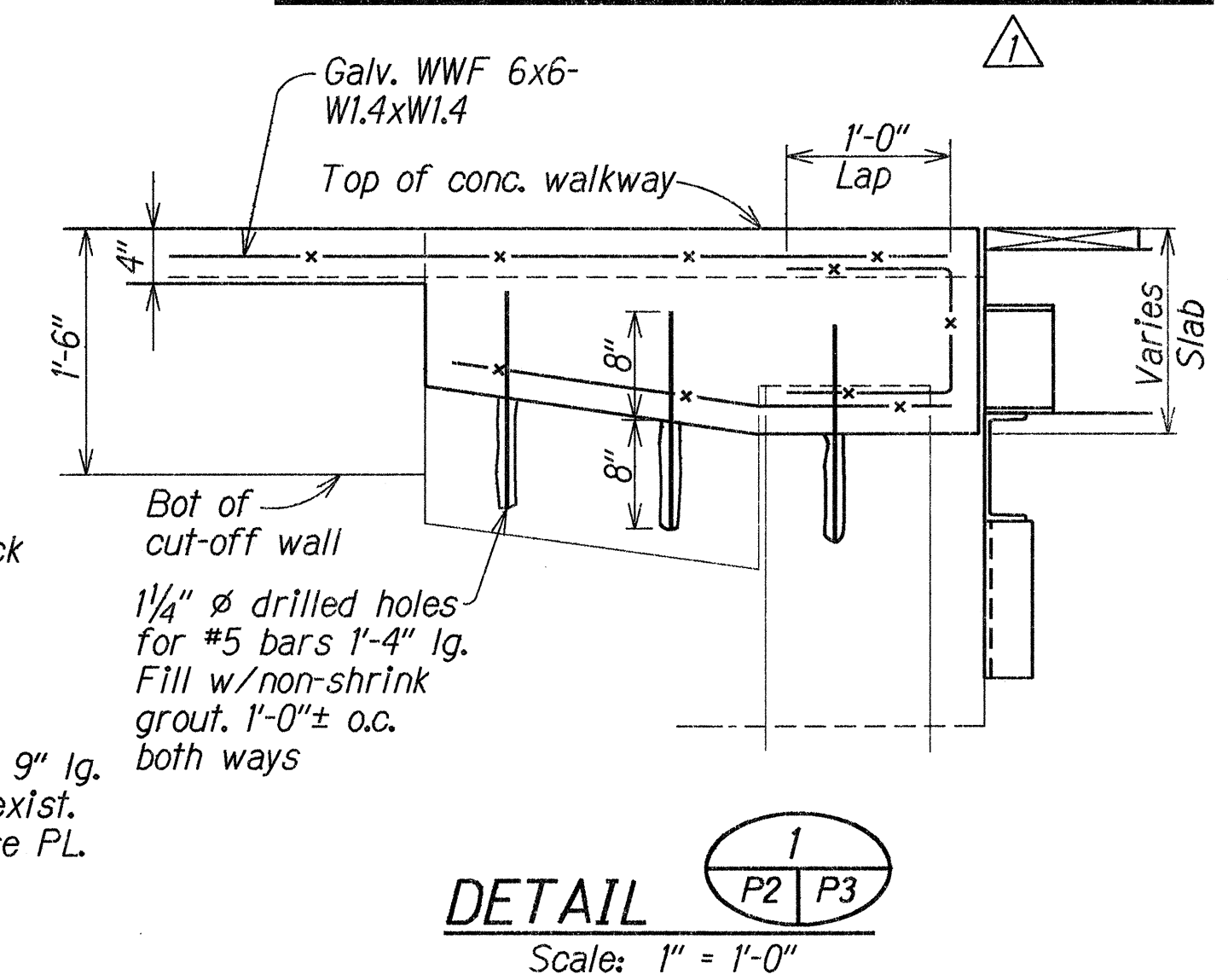
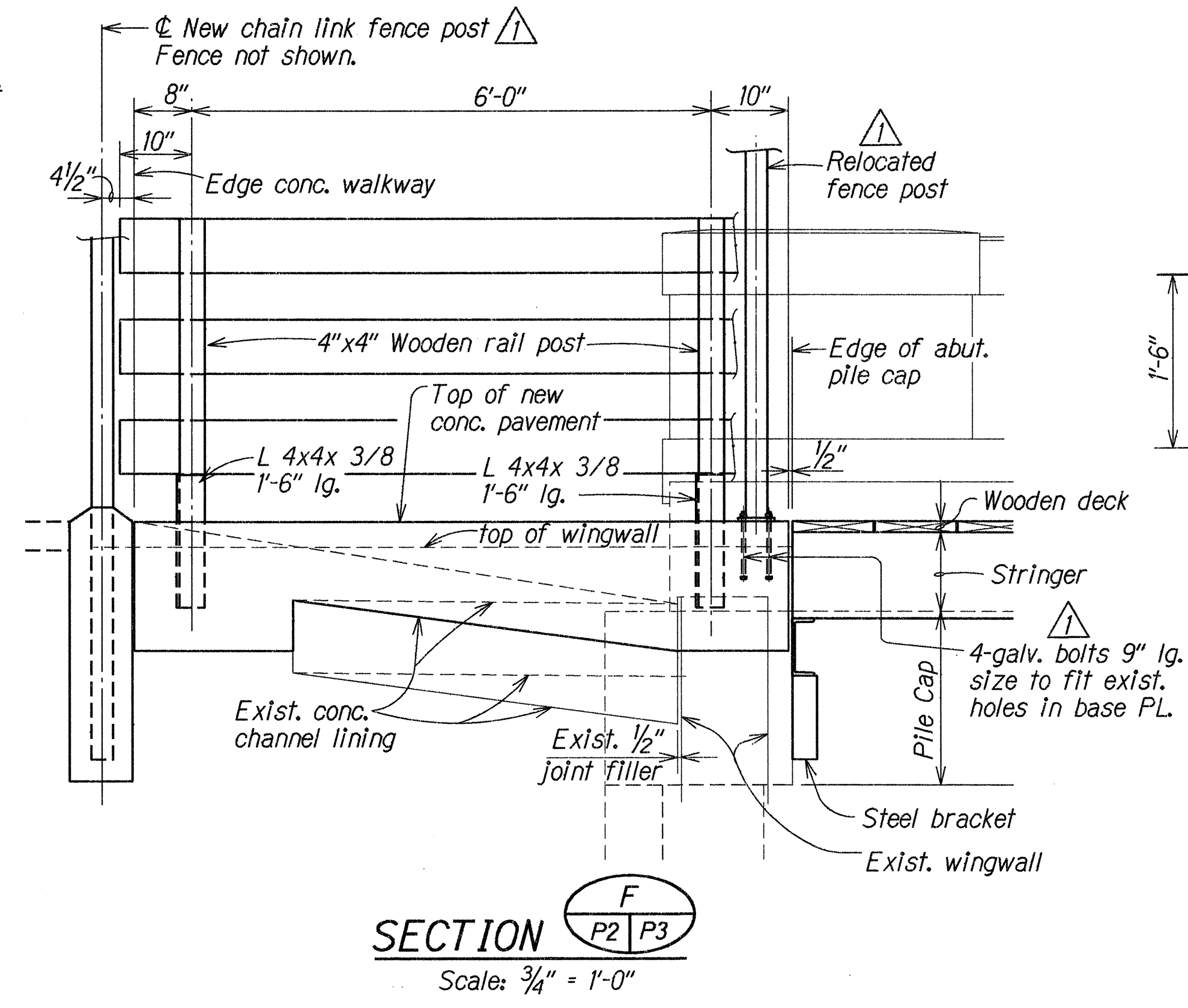
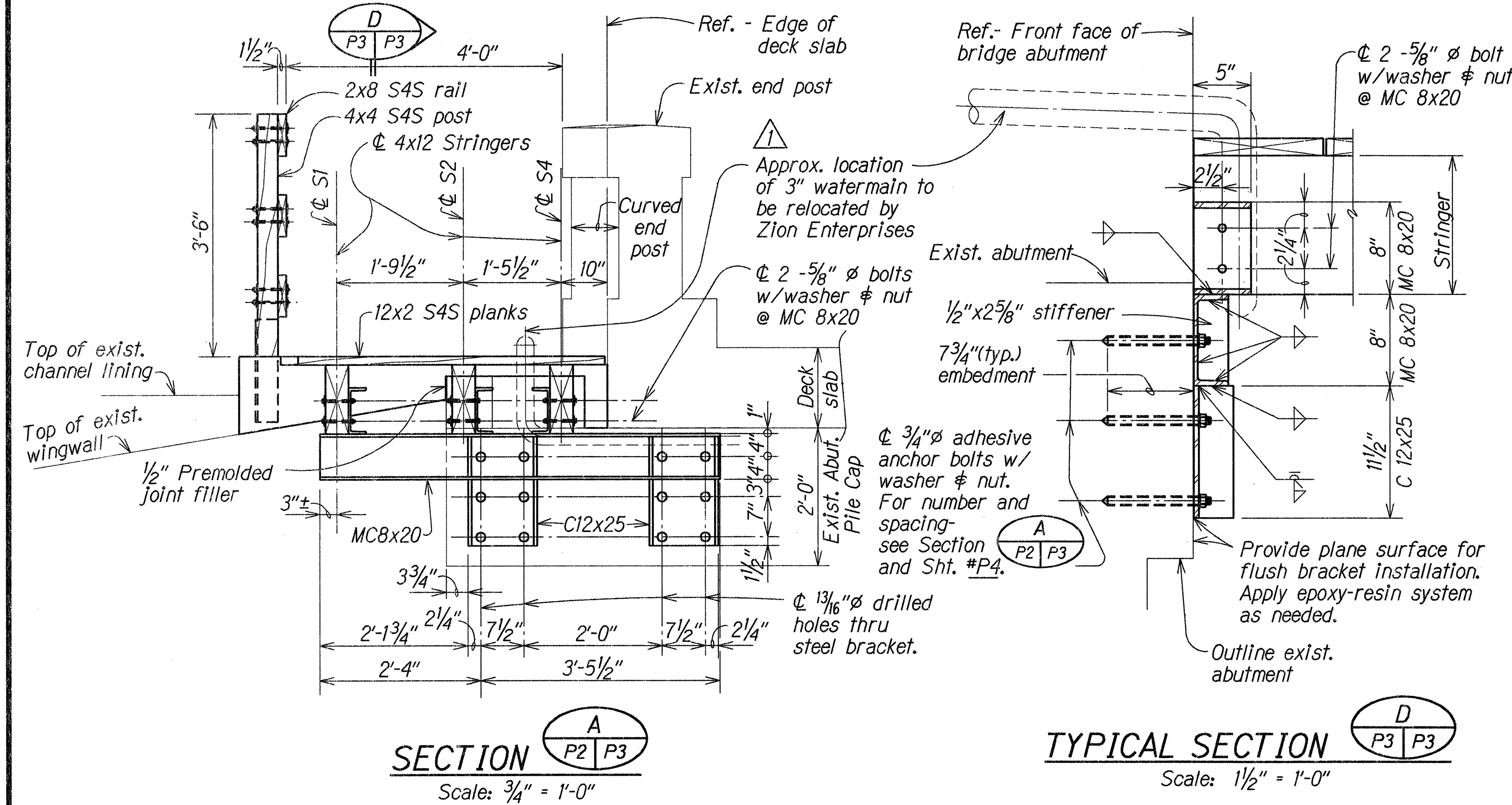
6/12/91	Addendum No. 1 - Revised exist. 6 ft. chain link fence and General Notes.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
LAIEWAI BRIDGE PEDESTRIAN WALKWAY	
LAYOUT PLAN, ELEVATION	
GENERAL NOTES & ESTIMATED QUANTITIES	
KAMEHAMEHA HIGHWAY Project No. 83C-02-91M	

Scale: As Noted Date: May, 1991
SHEET No. P1 OF 4 SHEETS

ADD. 5

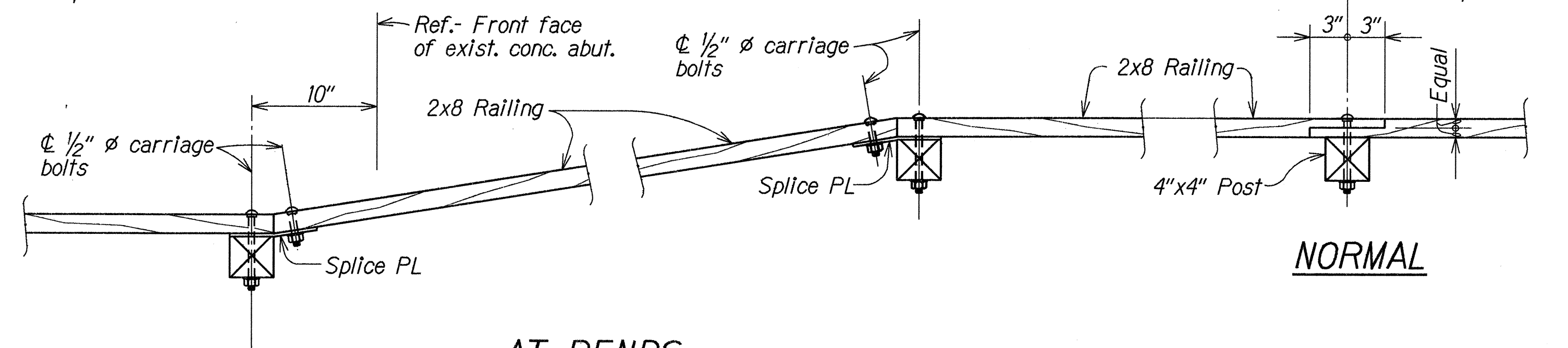
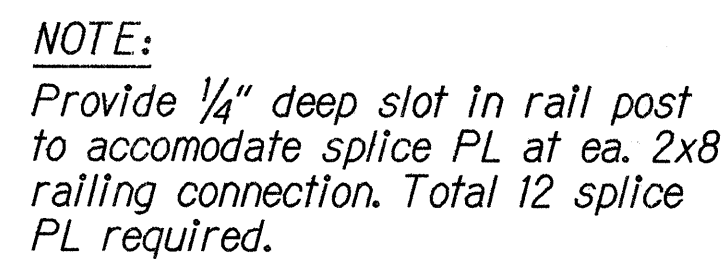
ORIGINAL PLAN	DATE	DESIGNED BY	CHECKED BY
FILE	1/1/91	SA	SA
QUANTITIES	1/1/91	SA	SA
NO.	100001		

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83C-02-91M	1991	ADD.7	9



DATE	REVISION
6/12/91	Addendum No. 1 - Revised exist. 6 ft. chain link fence.
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION LAIWAI BRIDGE PEDESTRIAN WALKWAY SECTIONS AND DETAILS KAMEHAMEHA HIGHWAY Project No. 83C-02-91M	
Scale: As Noted	Date: May, 1991

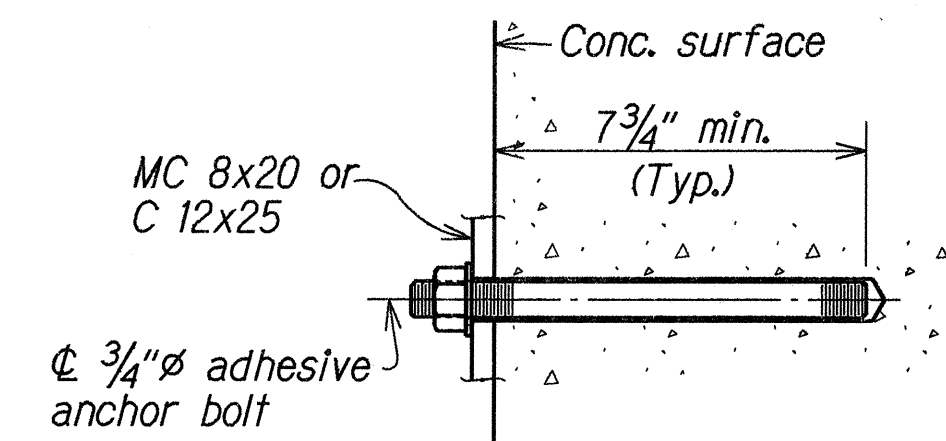
DETAILS AT PIERS



AT BENDS

PLAN - TYPICAL RAIL SPLICE DETAILS

Scale: $1\frac{1}{2}'' = 1'-0''$



NOTE:
Drilled holes incidental
to adhesive anchors.

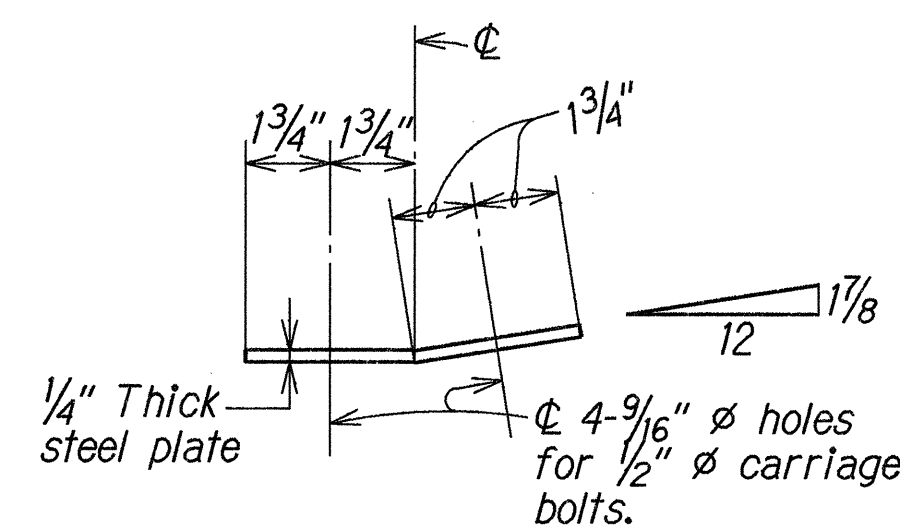
TYPICAL ANCHOR
BOLT DETAIL

Scale: 3" = 1'-0"

TYPICAL DETAIL

(L-4x4x $\frac{3}{8}$ " POST ANCHOR)

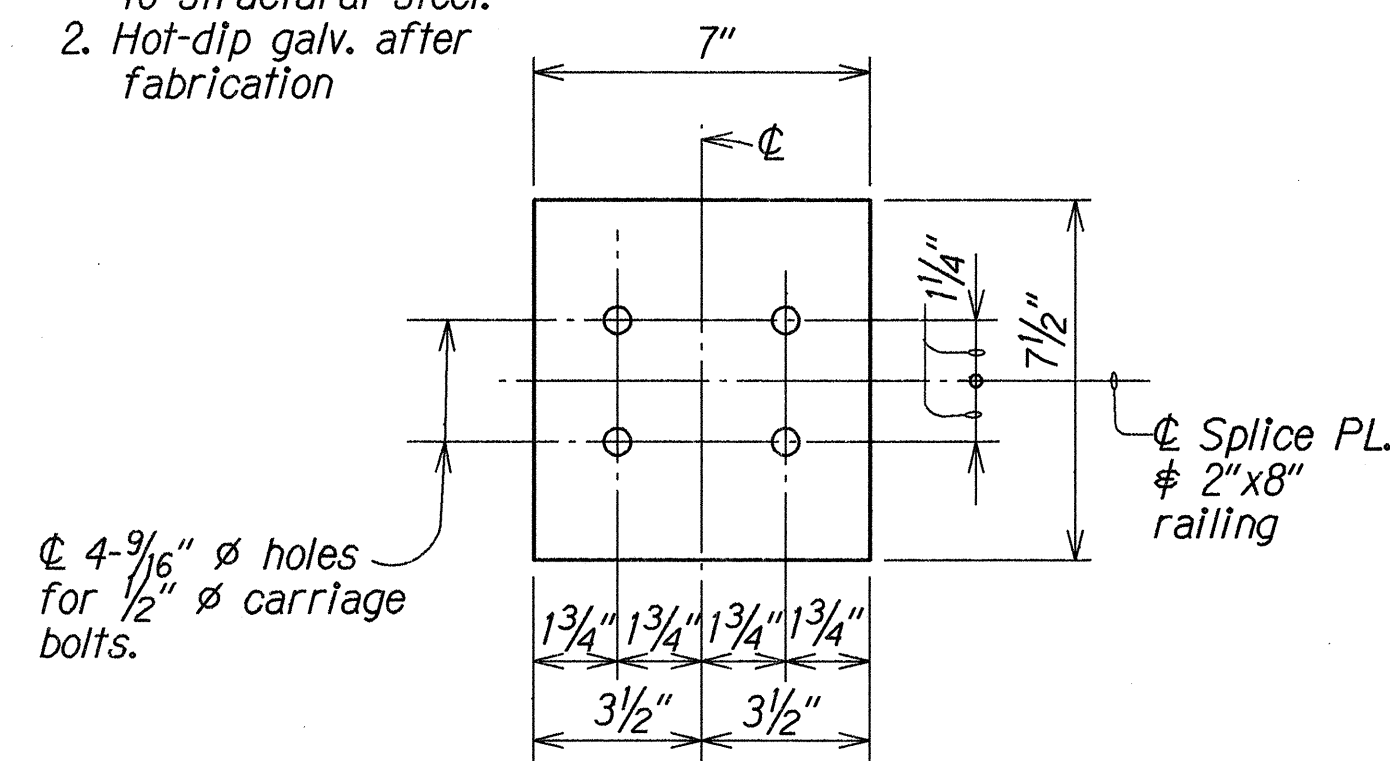
Scale: $1\frac{1}{2}'' = 1'-0''$



TOP VIEW

NOTE:

1. *Splice PL incidental to structural steel.*
2. *Hot-dip galv. after fabrication*



FRONT VIEW

TYPICAL RAILING SPLICE PL DETAILS

Scale: 3" = 1'-0"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LAIWEAI BRIDGE PEDESTRIAN WALKWAY
TYP. DETAIL AT POST ANCHOR, TYP. RAIL SPLICE DETAILS
TYP. RAIL SPLICE PL. DETAILS, TYP. ANCHOR BOLT DETAIL

KAMEHAMEHA HIGHWAY
Project No. 83C-02-91M

Scale: As Noted *Date: May, 1991*

SHEET No. P4 OF 4 SHEETS