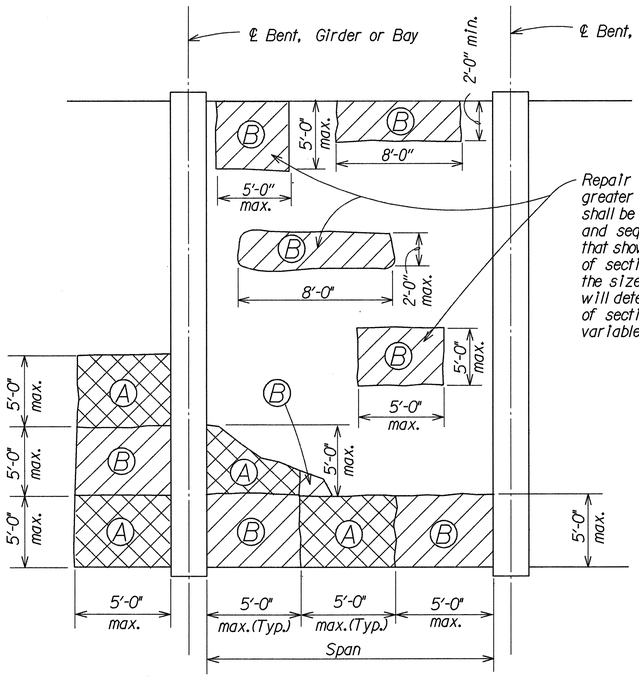
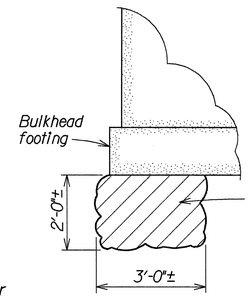
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	360A-01-90M	1990	5	5



REFLECTED CEILING PLAN

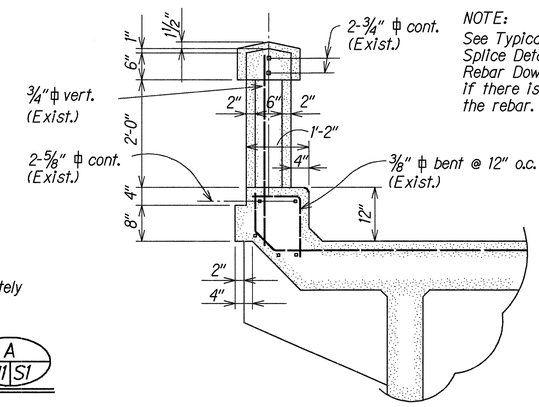
Not To Scale



BULKHEAD FOOTING DETAIL

A | H1 | S1

Scale: 1/2"=1'-0"

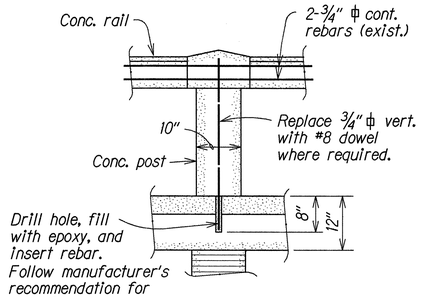


NOTE:
See Typical Rebar Repair Splice Detail or Typical Rebar Dowel Detail if there is damage to the rebar.

TYPICAL RAILING SECTION

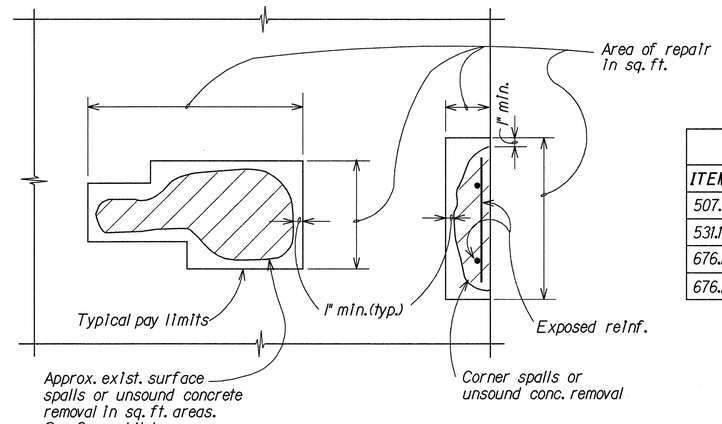
B | S1 | S1

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



TYPICAL REBAR DOWEL DETAIL

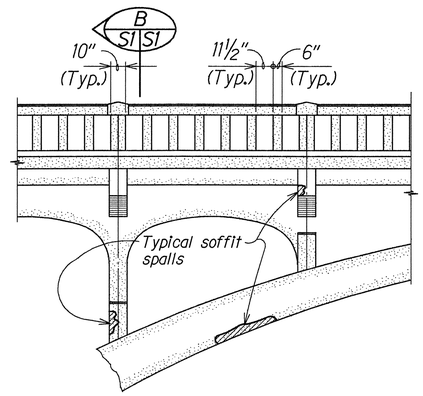
Scale: 3/4"=1'-0"



PLAN OR ELEVATION

ESTIMATED QUANTITIES

ITEM NO.	ITEM	UNIT	QUANTITY
507.1000	Remove And Replace Concrete Railing	L.F.	10 L.F.
531.1000	Concrete Fill Under Footing	L.S.	1 C.Y.
676.1000	Repair Of Railing Spalls	S.F.	50 S.F.
676.2000	Repair Of Soffit Spalls	S.F.	200 S.F.



PARTIAL SOFFIT ELEVATION

(SHOWING SOFFIT SPALLS)

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

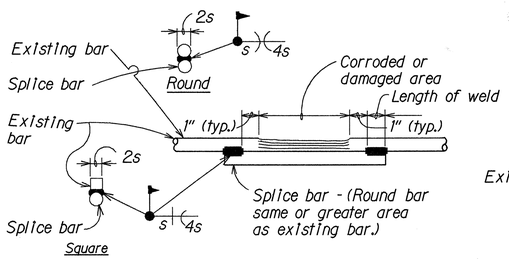
NOTE:

Slab damage over a large area shall be repaired in sections (A) & (B) as shown. The sequence of repair for each section shall be as follows:

1. Repair section (A).

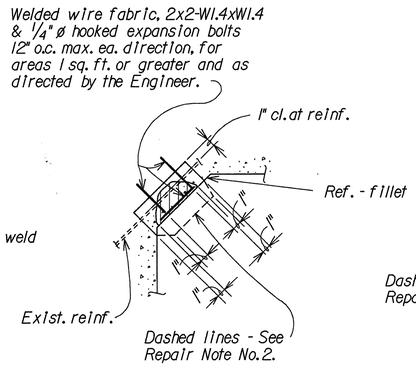
2. Start repair of section (B) 7 days after placing mortar for section (A).

The necessity for sectional repairs will depend on the amount of reinforcing bars that has to be exposed and cleaned. The Engineer will determine the necessity for sectional repairs after portions of the steel have been exposed.

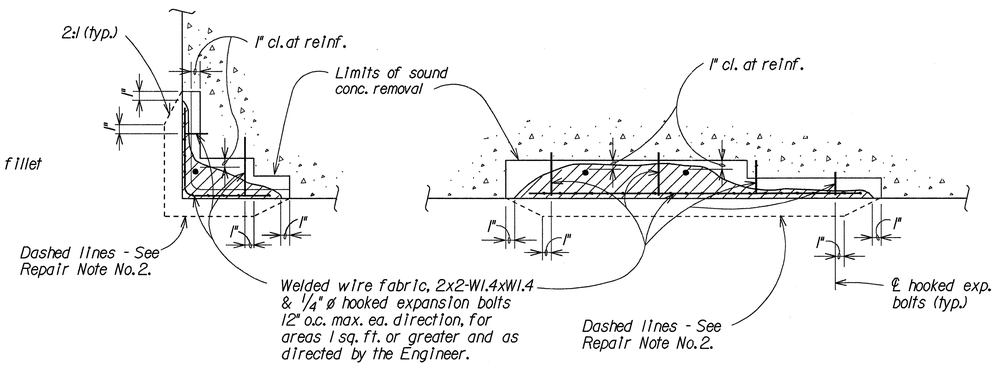


TYPICAL REINFORCING BAR REPAIR SPLICE DETAIL

Not to Scale



AT FILLET



AT CORNER

AT SURFACE

TYPICAL REPAIRS AT CONCRETE SPALLS

Not to Scale

ORIGINAL PLAN	SURVEY PLOTTED BY	T.C.W.	DATE	May 1990
	DRAWN BY			
	TRACED BY	C.K.		May 1990
NOTE BOOK	DESIGNED BY	C.K.		May 1990
No. Hanwaikani	QUANTITIES BY	C.K.		May 1990
	CHECKED BY	C.K.		May 1990

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL BRIDGE REPAIR DETAILS

HANA HIGHWAY
WAIKANI BRIDGE REPAIR

Proj. No. 360A-01-90M

Scale: As Shown | Date: May 1990

SHEET No. S1 OF 1 SHEETS