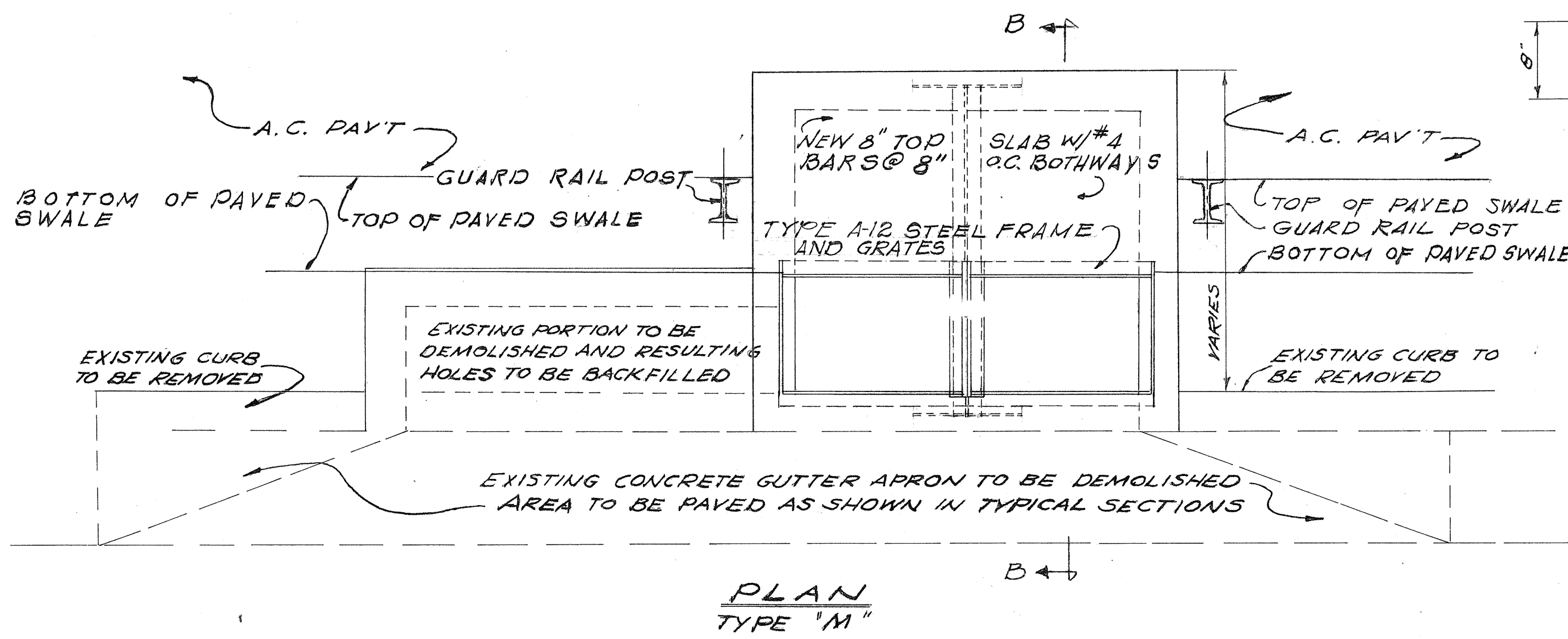
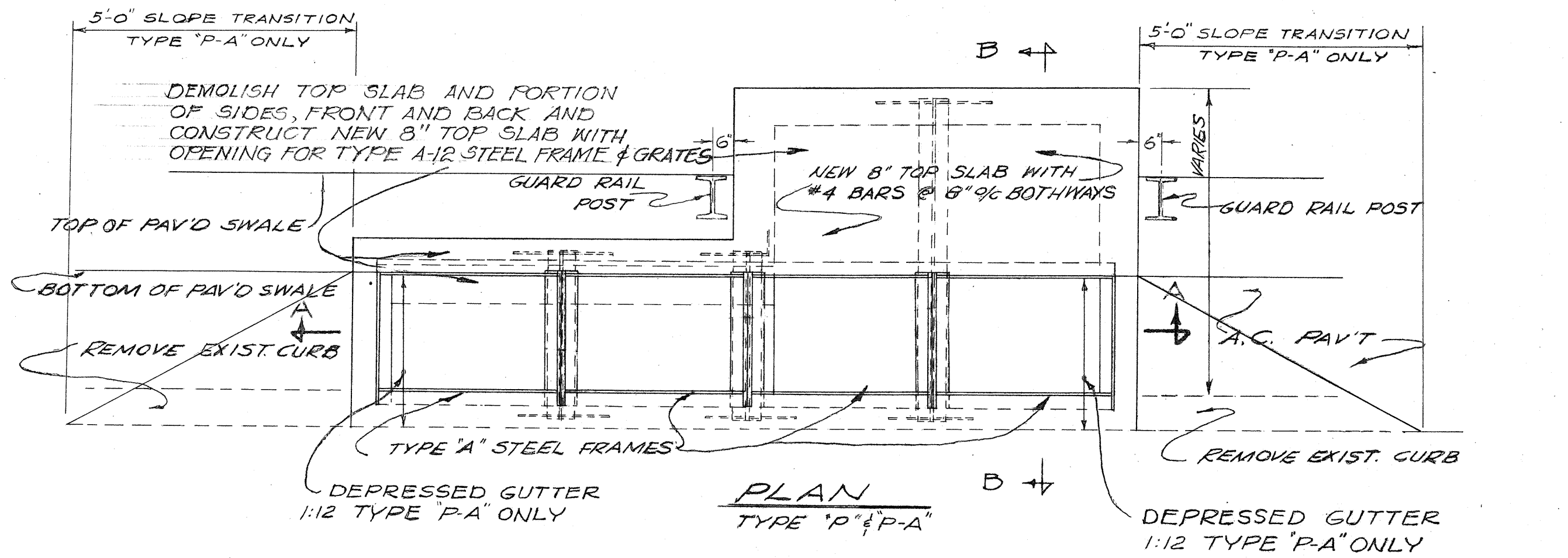
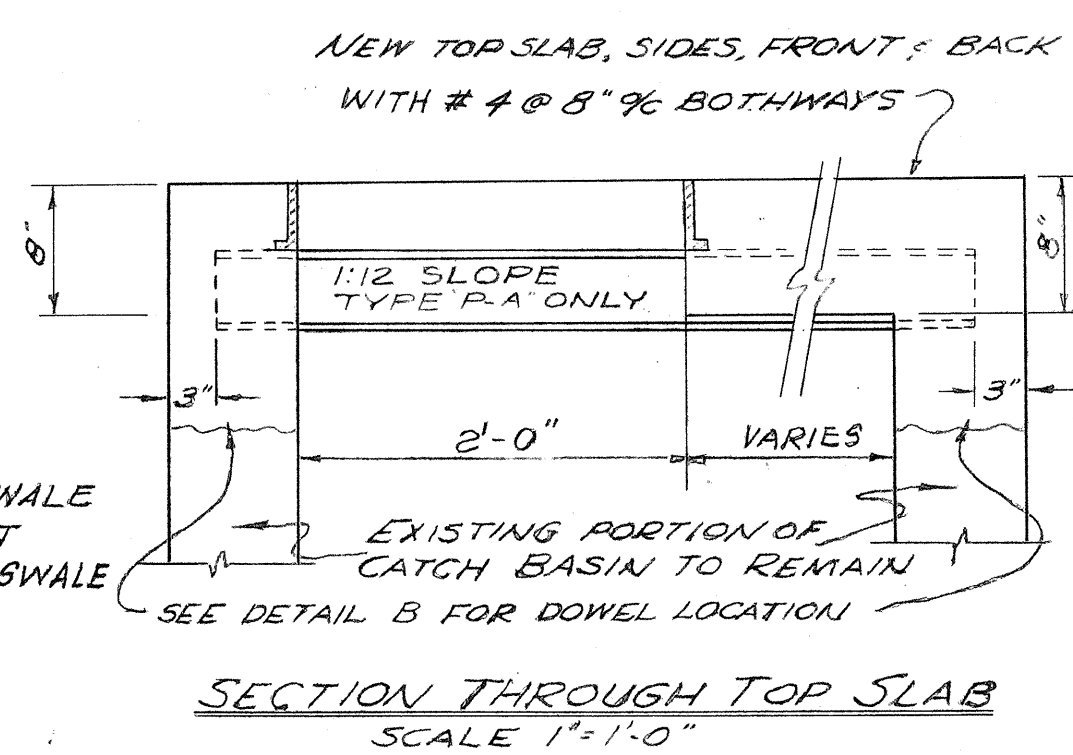
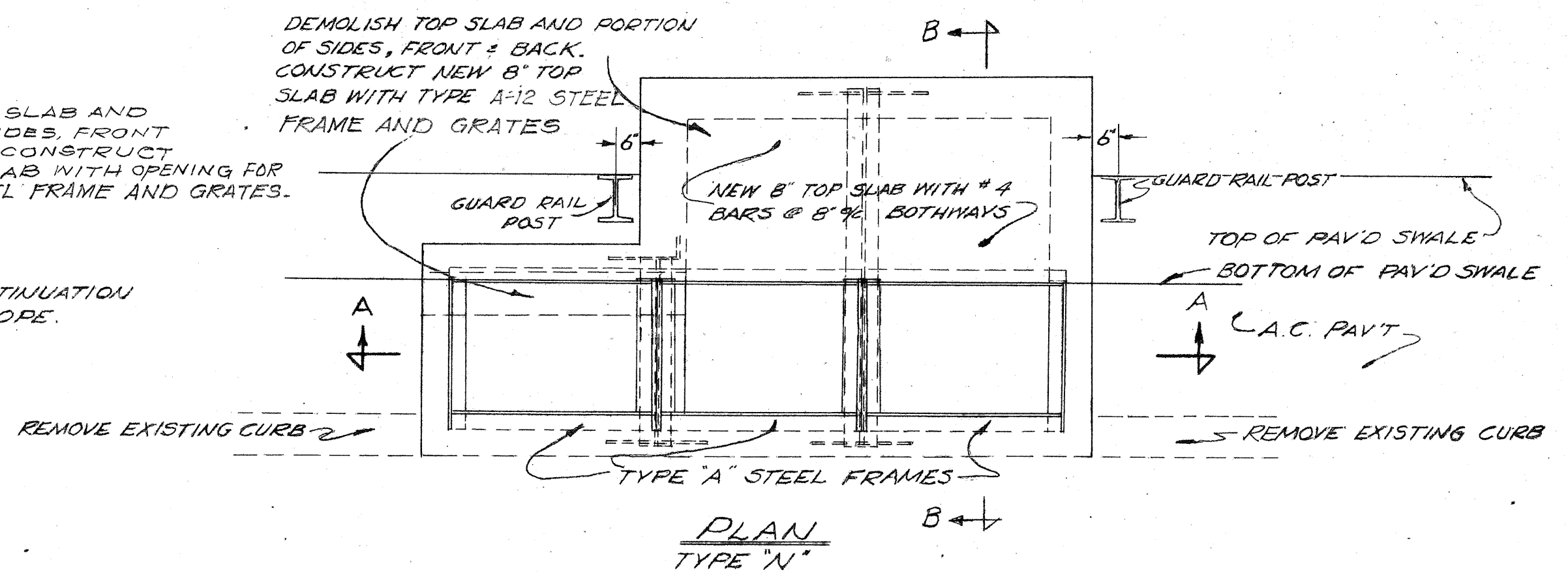
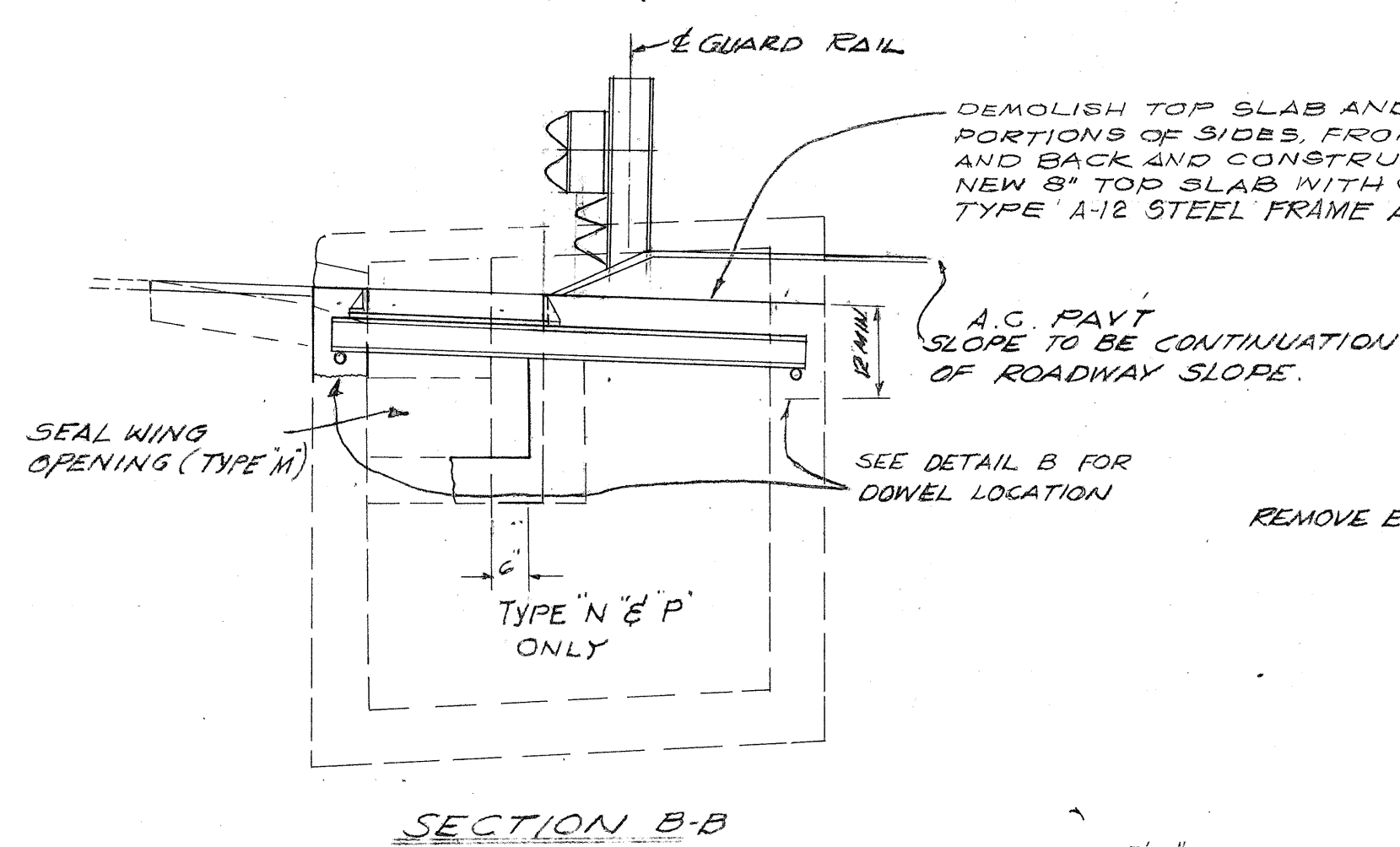
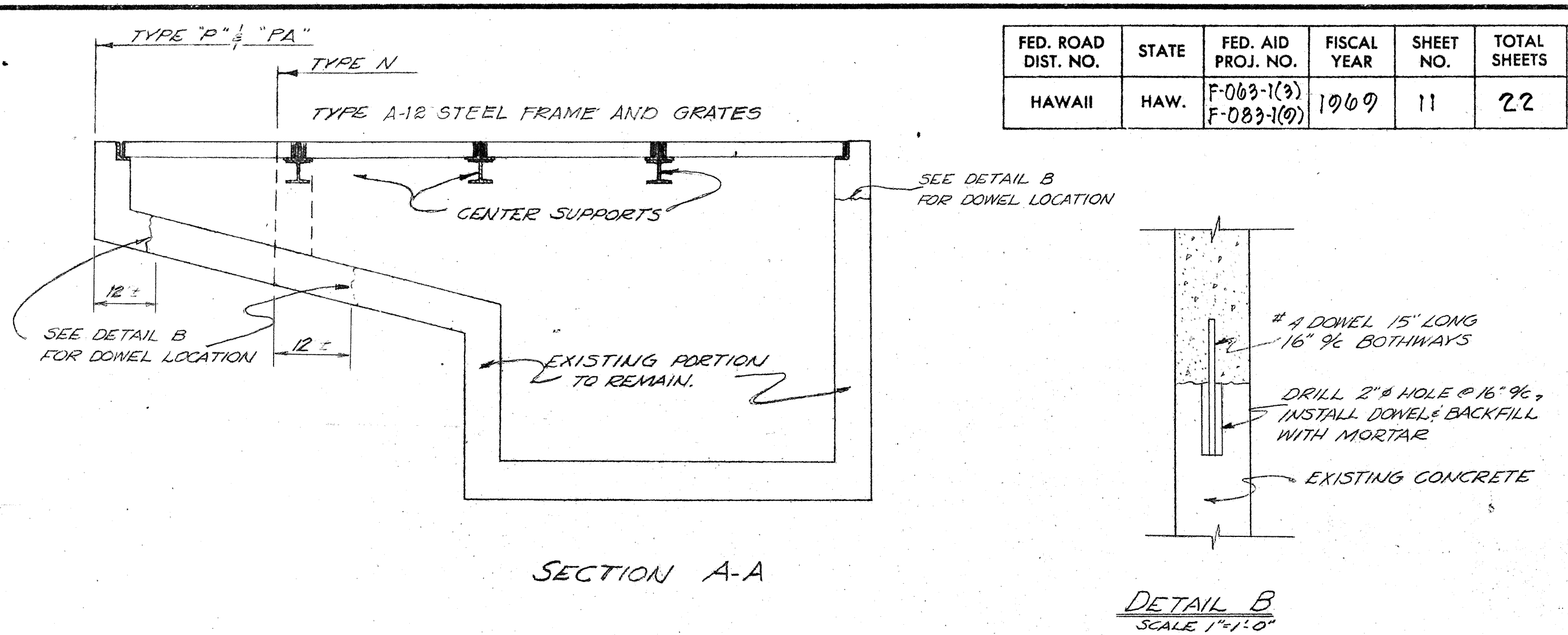
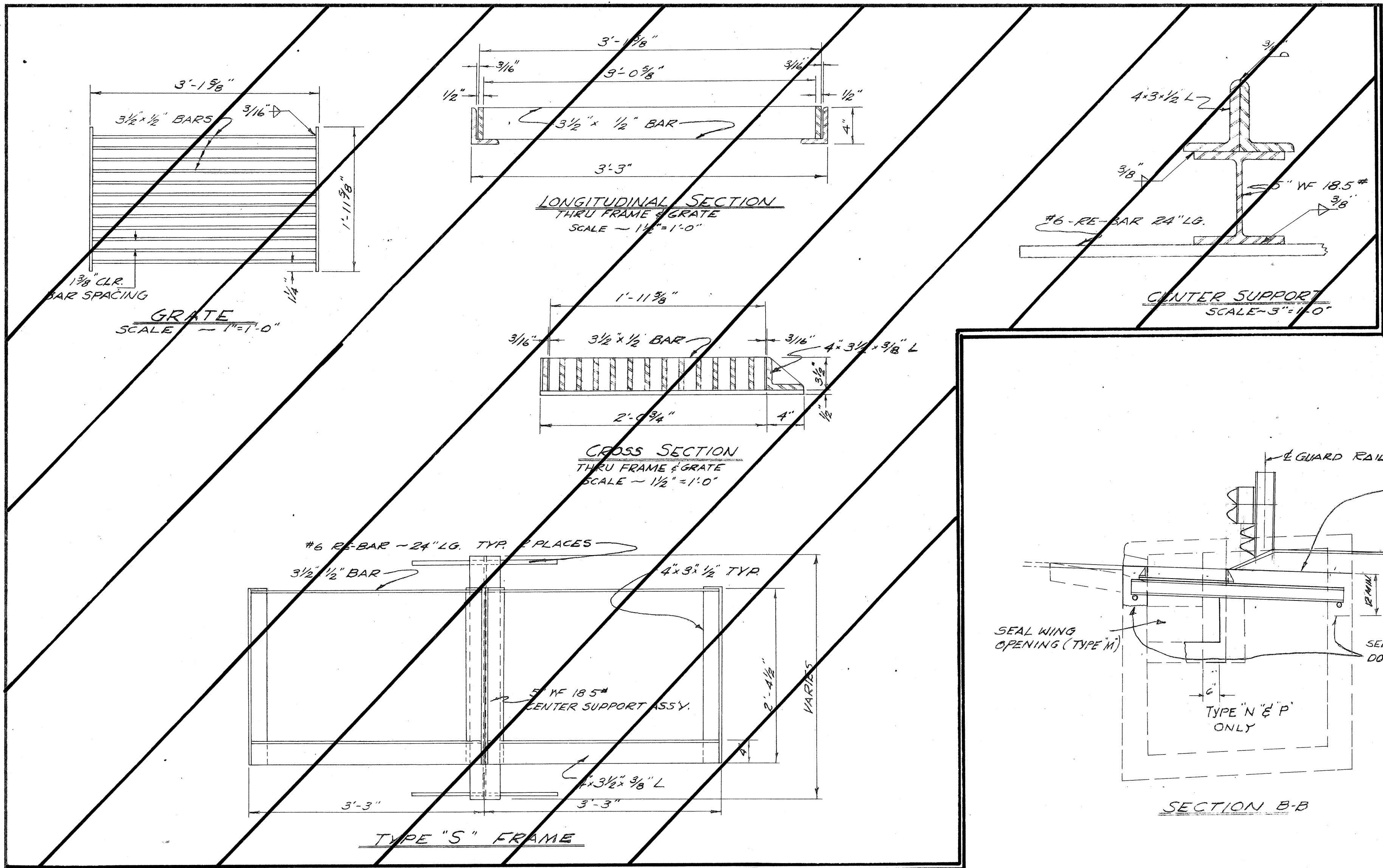


| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO.       | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | F-063-1(3)<br>F-083-1(9) | 1969        | 11        | 22           |



- NOTE:
1. ALL WELDS 3/8" UNLESS OTHERWISE NOTED.
  2. ALL STEEL SHALL BE STRUCTURAL GRADE.
  3. GRATE AND FRAME SHALL BE HOT DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH SECTION 44 (H) OF THE STANDARD SPECIFICATIONS.

- NOTE:
1. CENTER SUPPORT ASSEMBLY SHALL BE USED WHEN TWO OR MORE GRATINGS ARE SPECIFIED.
  2. CENTER SUPPORT ASSEMBLY SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCIDENTAL TO TYPE A-12 STEEL FRAME AND GRATE.
  3. SALVAGED C.I. FRAME AND COVERS SHALL BE CLEANED AND RETURNED TO 721 KELIKOI ST.
  4. FOR DETAIL OF TYPE A-12 STEEL FRAME AND GRATINGS SEE SHT. NO. 21.

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**CATCH BASIN RECONSTRUCTION DETAILS**

F.A. PROJ. NO. F-063-1(3)  
F.A. PROJ. NO. F-083-1(9)

Scale: As Noted May, 1969

SHEET No. 1 OF 3 SHEETS

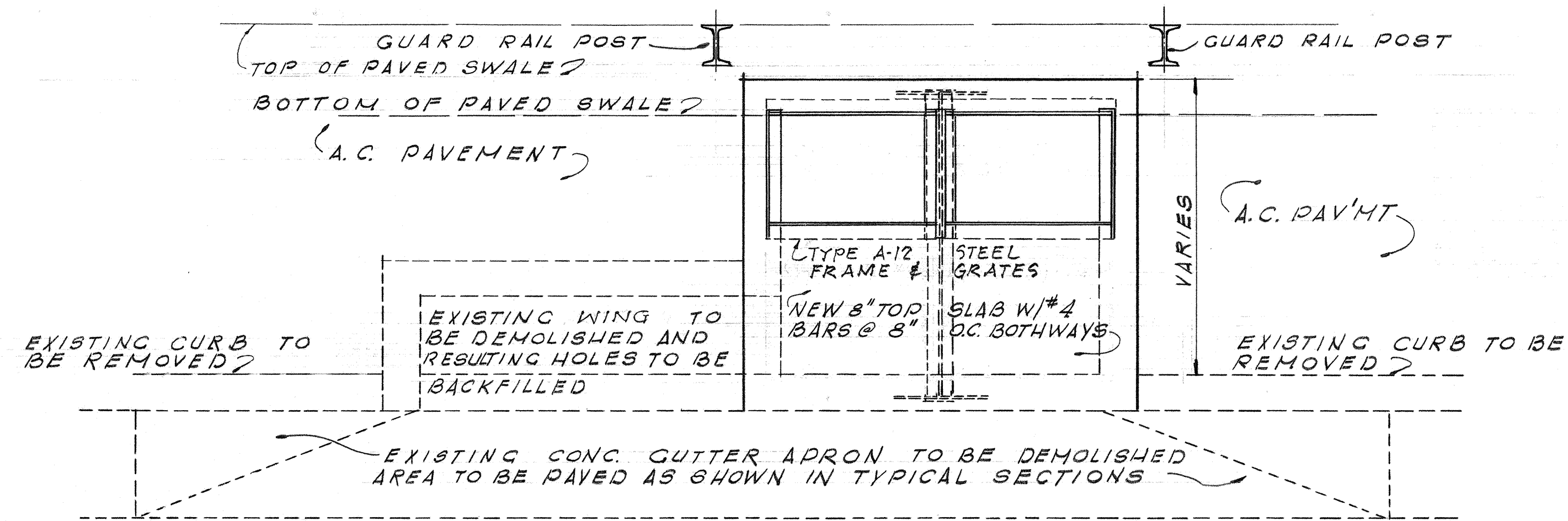
DATE: \_\_\_\_\_

DESIGNED BY: \_\_\_\_\_

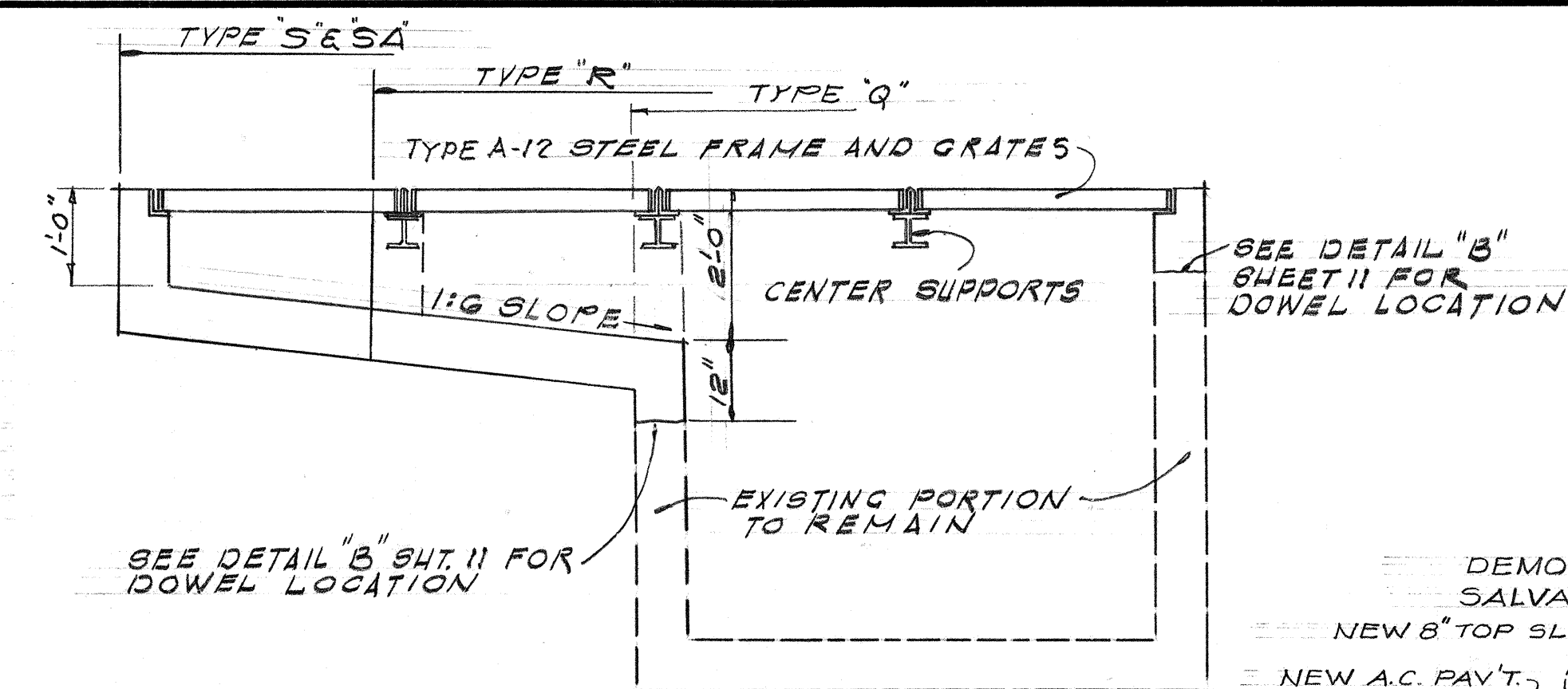
CHECKED BY: \_\_\_\_\_

NO. \_\_\_\_\_

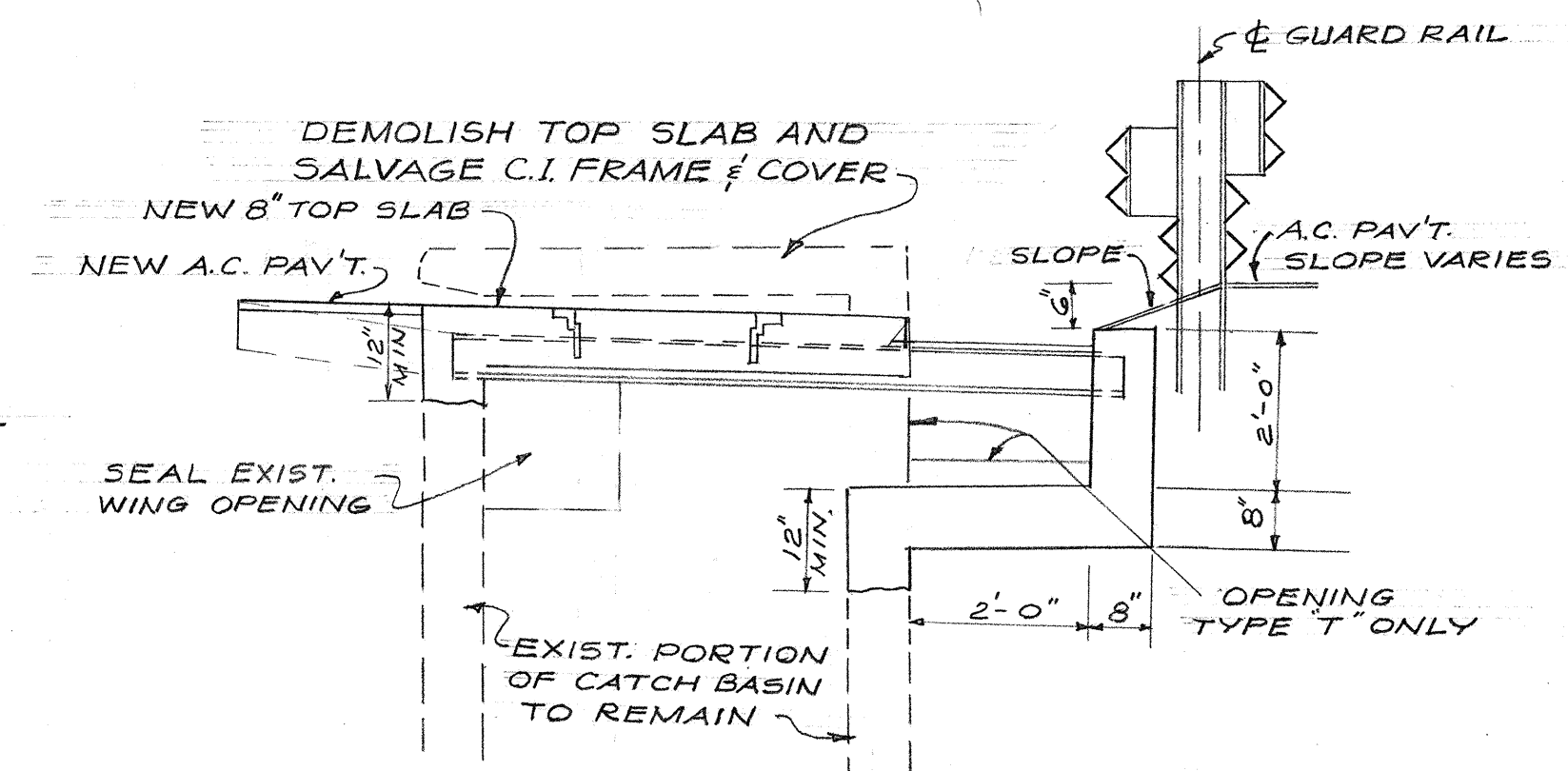
| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO.       | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | F-063-1(3)<br>F-083-1(9) | 1969        | 12        | 22           |



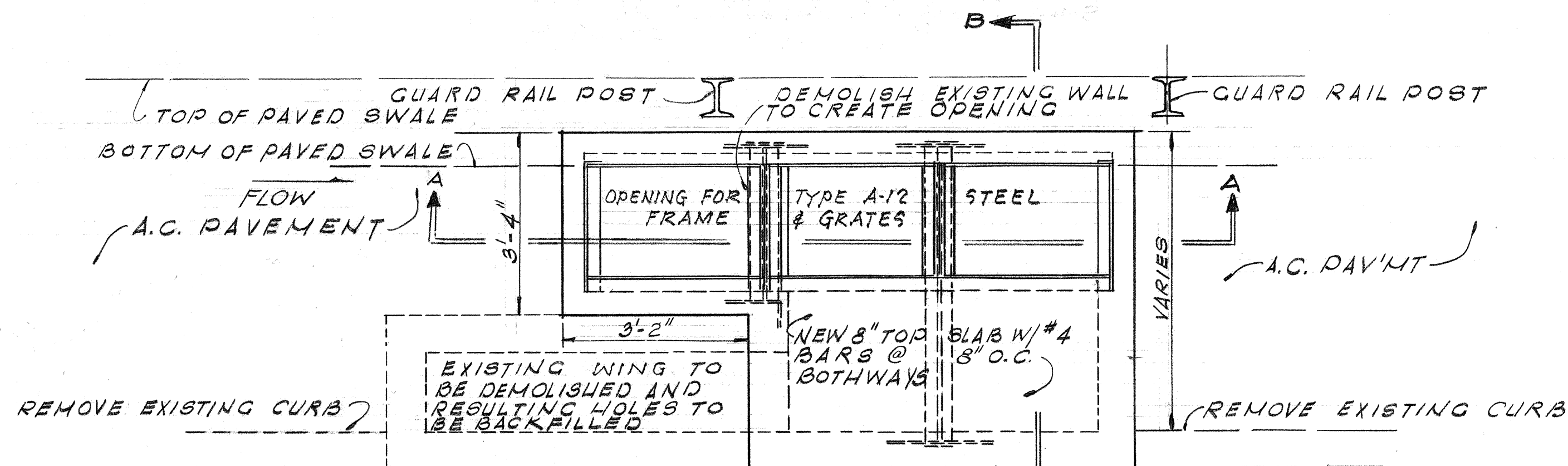
PLAN  
TYPE Q



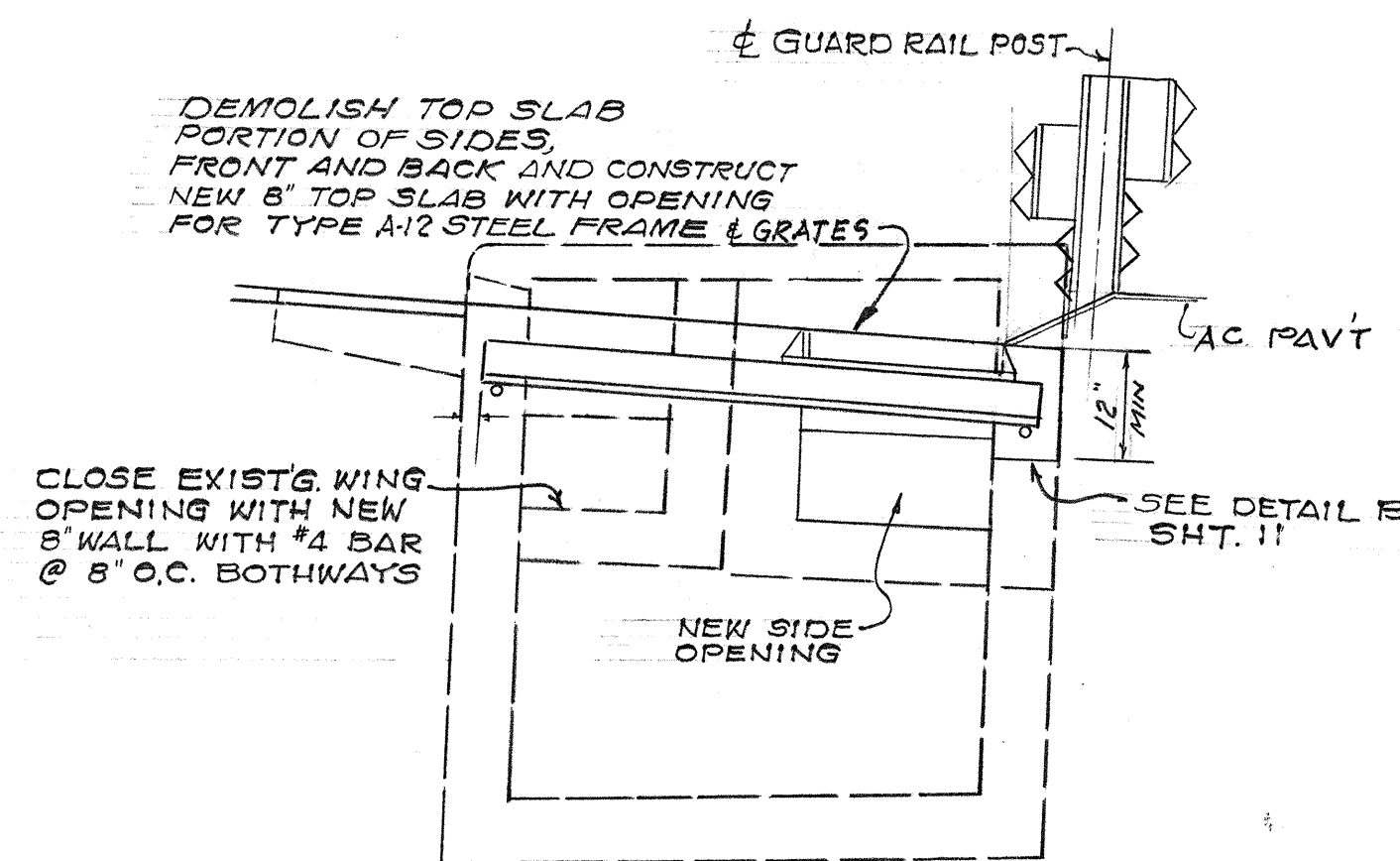
SECTION A-A



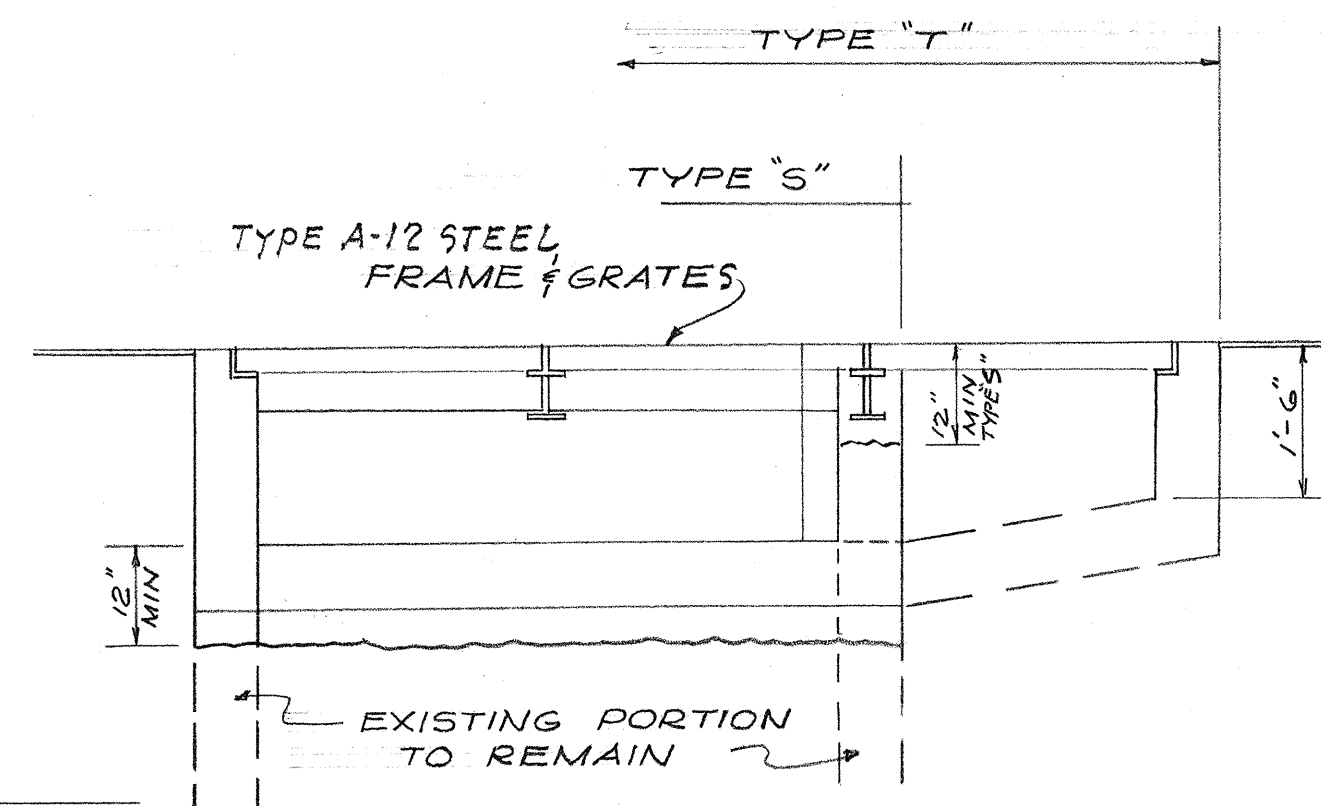
SECTION C-C



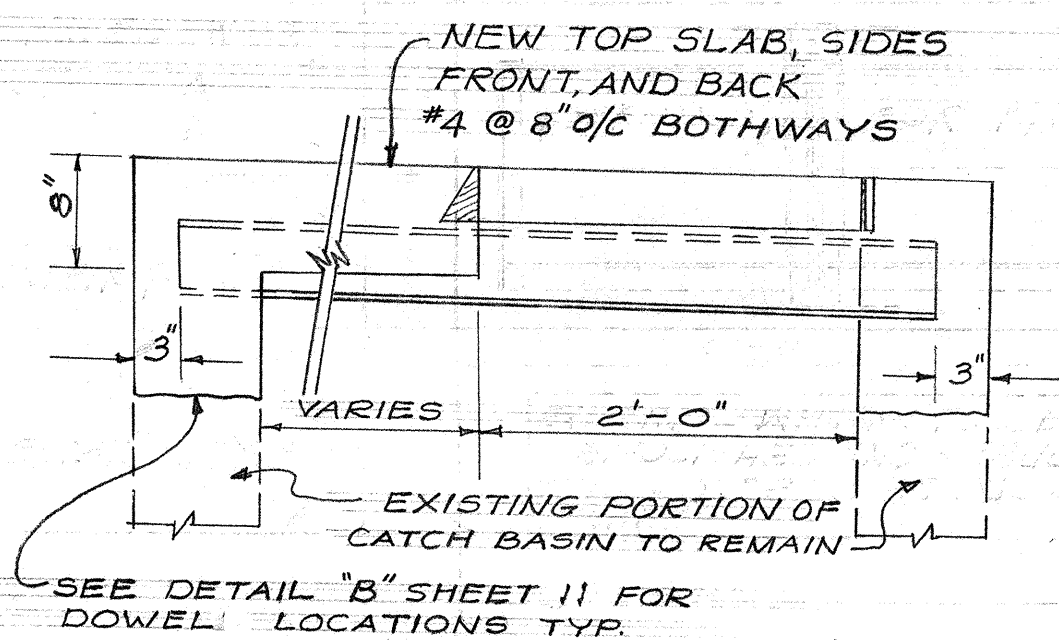
PLAN  
TYPE "R"



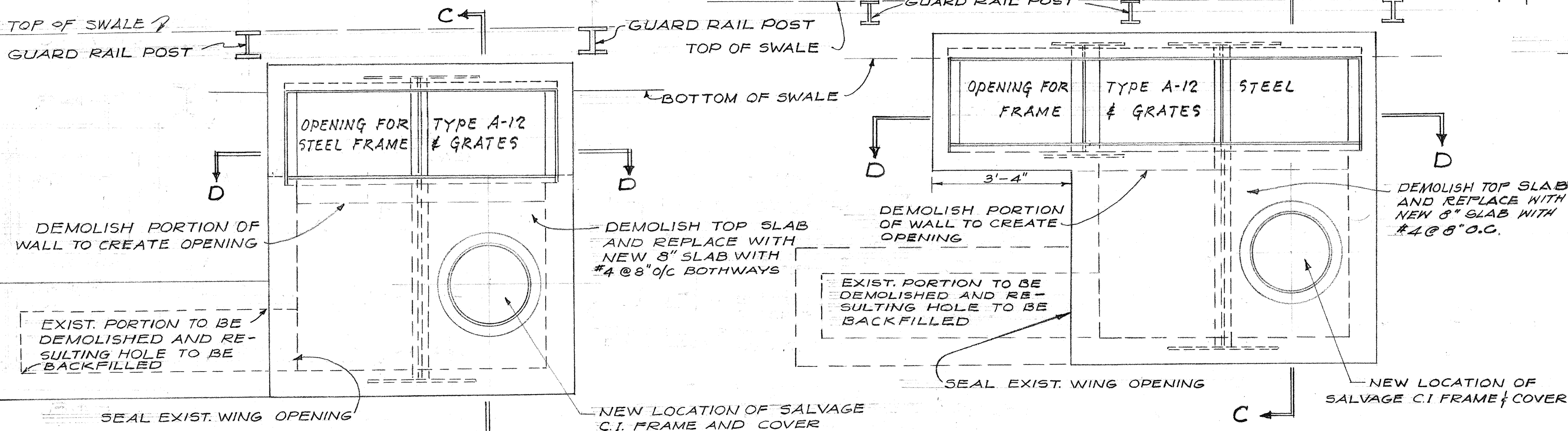
SECTION B-B  
SCALE: 1/2" = 1'-0"



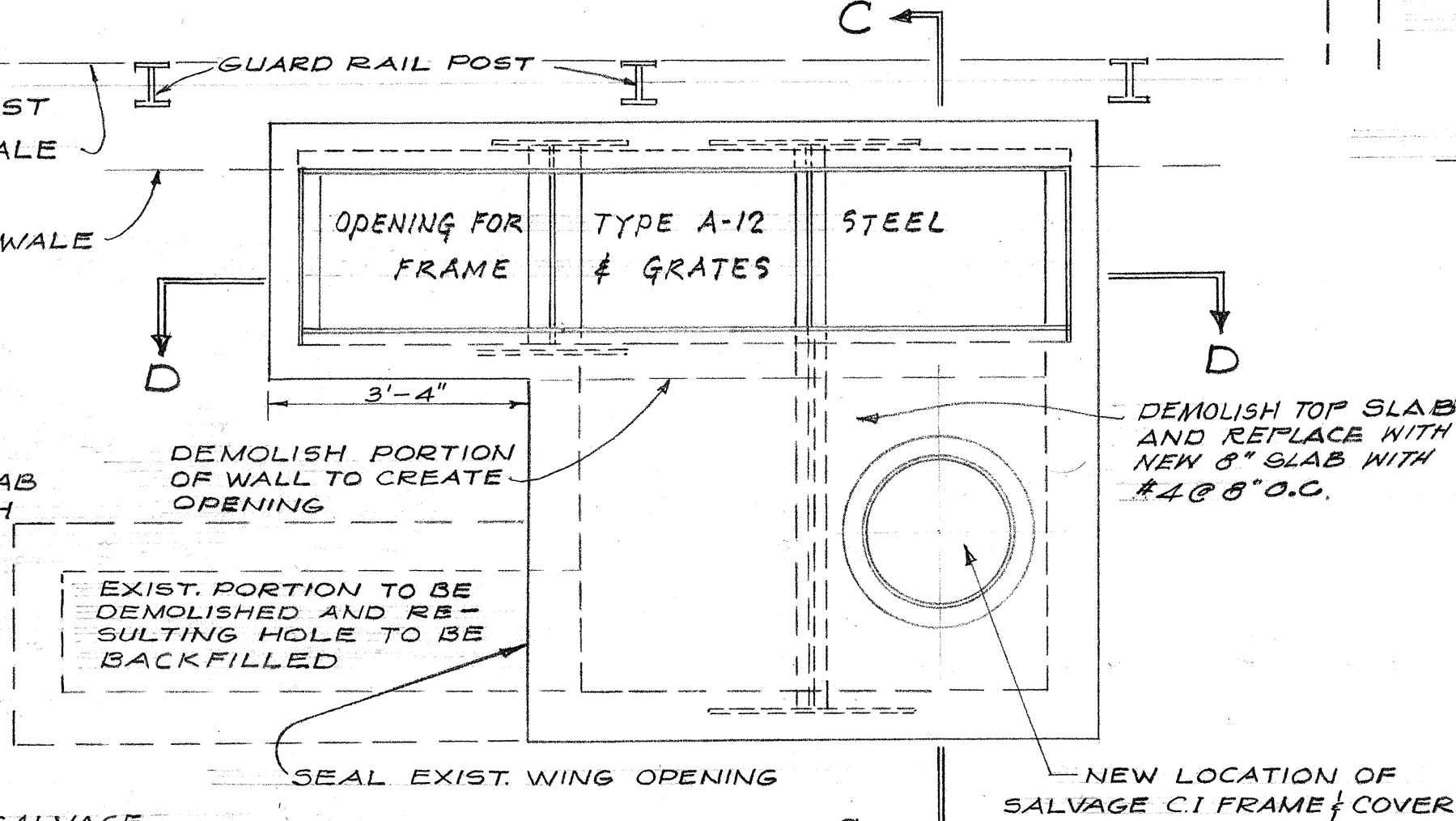
SECTION D-D



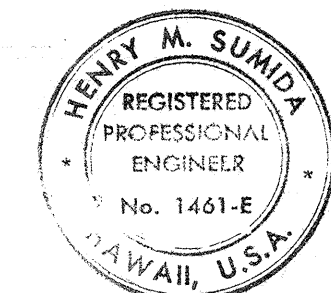
SECTION THROUGH NEW TOP SLAB  
FOR TYPE "Q" & "R"



PLAN  
TYPE "S" C.B.



PLAN  
TYPE "T" C.B.

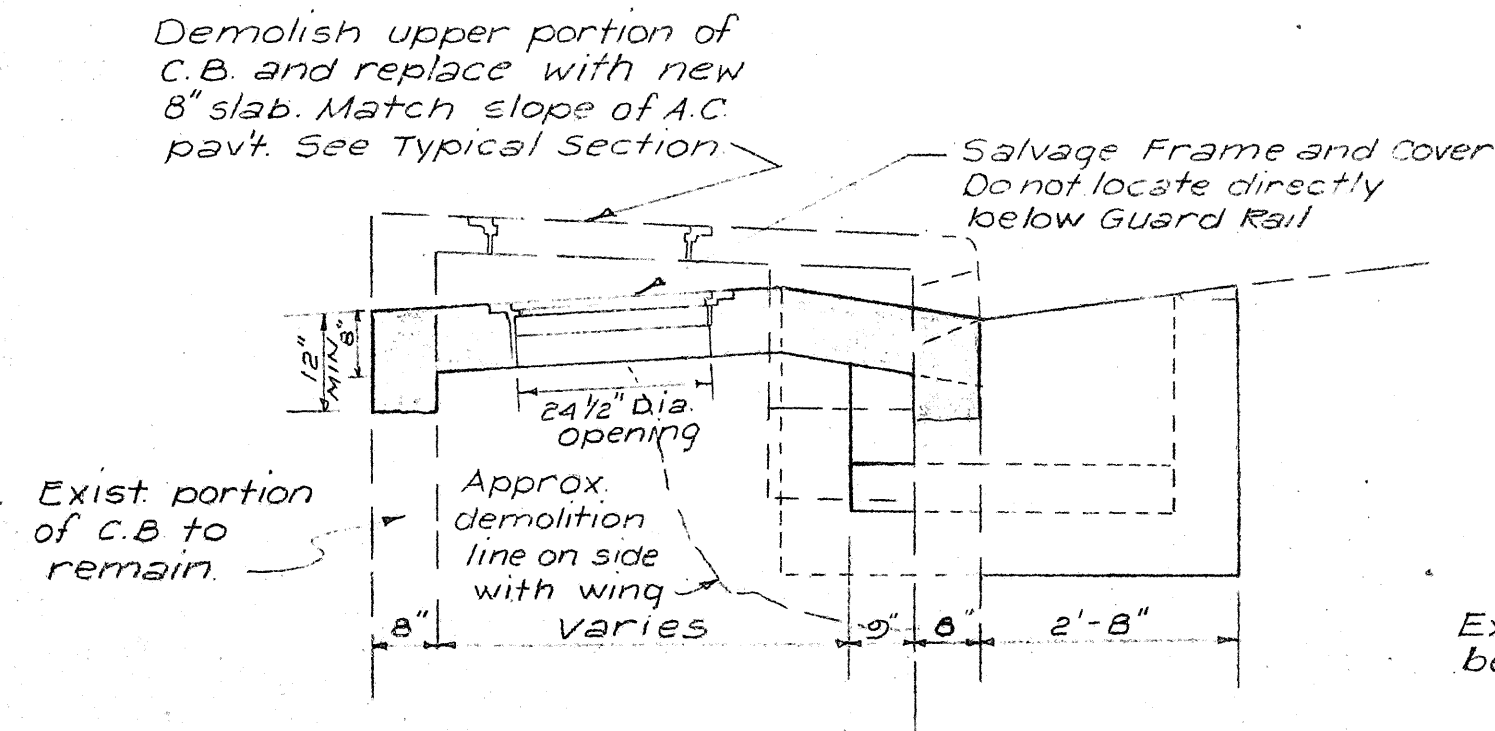


THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

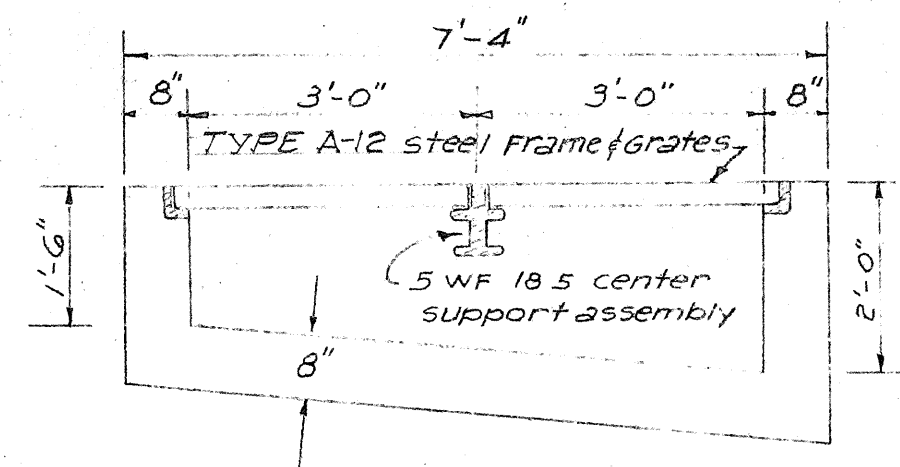
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
CATCH BASIN RECONSTRUCTION  
DETAILS

F.A. PROJ. NO. F-063-1(3)  
F.A. PROJ. NO. F-083-1(9)  
Scale: As Noted May, 1969  
SHEET No. 2 OF 3 SHEETS

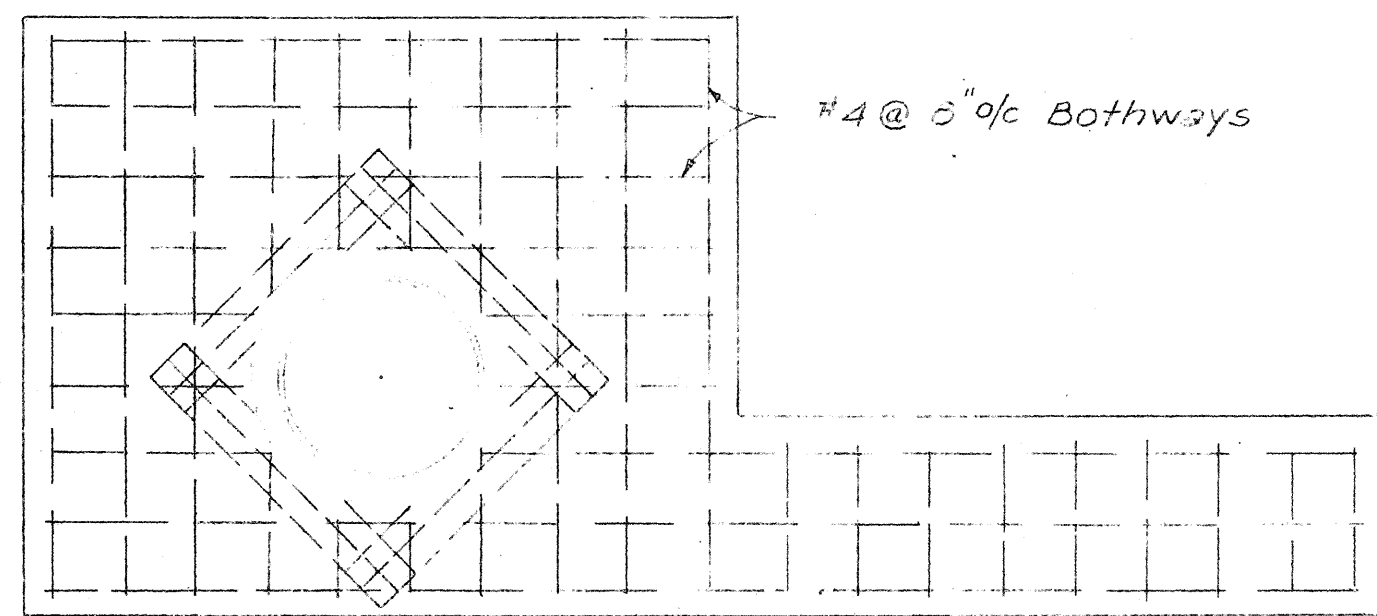
| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO.       | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | F-063-1(3)<br>F-083-1(9) | 1969        | 13        | 22           |



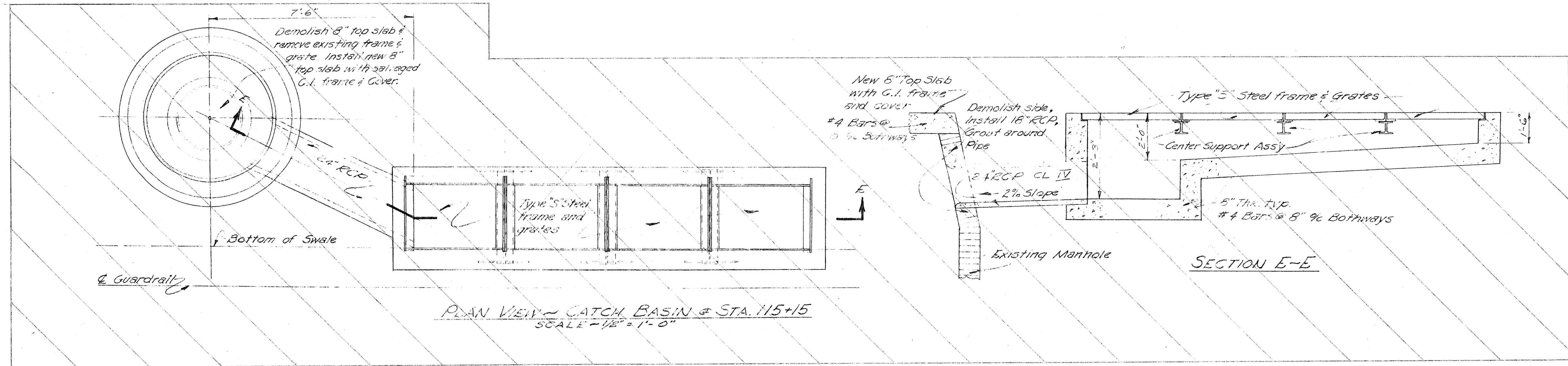
SECTION B  
Scale: 1/2"=1'-0"



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

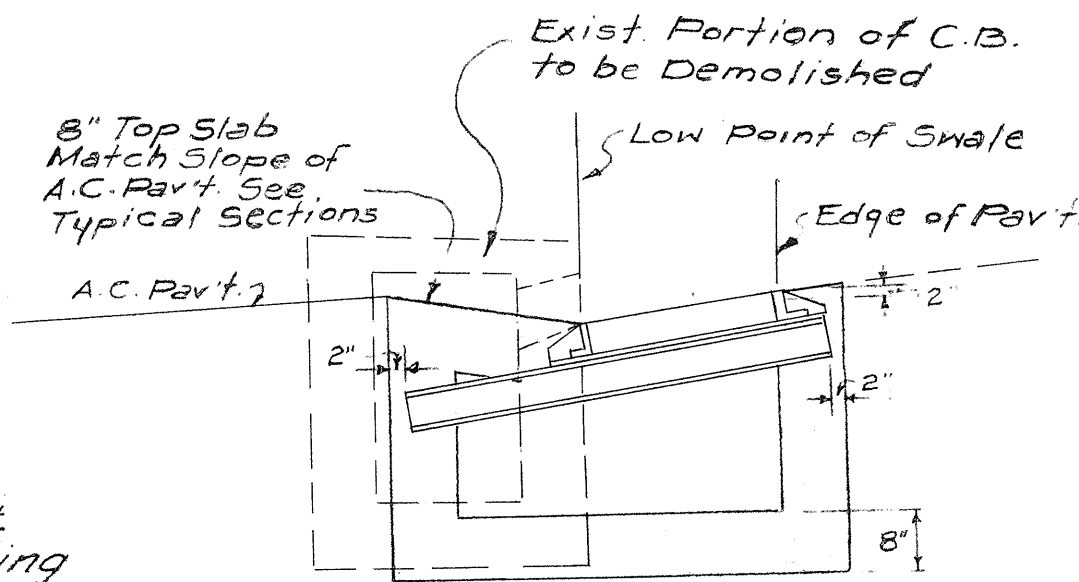


TOP SLAB REINFORCING PLAN  
Scale 1/2"=1'-0"

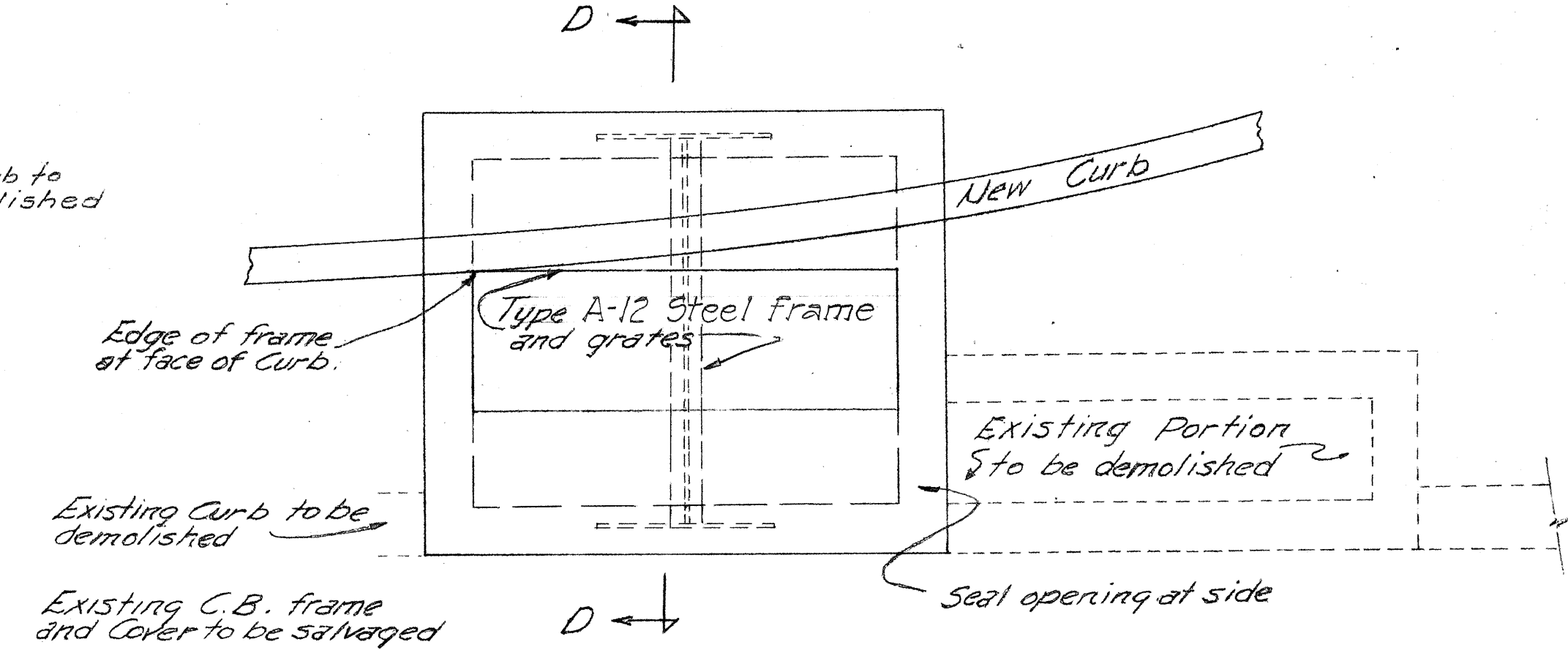


PLAN VIEW - CATCH BASIN @ STA. 115+15  
Scale: 1/2"=1'-0"

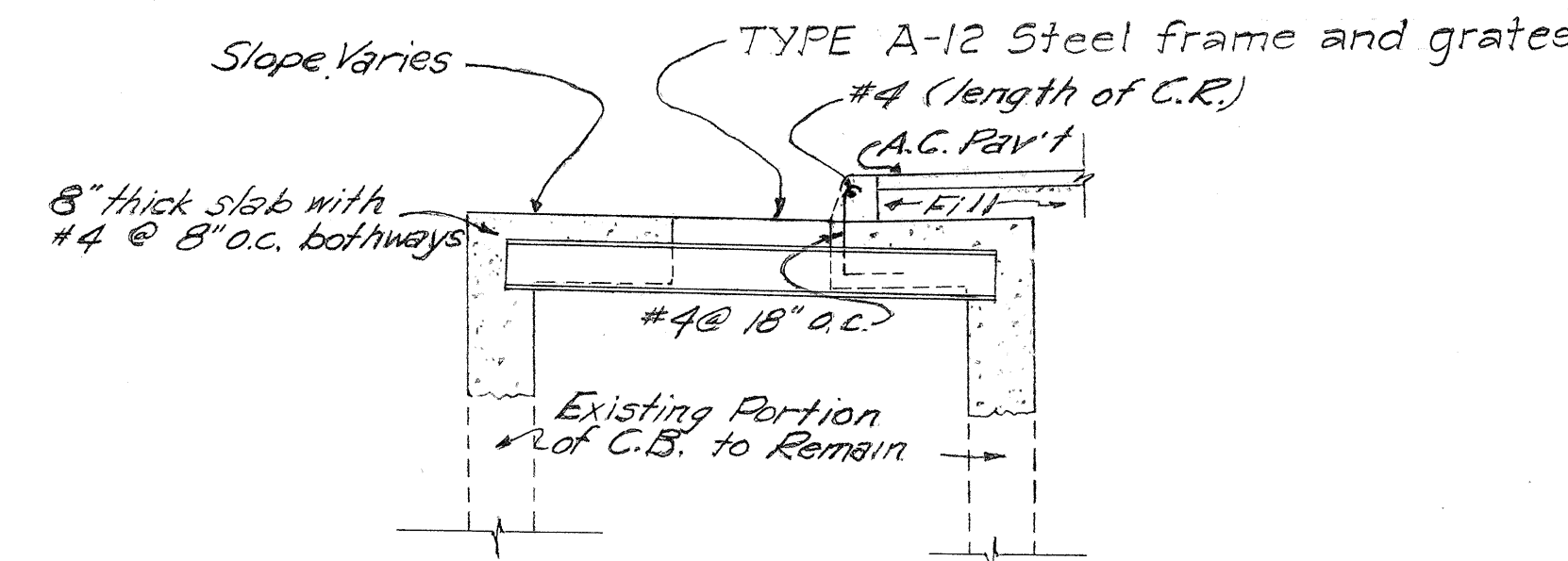
- NOTES:
1. To be used for the C.B. at the following stations between Wilson Tunnel & Kanehameha Highway.  
Sta. 21+00 50+00  
25+50 54+21  
43+45
  2. Reconstruction of Type "B" C.B. at Sta. 21+50 (Section K) to be similar except opposite hand.
  3. Reconstruct Type "D" C.B. at Sta. 58+75 (Kaneohe side of Wilson Tunnel) using details for Const. of type "C" C.B. Place opening for grating on upstream of flow of Swale.



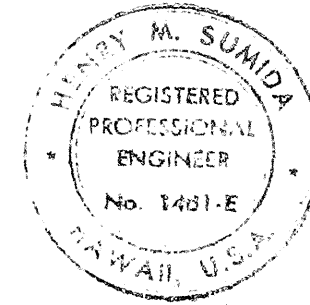
SECTION "A-A"  
Scale: 1/2"=1'-0"



RECONSTRUCTION OF  
TYPE "C" C.B. AT STA.  
53+30  
Scale 1/2"=1'-0"



SECTION D-D  
Scale 1/2"=1'-0"



THIS WORK WAS PREPARED BY  
ME OR UNDER MY SUPERVISION.

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
CATCH BASIN RECONSTRUCTION  
DETAILS

F.A. PROJ. NO. F-063-1(3)  
F.A. PROJ. NO. F-083-1(9)  
Scale: As Noted May, 1969  
SHEET No. 3 OF 3 SHEETS