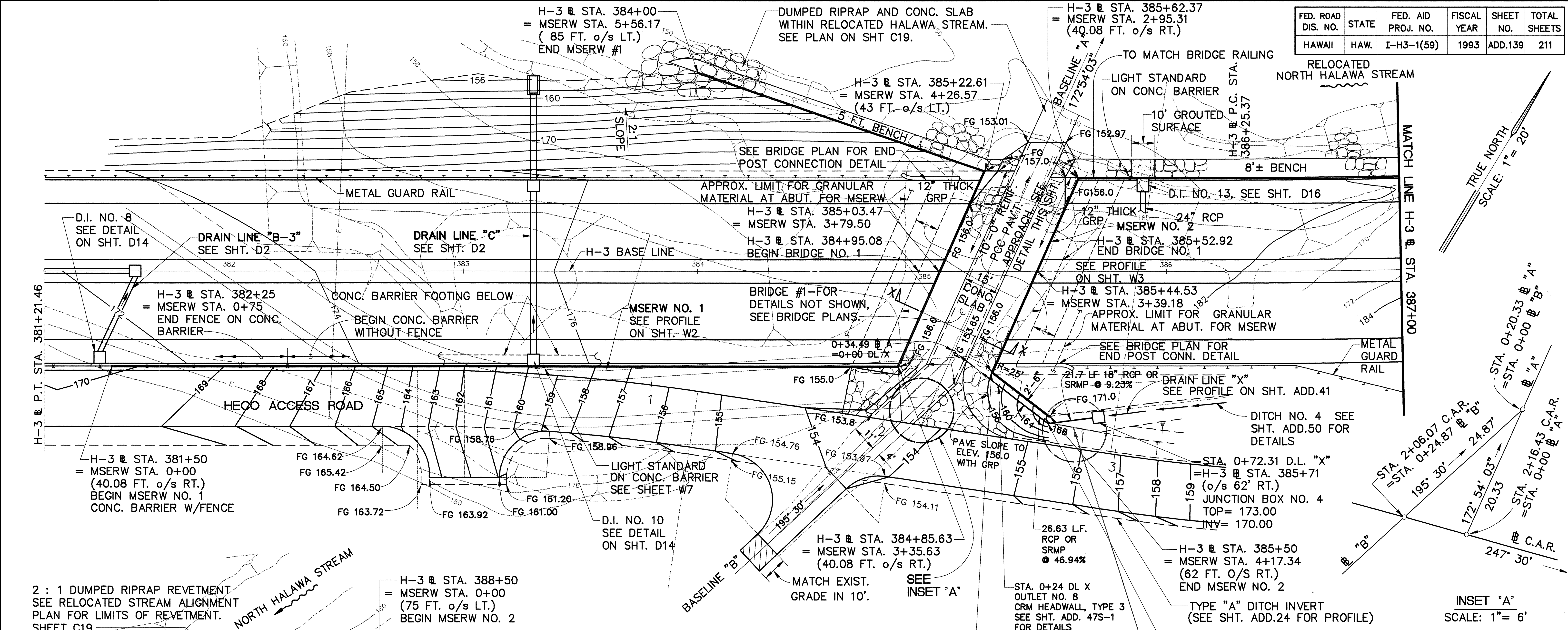
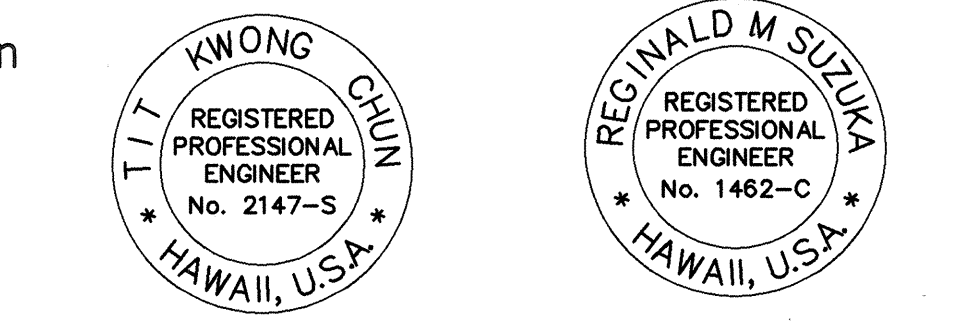
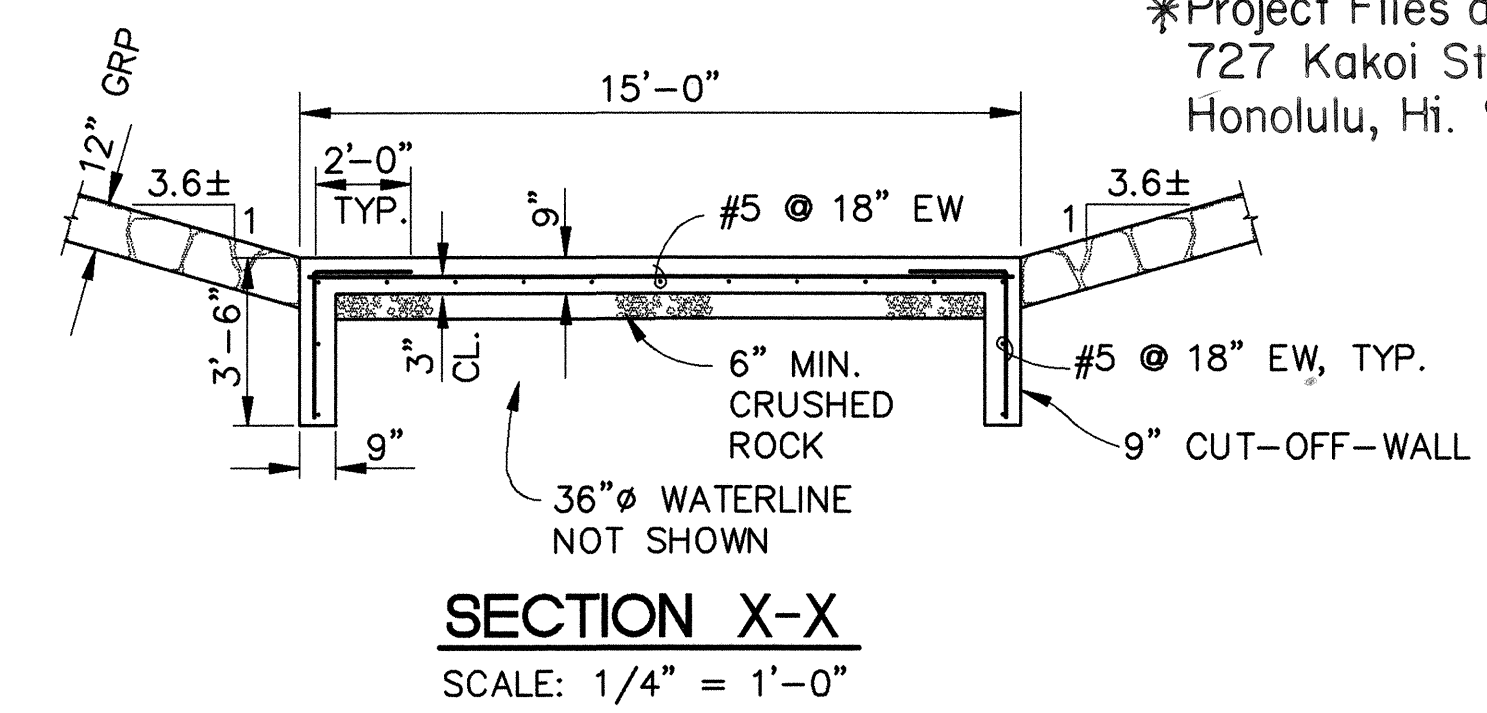
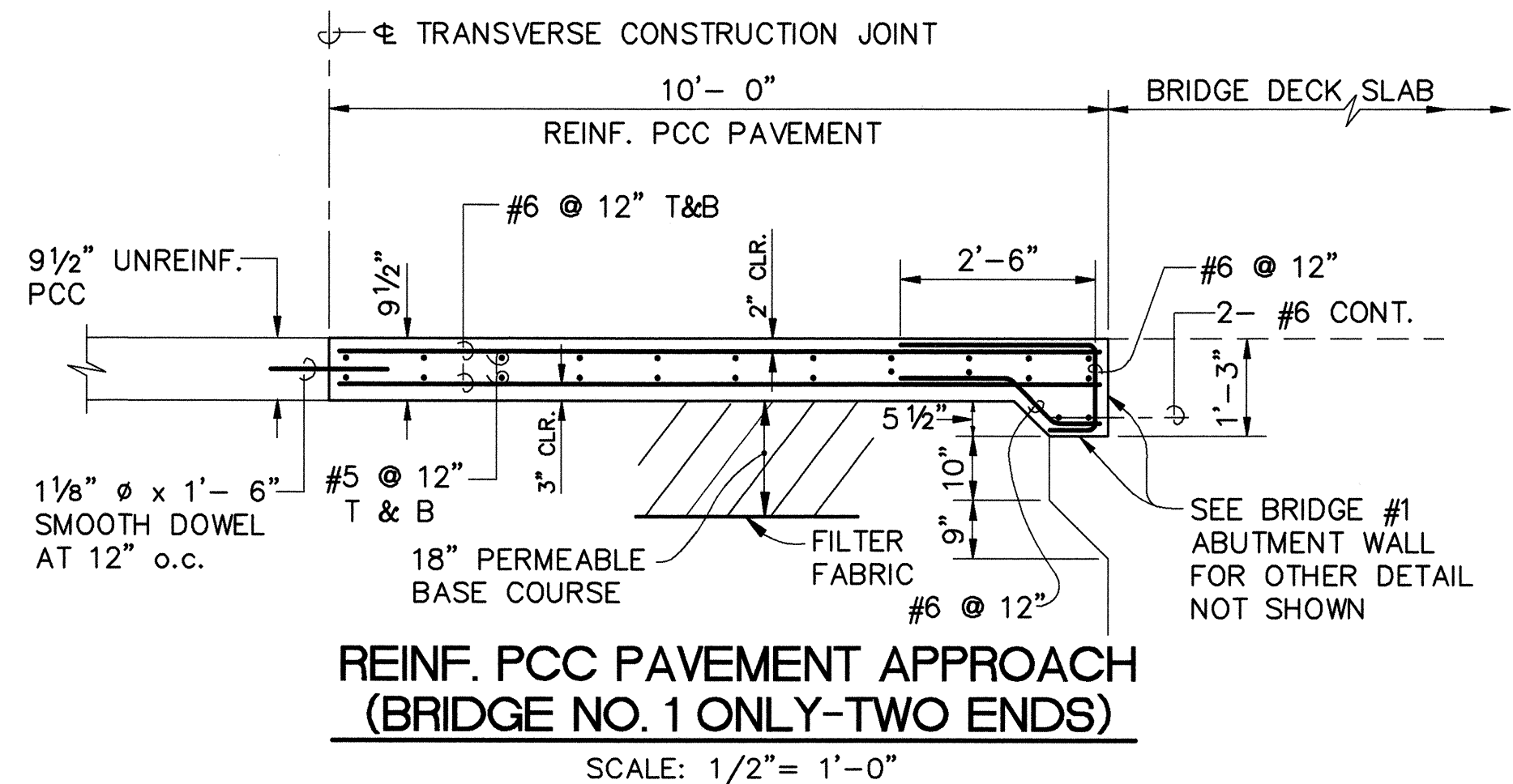
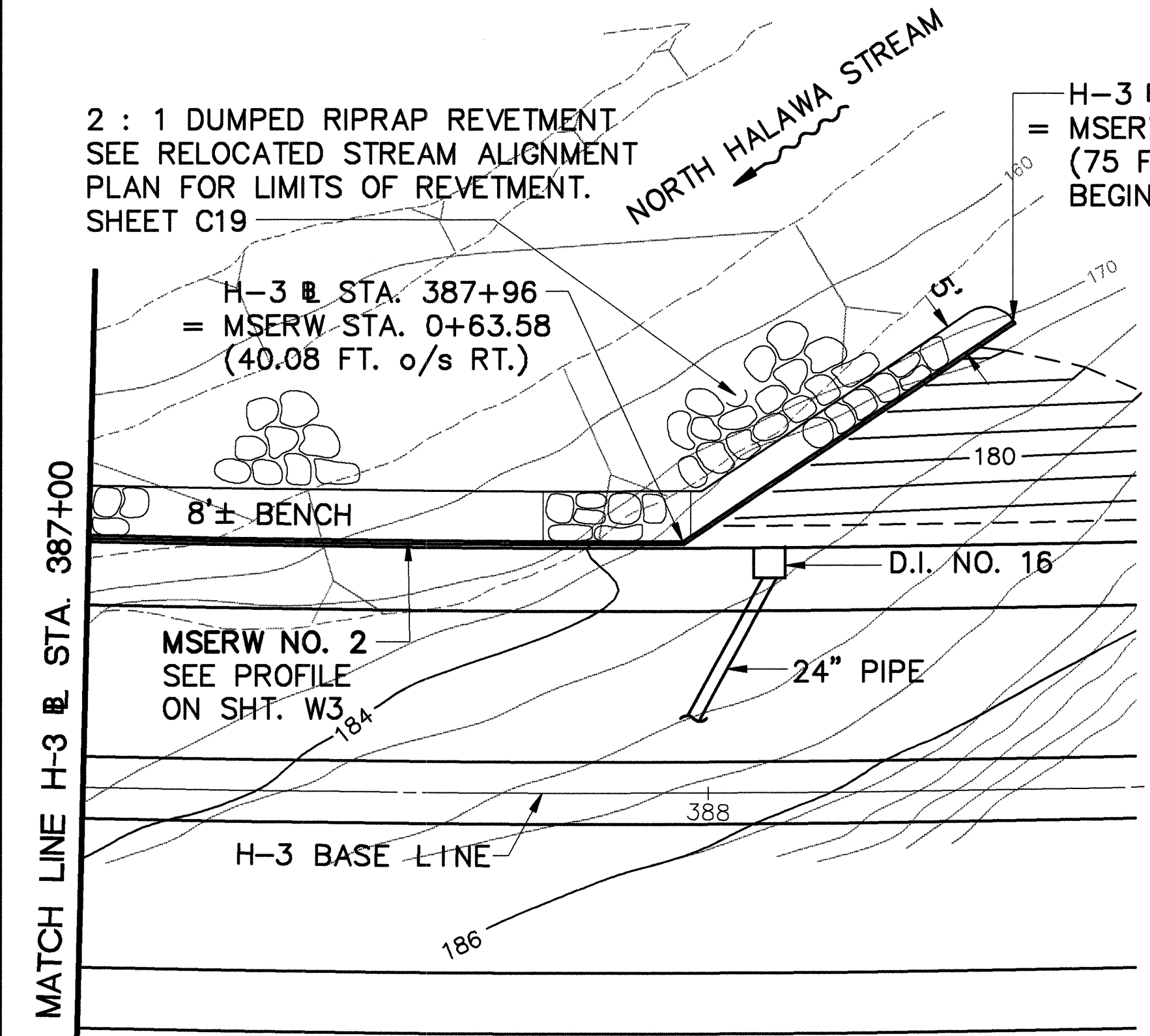


FED. ROAD DIS. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(59)	1993	ADD.139	211



PLAN - MSERW NO. 1 AND NO. 2
SCALE: 1" = 20'



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
 Kwong Chun
 REG. ENG. NO. 2147-S
 HAWAII, U.S.A.
 THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
 Reginald M. Suzuki
 REG. ENG. NO. 1462-C
 HAWAII, U.S.A.

*** SIGNATURE HAS BEEN DIGITIZED ***

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

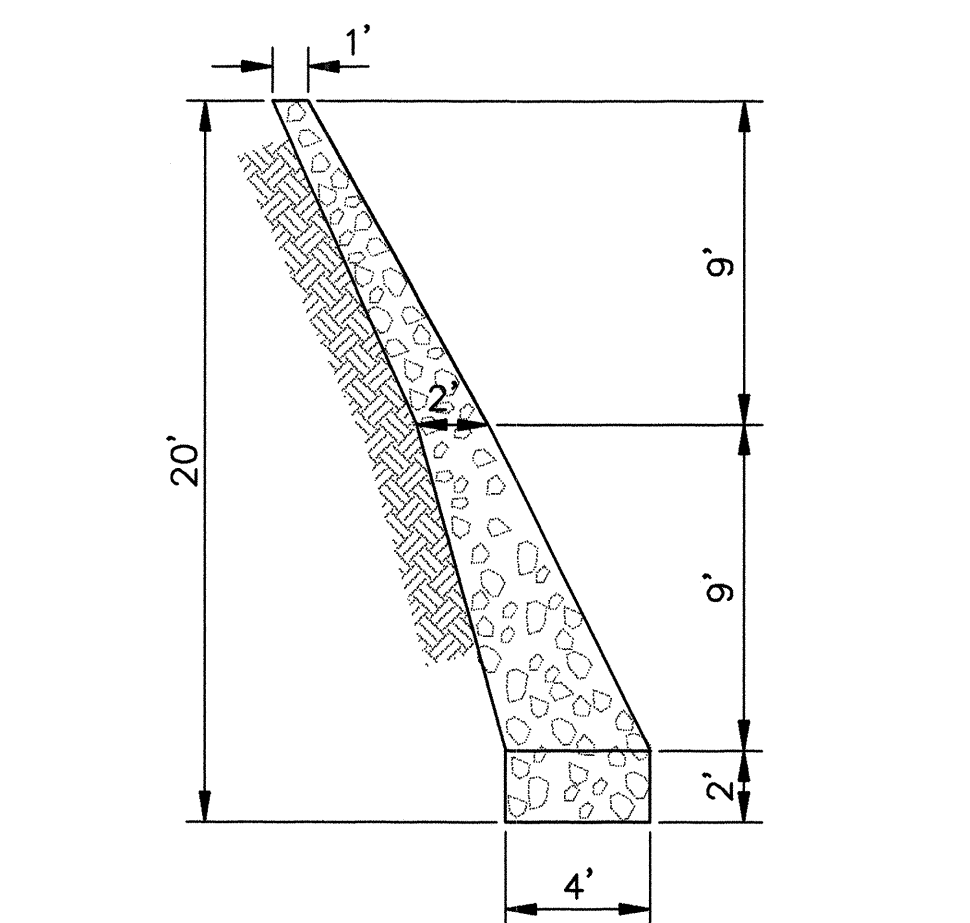
PLAN
MSERW NO. 1 AND NO. 2

INTERSTATE ROUTE H-3
 F.A.I. PROJECT NO. I-H3-I(59)

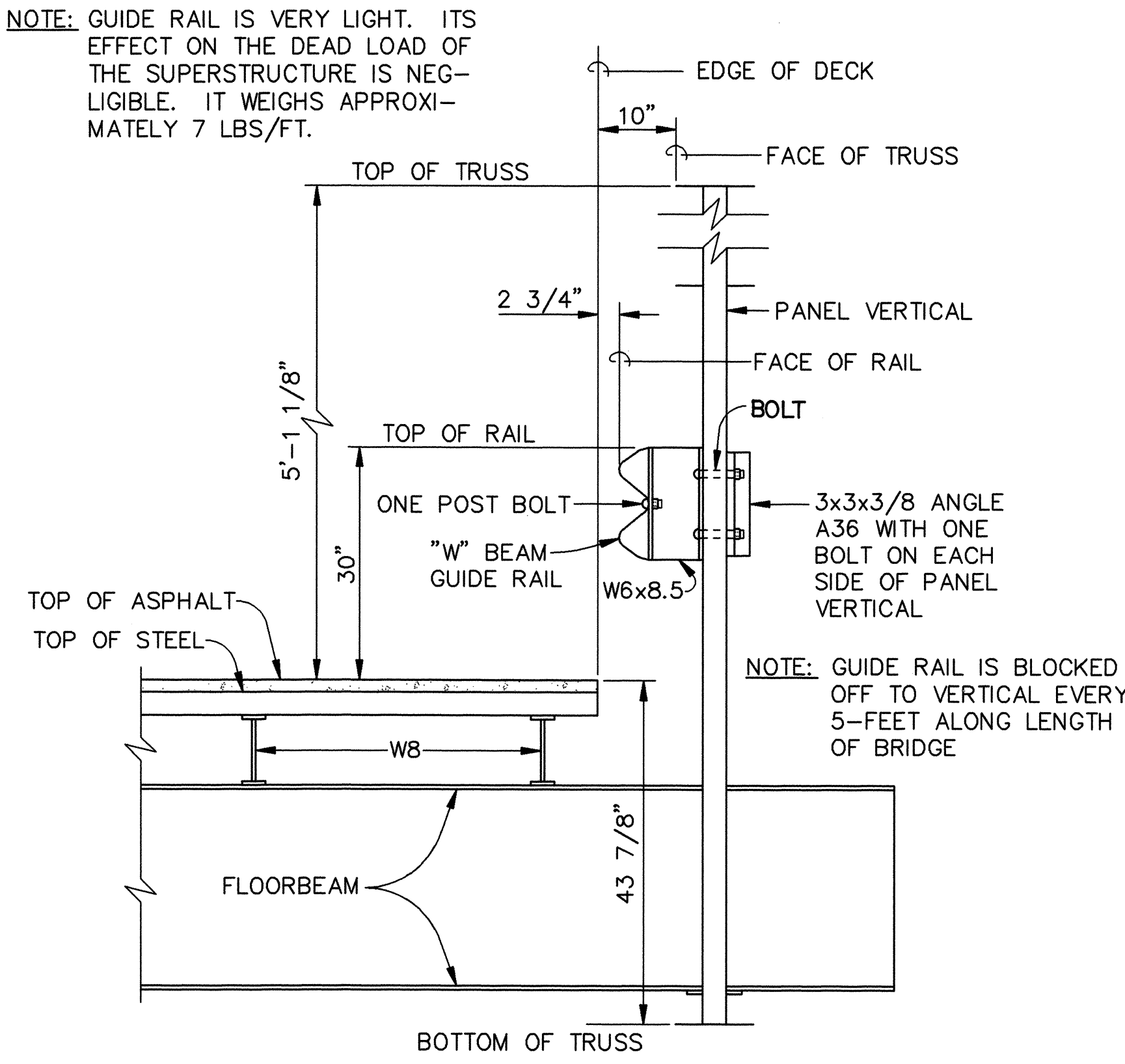
SCALE: AS SHOWN DATE: JUNE 1993
 SHEET No. W1 OF 7 SHEETS

9/30/93	REVISED C.A.R. AND ADDED DRAIN LINE "X"
DATE	REVISION

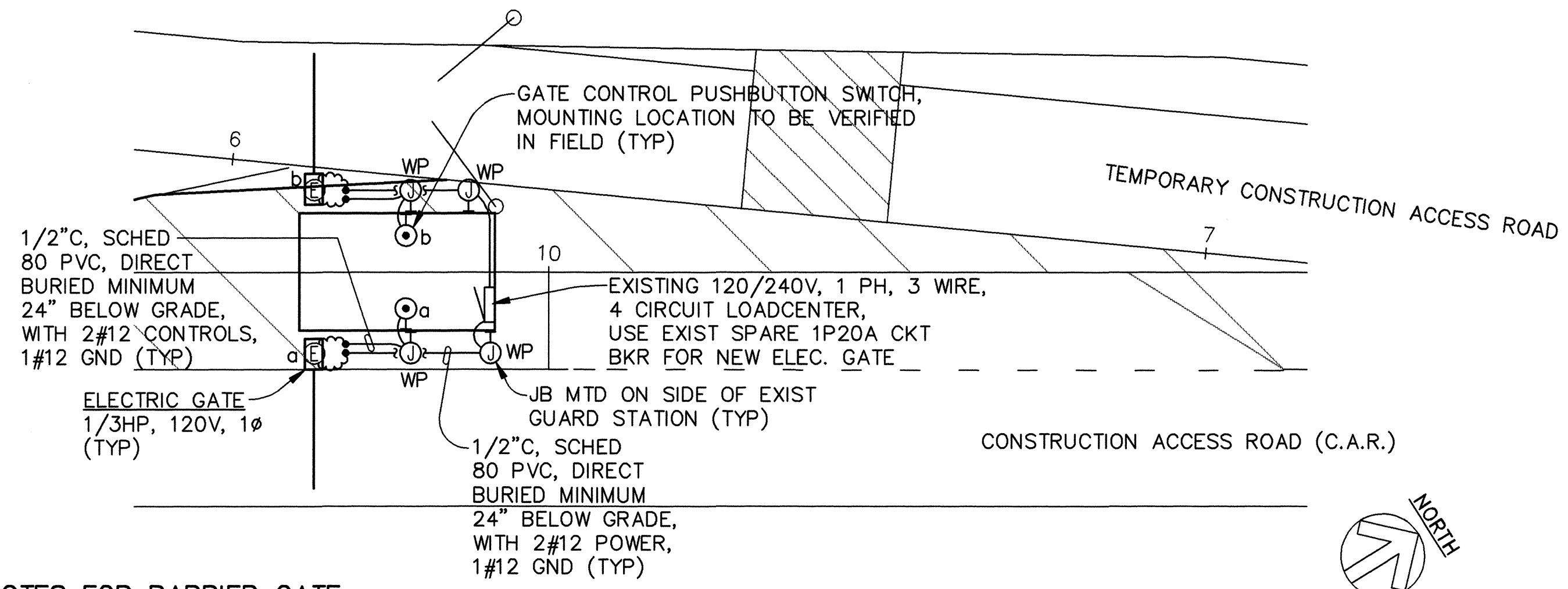
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(59)	1993	139S-1	-



SECTION OF GRP LINING
AT END OF MSERW NO. 2
SCALE: 3/16" = 1'-0"
RFI NO. 128 DATED 11/3/94 *



"W" GUIDE RAIL DETAIL
SCALE: 3/4" = 1'-0"
C.C.O. NO. 15
PROJECT NO. I-H3-1(59) *



NOTES FOR BARRIER GATE:

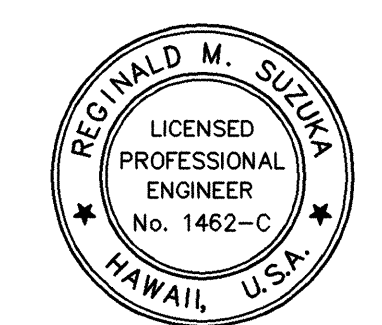
1. THE BARRIER GATE SHALL BE FEDERAL APD MODEL G-89 OR APPROVED EQUIVALENT, WITH SAFETY EDGE FEATURE TO AUTOMATICALLY REVERSE THE GATE ARM DOWNWARD MOTION SHOULD ANY OBJECT BE STRUCK BY THE GATE ARM DURING ITS DESCENT. THE GATE ARM SHALL IMMEDIATELY RETURN TO THE UPRIGHT POSITION AND REMAIN SO UNTIL AUTOMATICALLY RESET BY THE VARIABLE TIMER CONTROL.
2. THE GATE SHALL BE RAISED AND LOWERED BY A REMOTE PUSHBUTTON SWITCH LOCATED INSIDE THE GUARD STATION.
3. THE CABINET SHALL BE MOUNTED ON A CONCRETE PAD OF THE SIZE AND QUALITY AS RECOMMENDED BY THE BARRIER GATE MANUFACTURER.
4. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
5. THE CONTRACTOR SHALL VERIFY LOCATION SHOWN FOR THE GATE WITH THE ENGINEER PRIOR TO STARTING HIS WORK.
6. THE CONTRACTOR SHALL VERIFY EXACT ELECTRICAL REQUIREMENTS WITH GATE MANUFACTURER.
7. THE CONTRACTOR SHALL SAWCUT & PATCH EXISTING AC PAVEMENT FOR UNDERGROUND CONDUITS.
8. ALL ELECTRICAL INSTALLATION SHALL COMPLY WITH THE LATEST EDITION OF THE N.E.C.

ELECTRIC GATE PLAN
SCALE: 1" = 20'
C.C.O. NO. 12
PROJECT NO. I-H3-1(59) *

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	TRACED BY	
	QUANTITIES BY	
	CHECKED BY	

NOTE: THIS TRACING PREPARED DURING "AS-BUILT" POSTING.

* PROJECT FILES ARE LOCATED AT
727 KAKOI STREET, HONOLULU, HI. 86819



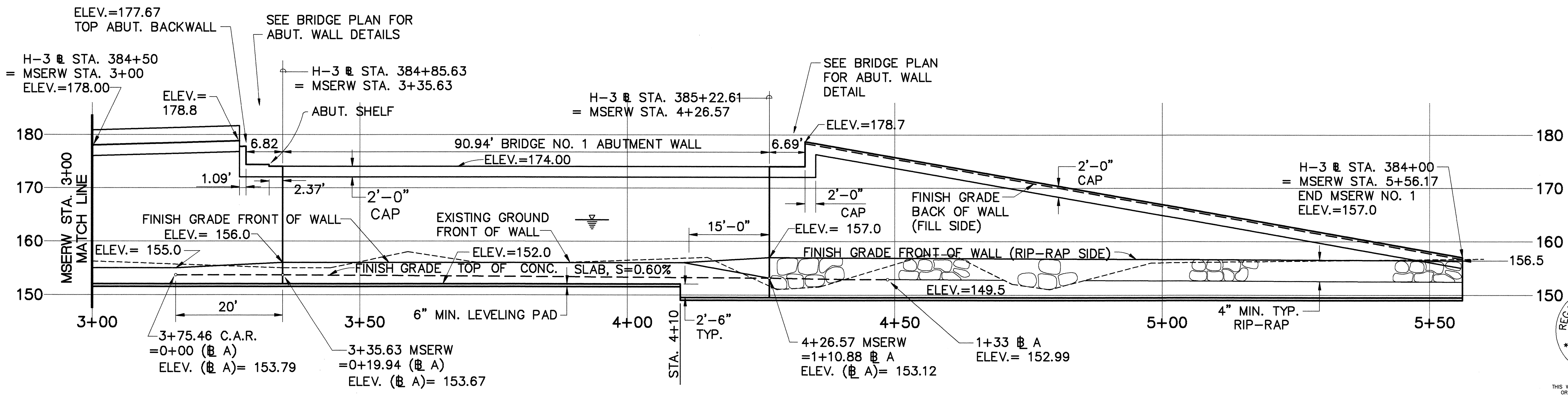
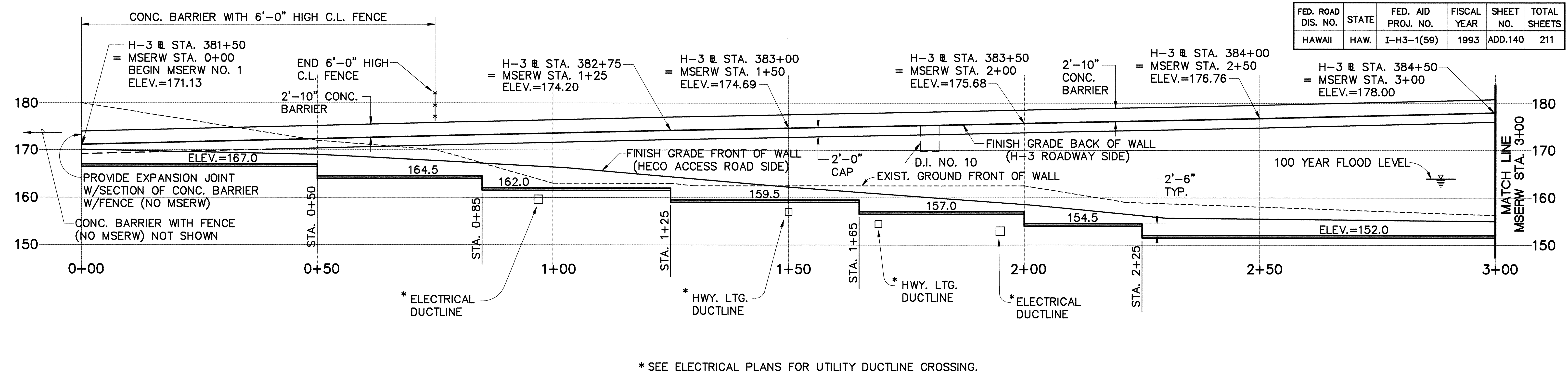
THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION
Reginald M. Suzuki
P.E., Inc.
dba PARK ENGINEERING

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

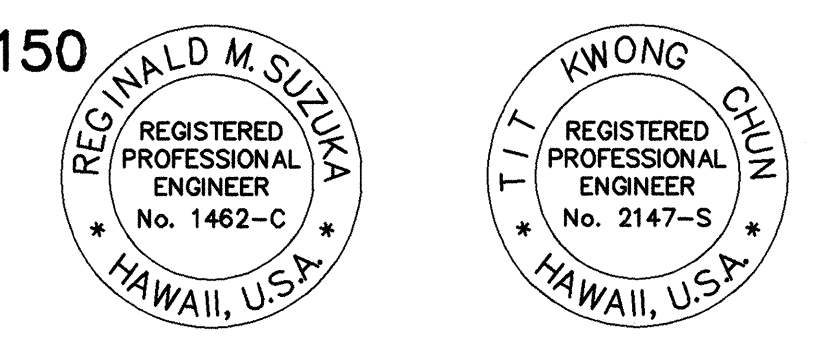
MISCELLANEOUS DETAILS

INTERSTATE ROUTE H-3
F.A.I. PROJECT NO. I-H3-1(59)
SCALE: AS NOTED DATE:
SHEET No. OF SHEETS
139S-1

FED. ROAD DIS. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(59)	1993	ADD.140	211



PROFILE - MSRW NO. 1
 SCALE: HORIZ. 1"= 10'
 VERT. 1"= 10'



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Reginald M. Suzuki
 REG. PROFESSIONAL ENGINEER No. 1462-C HAWAII, U.S.A.
 THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Kwong Chun
 REG. PROFESSIONAL ENGINEER No. 2147-S HAWAII, U.S.A.
 *** SIGNATURE HAS BEEN DIGITIZED ***

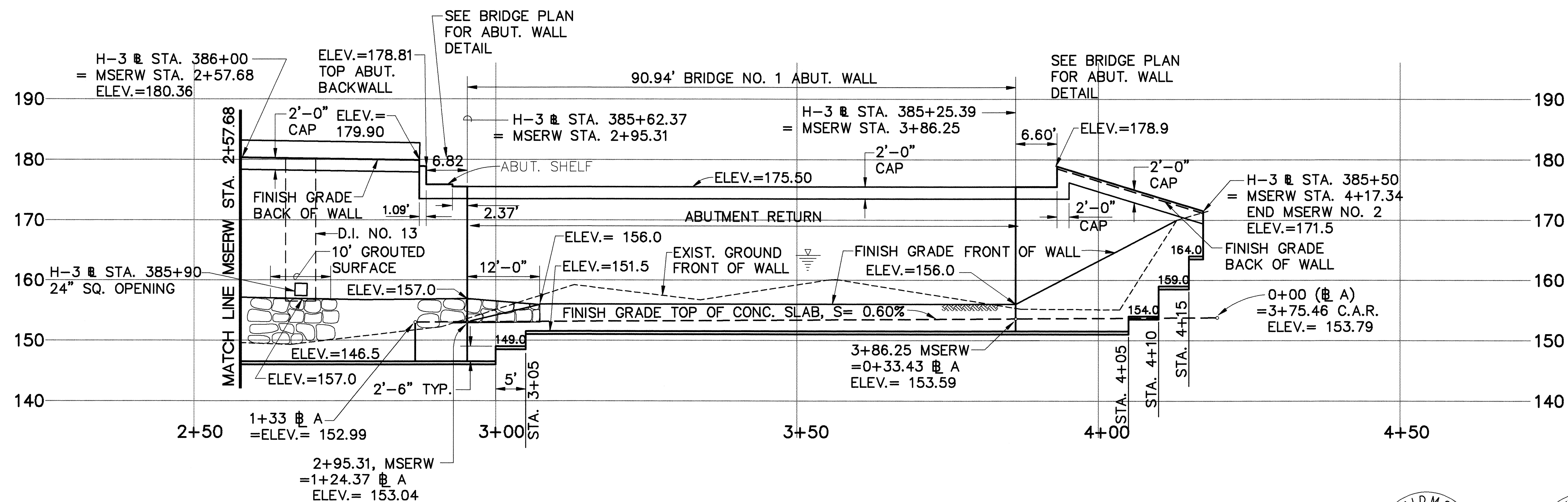
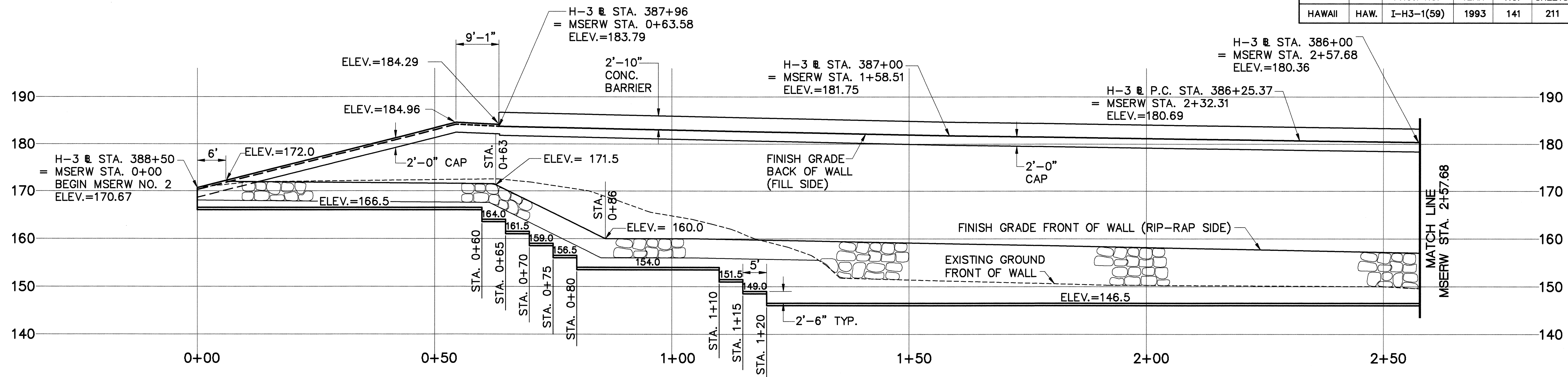
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

PROFILE
MSRW NO. 1

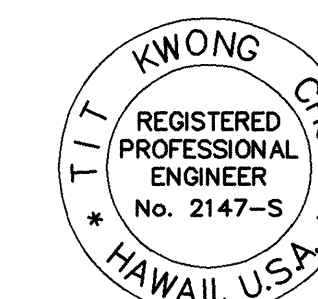
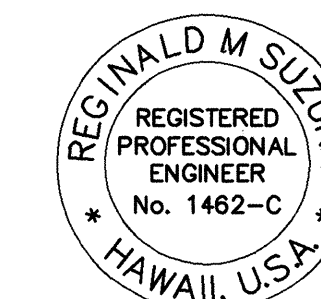
 INTERSTATE ROUTE H-3
 F.A.I. PROJECT NO. I-H3-I(59)
 SCALE: AS SHOWN DATE: JUNE 1993
 SHEET No. W2 OF 7 SHEETS

9/30/93
 DATE
 REVISION

FED. ROAD DIS. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(59)	1993	141	211



PROFILE - MSERW NO. 2
SCALE: HORIZ. 1" = 10'
VERT. 1" = 10'



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OR UNDER MY SUPERVISION
Reginald M. Suzuki
dba PARK ENGINEERING

THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION
Tit Kwong Chun
dba PARK ENGINEERING

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

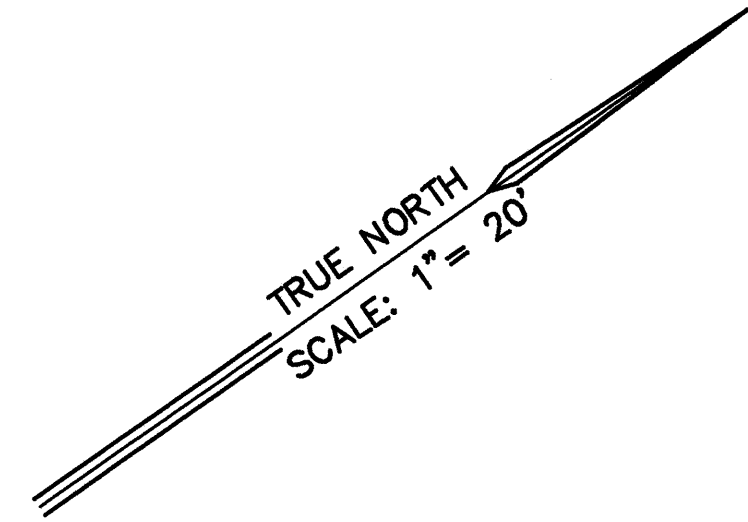
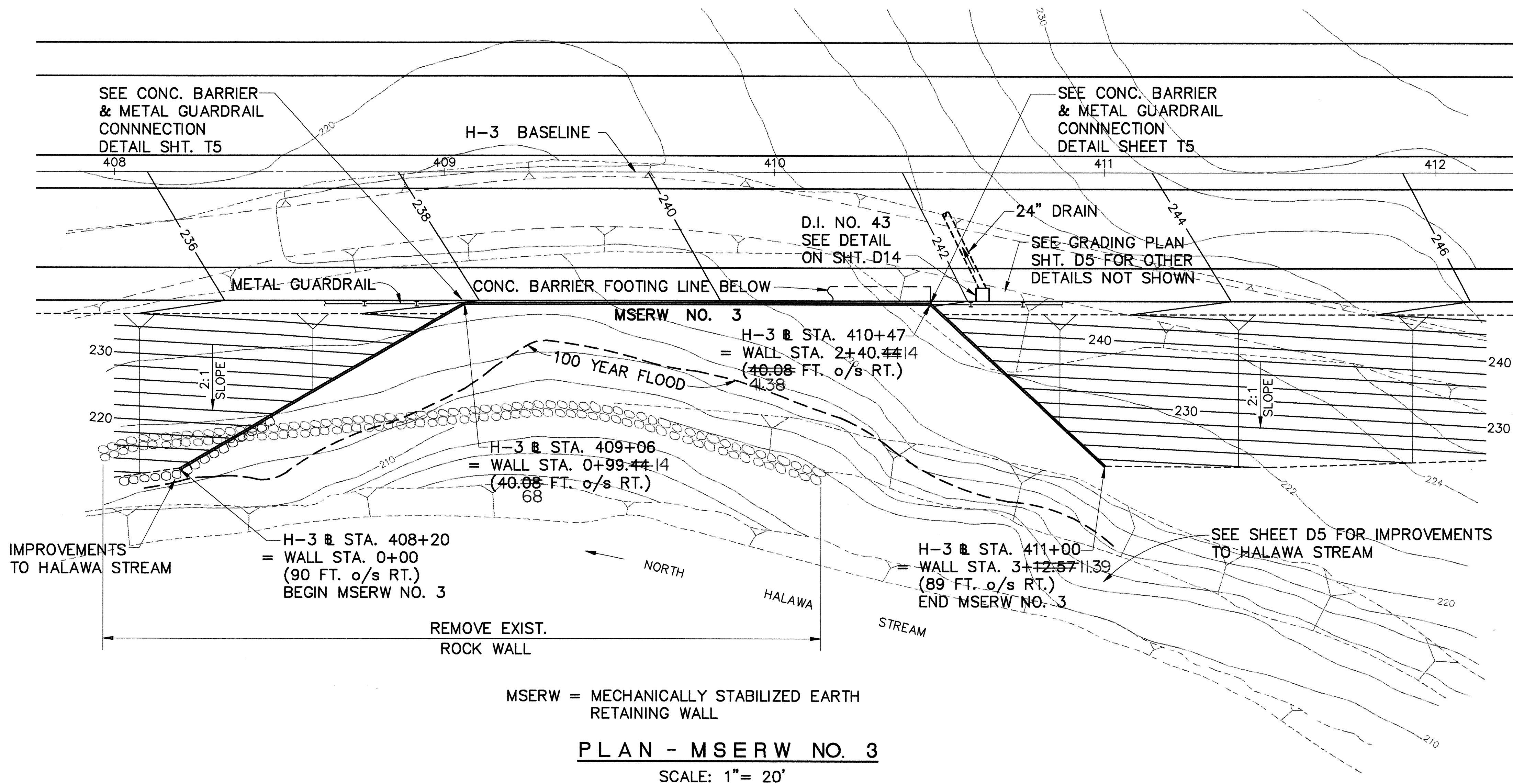
**PROFILE
MSERW NO. 2**

INTERSTATE ROUTE H-3
F.A.I. PROJECT NO. I-H3-1(59)

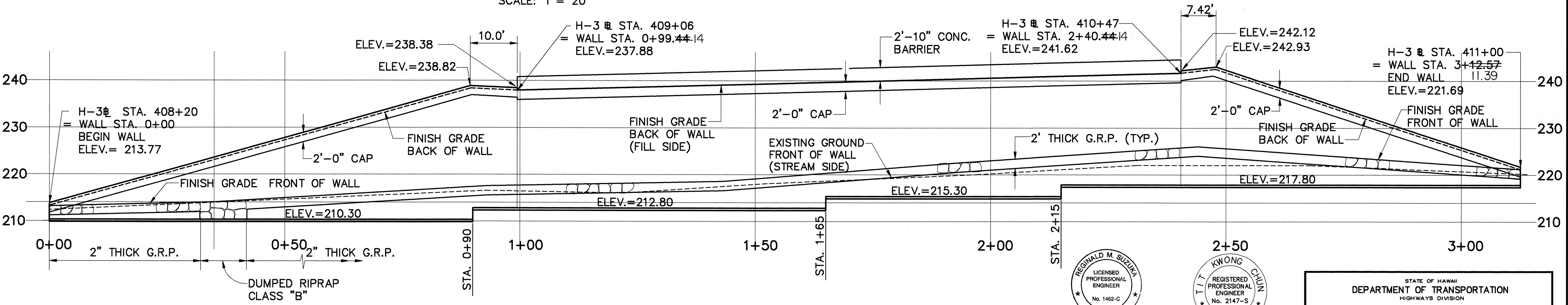
SCALE: AS SHOWN DATE: JUNE 1993

SHEET No. W3 OF 7 SHEETS

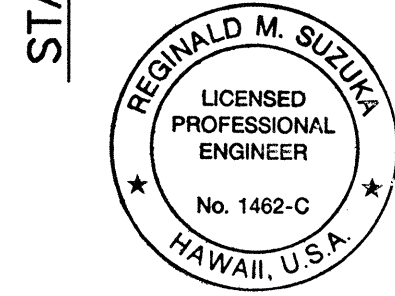
FED. ROAD DIS. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(59)	1993	ADD.142	211



SURVEY DATA FOR MSR NO. 3					
Sta.	Azi.	Dist.	N/S	E/W	Desc.
P.O.T. 408+00			80206.769	533310.195	
	222-49-03	20.00	80221.439	533323.788	P.O.T. 408+20
Wall Sta. 0+00			80160.270	533389.805	90' o/s Rt.
	222-49-03	86.00	80284.522	533382.240	P.O.T. 409+06
Wall Sta. 0+99.14			80256.874	533412.079	40.68' o/s Rt.
	222-49-03	141.00	80387.949	533478.072	P.O.T. 410+47
Wall Sta. 2+40.14			80359.824	533508.426	41.38' o/s Rt.
	222-49-03	53.00	80426.826	533514.095	P.O.T. 411+00
Wall Sta. 3+11.39			80366.335	533579.378	89' o/s Rt.



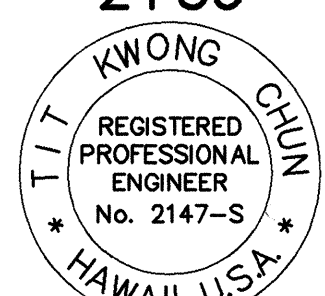
SURVEY PLANNED BY	DATE
DRAWN BY	
CHECKED BY	
QUANTITIES BY	
ORIGINAL PLAN	
NO. _____	



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Reginald M. Suzuki

Park, Inc. dba PARK ENGINEERING



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Kwong Chun

Park, Inc. dba PARK ENGINEERING

*** SIGNATURE HAS BEEN DIGITIZED ***

9/30/93	ADDED PROFILE OF NEW GRP TO PROFILE
DATE	REVISION

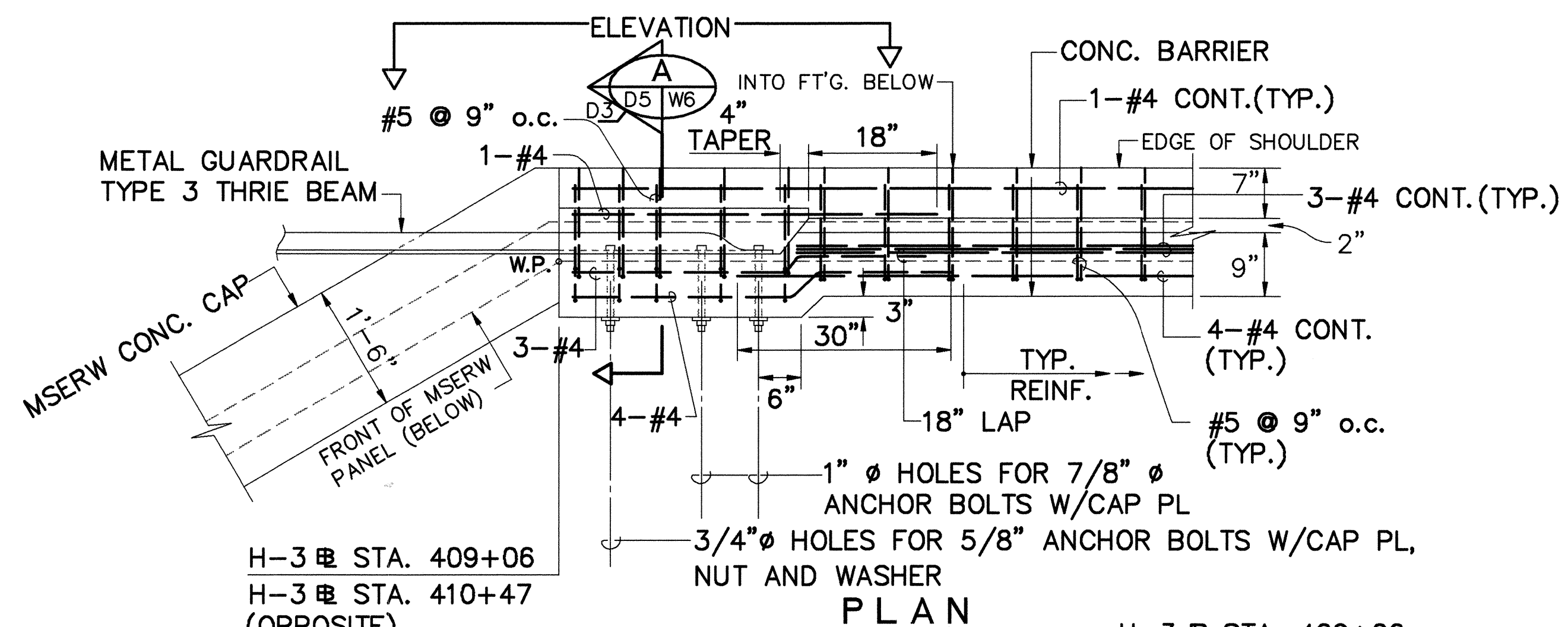
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN AND PROFILE
MSRW NO. 3
 INTERSTATE ROUTE H-3
 F.A.I. PROJECT NO. I-H3-1(59)
 SCALE: AS SHOWN DATE: JUNE 1993
 SHEET No. W4 OF 7 SHEETS

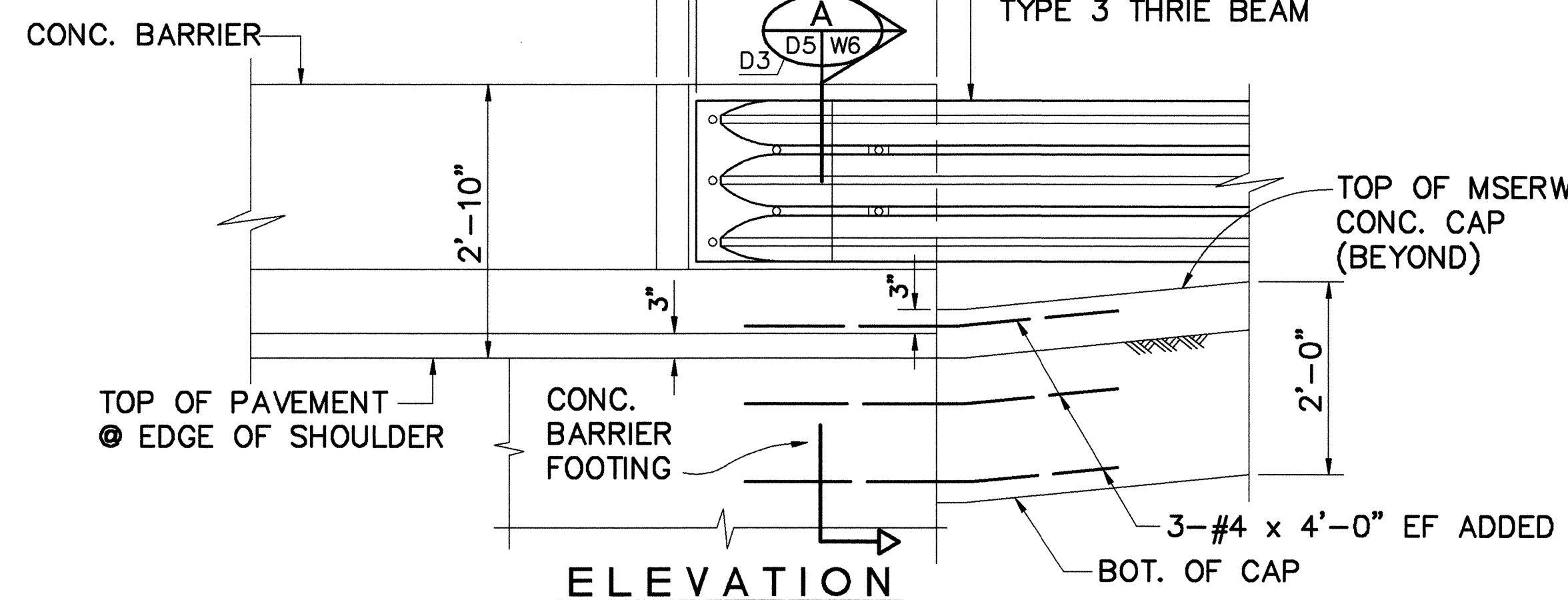
ORIGINAL PLAN	SURVEY PLOTTED BY _____ DATE _____
NOTEBOOK	DRAWN BY _____
	TRACED BY _____
	DESIGNED BY _____
	QUANTITIES BY _____
No. _____	CHECKED BY _____



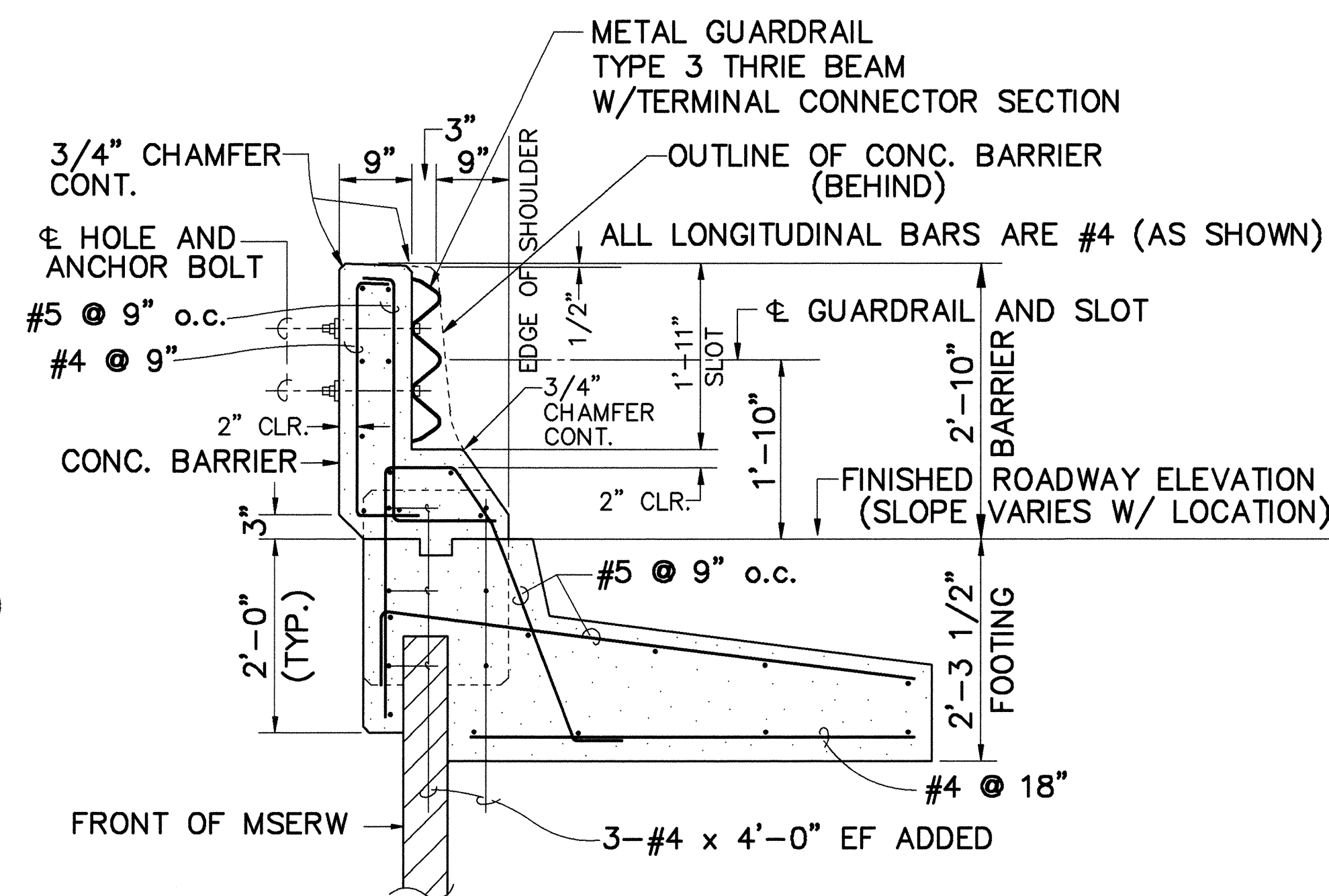
FED. ROAD DIS. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(59)	1993	144	211



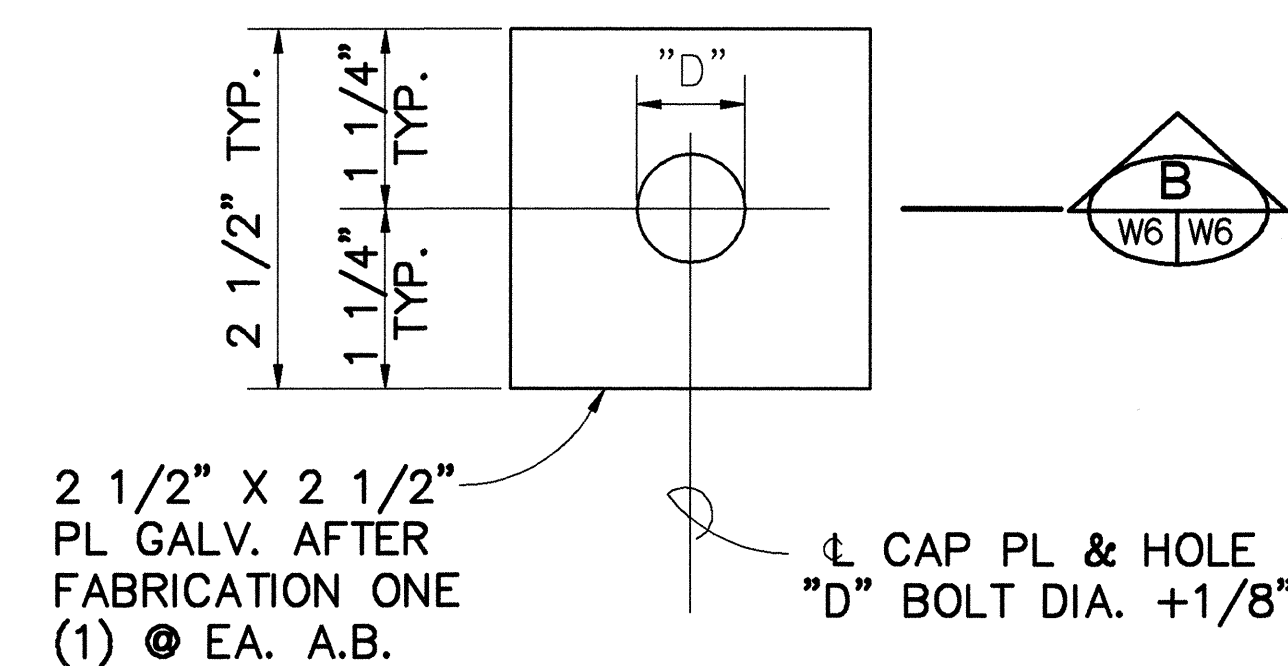
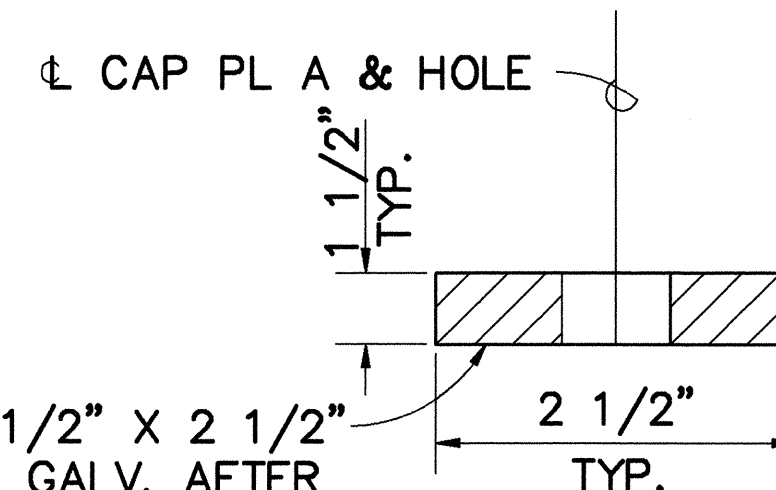
SEE STANDARD PLAN
TE-57 FOR DETAILS



CONC. BARRIER AND METAL GUARDRAIL CONNECTION DETAIL
SCALE: 3/4" = 1'-0"



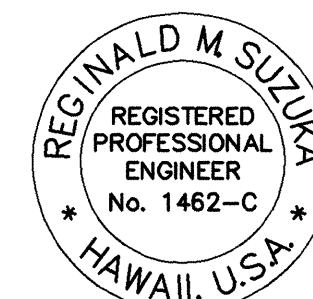
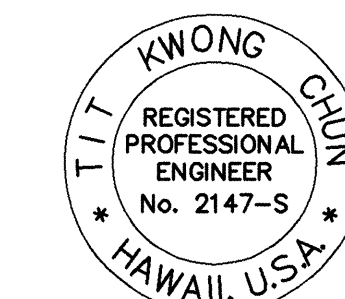
FOR FT'G. DET. & REINF.
SEE SECT. DET., SHT. W5



CAP (BEARING) PLATE DETAIL
SCALE: 3/4" = 1'-0"

NOTE:

- CAP PL SHALL BE FABRICATED FROM ASTM A 36 STEEL AND HOT-DIP GALVANIZED AFTER FABRICATION.
- CAP PL'S, ANCHOR BOLTS INCLUDING NUTS & WASHERS AND OTHER APPURTENANCES SHALL BE INCIDENTAL TO BEAM TYPE GUARDRAIL AND WILL NOT BE PAID FOR SEPARATELY.



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION
DATE: 6/1/93
PARK ENGINEERING

THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION
DATE: 6/1/93
PARK ENGINEERING

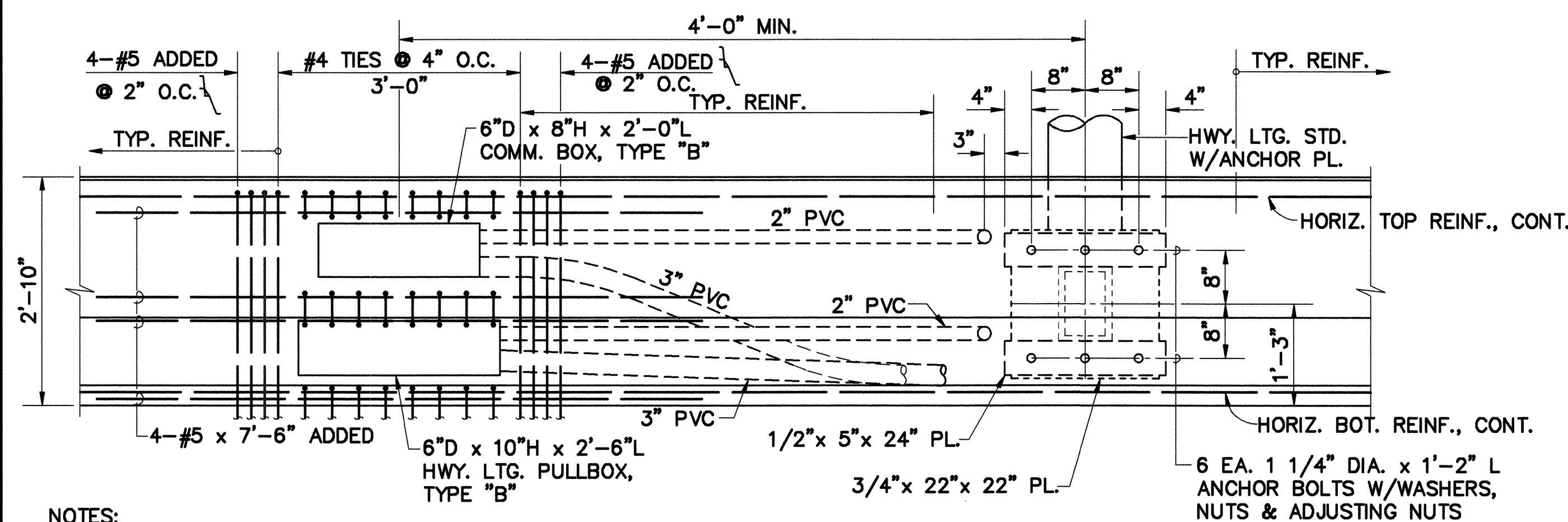
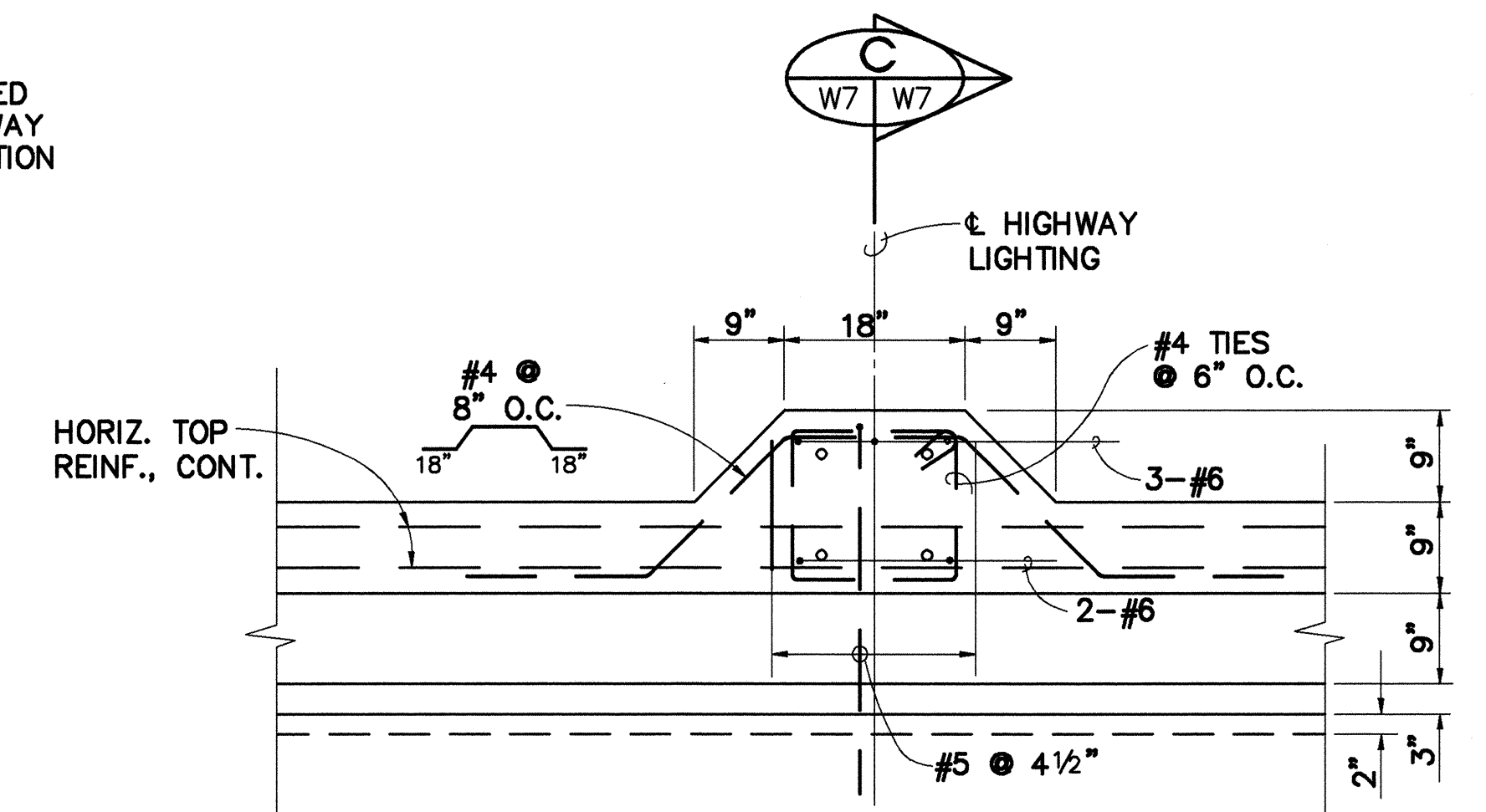
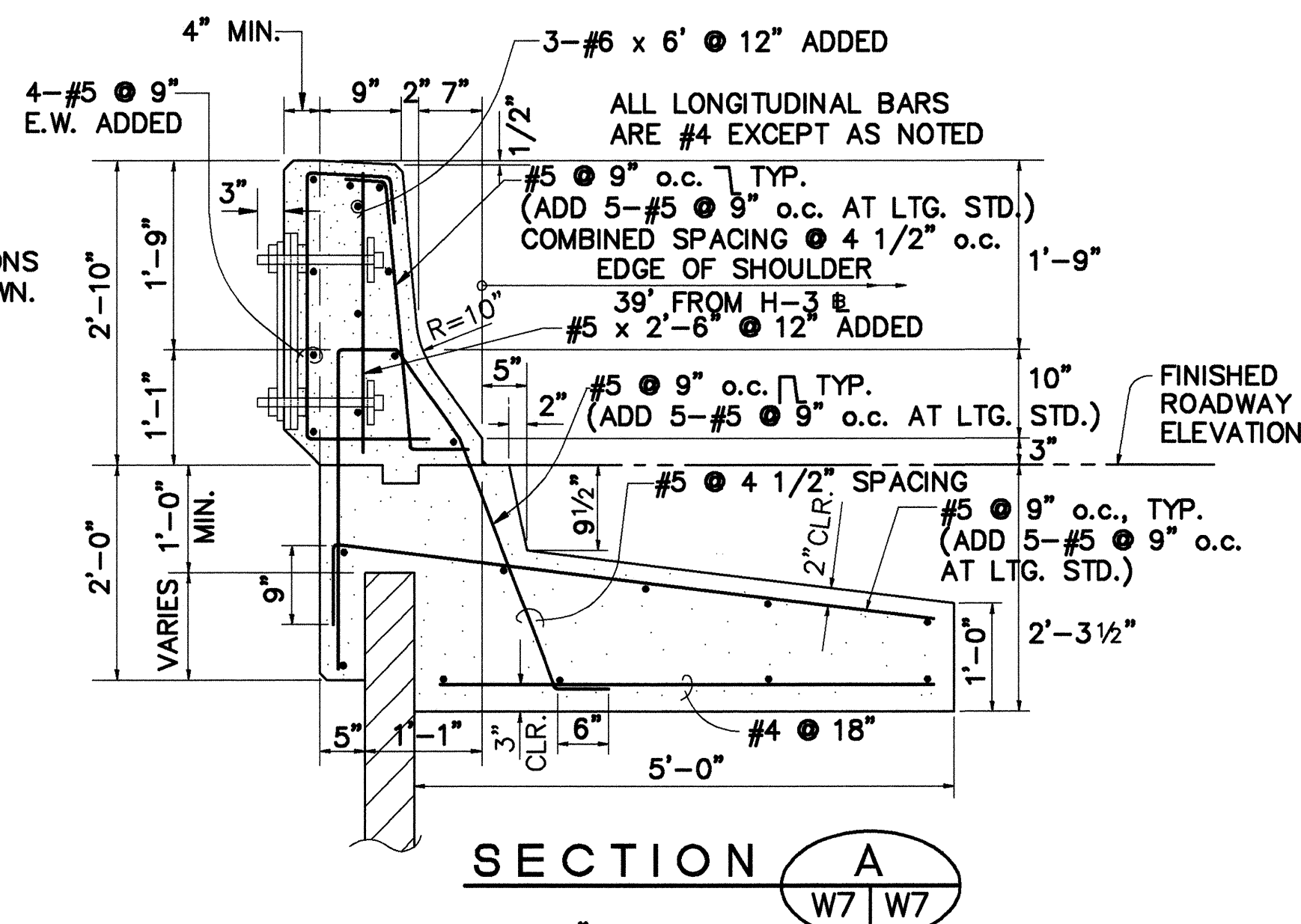
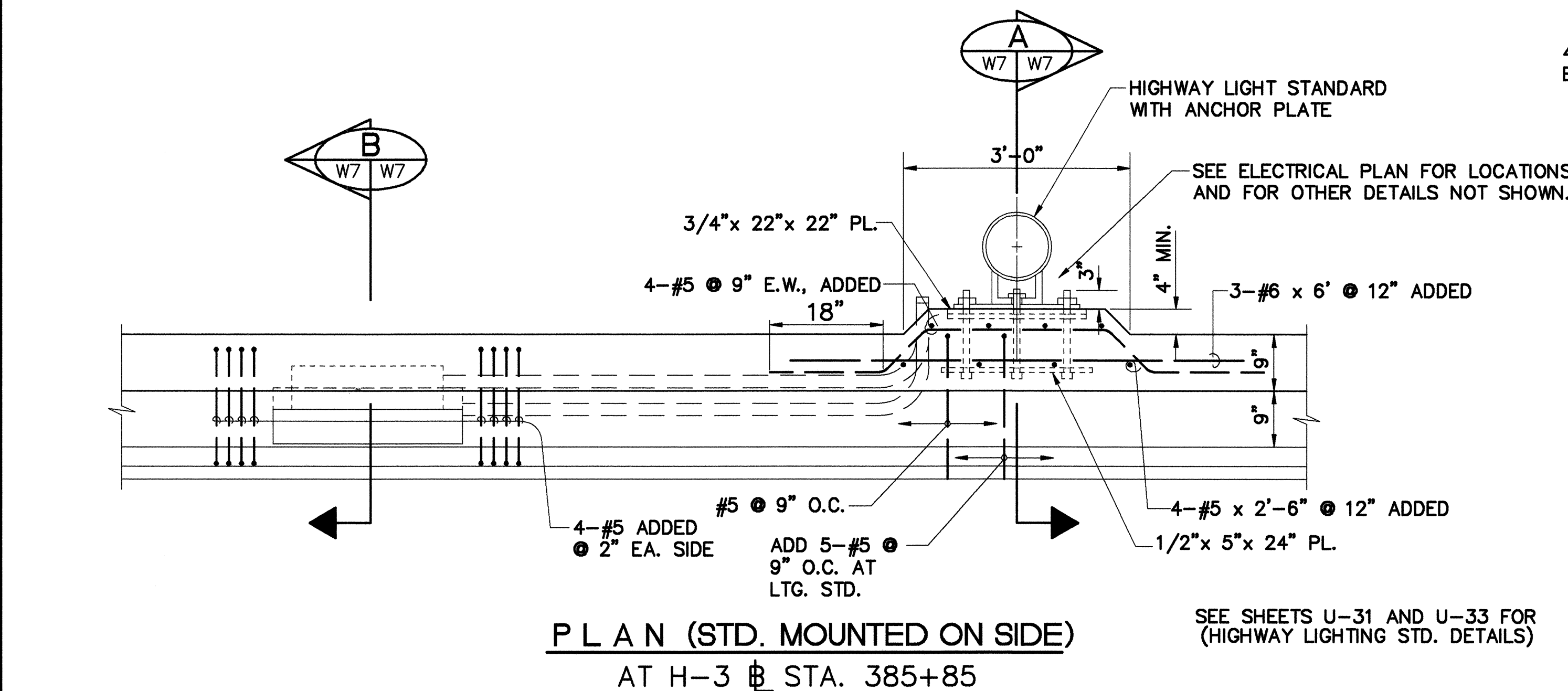
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**MECHANICALLY STABILIZED EARTH
RETAINING WALL (MSERW)
MISCELLANEOUS DETAILS**

INTERSTATE ROUTE H-3
F.A.I. PROJECT NO. I-H3-1(59)

SCALE: AS NOTED DATE: JUNE 1993
SHEET No. W6 OF 7 SHEETS

FED. ROAD DIS. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(68)	1993	145	211



NOTES:

REFER TO ELECTRICAL DWGS. FOR HWY. LTG. & PULLBOX DET.

REPLACE ALL CUT VERTICAL REINFORCEMENTS WITH #5 BARS.

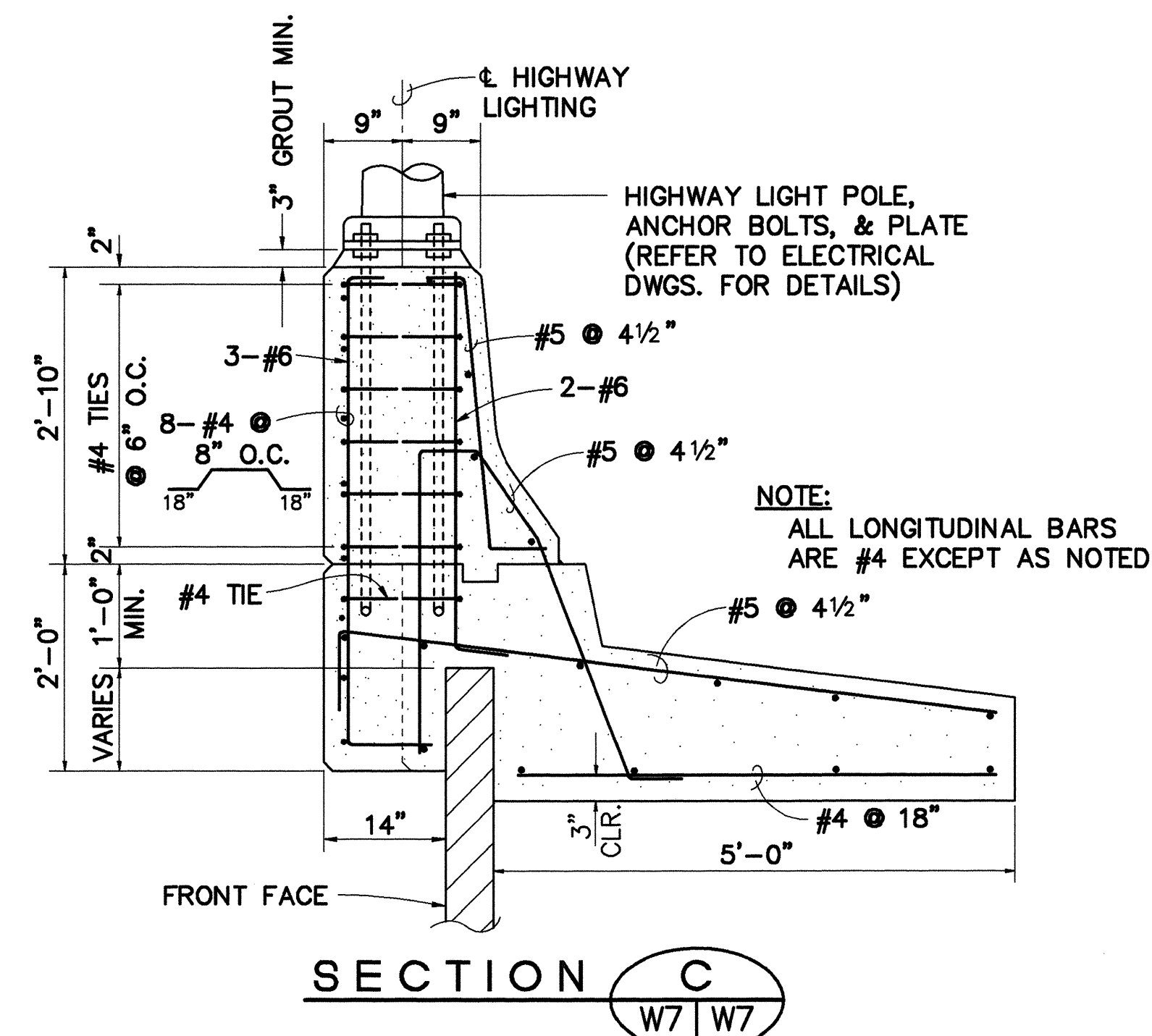
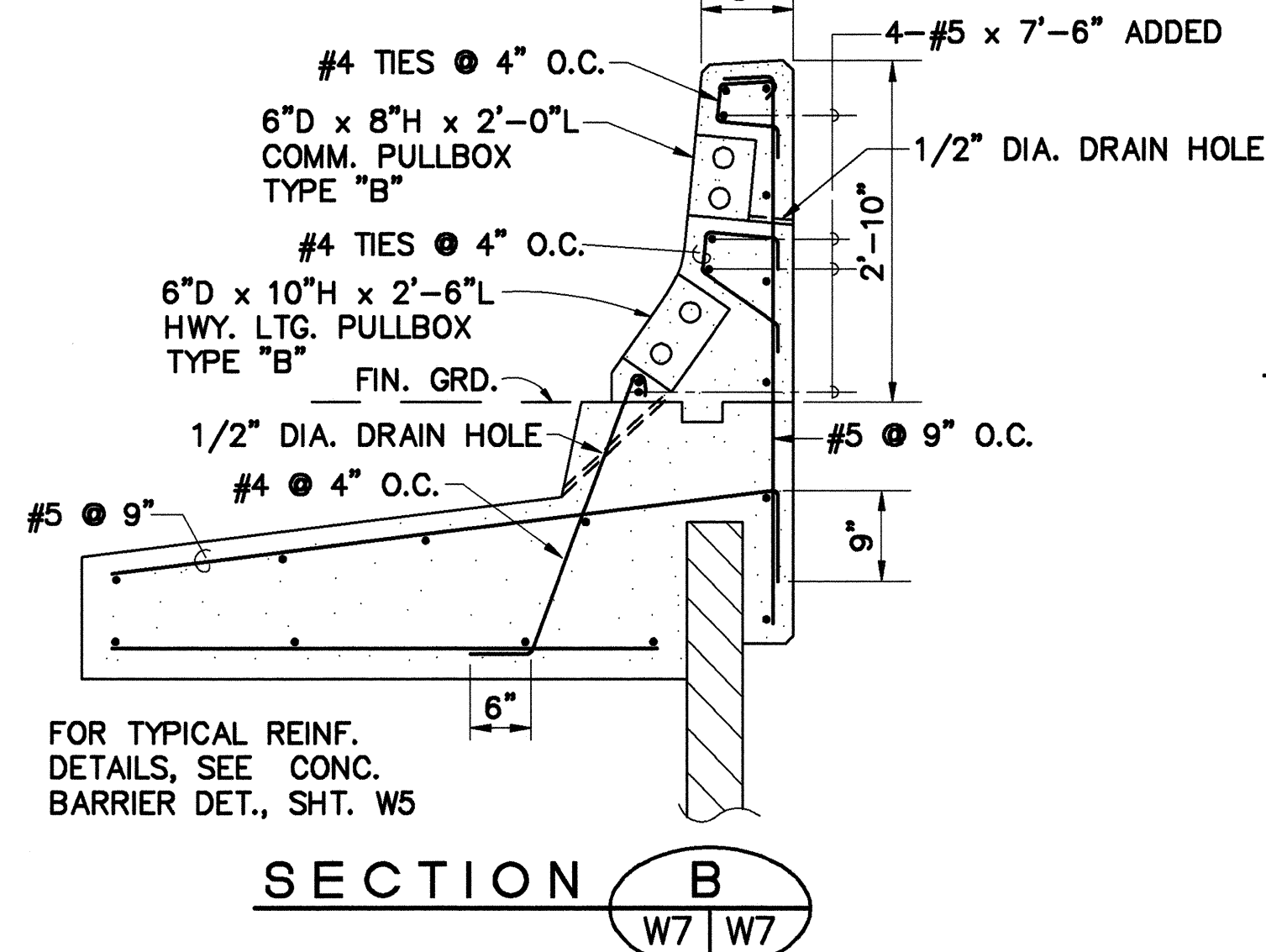
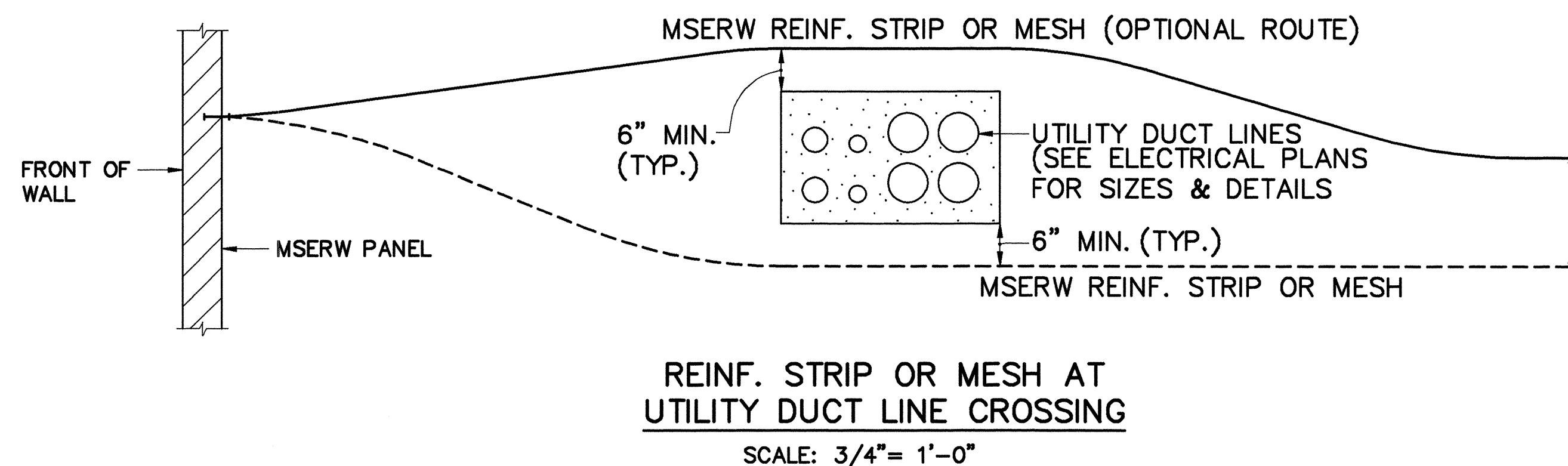
TYPICAL REBARS ARE NOT SHOWN TO PRESERVE CLARITY.

FOR TYP. REINF., SEE CONC. BARRIER DET., SHT. W5.

ELEVATION VIEW

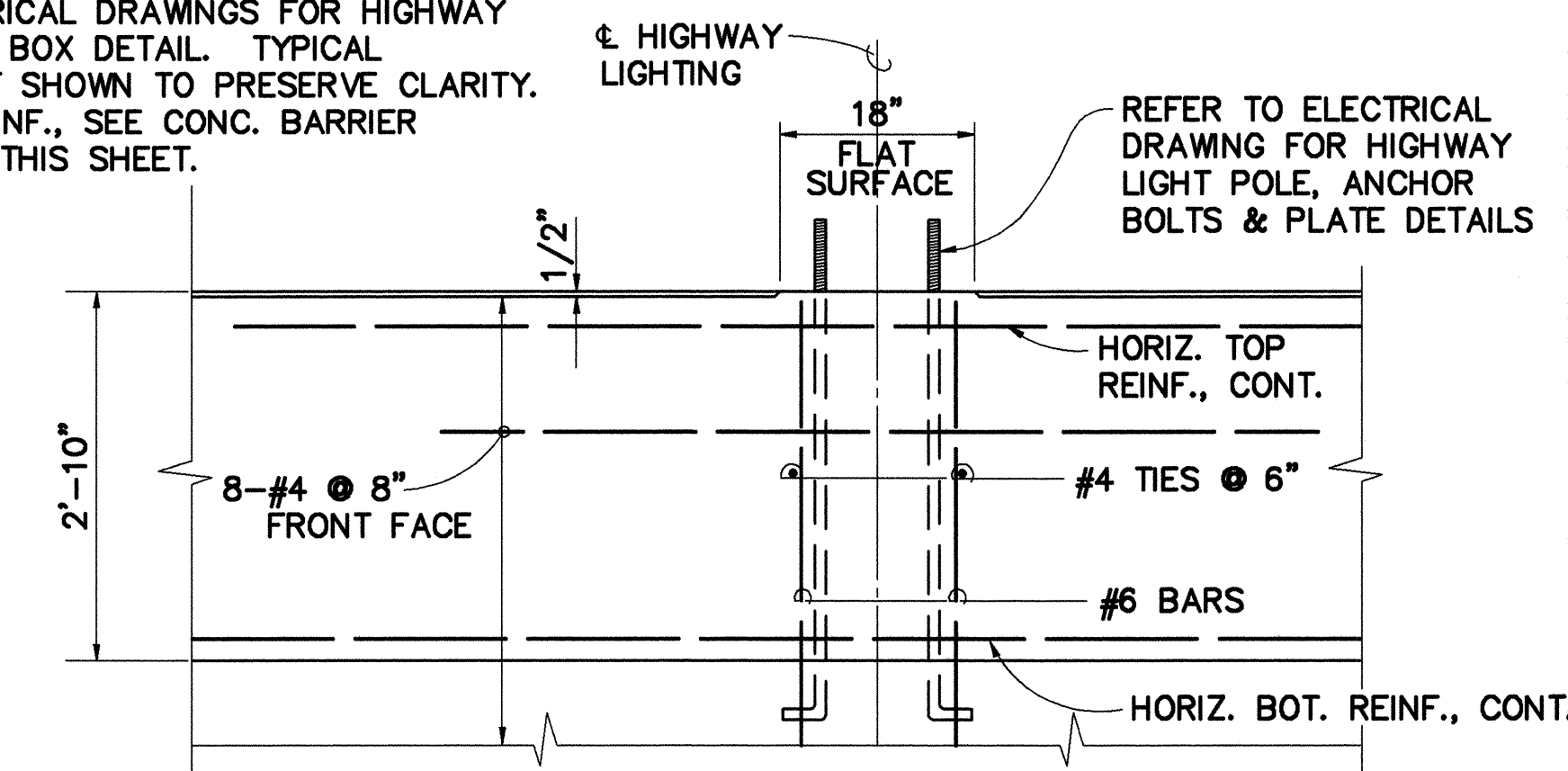
DETAIL - HIGHWAY LIGHTING STANDARD AND PULLBOX ON CONCRETE BARRIER

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



NOTES:

REFER TO ELECTRICAL DRAWINGS FOR HIGHWAY LIGHTING & PULL BOX DETAIL. TYPICAL REBARS ARE NOT SHOWN TO PRESERVE CLARITY. FOR PULLBOX REINF., SEE CONC. BARRIER DETAIL AT LEFT, THIS SHEET.



ELEVATION VIEW



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

[Signature]

DATE: JUNE 1993

*** SIGNATURE HAS BEEN DIGITIZED ***

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
MECHANICALLY STABILIZED EARTH RETAINING WALL (MSERW) MISCELLANEOUS DETAILS
INTERSTATE ROUTE H-3 F.A.I. PROJECT NO. I-H3-1(59)
SCALE: AS SHOWN DATE: JUNE 1993
SHEET No. W7 OF 7 SHEETS