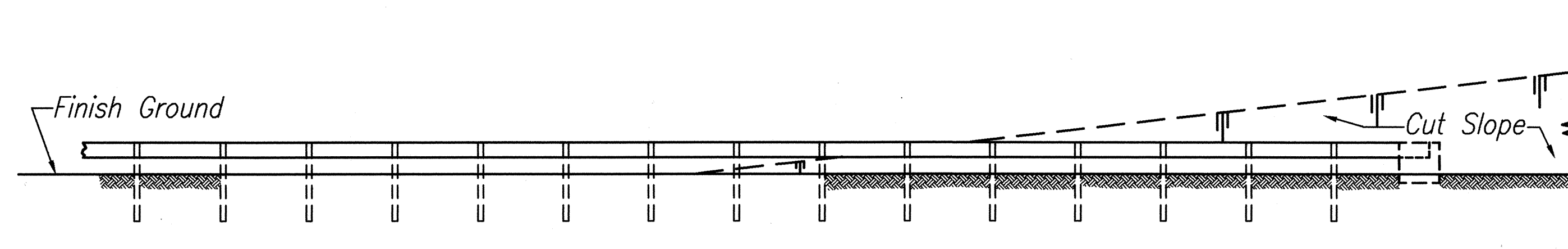
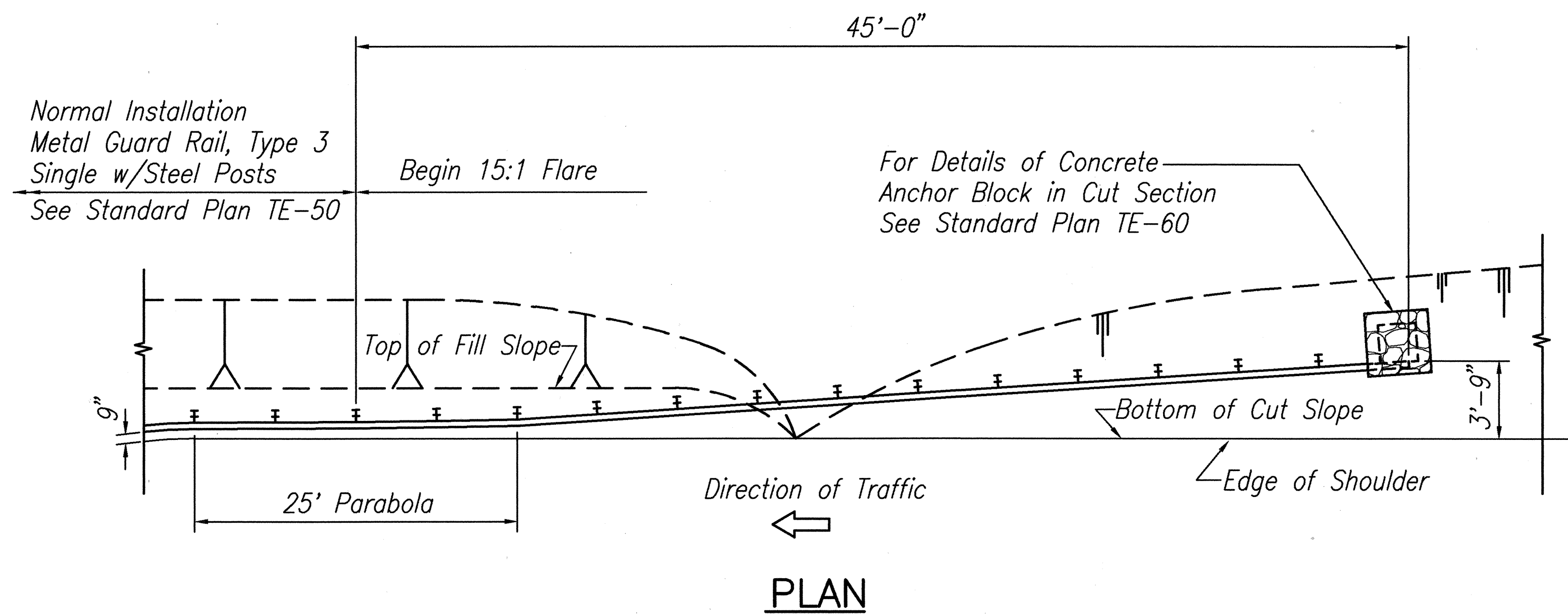
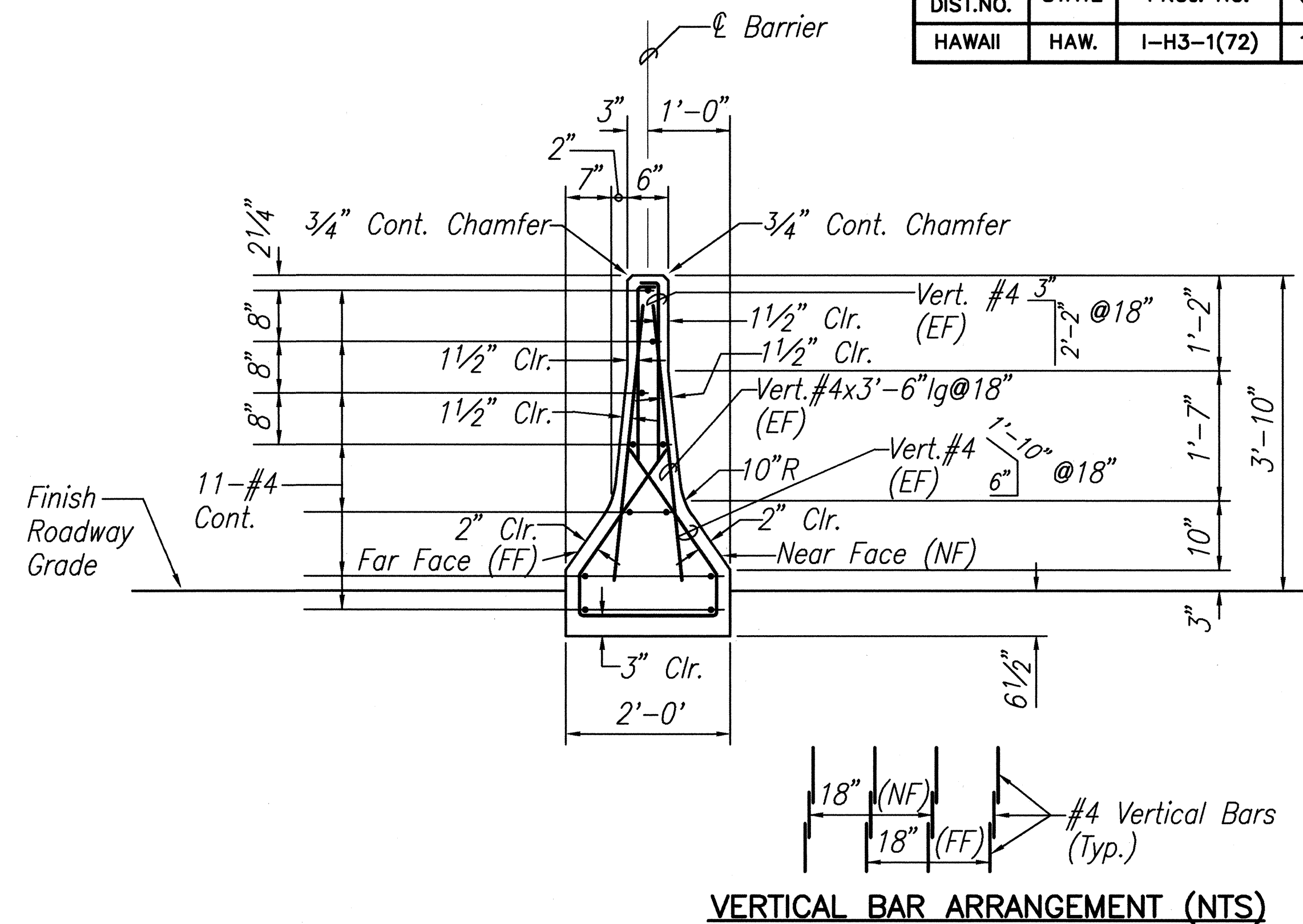


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	54	521

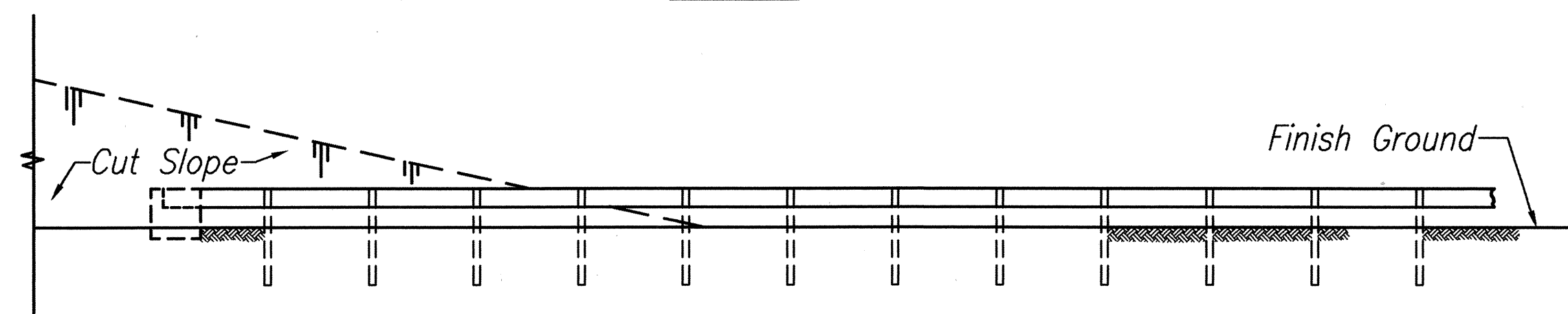
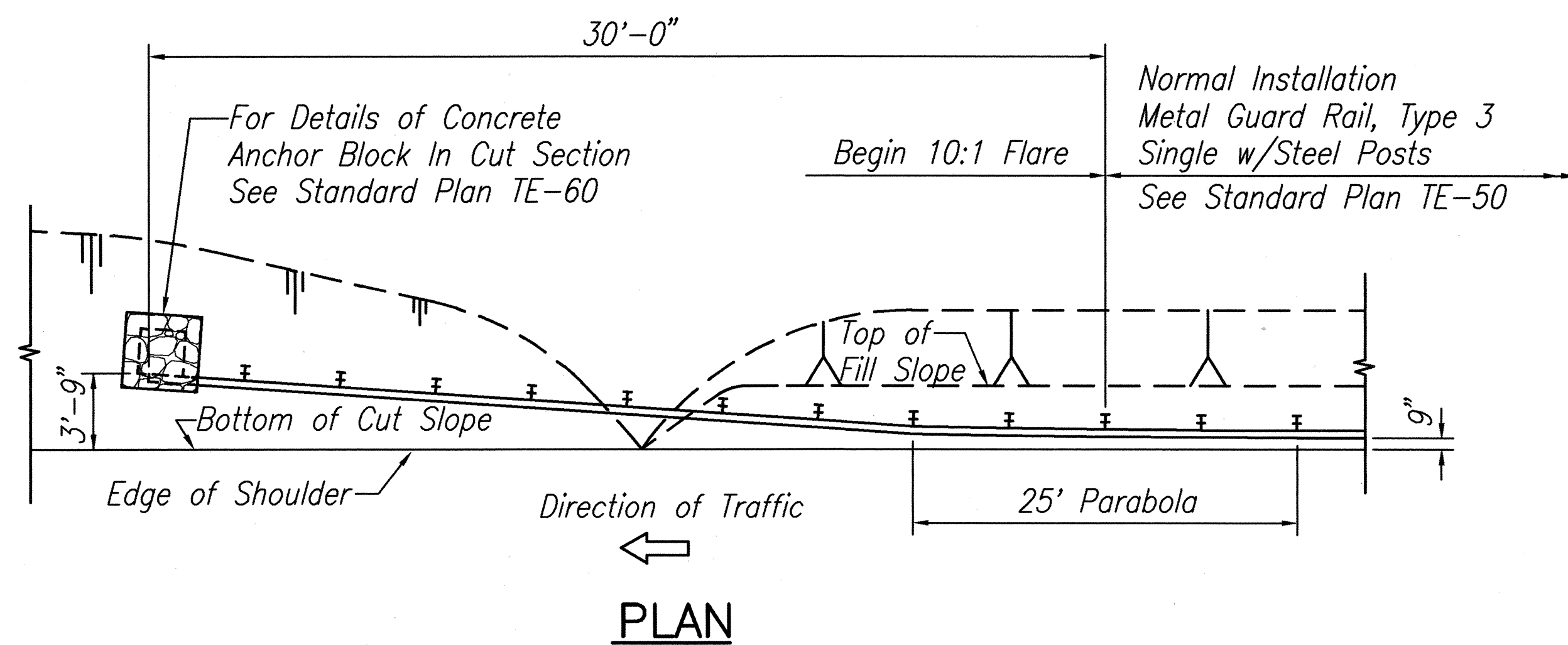


TYPE "C-1" FLARE
NOT TO SCALE

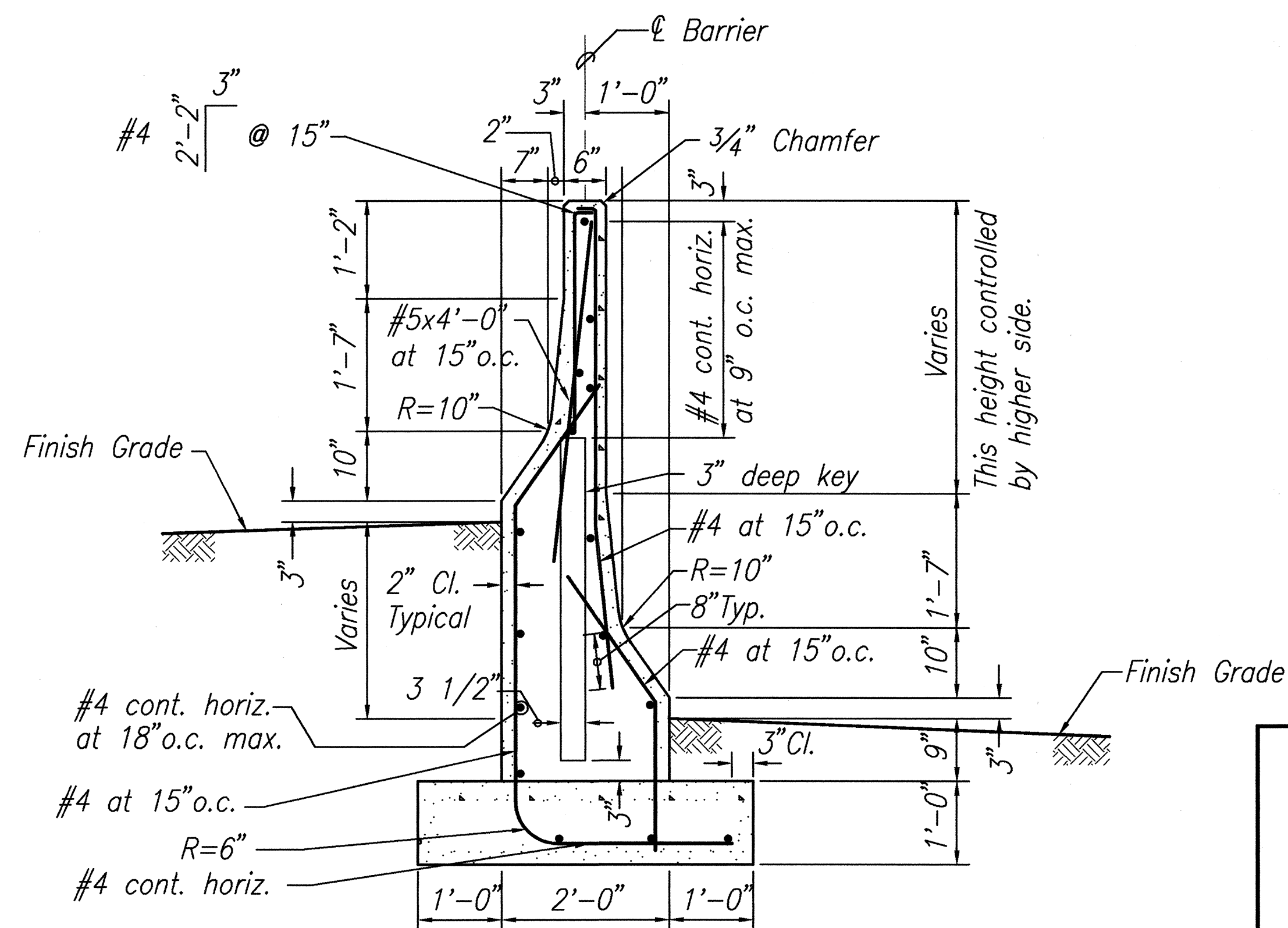


TYPE 4G CONCRETE GUARDRAIL

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

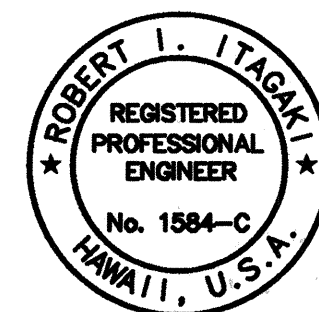


TYPE "F-1" FLARE
NOT TO SCALE



TYPE 4H CONCRETE GUARDRAIL

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



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Robert I. Itagaki

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MISCELLANEOUS DETAILS

INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(72)

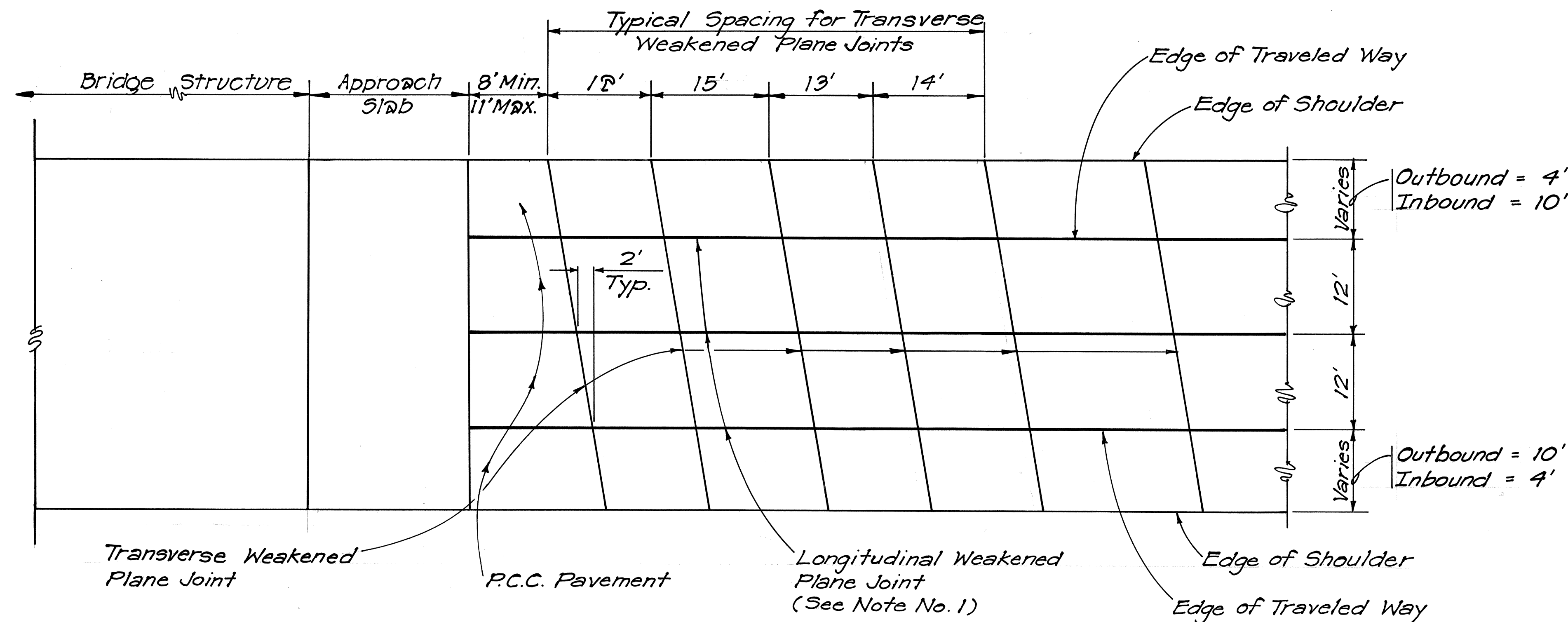
SCALE: AS NOTED

DATE:

SHEET No. OF SHEETS

DATE	_____
SURVEY PLOTTED BY	_____
ORIGINAL PLAN	_____
DESIGNED BY	_____
NOTE BOOK	_____
CHECKED BY	_____
No.	_____

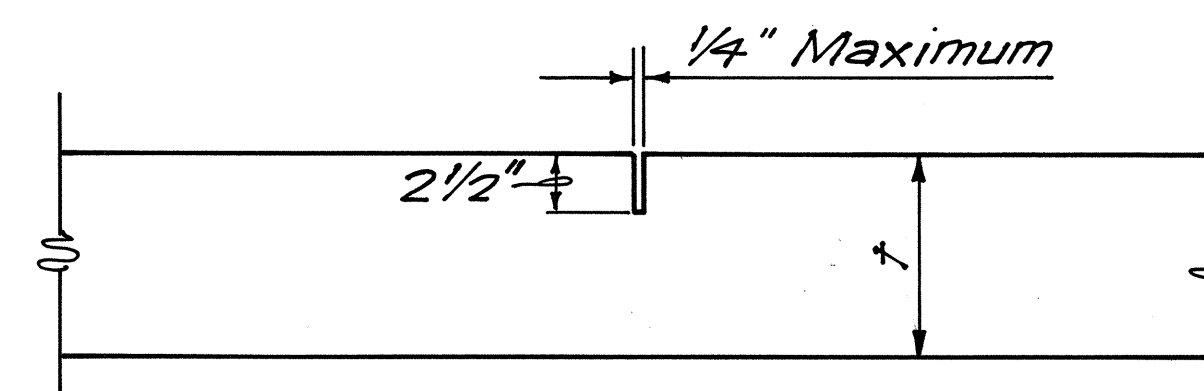
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(7P)	1991	ADD. 55	521



TYPICAL JOINT LOCATION AND LAYOUT PLAN
Scale: 1" = 10'-0"

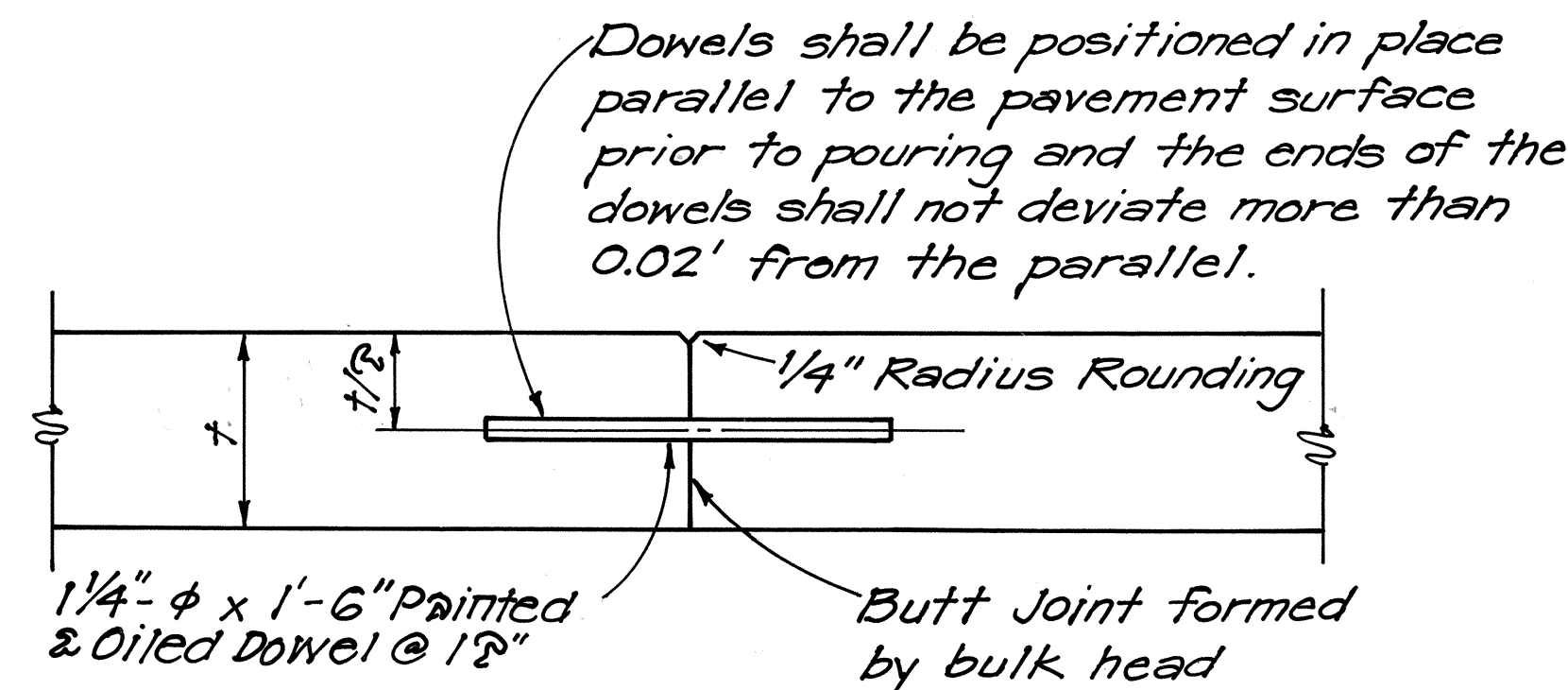
GENERAL NOTES

1. The longitudinal weakened plane joint detail shall be applicable at the intermediate traffic lane edge when two or more lanes are paved in one continuous pour. The straight tie bars shall be placed mechanically to the depth shown on the detail. All other longitudinal joints shall be constructed in accordance with the contact joint detail shown on this plan.
2. Transverse weakened plane joints shall be sawed diagonally as shown, unless otherwise directed by the Engineer. Under typical conditions, transverse weakened plane joints shall be skewed counter-clockwise with an offset of 2' for every 12' of lane width from the perpendicular to the median.
3. Transverse weakened plane joints shall be spaced at successive intervals of 12', 15', 13', and 14' in the direction of traffic. Repeat for the remaining joints.
4. Transverse construction (contact) joints shall be located at a minimum distance of 10' from the nearest planned transverse weakened plane joint.
5. At the outer edge of the P.C.C. pavement, 1 1/2" radius rounding shall be utilized longitudinally or as directed by the Engineer.
6. An additional longitudinal weakened plane joint will be required when the variable width exceeds 12'; the location shall be as directed by the Engineer.

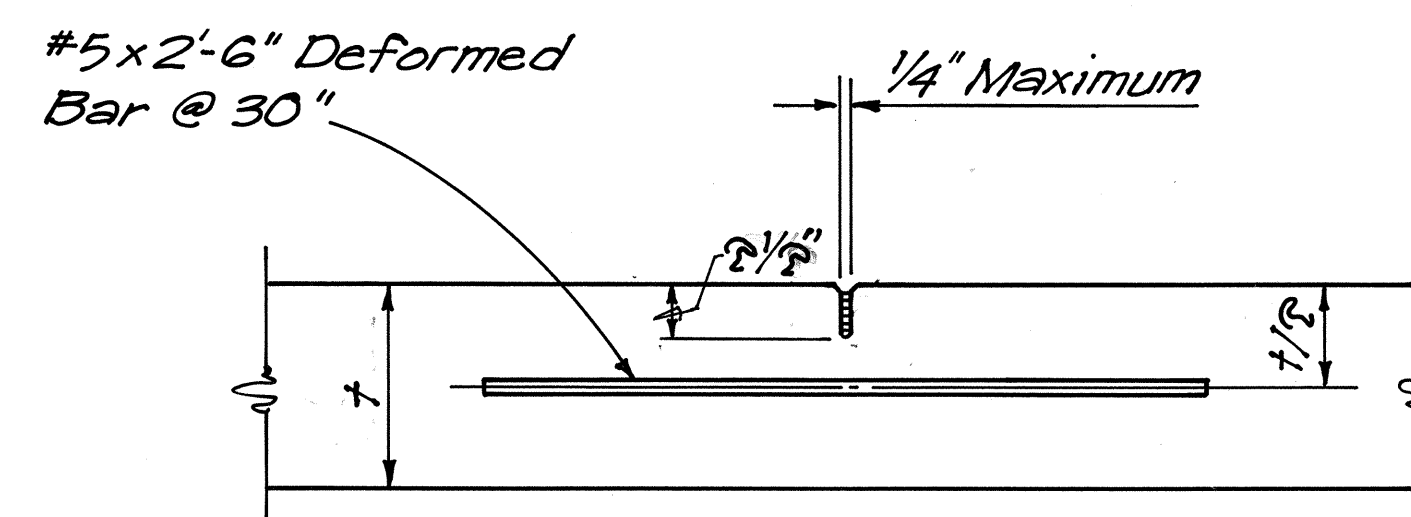


SAWED JOINT

TRANSVERSE WEAKENED PLANE
Scale: 1 1/2" = 1'-0"

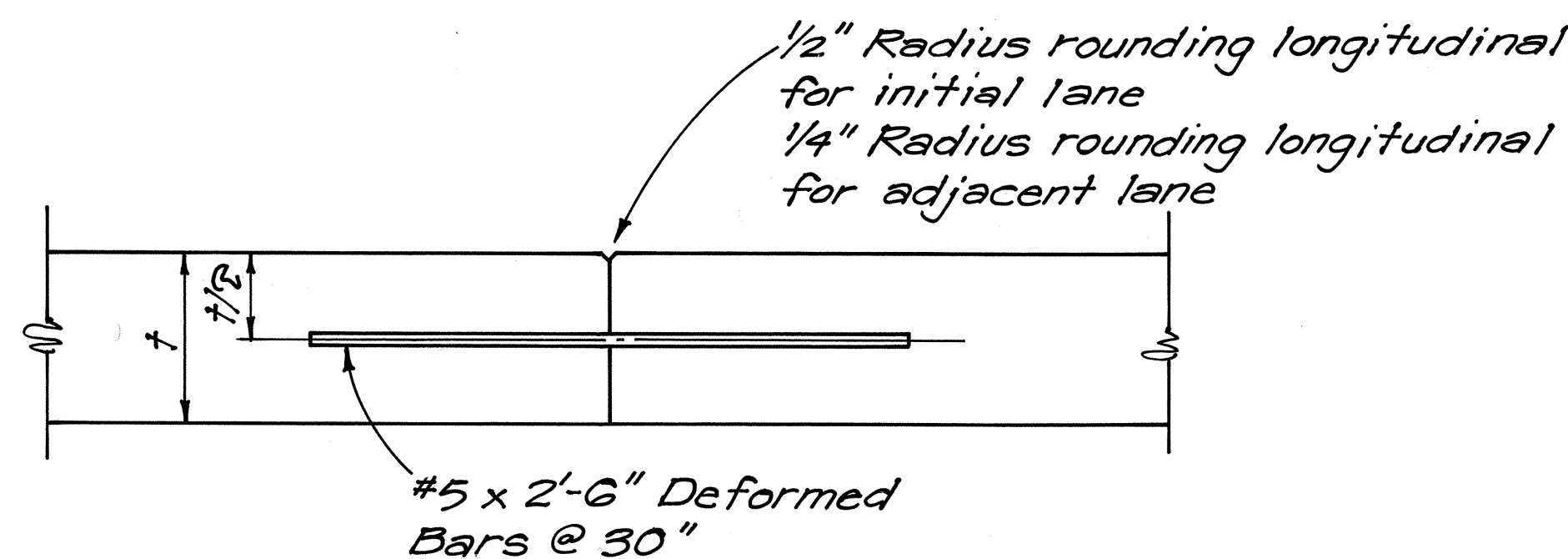


TRANSVERSE CONSTRUCTION (CONTACT JOINT)
Scale: 1 1/2" = 1'-0"



SAWED JOINT

LONGITUDINAL WEAKENED PLANE (CONTRACTION JOINT)
Scale: 1 1/2" = 1'-0"



LONGITUDINAL CONSTRUCTION (CONTACT JOINT)
Scale: 1 1/2" = 1'-0"



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Robert L. Hagel

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

P.C.C. PAVEMENT JOINT DETAILS

INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(7P)

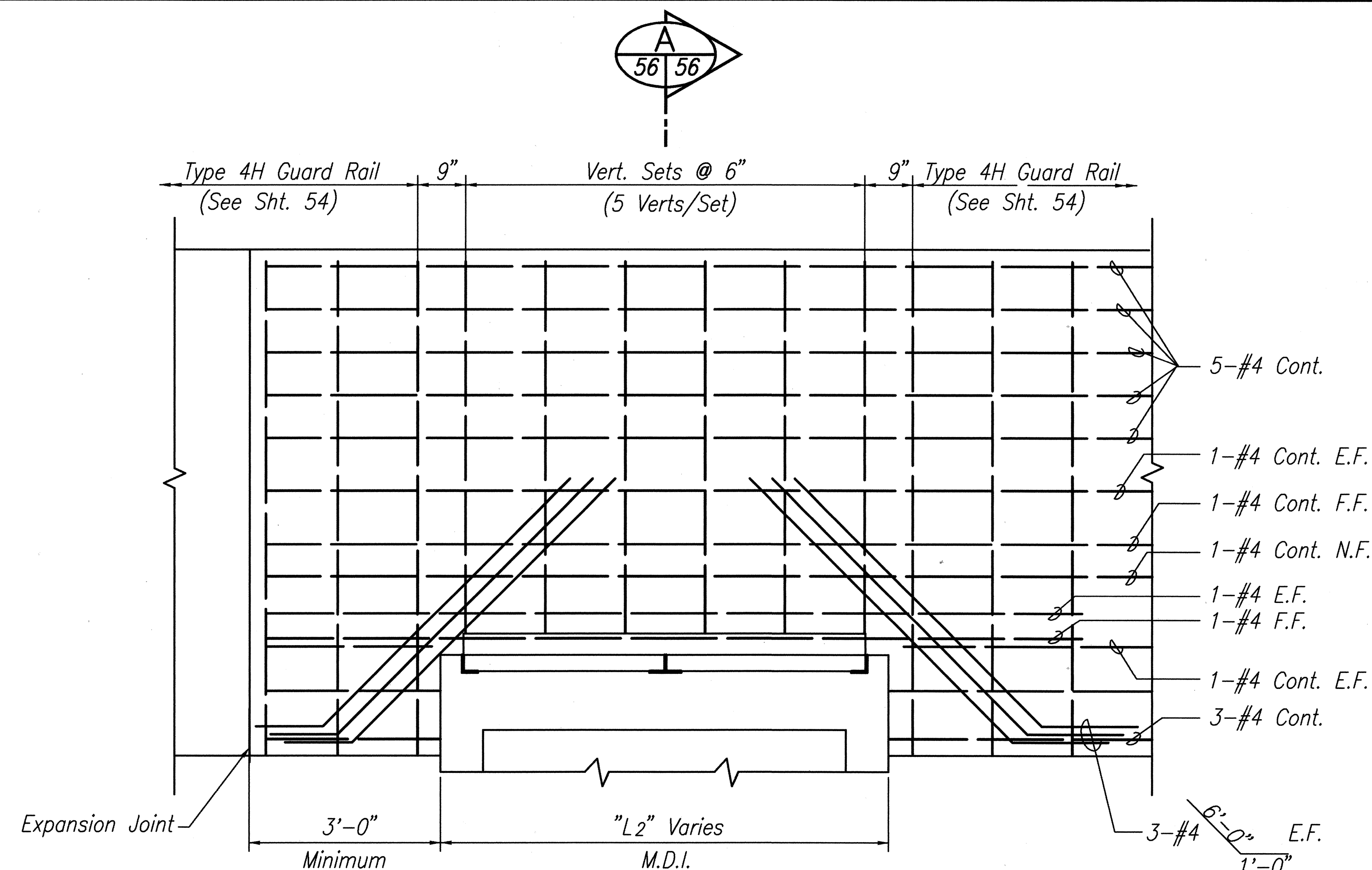
SCALE: AS NOTED DATE: DEC. 1991
SHEET NO. 2 OF 5 SHEETS

7/21/91	Revised Preformed Filter Joint to Sawed Joint and Revised Dimensions.
1/27/92	Revised Dimension for P.C.C. Pavement and Dowel Diameter.
DATE	REVISION

ADD. 55

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NO.	

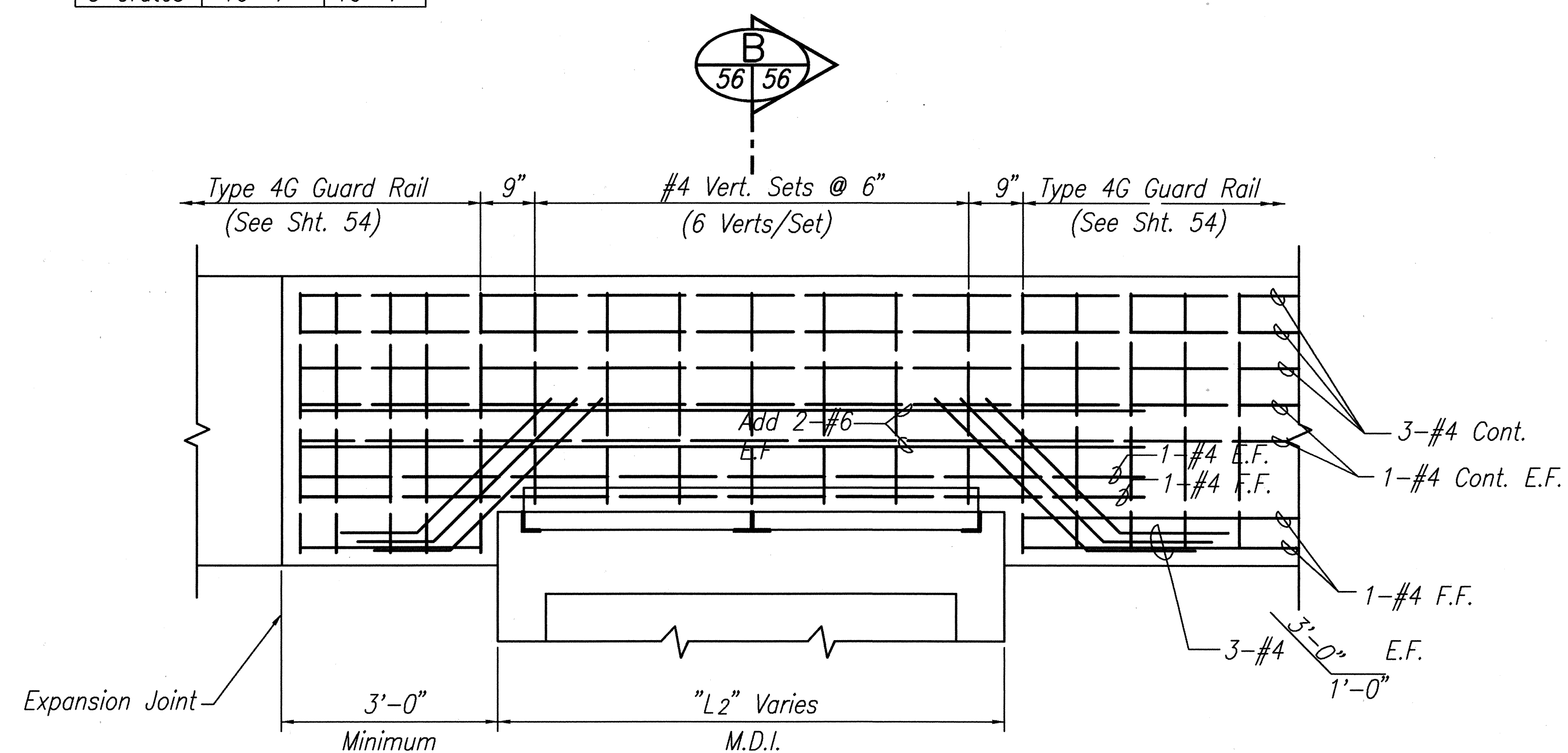
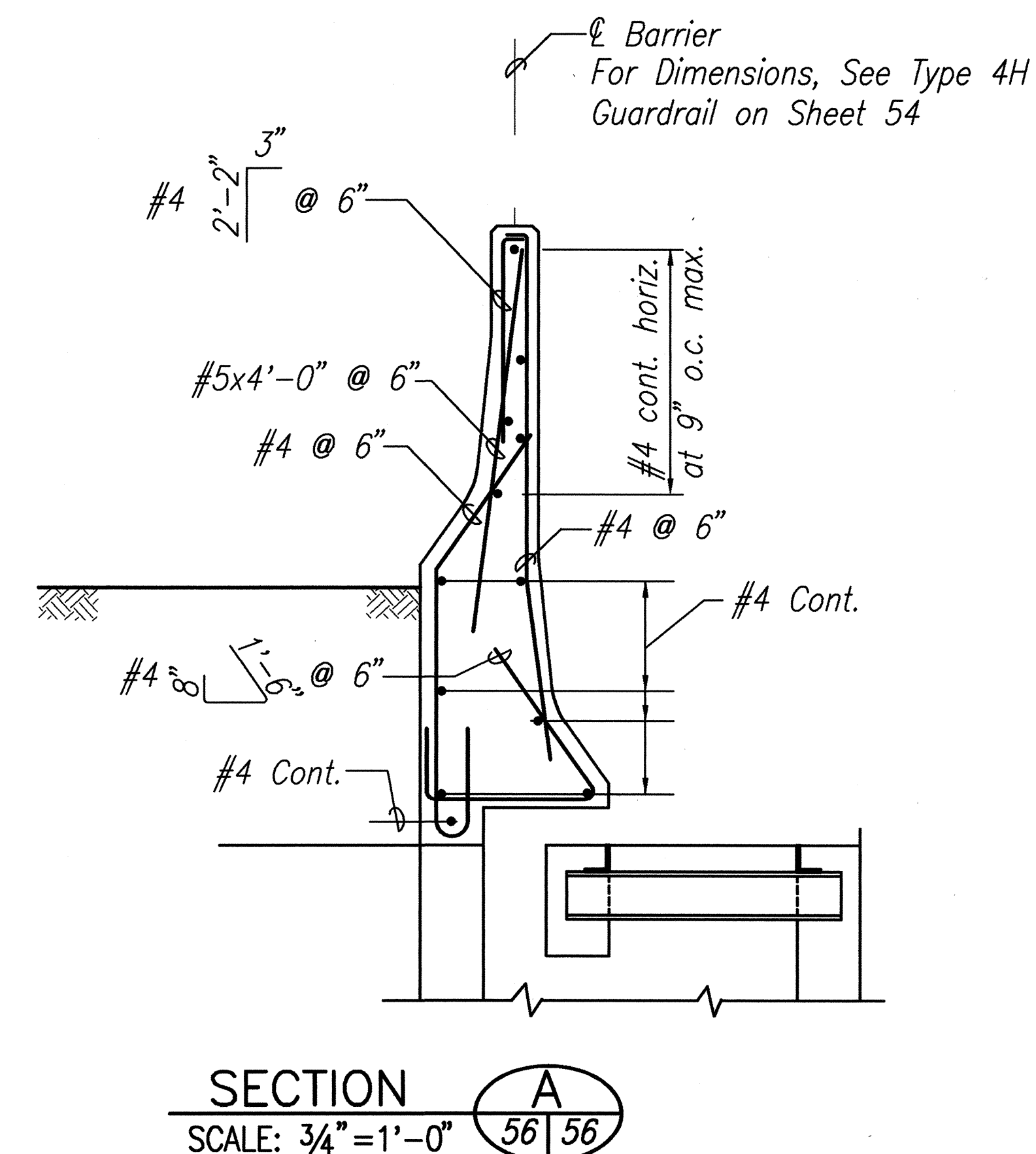
FED.ROAD DIST.NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	C.O. 56	521



<i>G.D.I.</i>	"L1"	"L2"
2 Grates	13'-4"	7'-4"
3 Grates	16'-7"	10'-7"

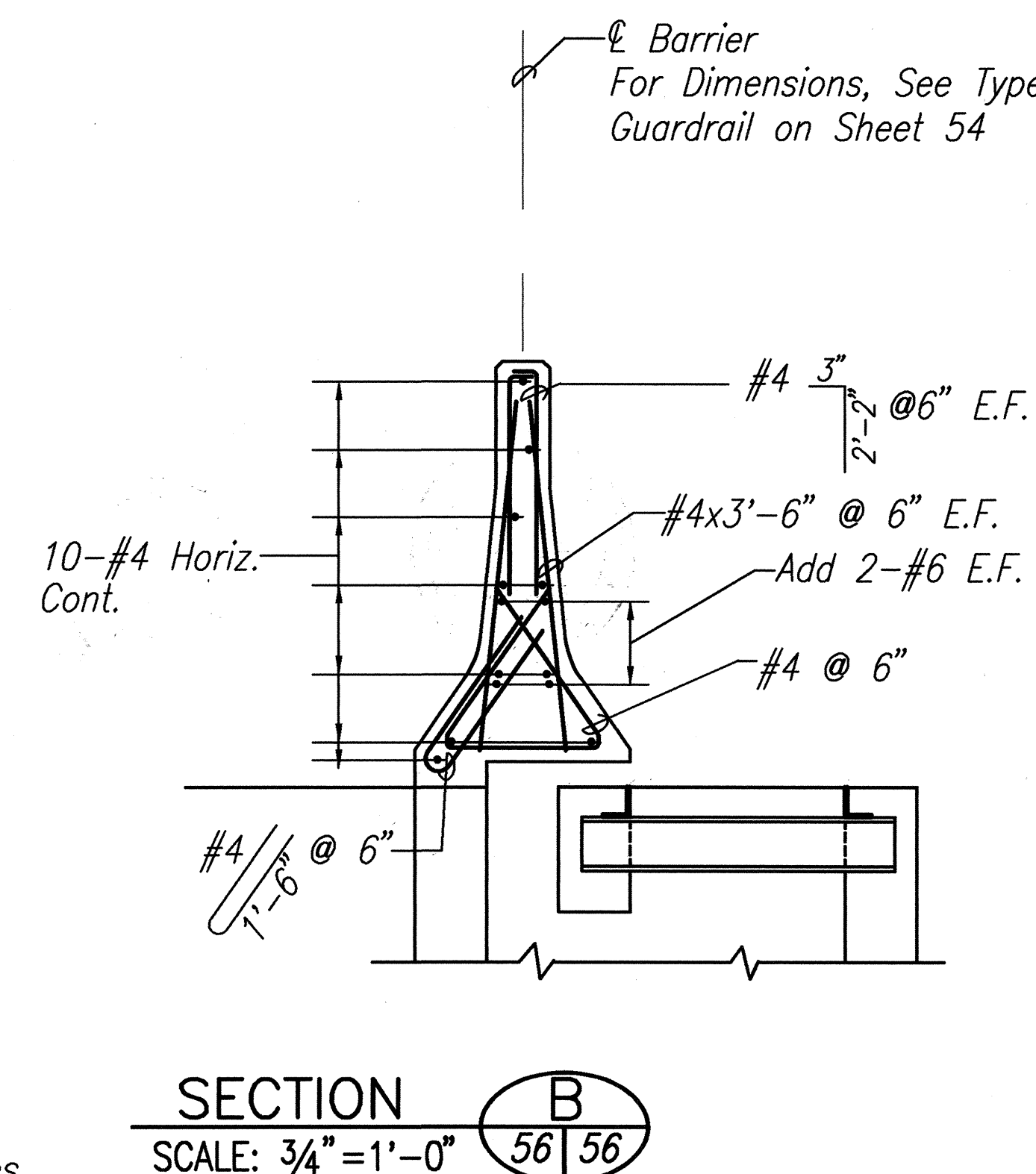
ELEVATION
SCALE: $\frac{3}{4}" = 1'-0"$

MODIFIED GUARD RAIL, TYPE 4H



ELEVATION
SCALE: $\frac{3}{4}" = 1'-0"$

MODIFIED GUARD RAIL, TYPE 4G



SECTION B
SCALE: $\frac{3}{4}" = 1'-0"$

* For 3 Grates
Use 4-#6

8/9/93	Revised Modified Guard Rail Type 4A to Modified Guard Rail Type 4G and 4H
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GUARD RAIL, TYPE 4

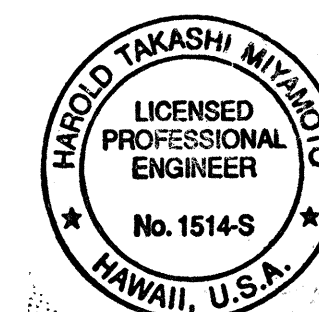
CONCRETE RIGID BARRIER DETAILS

INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(72)

SCALE: AS NOTED

SHEET No. 3 OF 5 SHEETS

C.O. 56



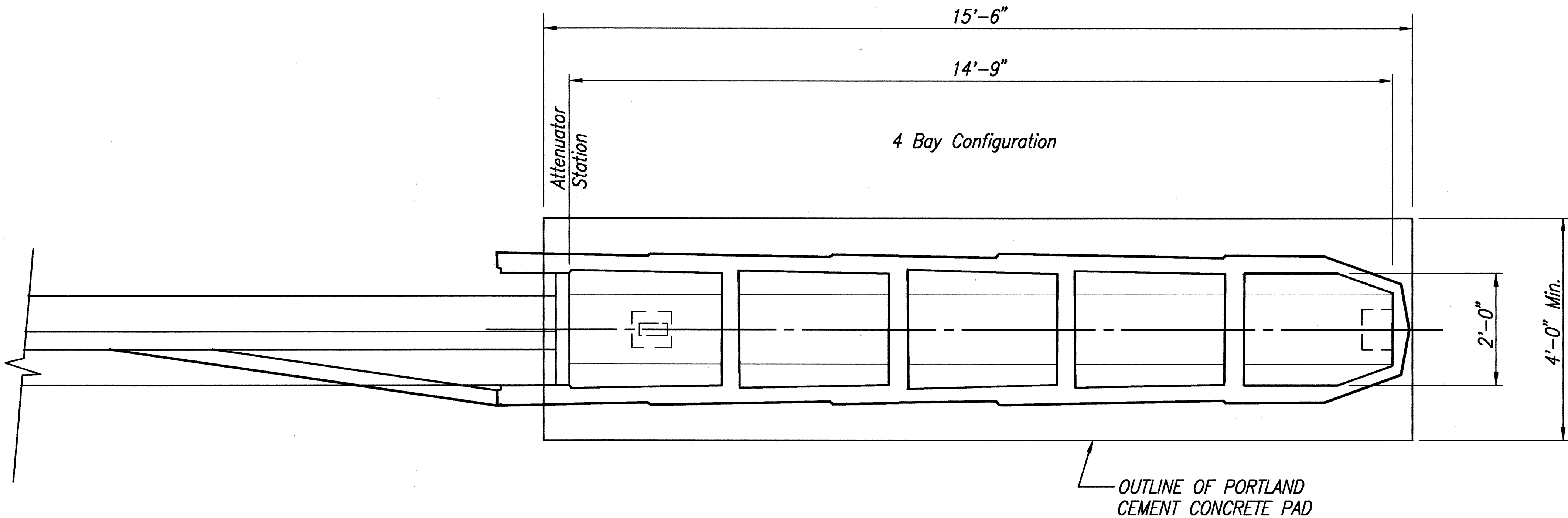
THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

David L. Hyman

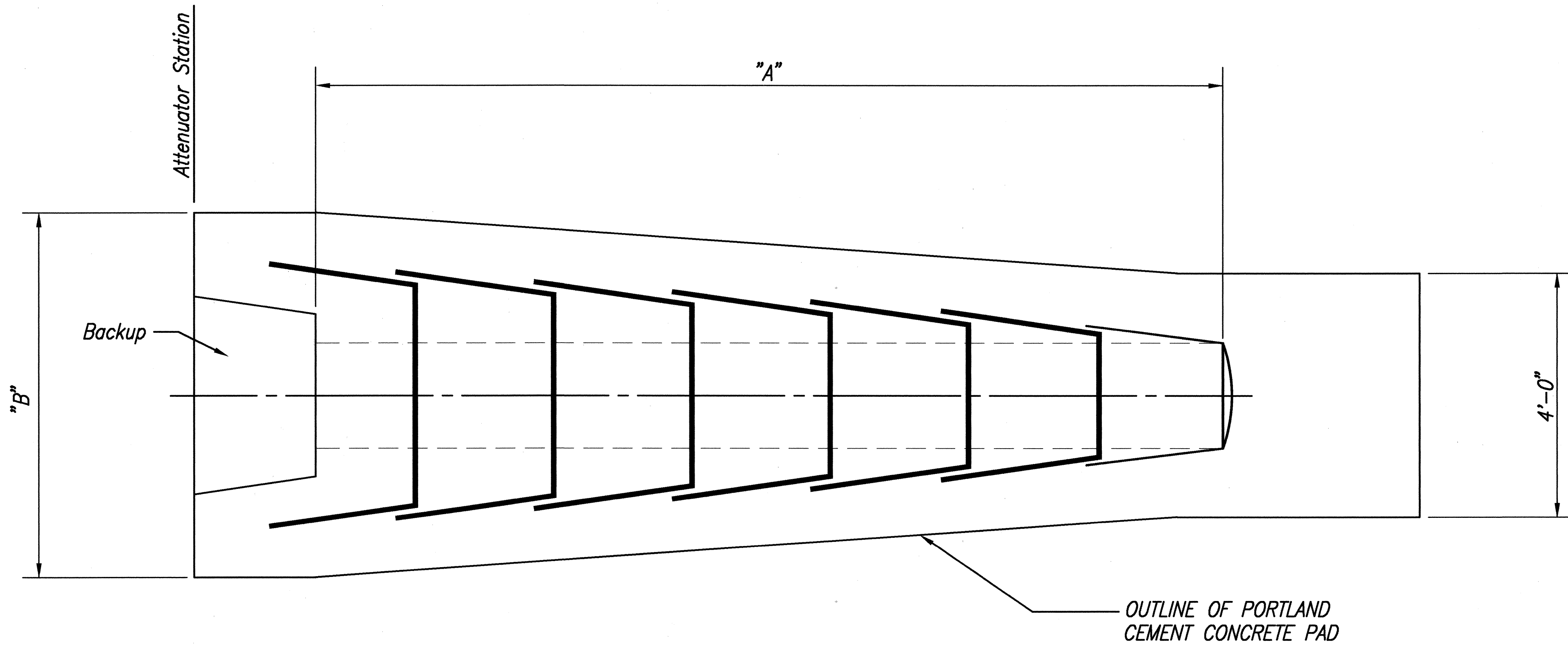
ORIGINAL PLAN	SURVEY PLOTTED BY _____ DATE _____
NOTE BOOK	DRAWN BY _____
	TRACED BY _____
	DESIGNED BY _____
	QUANTITIES BY _____
No. _____	CHECKED BY _____

37-1565 CORAL-RETRON S DIST-1-16 DATE 08/1/87

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	ADD. 57	521



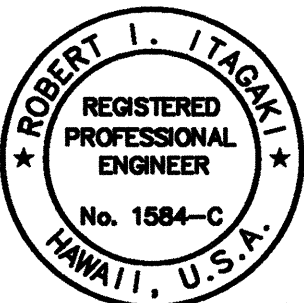
Typical G.R.E.A.T. System Attenuator @ Median



Typical Sandwich System Attenuator @ Gore

3/27/92	Revised Attenuator titles.
1/27/92	Revised Attenuator titles. Revised value for dimension "A" from 17'-2 1/2" to 19'-5 1/2".
DATE	REVISION

Gore Attenuator Location	"A"	"B"
H3 Sta. 349+80	19'-5 1/2"	8'-0"
H3 Sta. 402+40	19'-5 1/2"	8'-0"
Reloc. Likelike Hwy. Sta. 25+29	14'-11 1/2"	6'-0"
Reloc. Likelike Hwy. Sta. 27+00	14'-11 1/2"	6'-0"
Reloc. Likelike Hwy. Sta. 32+80	14'-11 1/2"	6'-0"



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Robert I. Itasaki

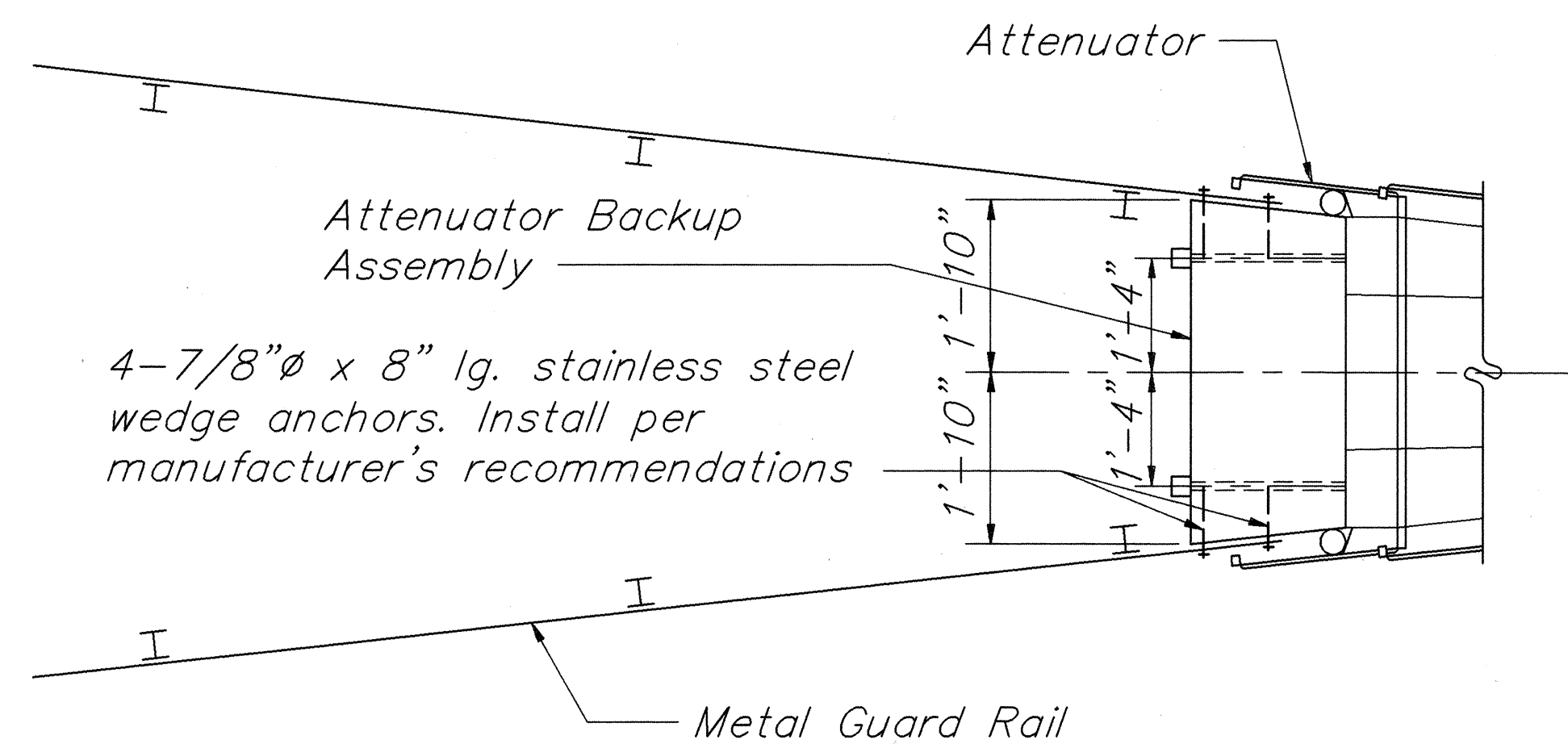
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ATTENUATOR DETAILS

INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(72)
SCALE: NTS
DATE: DEC. 1991

ORIGINAL	SURVEY PLOTTED BY	DATE
PLAN	DRAWN BY	
NOTE BOOK	DESIGNED BY	
No.	QUANTITIES BY	
	CHECKED BY	

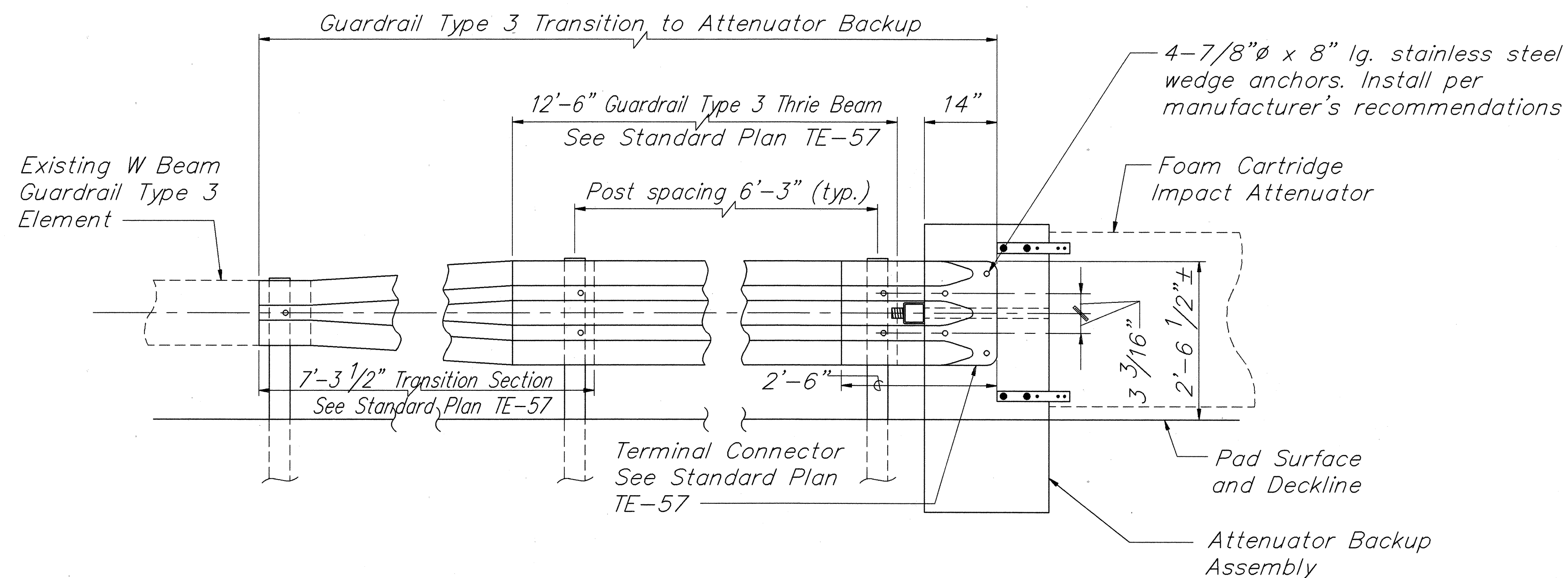
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	C.O. 57S-1	521



PLAN
Not to scale

NOTES:

- See Sheet 57 for Attenuator Details.
- Attenuator location:
 - Relocation LikeLike STA. 25+29
 - Relocation LikeLike STA. 27+00
 - Relocation LikeLike STA. 32+80
 - H3 STA. 402+40



DETAIL ELEVATION
GUARDRAIL TYPE 3 TRANSITION TO ATTENUATOR BACKUP
Not to scale

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

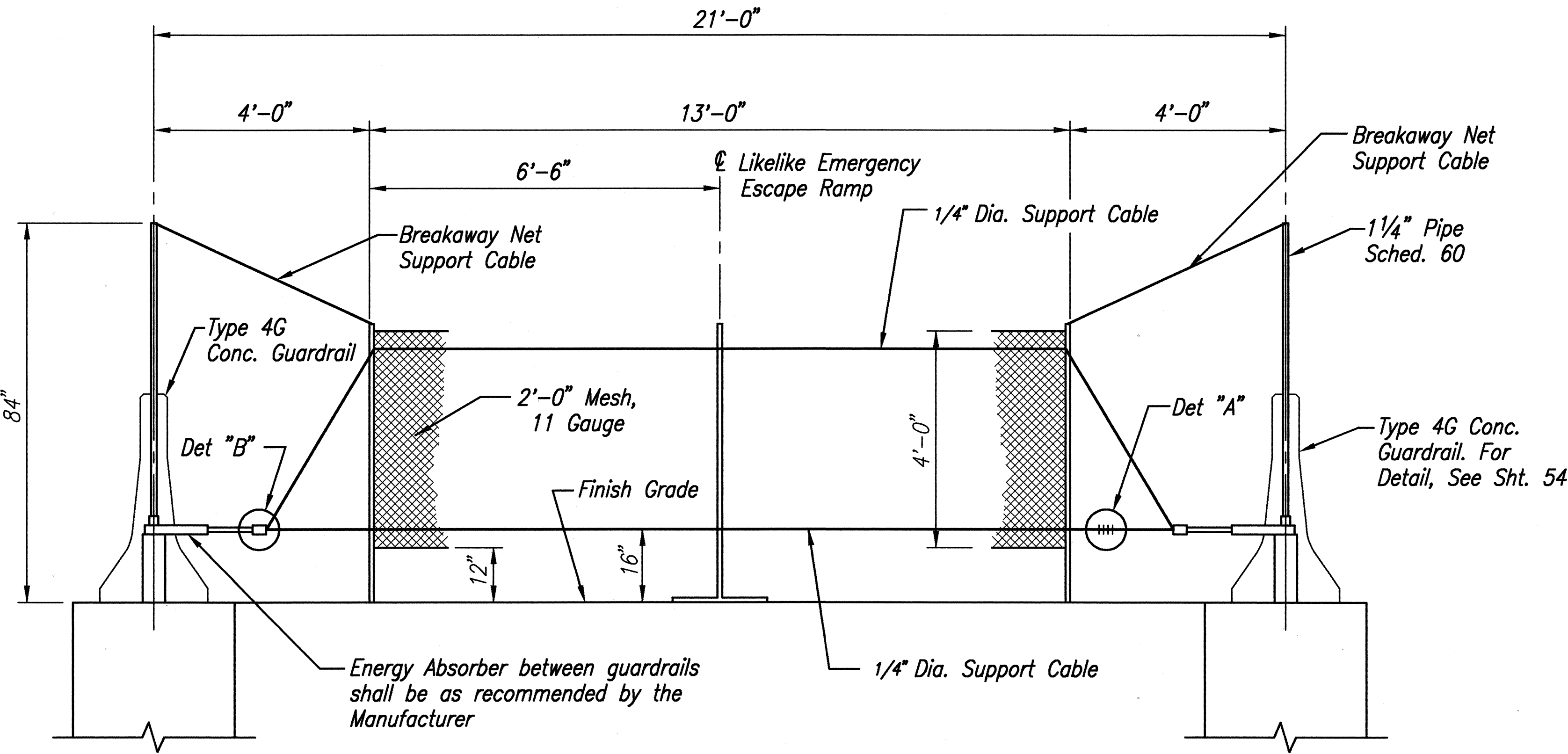


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Harold Takashi Mizuno

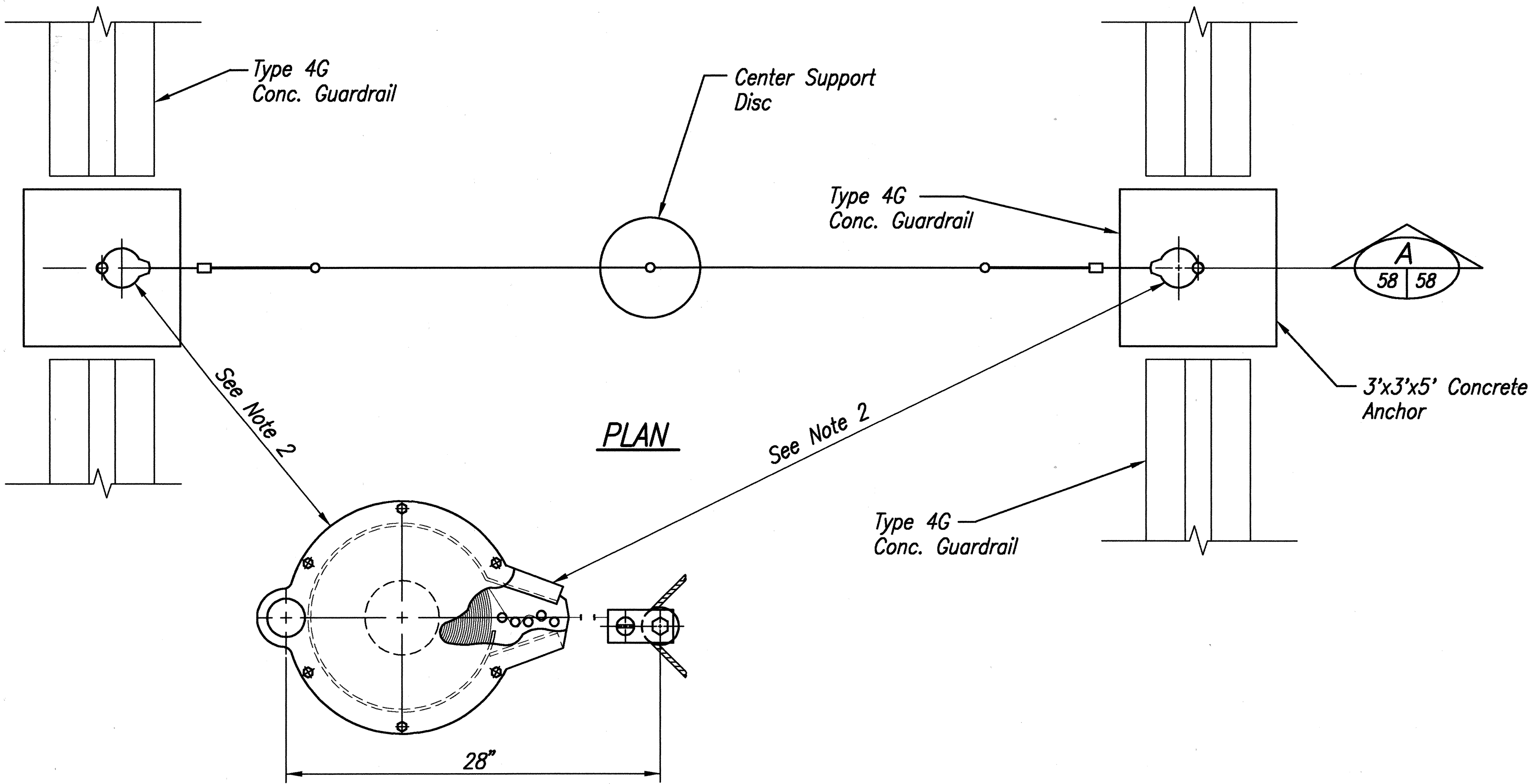
2/17/95	Sheet Added Modified Attenuator Detail
DATE:	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
MODIFIED ATTENUATOR DETAIL	
INTERSTATE ROUTE H-3 F.A.I. PROJ. NO. I-H3-1(72)	
SCALE: AS NOTED	DATE:
SHEET No.	OF SHEETS

C.O. 57S-1

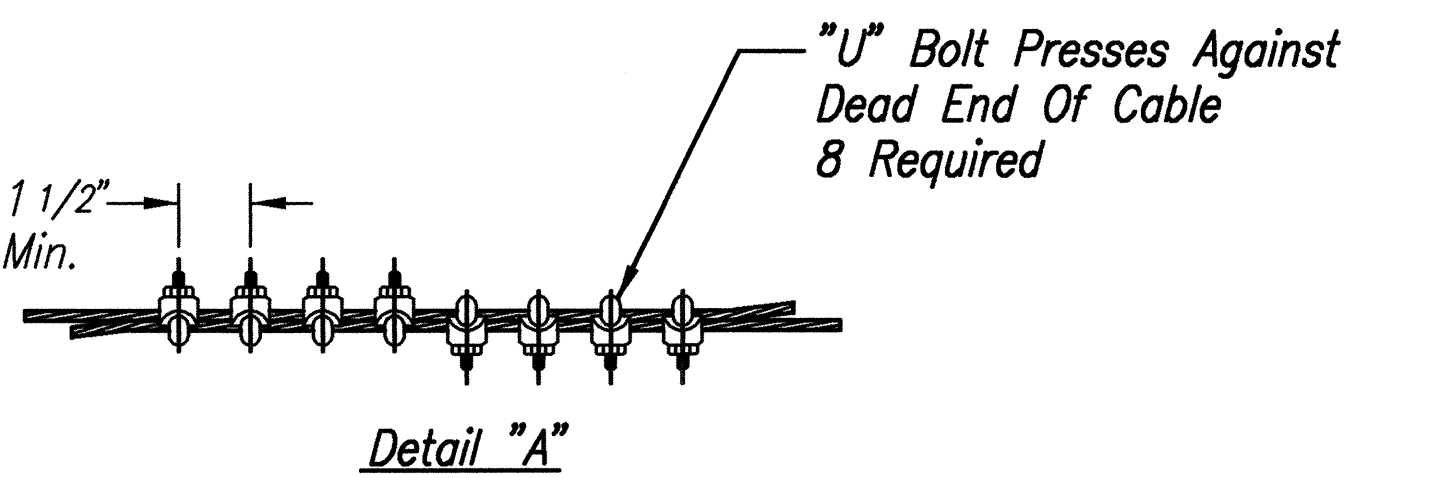
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	C.O. ADD. 58	521



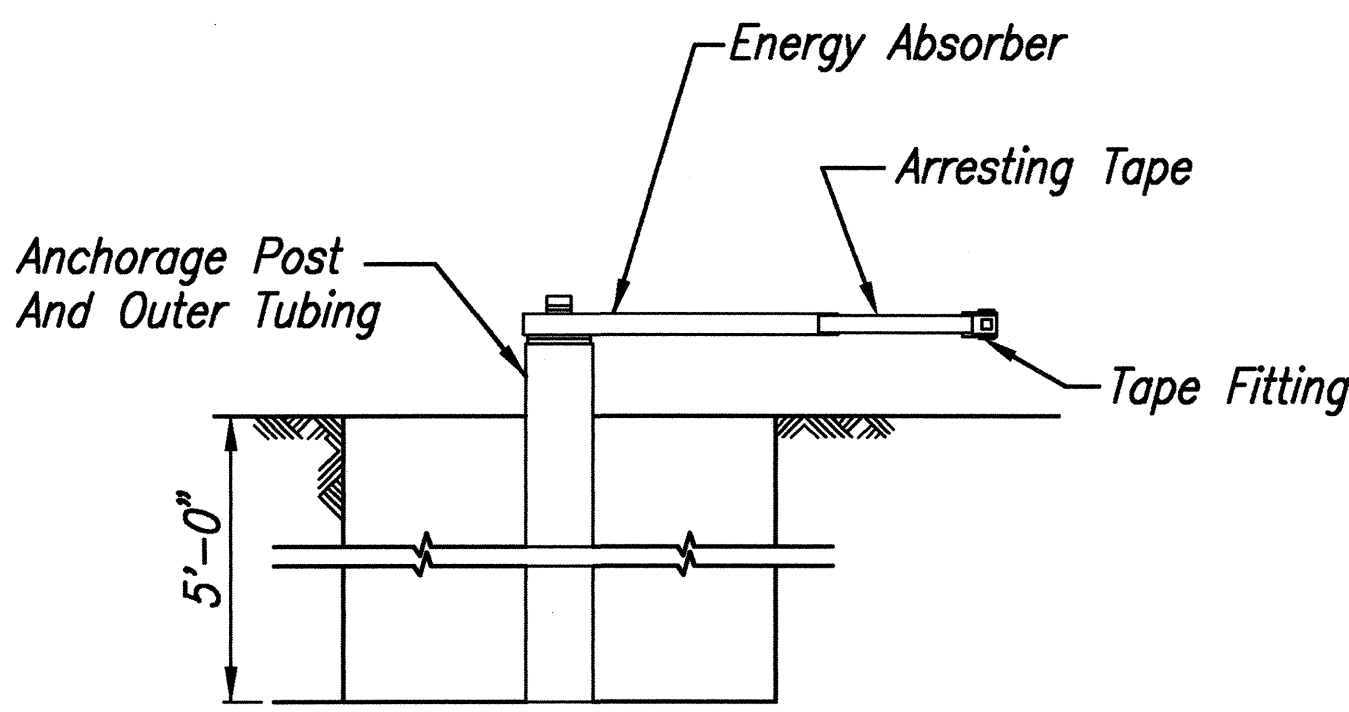
SECTION



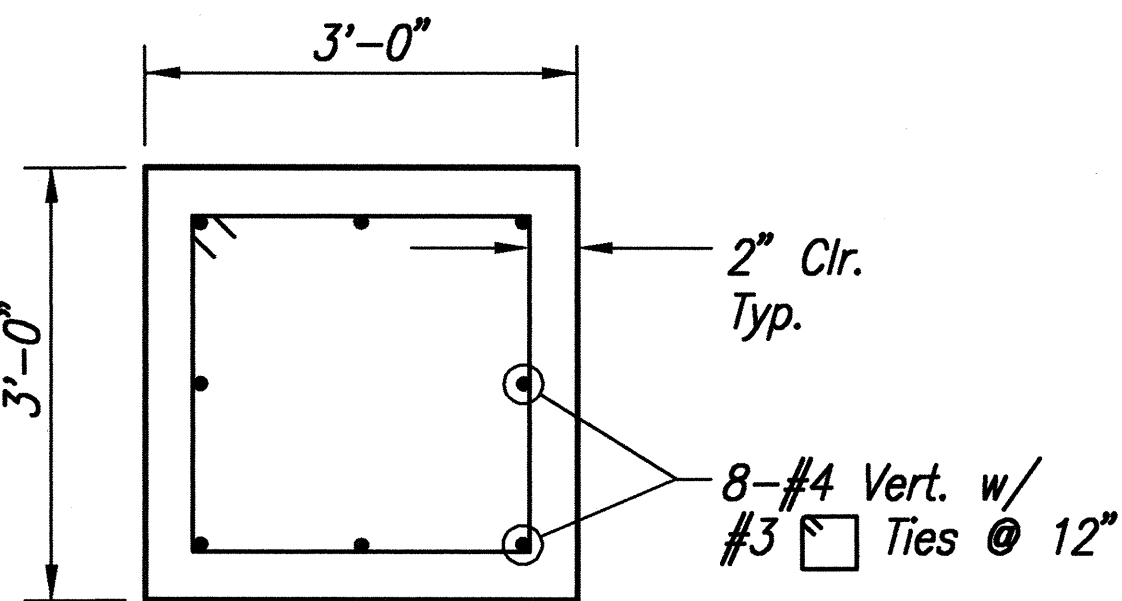
PLAN



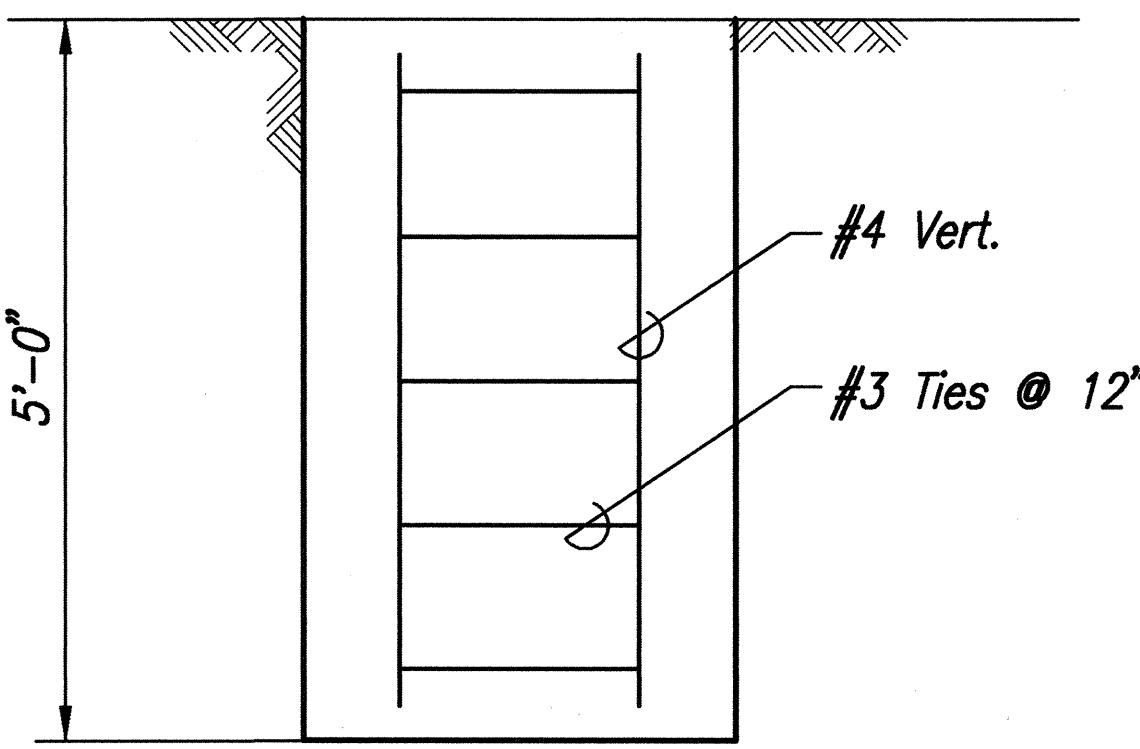
Detail "A"



Section Anchorage



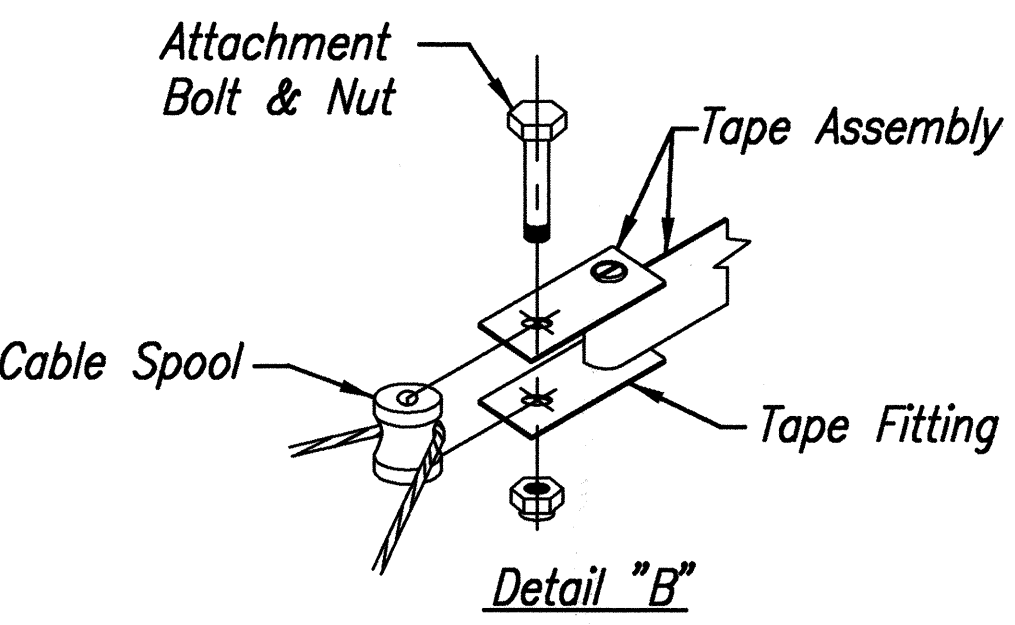
PLAN



ELEVATION

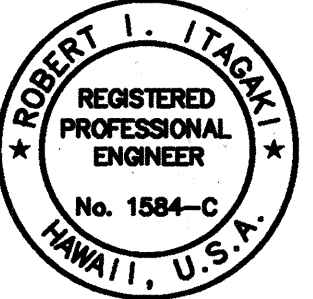
CONC. ANCHOR FOR VEHICLE ARRESTOR
NOT TO SCALE

9/29/93	Added Conc. Anchor Reinforcing Detail
9/7/93	Revised Depth of Concrete Anchor from 4'-0" to 5'-0"
3/26/92	Added Callouts
2/21/92	Revised Vehicle Arrestor plan and section. Deleted section B. Revised Note No. 1.
DATE	REVISION



Detail "B"

- NOTES:
1. Net assembly comes complete with center support disk
 2. Energy absorber comes complete with tape assembly, cable spool and attachment bolt
 3. Contractor shall adjust installation of guardrail to fit vehicle arrestor installation.



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Robert I. Itagaki

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETAILS
VEHICLE ARRESTOR
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(72)

SCALE: NTS
SHEET No. OF SHEETS

DATE: DEC. 1991