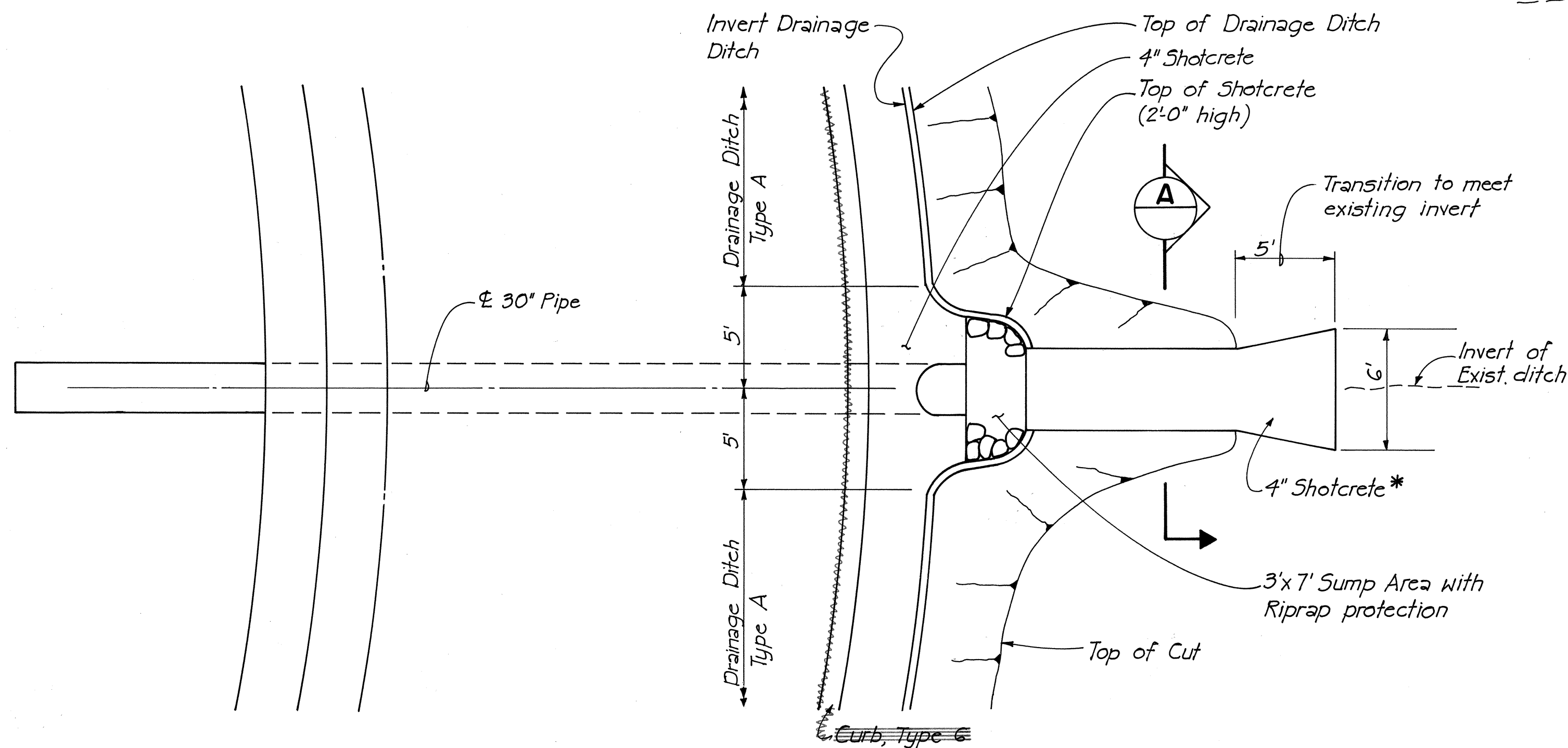
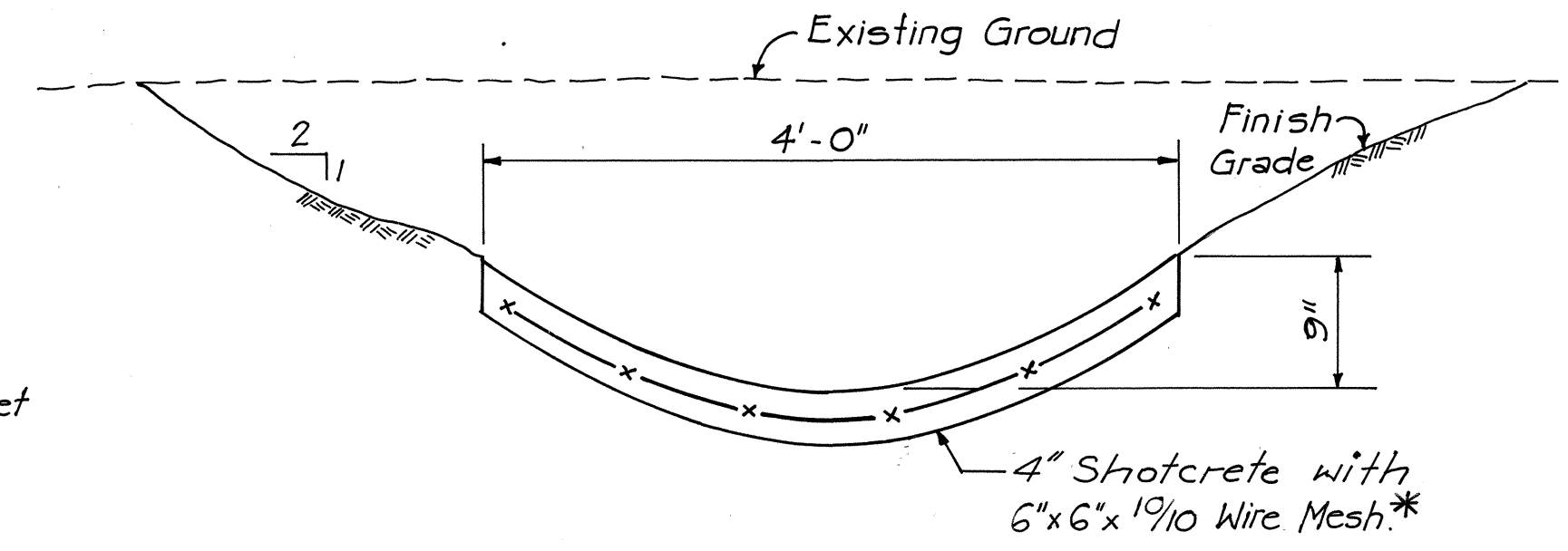


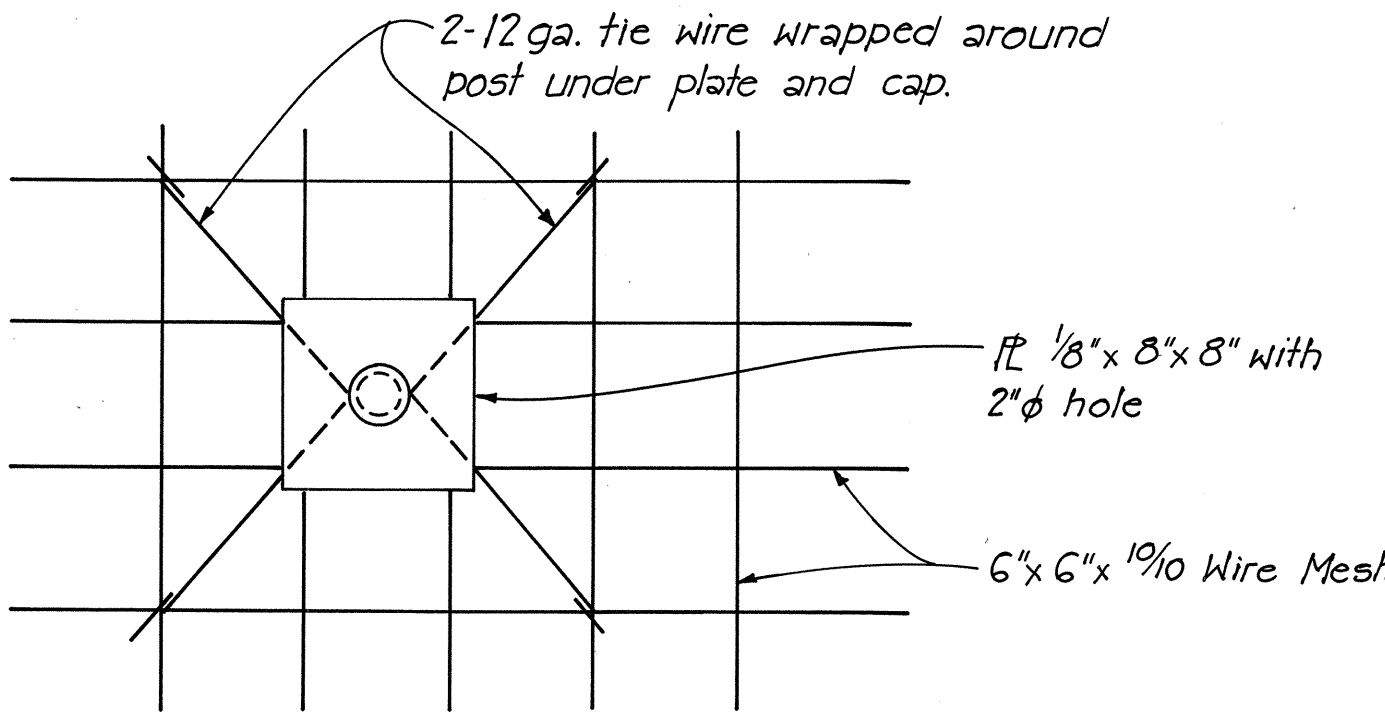
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(35)	1988	14	24



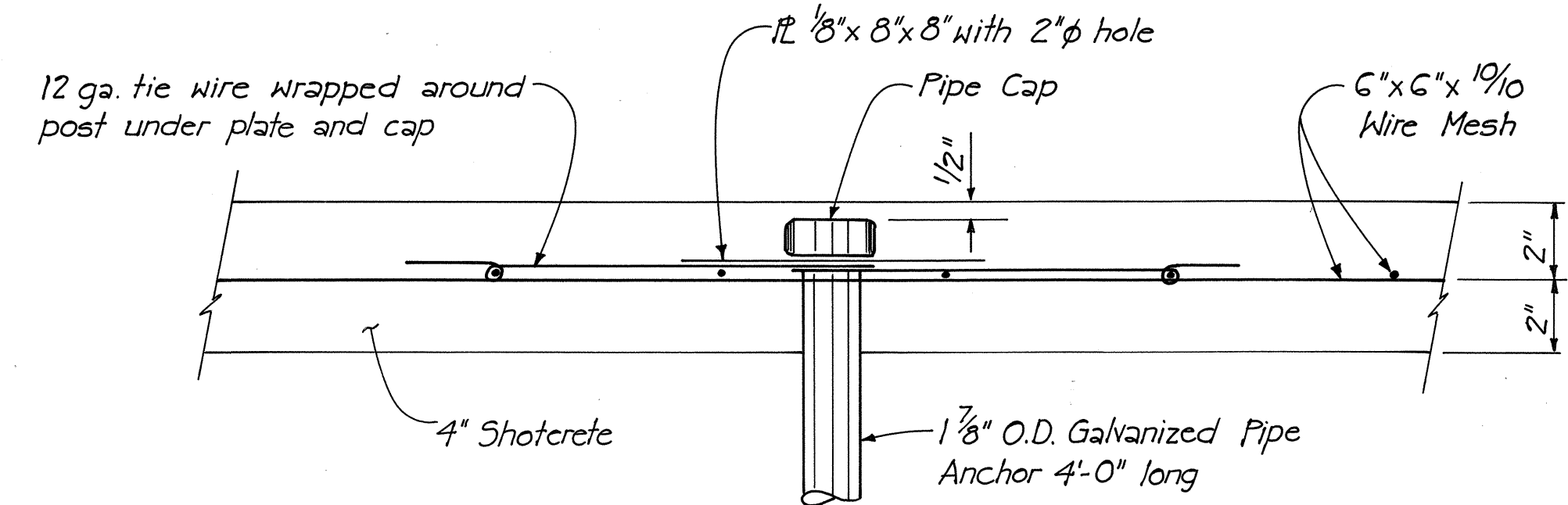
PLAN
Scale: 1" = 5'



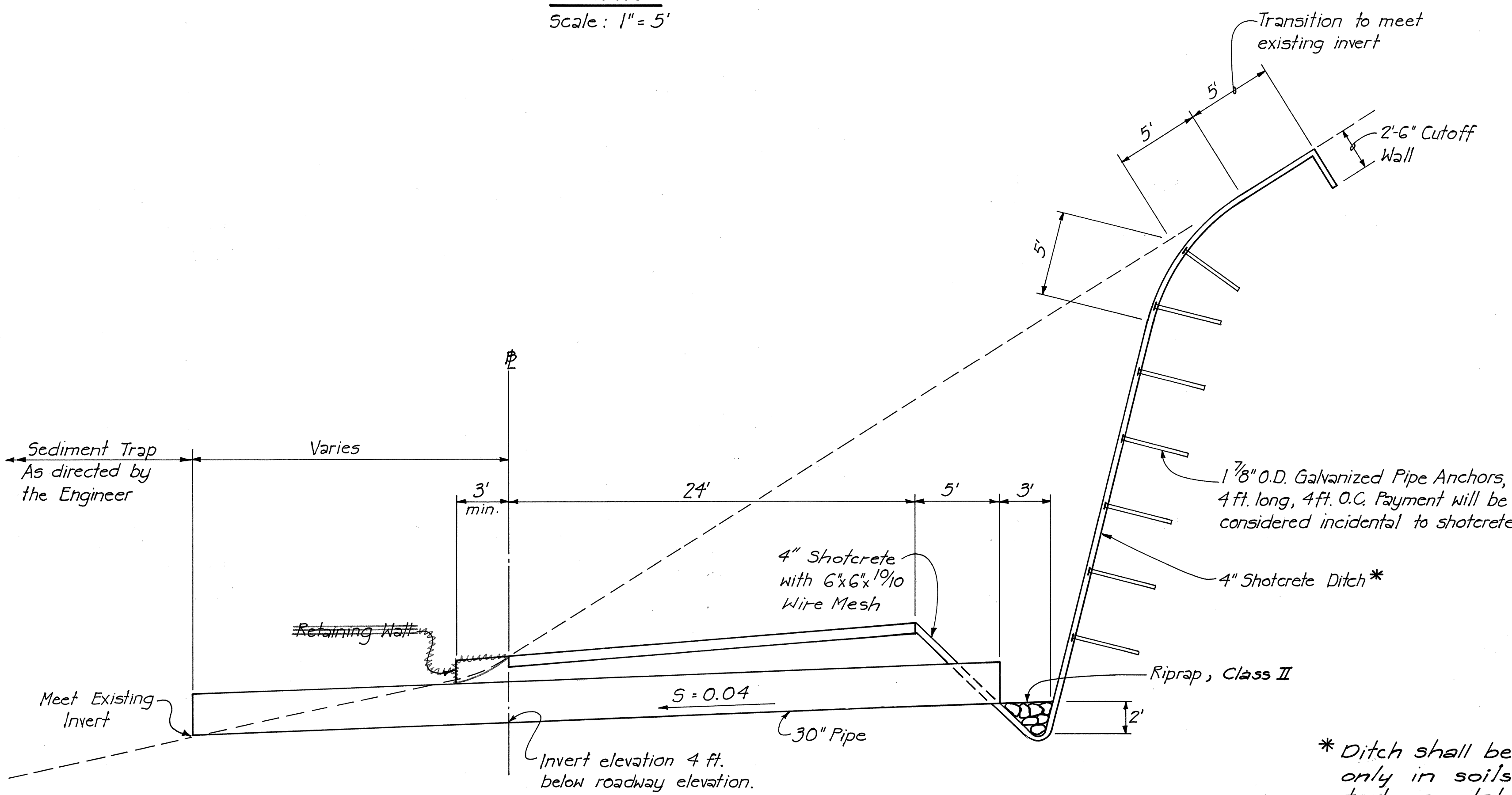
SECTION A
Scale: 1" = 1'-0"



PLAN OF PIPE ANCHOR
Scale: 1 1/2" = 1'-0"



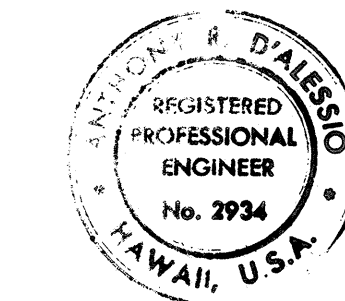
SECTIONAL ELEVATION OF PIPE ANCHOR
Scale: 3" = 1'-0"



TYPICAL SPILLWAY DETAILS
Scale: 1" = 5'

* Ditch shall be lined with Shotcrete only in soils that are considered to be erodable by the engineer. Paid for under item G28.1000.

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

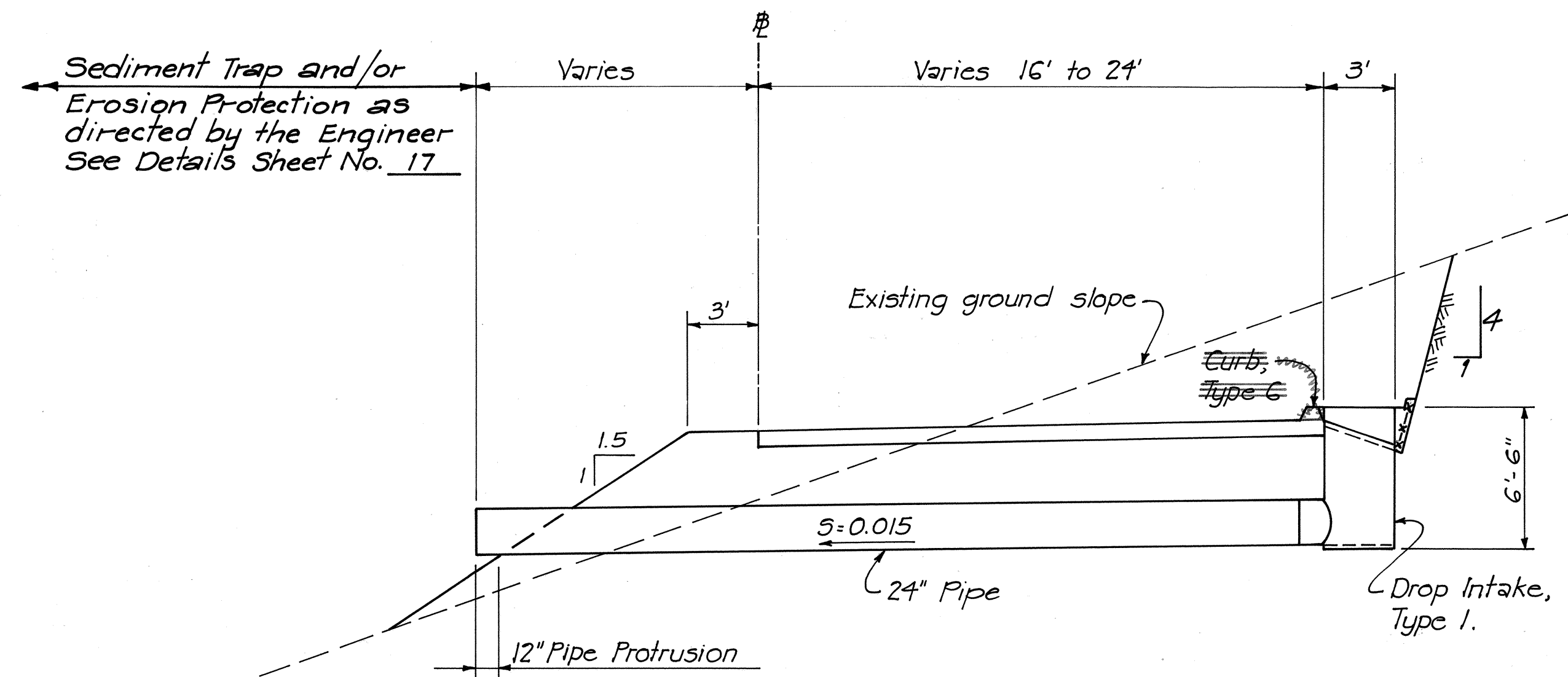


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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
INTERSTATE ROUTE H-3
NORTH HALAWA
CONSTRUCTION ACCESS ROAD
DRAINAGE DETAILS

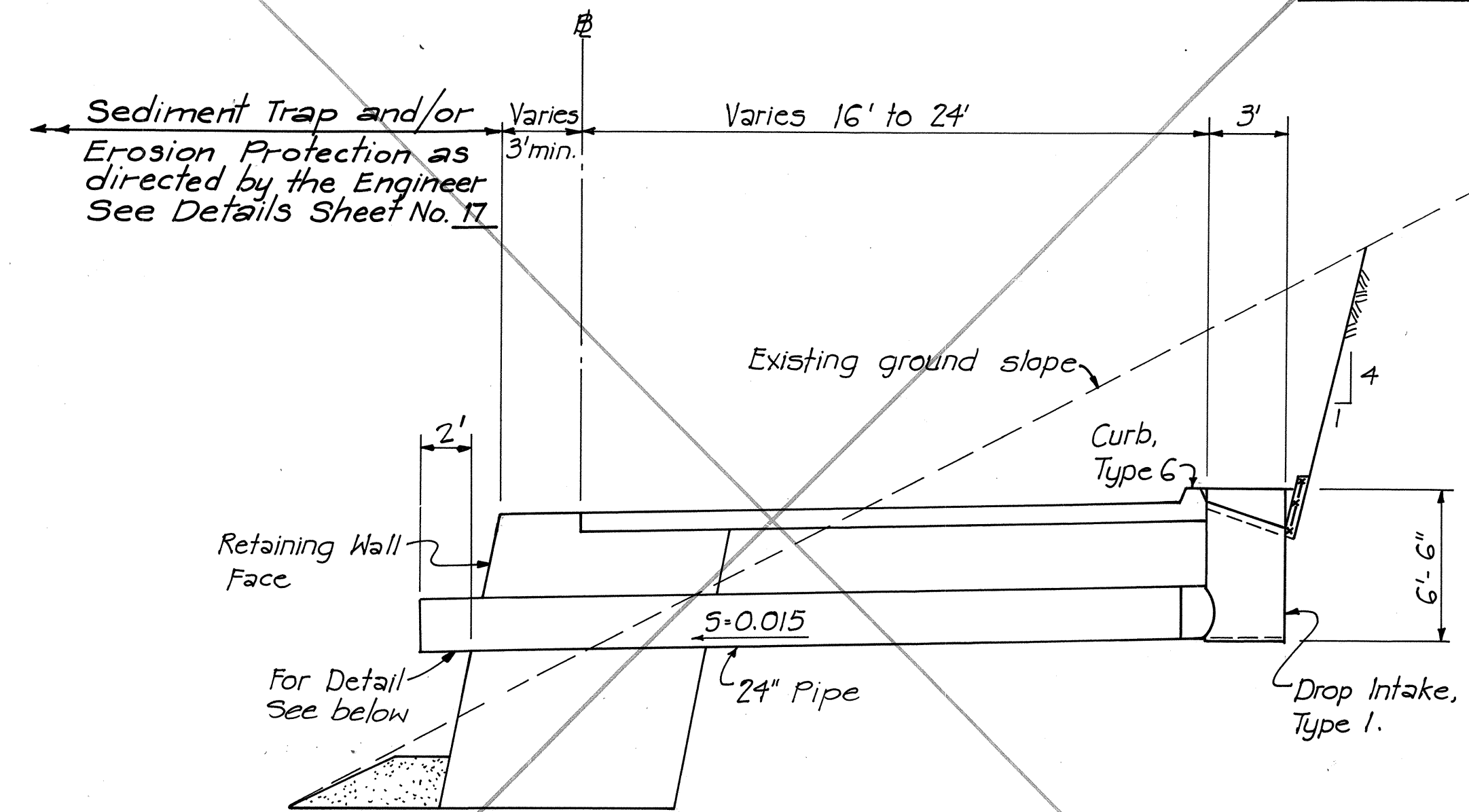
SCALE: AS SHOWN
DATE: JULY 1987
SHEET No. 2 OF 4 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(35)	1988	15	24



**TYPICAL DRAINAGE RELIEF PIPE
FILL SECTION**

Scale: 1" = 5'

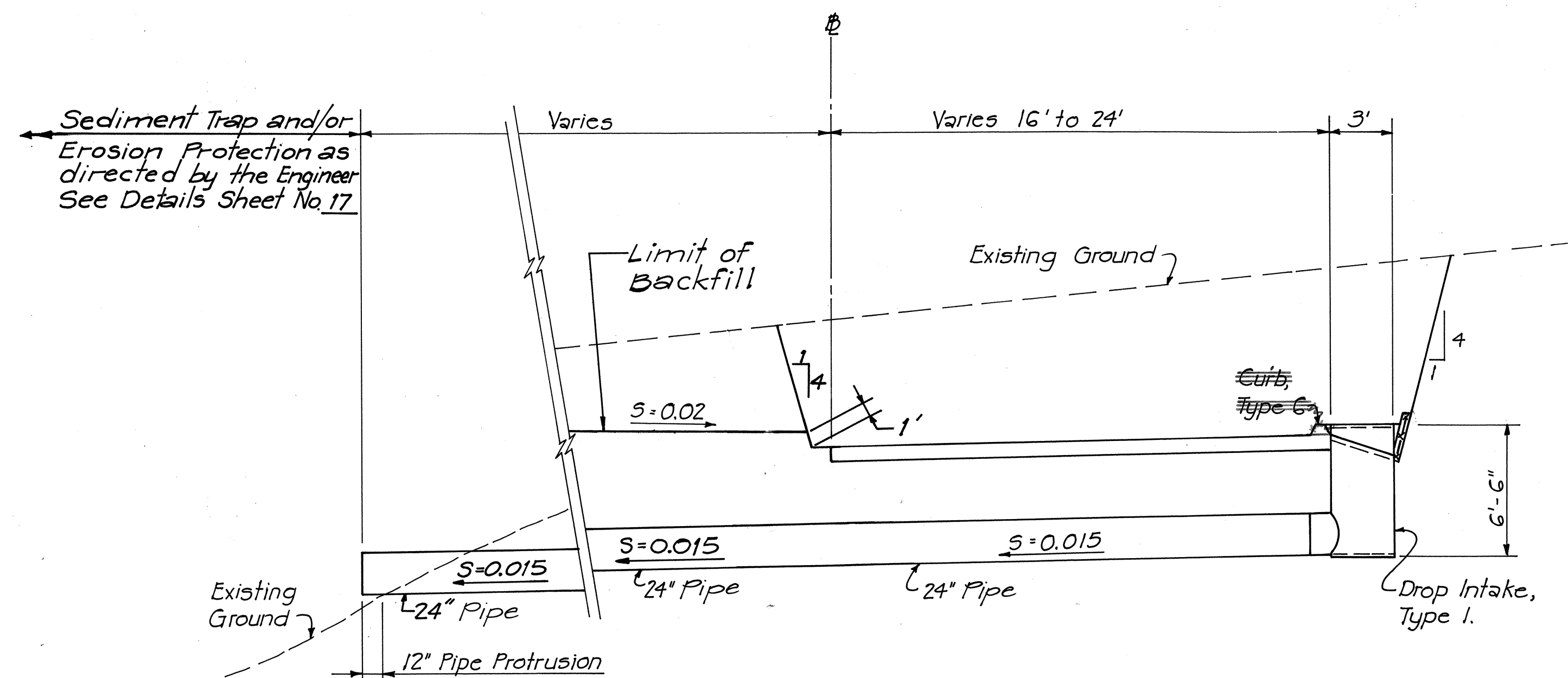


**TYPICAL DRAINAGE RELIEF PIPE
RETAINING WALL SECTION**

Scale: 1" = 5'

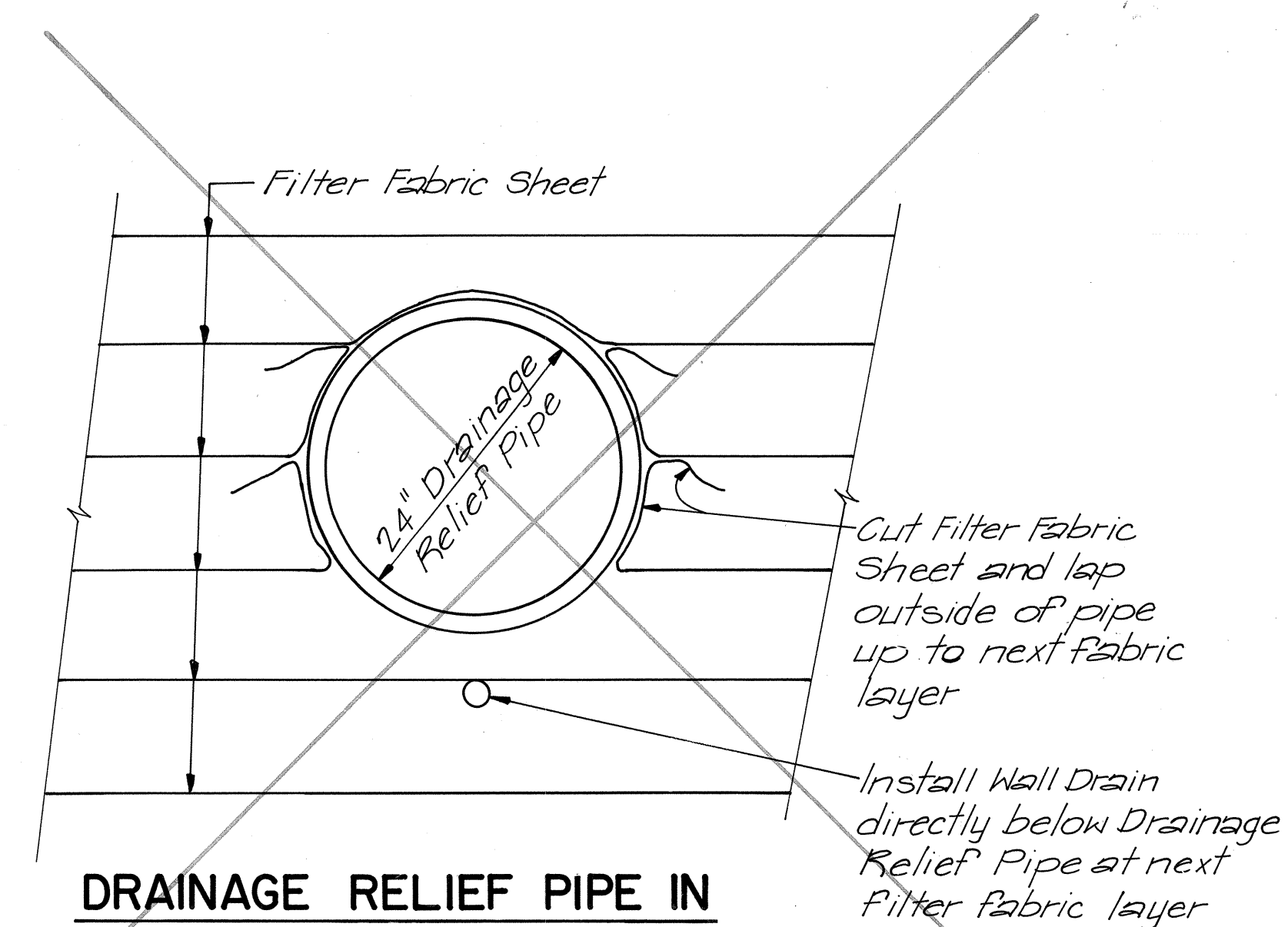
NOTES

1. Drainage Relief Pipes as shown on Plans, are located every 300 ft., except where Profile slopes are less than 0.015 in which case pipes are spaced 150 ft. apart.
2. Drainage Relief Pipes shall be provided in sump areas, before stream crossings, and as directed by the Engineer.
3. If the Contractor elects to use reinforced concrete pipe, a concrete collar (24" wide by 6" thick with reinforcing) shall be used for the connection to the CMP Stub from the Drop Intake. Payment for the concrete collar shall be incidental to the various contract items.



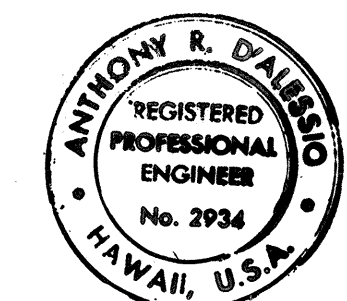
**TYPICAL DRAINAGE RELIEF PIPE
CUT SECTION**

Scale: 1" = 5'



**DRAINAGE RELIEF PIPE IN
FILTER FABRIC WALL**

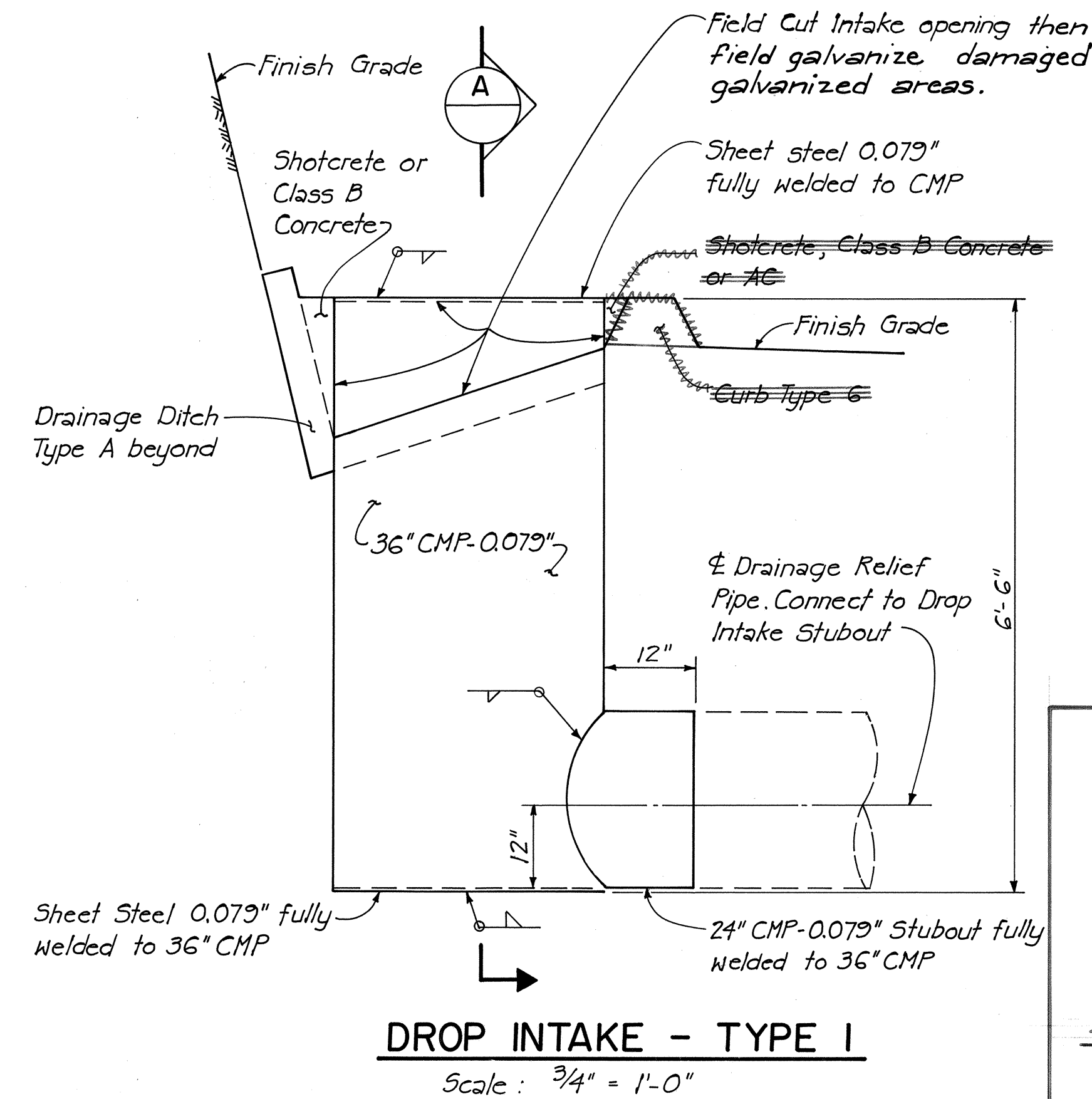
N. T. S.



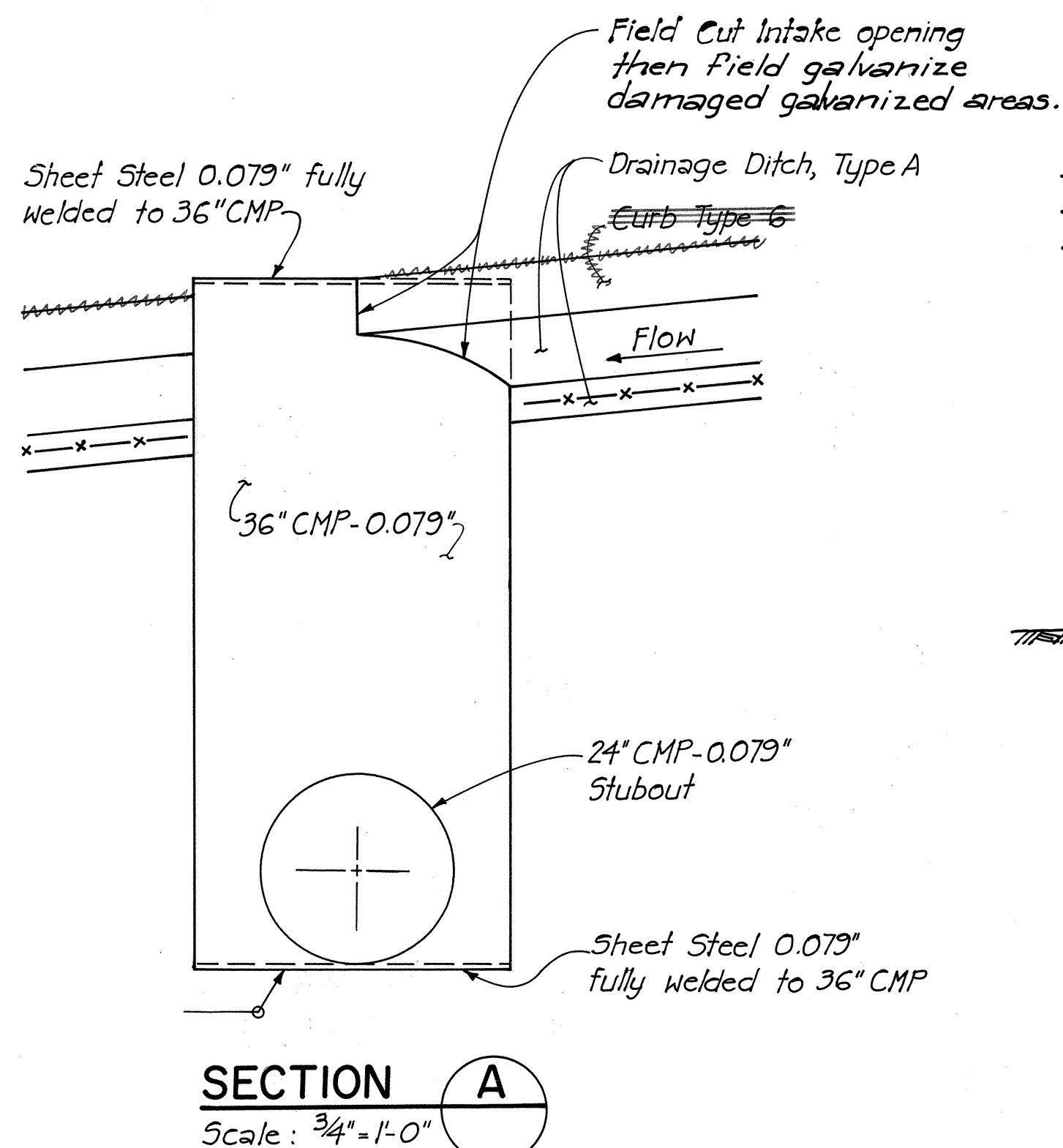
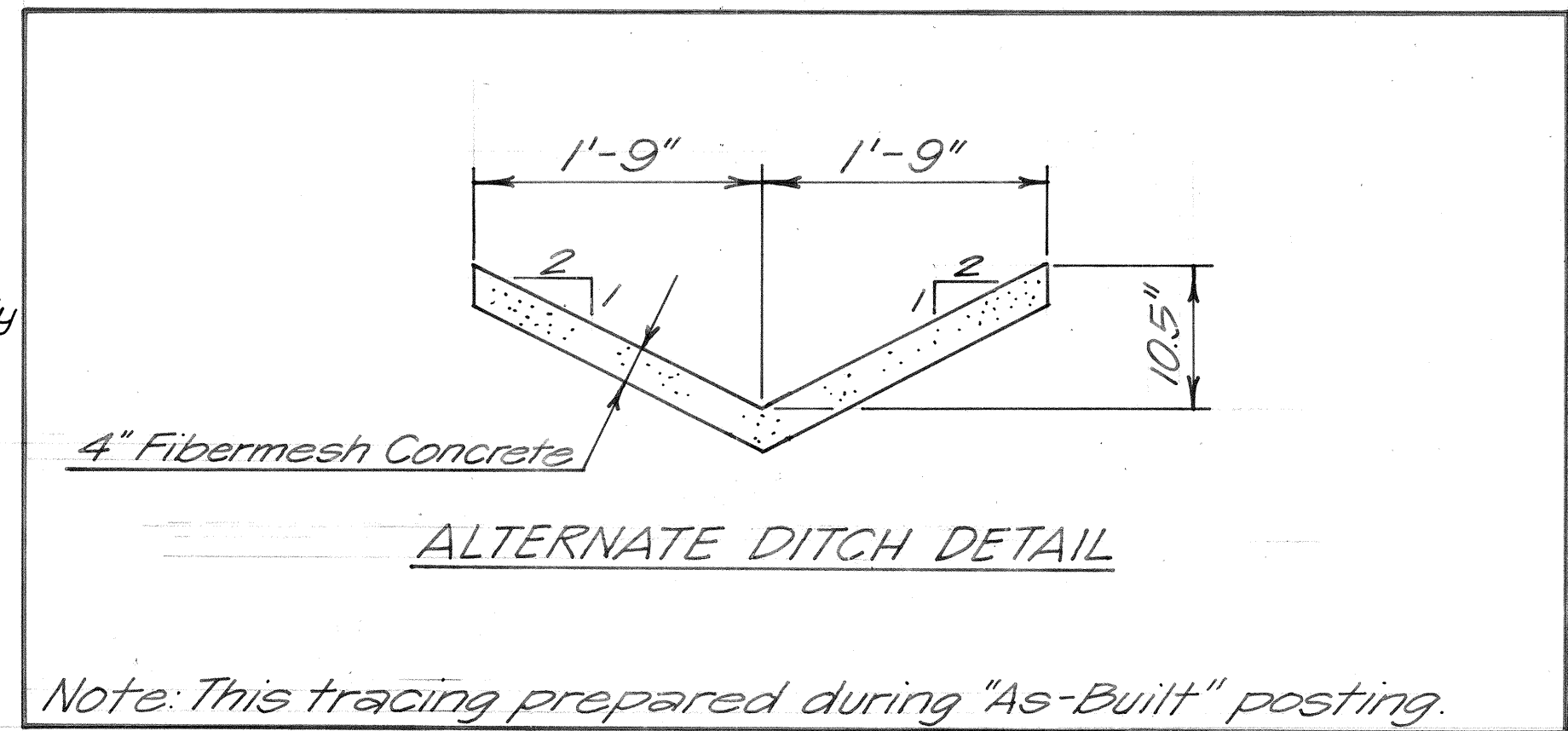
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STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
INTERSTATE ROUTE H-3	
NORTH HALAWA CONSTRUCTION ACCESS ROAD	
DRAINAGE DETAILS	
SCALE: AS SHOWN	DATE: JULY 1987
SHEET No. 3 OF 4 SHEETS	

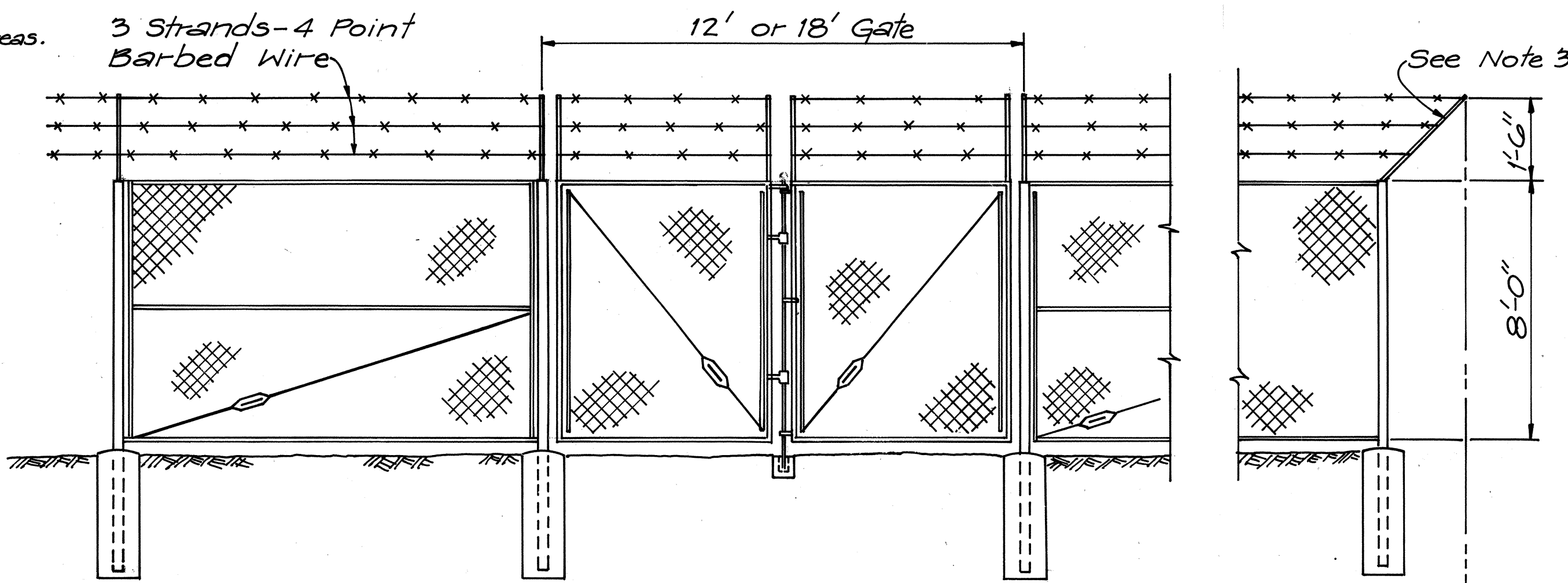
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(35)	1988	16	24



**TYPE A
DRAINAGE DITCH DETAIL**
Scale: 3/4" = 1'-0"

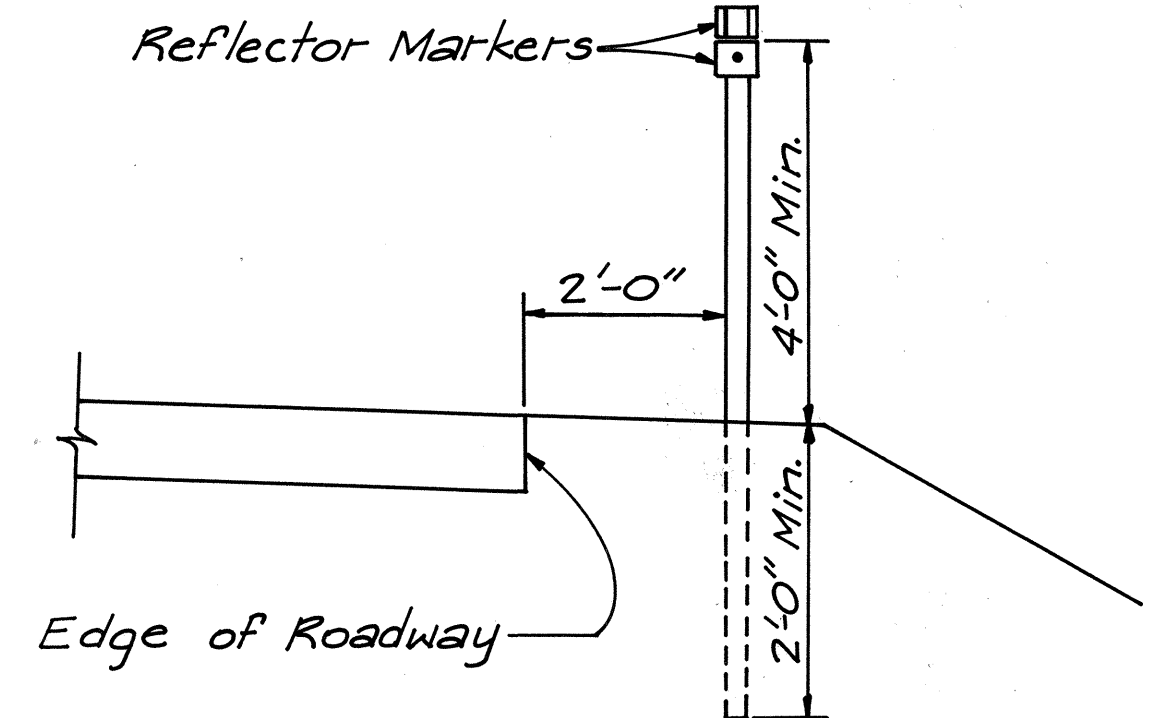


SECTION A
Scale: 3/4" = 1'-0"

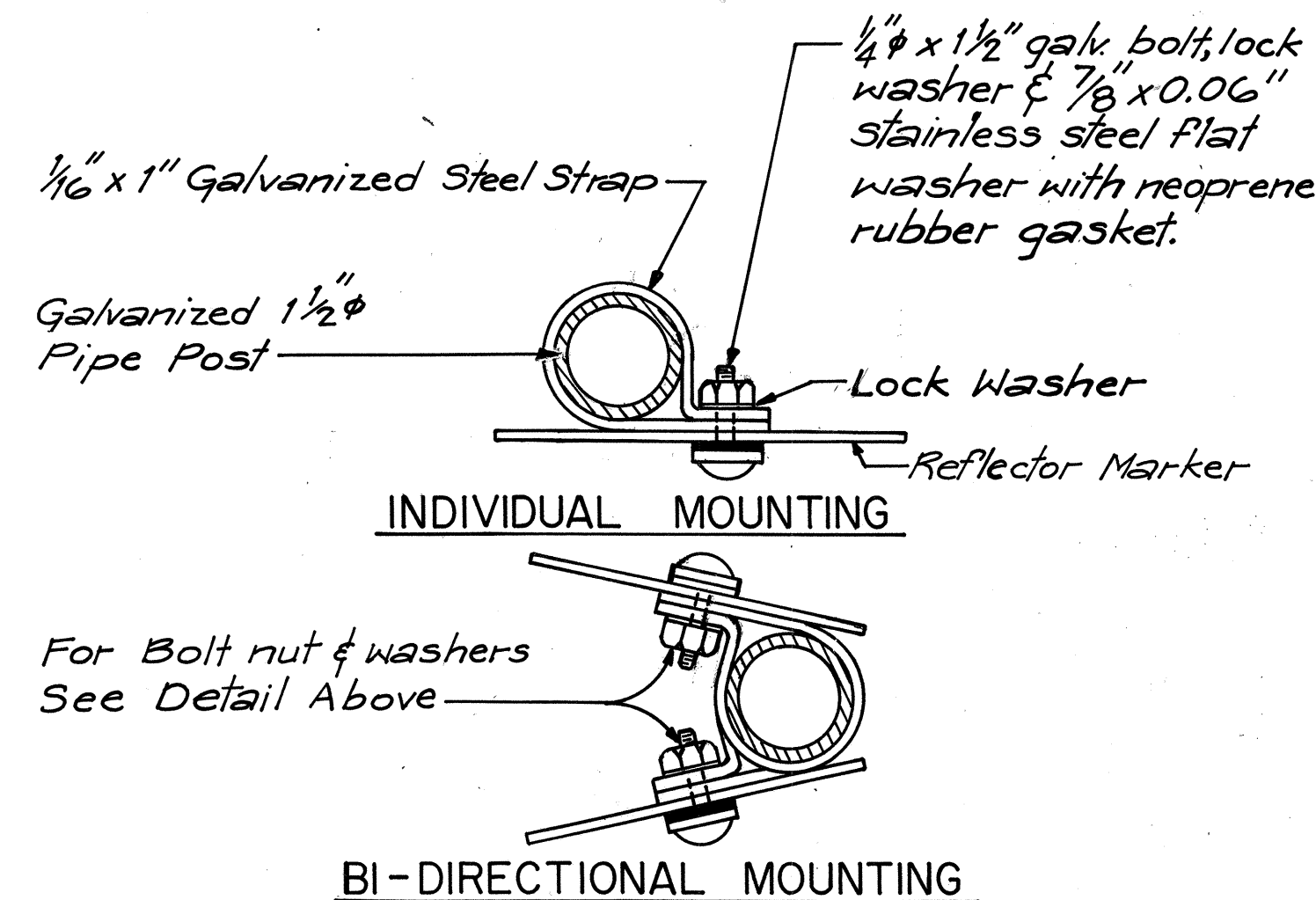


- NOTES:**
1. Material and construction requirements are the same as for 6'-0" high chain link fence.
 2. Fence to be provided with 3 strands of 4 point barbed wire securely attached to single extension arms along top of fence.
 3. Single extension arms shall point outward at an angle of 45°. All extension arms to be 12 gage pressed steel.

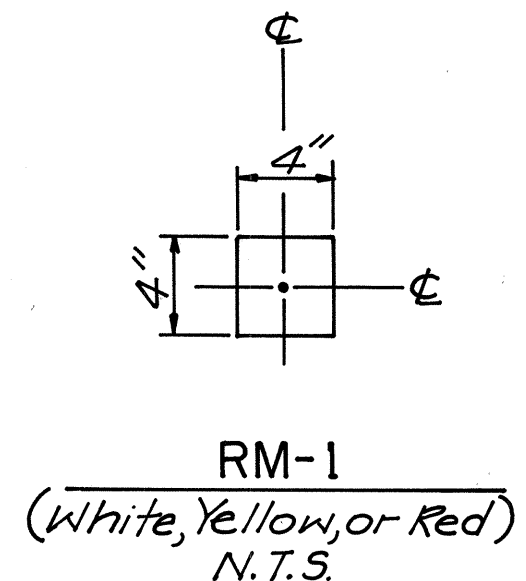
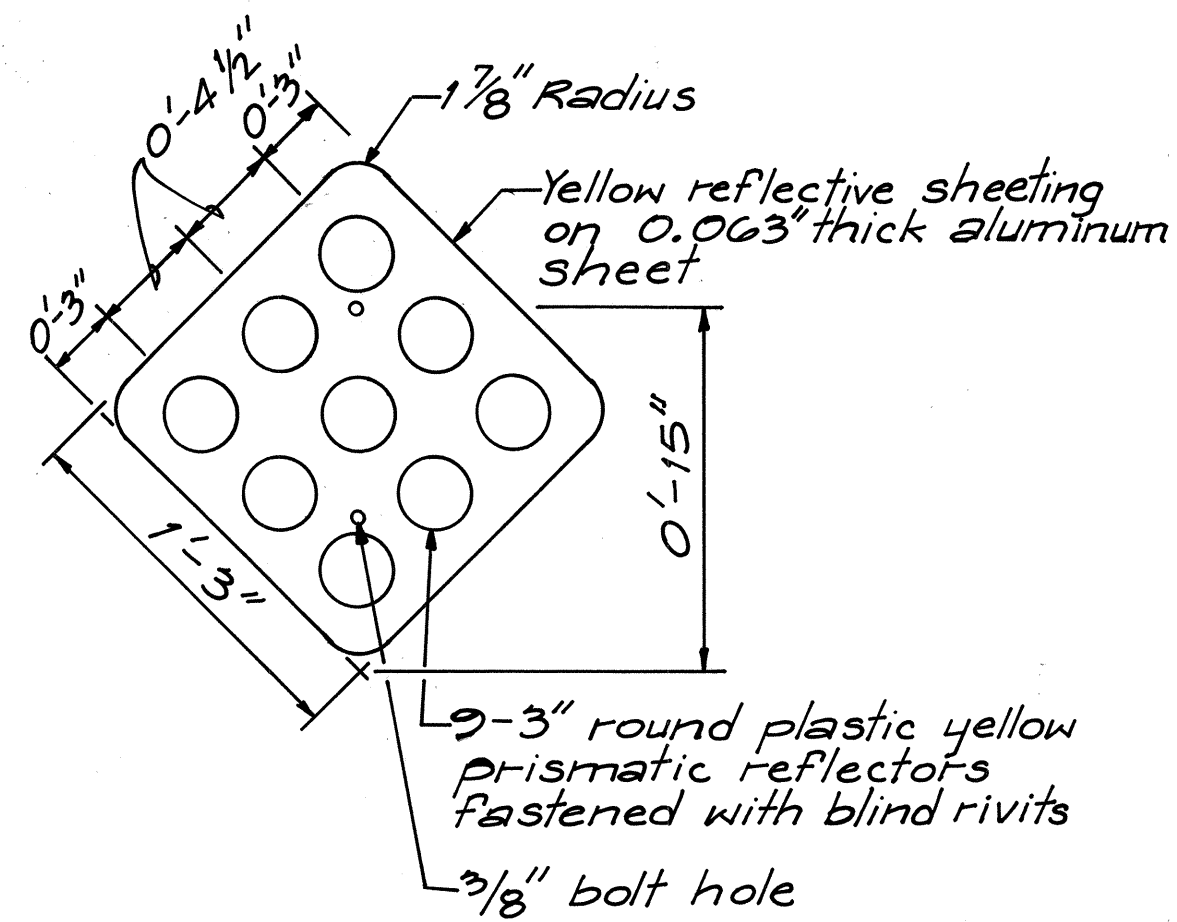
SECURITY CHAIN LINK FENCE
N.T.S.



REFLECTOR MARKER MOUNTING DETAIL
N.T.S.

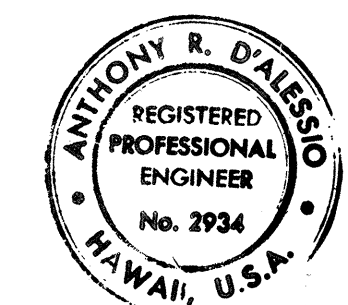


TYPICAL MOUNTING DETAILS
N.T.S.



REFLECTOR MARKERS
N.T.S.

- REFLECTOR NOTES:**
- 1) Reflector marker RM-1 shall be:
 - a) Yellow if placed along the left edge of divided roadways, one-way roadways, and ramps in the direction of travel.
 - b) White if placed along the right edge of divided roadways, one-way roadways, and ramps in the direction of travel.
 - 2) For reflector marker RM-2, reflective sheeting material may be used as an alternate.



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
INTERSTATE ROUTE H-3
NORTH HALAWA
CONSTRUCTION ACCESS ROAD
ROADWAY AND DRAINAGE DETAILS
SCALE: AS SHOWN
DATE: JULY 1987
SHEET No. 4 OF 4 SHEETS

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