

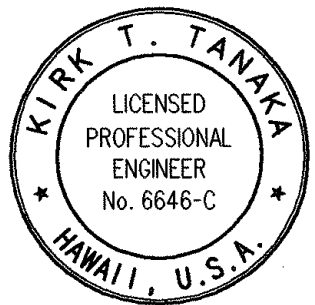
CONSTRUCTION ANNOTATIONS:	
①	PROVIDE 3-#4 DOWELS (36" LONG) @ 12" O.C. VERT.
②	REMOVE EXISTING BRICK PLANTER AND BACKFILL
③	REMOVE EXISTING BANYAN TREE STUMP AND BACKFILL
④	REMOVE EXISTING MONEY TREE AND BACKFILL
⑤	EXISTING CORRUGATED METAL SIDINGS IF REMOVED BY CONTRACTOR AS REQUIRED FOR CONSTRUCTION OF THE RETAINING WALL SHALL BE REPLACED WITH NEW CORRUGATED METAL SIDING AT NO ADDITIONAL COST TO THE STATE.
⑥	REPAIR SPALL AREAS INSIDE RCBC. SEE SHEET 5 FOR INSIDE CULVERT WALL PROFILE.

PLAN VIEW OF EXISTING 4' x 4' BOX CULVERT

SCALE: 1 in. = 10 ft.

NOTE:
CONTRACTOR TO SUPPORT EXISTING HOUSE STRUCTURE AS REQUIRED FOR CONSTRUCTION OF CRM RETAINING WALL. SEE DRAINAGE NOTES #4 ON SHEET 3.

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
NUMBER OF SHEETS	
CHECKED BY	



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K. T. Tanaka

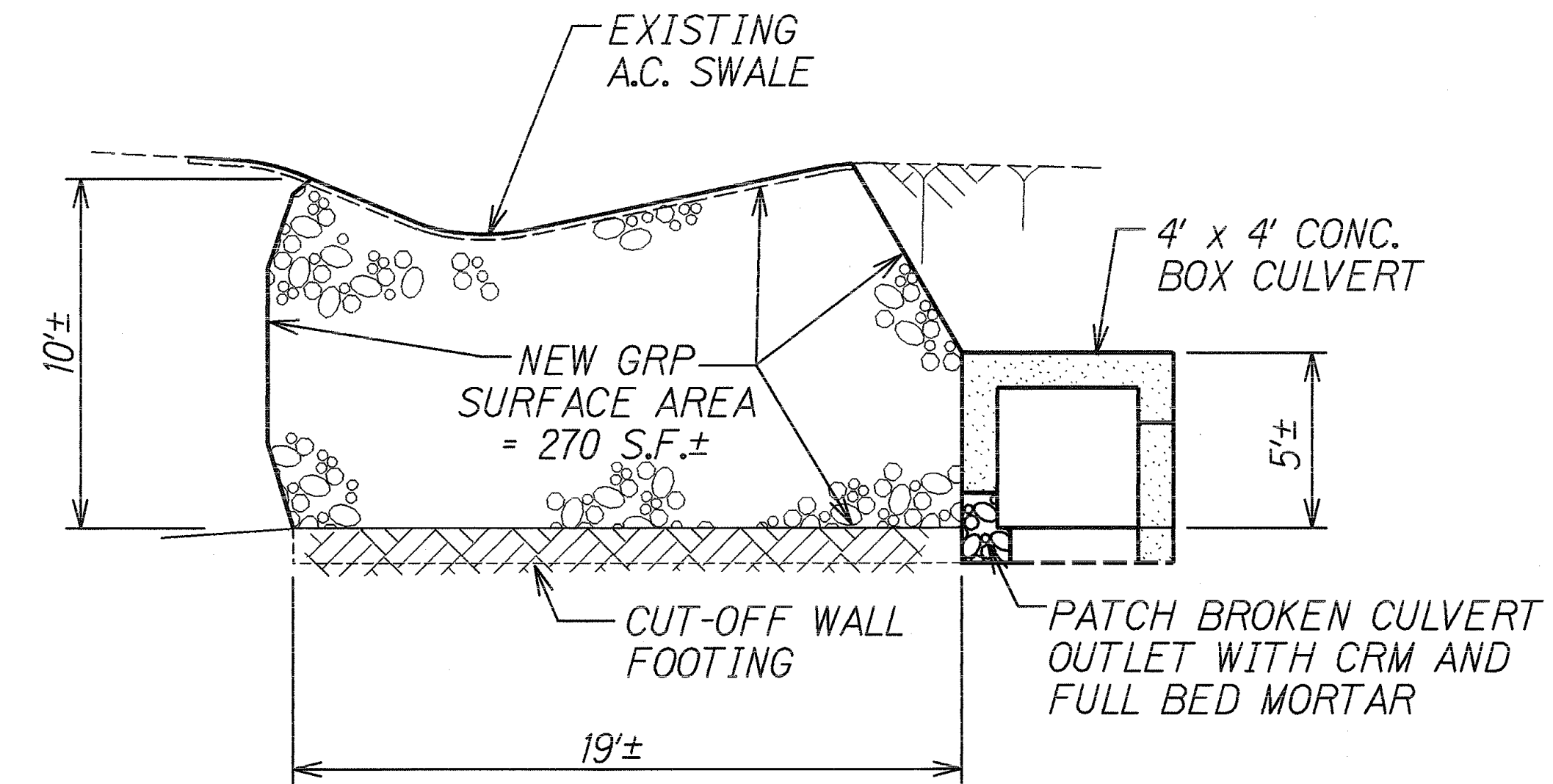
R. T. TANAKA ENGINEERS, INC.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
REPAIR OF DRAINAGE STRUCTURE AT M.P. 2.86
HAWAII BELT ROAD
CULVERT REPAIRS AND RENOVATIONS
VARIOUS LOCATIONS, HAWAII
PROJECT No. HWY-H-04-00M

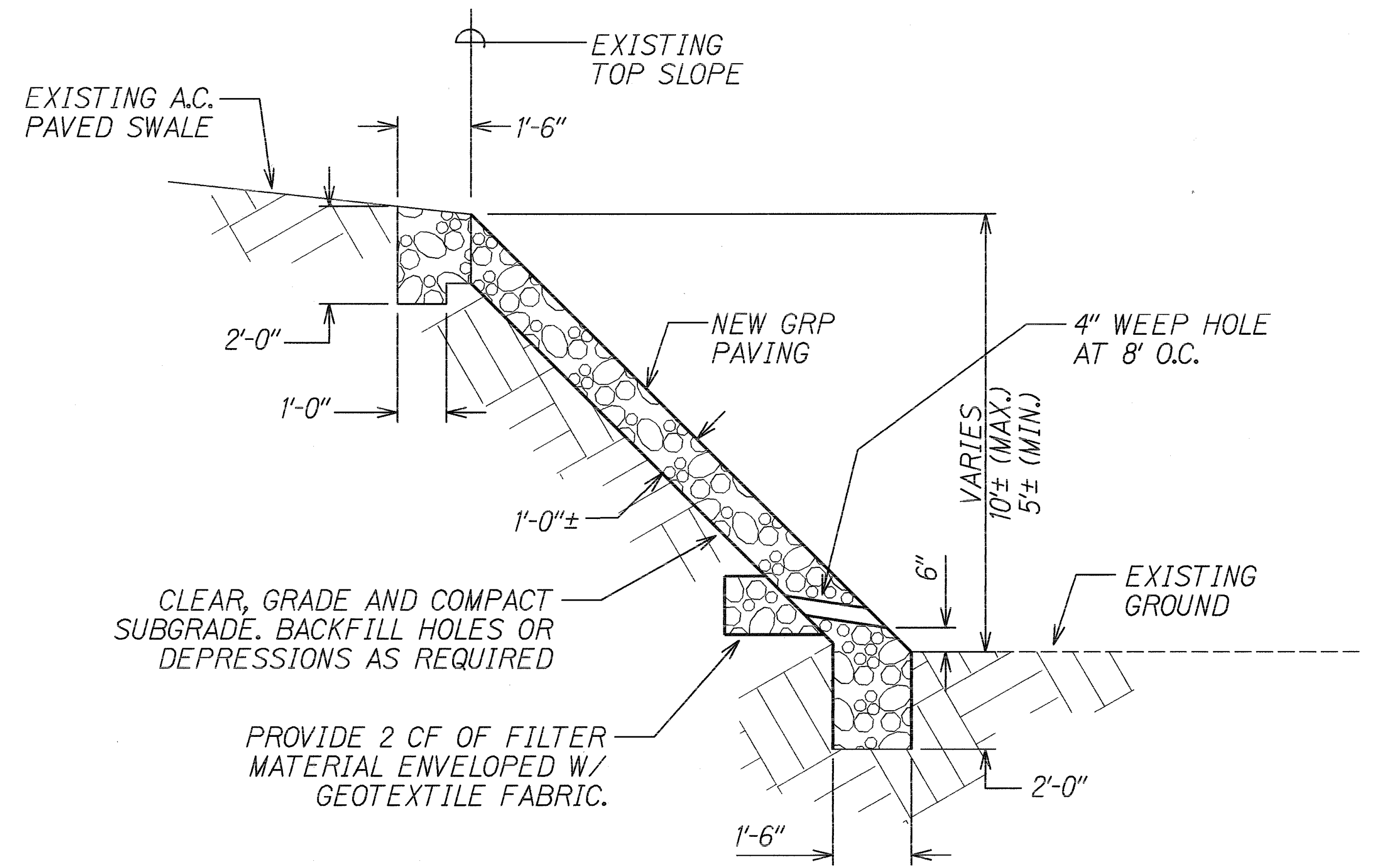
Scale: AS NOTED Date: FEBRUARY 2000

SHEET No. 1 OF 2 SHEETS

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-H-04-00M	2000	5	9

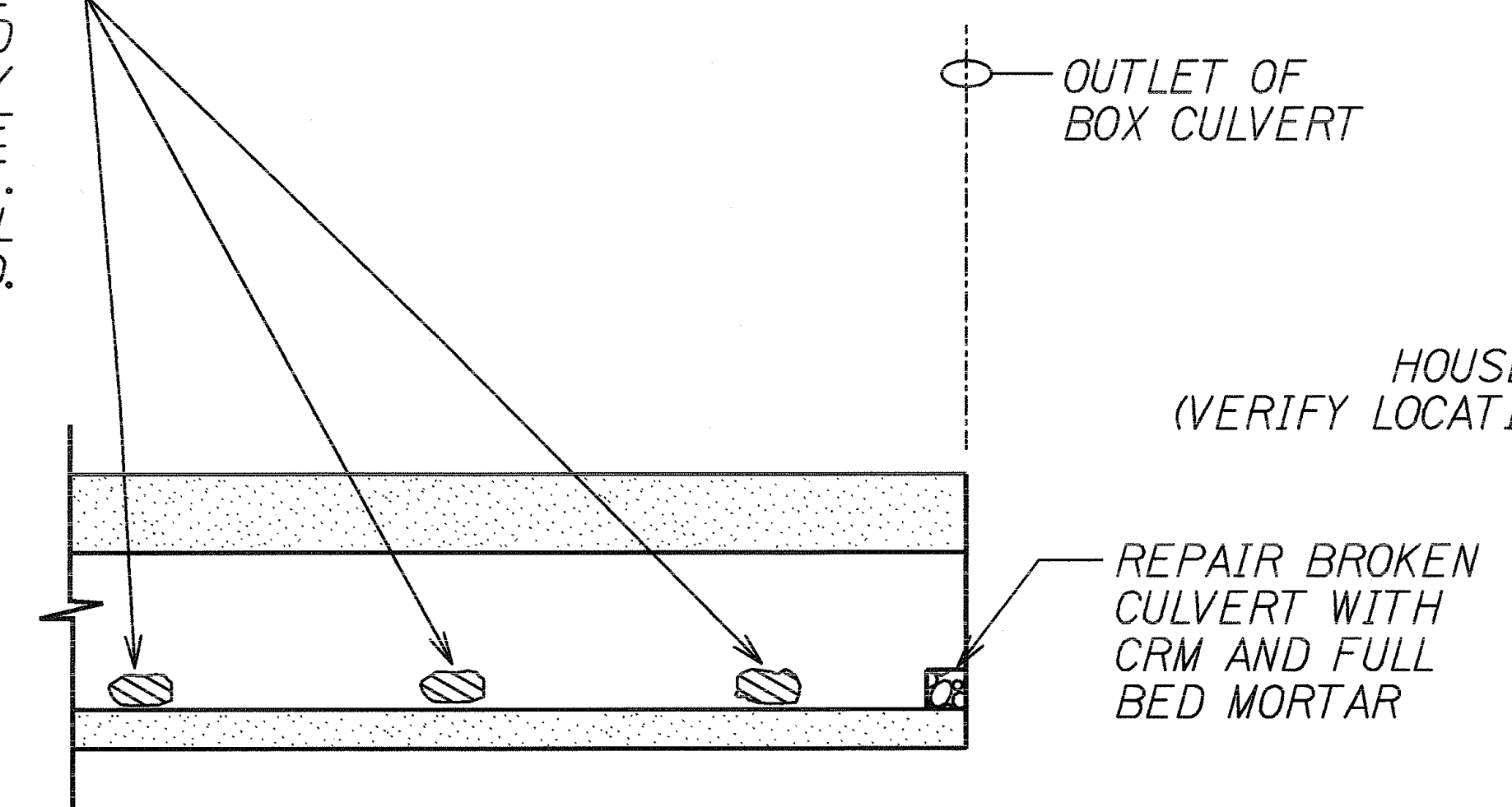


ELEVATION VIEW AT OUTLET
SCALE: 1/4 in. = 1 ft.

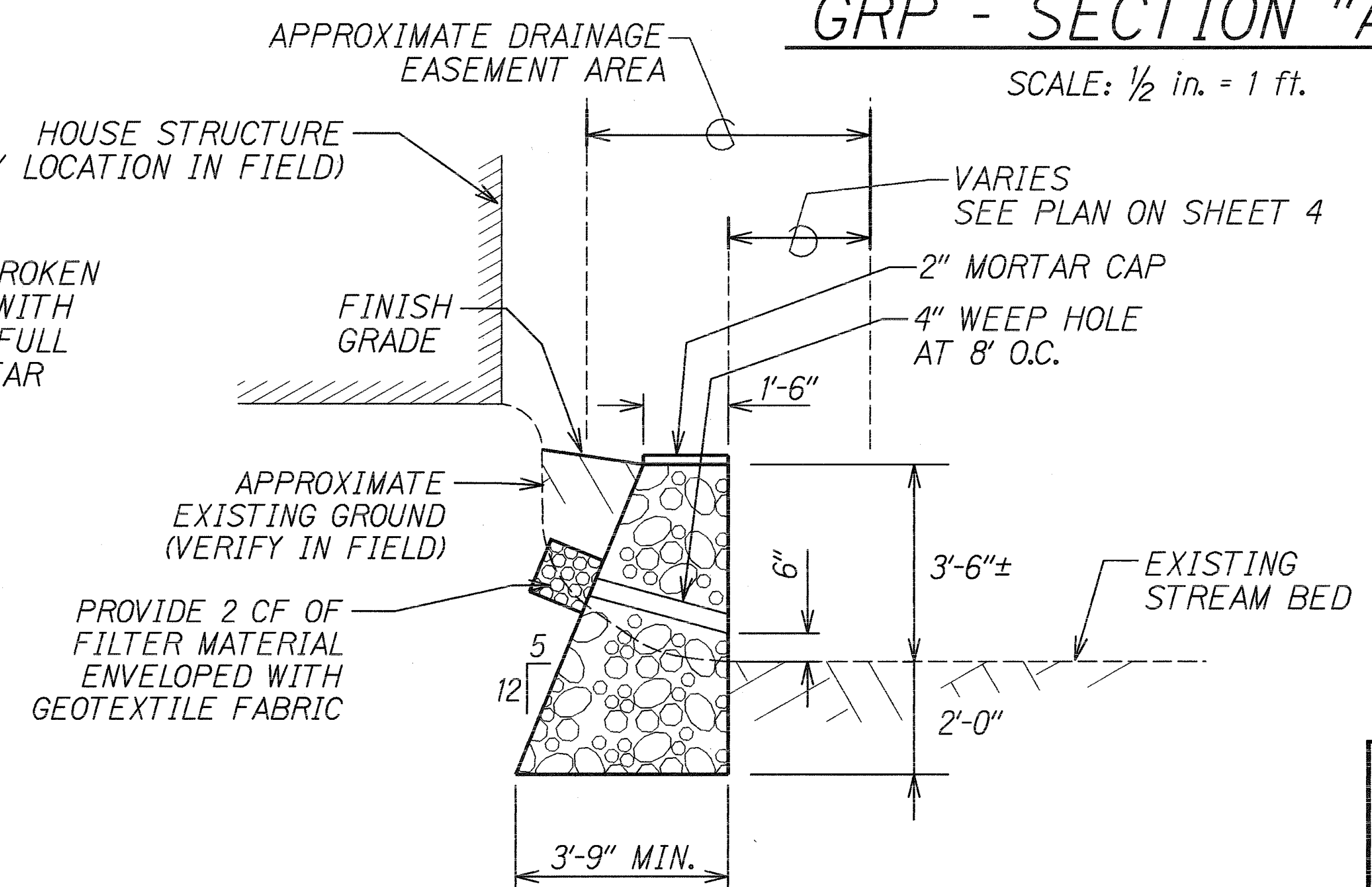


GRP - SECTION "A-A"
SCALE: 1/2 in. = 1 ft.

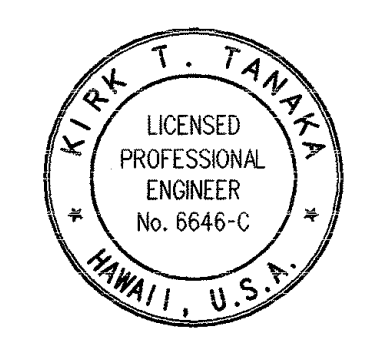
PATCH SPALL AREAS IN THE BOX CULVERT. CHIP TO SOUND CONCRETE AND APPLY EPOXY BONDING AGENT BEFORE PLACEMENT OF CONCRETE. ENGINEER TO MARK SPALL AREAS TO BE REPAIRED.



INSIDE CULVERT WALL PROFILE
SCALE: 1/4 in. = 1 ft.



CRM RETAINING WALL DETAIL
SCALE: 1/2 in. = 1 ft.



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R. T. Tanaka
R. T. TANAKA ENGINEERS, INC.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**REPAIR OF DRAINAGE
STRUCTURE AT M.P. 2.86**
HAWAII BELT ROAD,
CULVERT REPAIRS AND RENOVATIONS
VARIOUS LOCATIONS, HAWAII
PROJECT No. HWY-H-04-00M
Scale: AS NOTED Date: FEBRUARY 2000

SHEET No. 2 OF 2 SHEETS

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