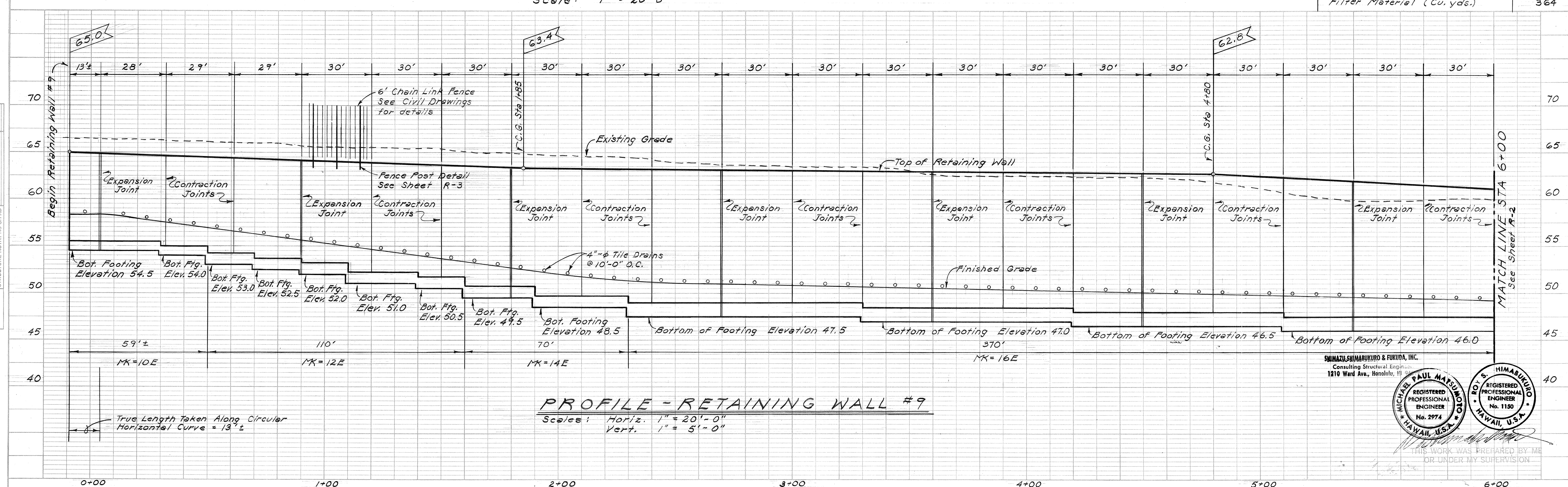
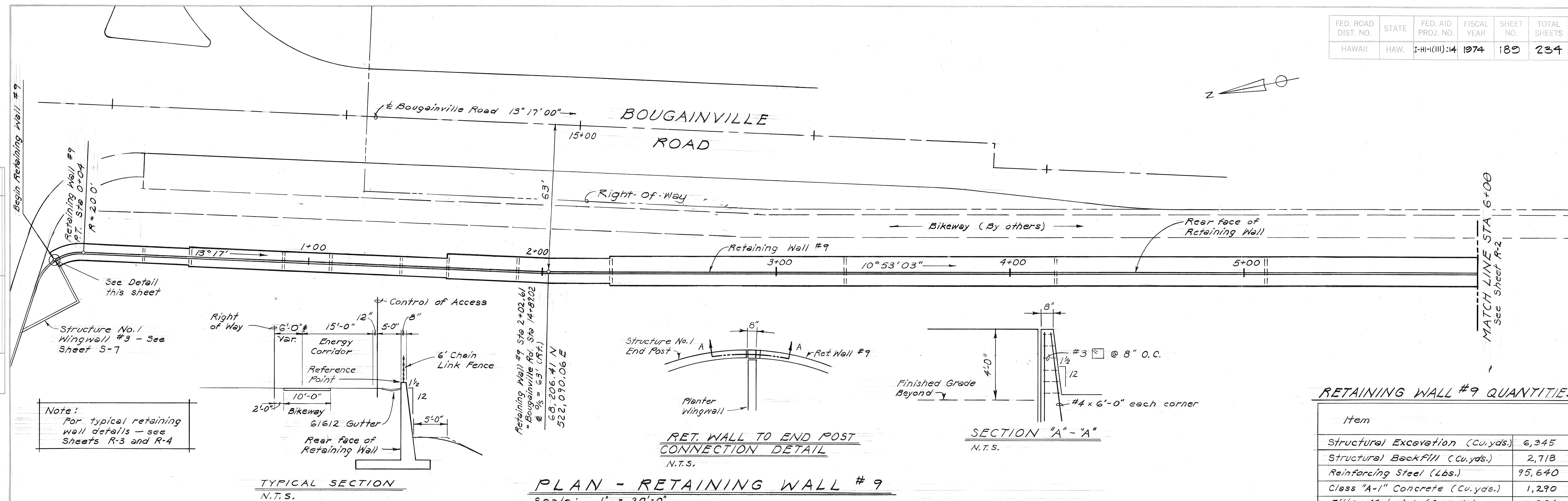


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H-11(III)-14	1974	189	234

PLAN	DATE	BY	DATE	BY
SURVEYED				
NOTED				
ALIGNED				
CHECKED				
RT. OF WAY				

PROFILE	DATE	BY	DATE	BY
SURVEYED				
NOTED				
GRADES				
CHECKED				
STRUCTURE				
NOTATIONS				

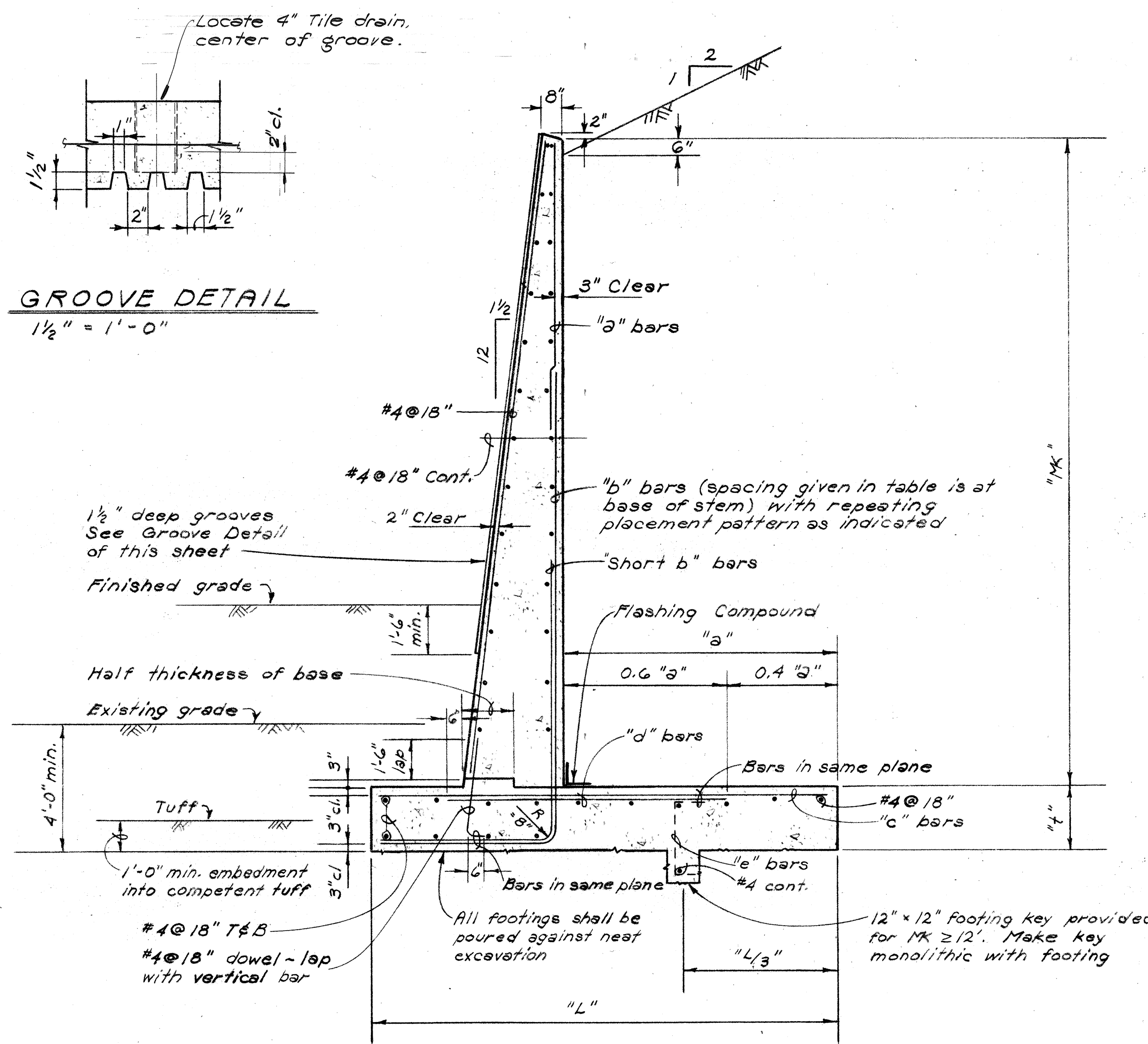


SHIMAZU, SHIMAZUKI & FUKUDA, INC.
Consulting Structural Engineers
1210 Ward Ave., Honolulu, HI 96813

REGISTERED PROFESSIONAL ENGINEER
No. 2974
HAWAII, U.S.A.

REGISTERED PROFESSIONAL ENGINEER
No. 1190
HAWAII, U.S.A.

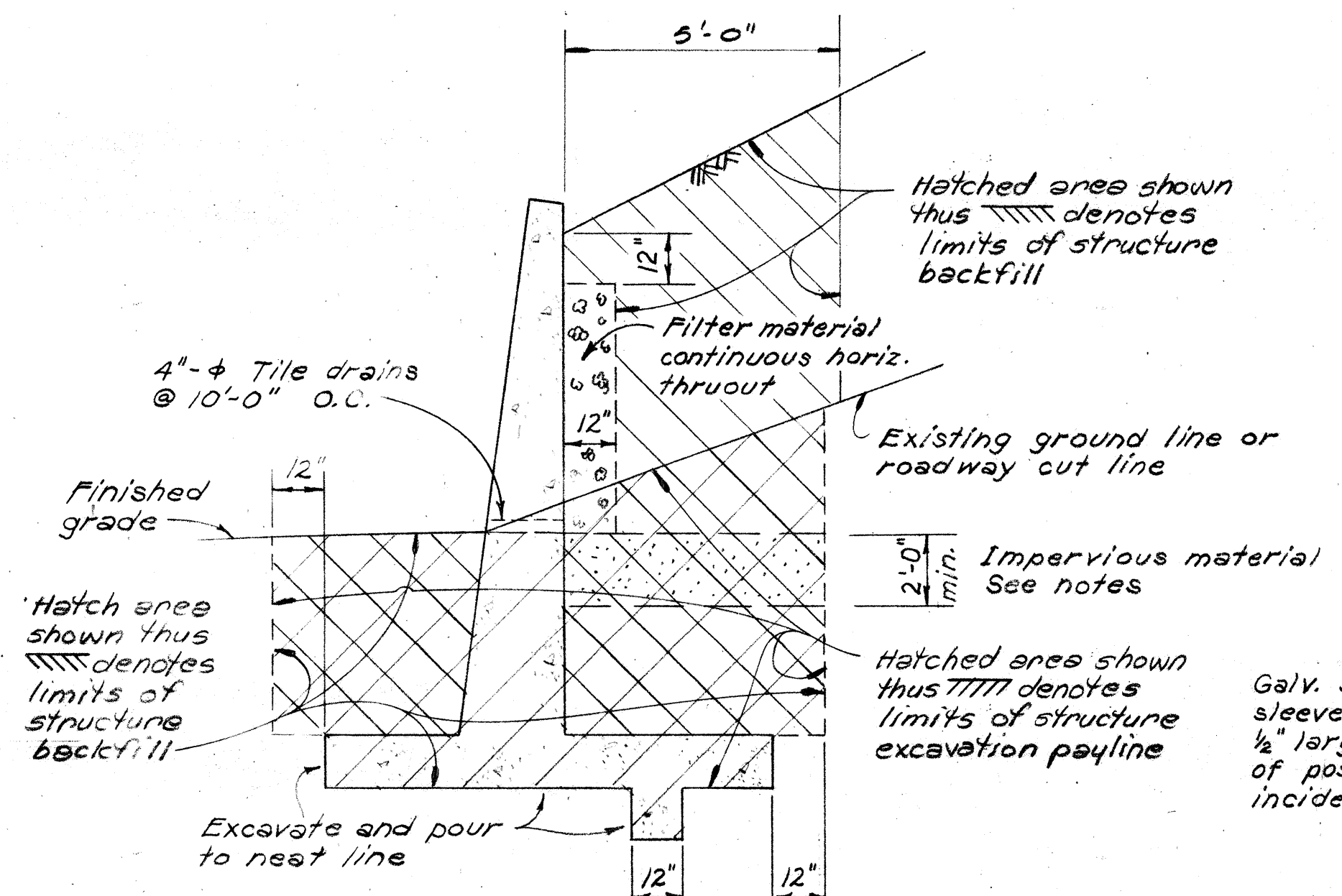
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION



WALL SECTION
N.T.S.

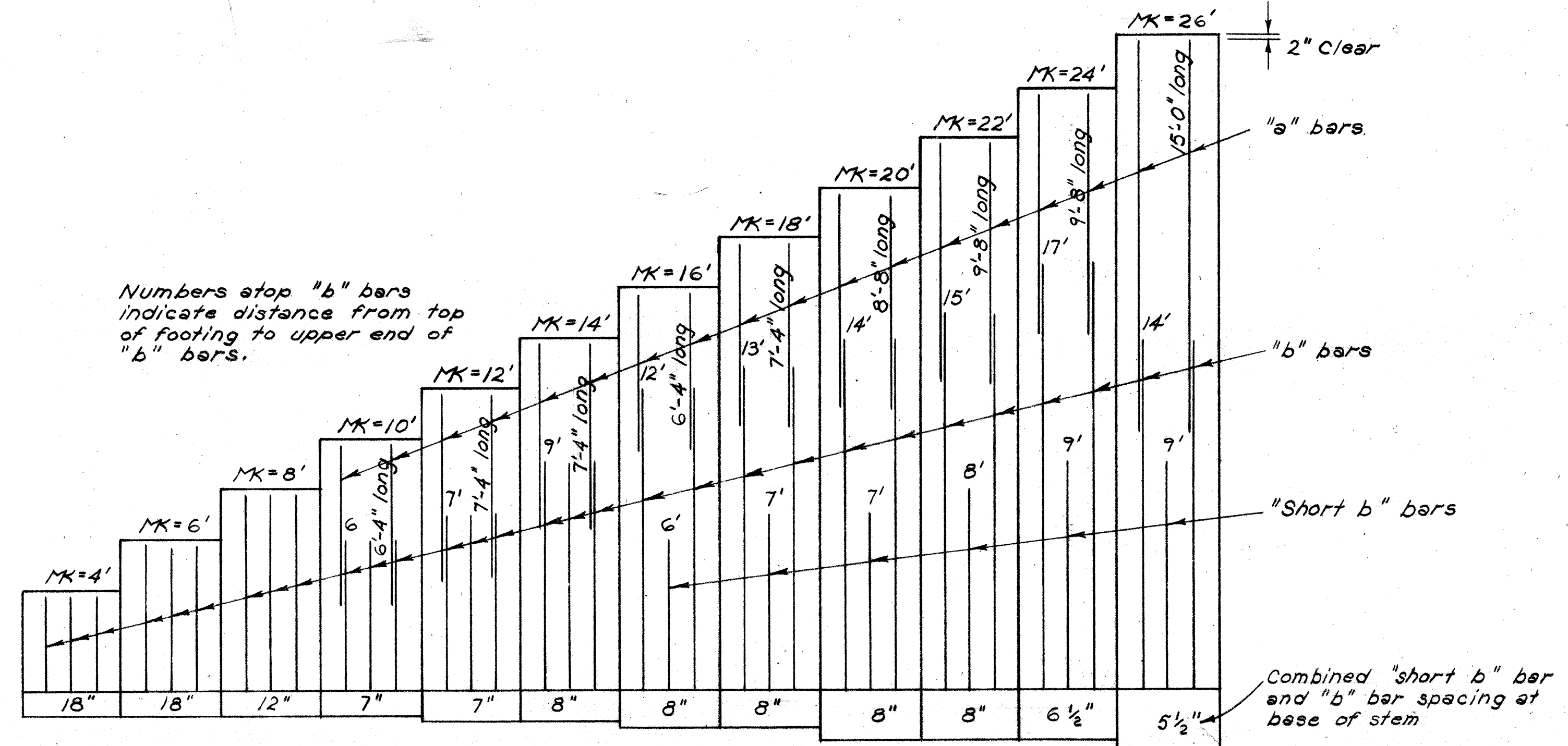
- Notes:**
1. Hatched areas denote limits of structural excavation pay line. All other excavation shall be roadway excavation except as otherwise noted.
 2. Impervious material as selected by the Engineer incidental to structural backfill. When "MK" is 2'-0" or less, all backfill below weep hole level shall be impervious material.
 3. The subgrade upon which filter material is to be placed shall be made as impervious as possible by pneumatic tamping or other approved methods.
 4. Impervious material shall be incidental to roadway excavation or imported borrow when used in embankment area.
 5. Where applicable, the difference in height of backfill on each side of the wall shall not be greater than 3 feet during backfilling operation.

Reference Notes:
Refer to Drawing Sheet R-4 for expansion joint and footing step details.

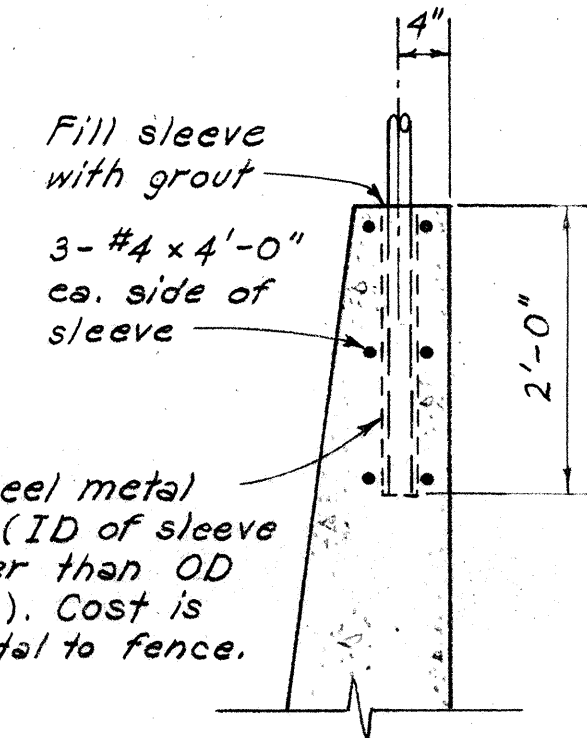


STRUCTURAL EXCAVATION AND DRAINAGE DET.
ALSO STRUCTURAL BACKFILL
N.T.S.

SCHEDULE OF DIMENSIONS AND REINFORCING STEEL											
Maximum "MK"	4'	6'	8'	10'	12'	14'	16'	18'	20'	22'	24'
"L"	2'-6"	4'-0"	5'-0"	7'-0"	8'-0"	10'-6"	12'-6"	13'-6"	14'-6"	16'-6"	18'-6"
"a"	0'-10"	2'-0"	2'-6"	3'-9"	4'-0"	6'-0"	7'-0"	8'-0"	8'-6"	9'-6"	10'-9"
"t"	1'-0"	1'-0"	1'-0"	1'-0"	1'-3"	1'-3"	1'-6"	1'-6"	2'-0"	2'-0"	2'-6"
"a" bars	-	-	-	#4@14"	#4@14"	#4@11"	#4@16"	#4@16"	#5@16"	#5@16"	#5@13"
"b" bars	#4@18"	#4@18"	#4@12"	#4@7"	#5@7"	#7@8"	#8@8"	#9@8"	#9@8"	#10@8"	#10@6 1/2"
"c" bars	#4@18"	#4@18"	#4@12"	#4@7"	#4@14"	#6@16"	#6@16"	#9@16"	#8@16"	#9@16"	#9@13"
"d" bars	-	-	-	-	#4@14"	#6@16"	#6@16"	#9@16"	#8@16"	#9@16"	#9@13"
"e" bars	-	-	-	-	#5@12"	#5@12"	#5@12"	#6@12"	#6@12"	#7@12"	#7@12"



VERTICAL REINFORCING STEEL ARRANGEMENT
N.T.S.



FENCE POST DET.
N.T.S.

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THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL RETAINING
WALL DETAIL

PEARL HARBOR INTERCHANGE
F.A.I. Proj. No. I-HI-1 (III) : 14

Scale: As Shown Date: DEC. 14, 1973

SHEET NO. R-3 OF 4 SHEETS

