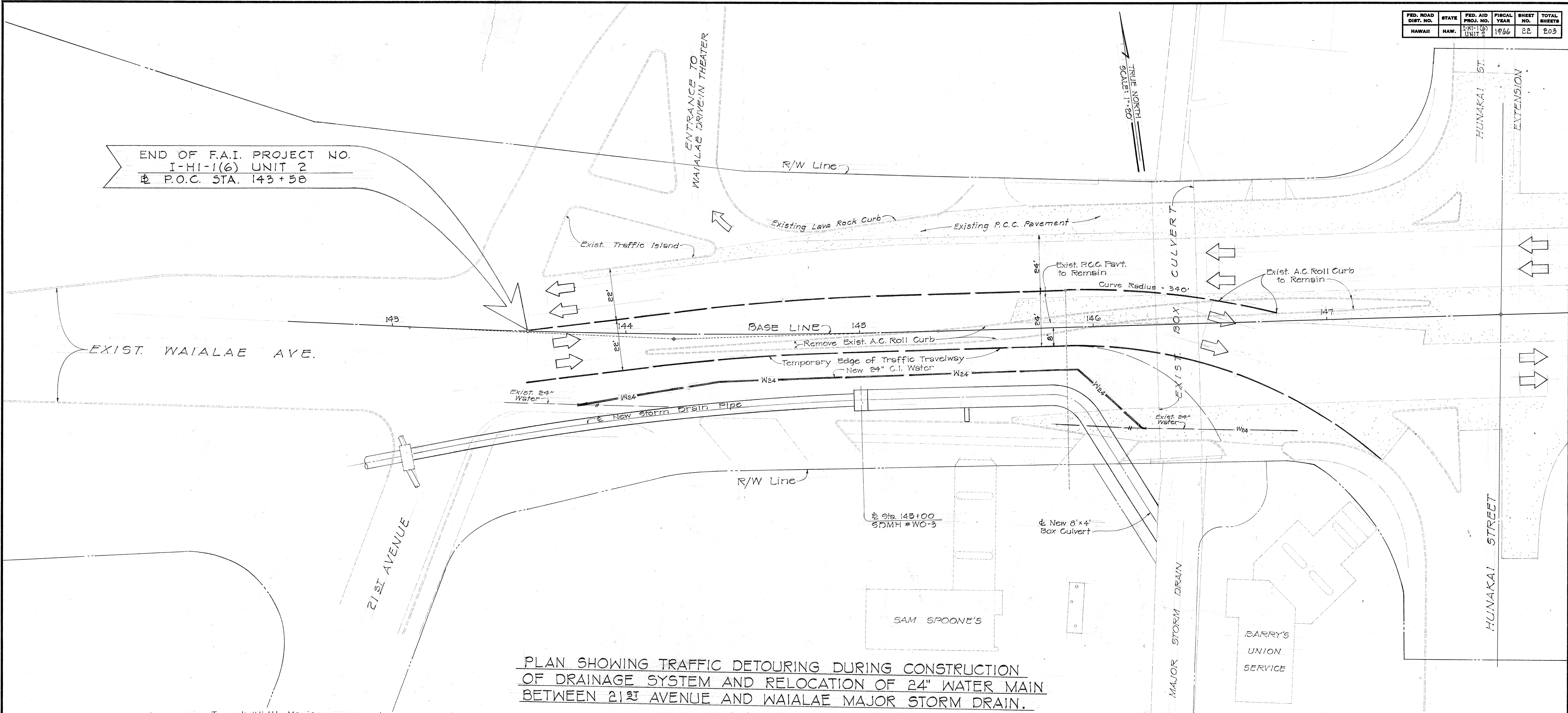


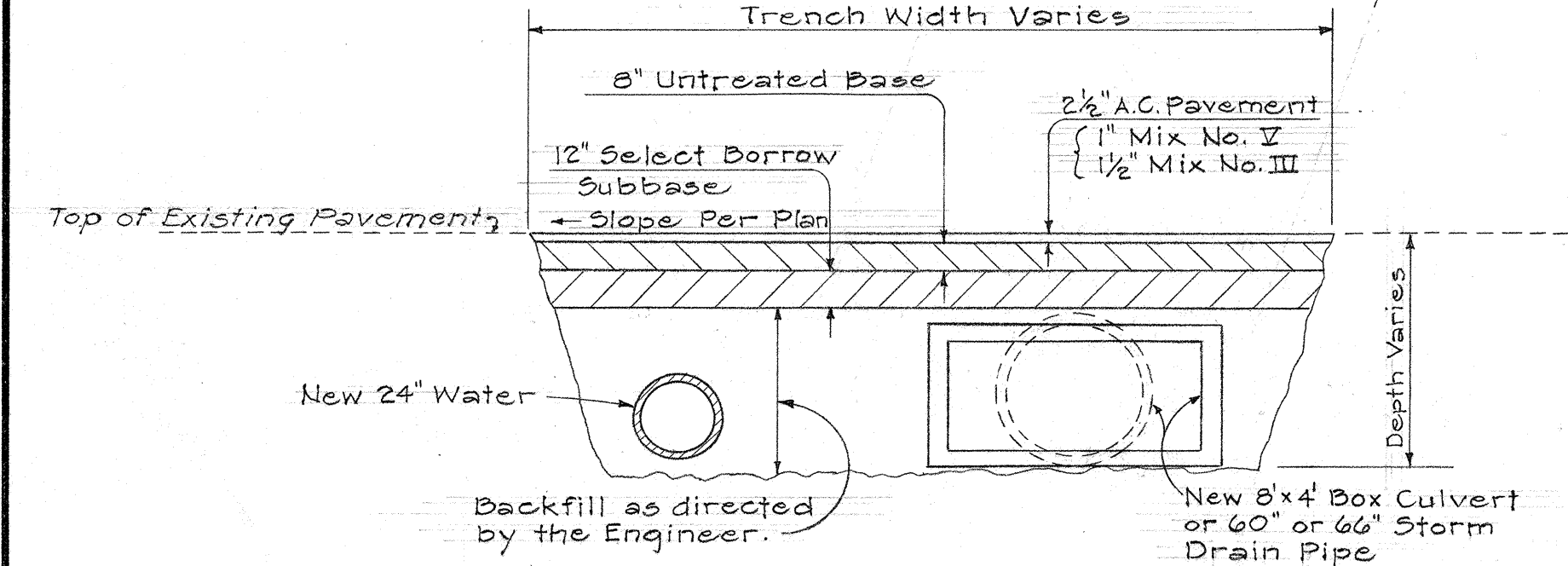
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(6) UNIT 2	1966	22	203



PLAN SHOWING TRAFFIC DETOURING DURING CONSTRUCTION OF DRAINAGE SYSTEM AND RELOCATION OF 24" WATER MAIN BETWEEN 21ST AVENUE AND WAIALAE MAJOR STORM DRAIN.

CONSTRUCTION STEPS "A"

1. See "1" and "4" of ROADWAY CONSTRUCTION-PHASE I" under Article 6.13, "Order of Work" in the "Amendment" section of Special Provisions.
2. Remove existing A.C. traffic roll in the median between 21st Avenue and Hunakai Street to provide two lanes each for two-way traffic. (Removal of A.C. Traffic Roll shall be considered incidental to "Roadway Exc.")
3. Construct drainage culverts and structures, and relocate 24" water main between 21st Avenue and Waialae Major Storm Drain.
4. Relocate underground utilities along north and south sides of Waialae Avenue between 21st Avenue and Waialae Major Storm Drain.
5. Restore pavement as soon as practicable.



TYPICAL DETAIL OF RESTORING EXISTING PAVEMENT AFTER 24" WATER, STORM DRAIN PIPE, AND BOX CULVERT INSTALLATION BETWEEN 21ST AVE. AND WAIALAE MAJOR STORM DRAIN

NOTE: The above restoration work shall be paid for under the respective contract items.
(Not Drawn To Scale.)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION STEPS "A"
PHASE I CONSTRUCTION

INTERSTATE HIGHWAY (LUNALILO FWY)
F.A.I. PROJ. NO I-HI-1(6) UNIT 2
SCALE: 1" = 20' NOV. 1965

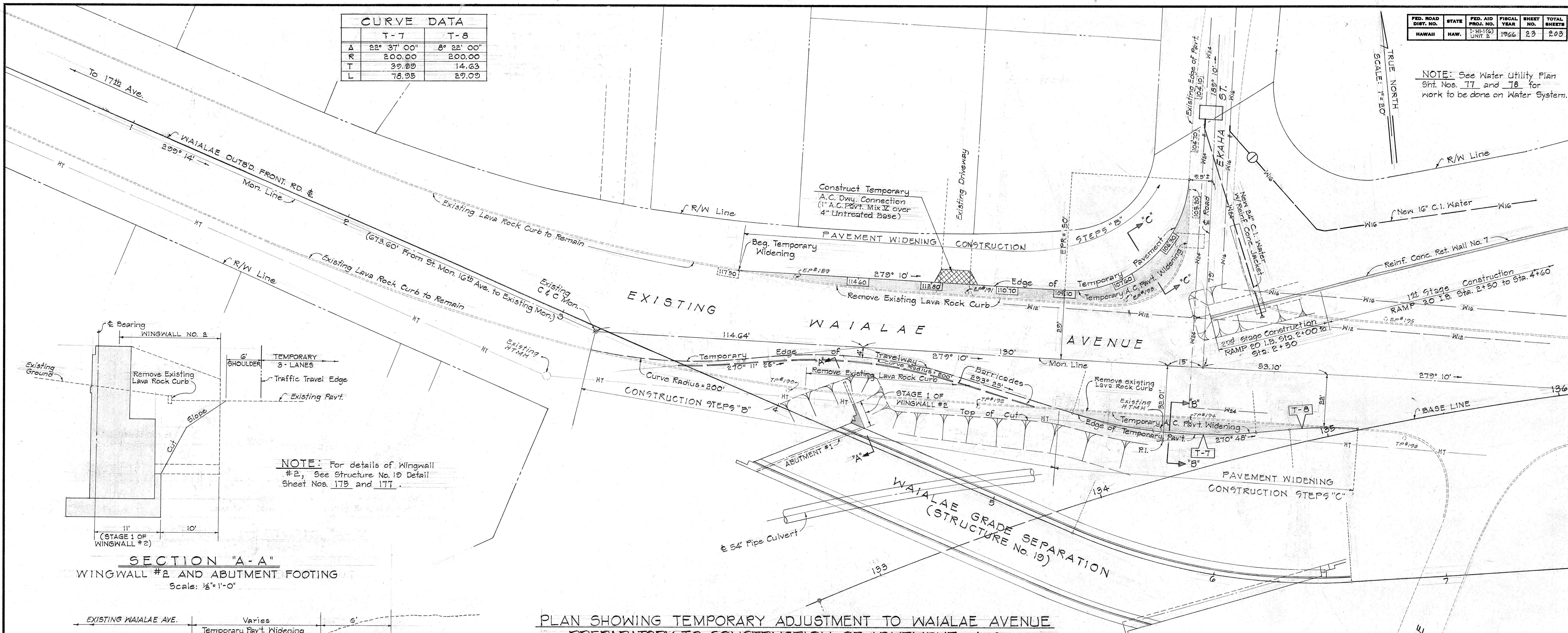
SHEET No. 1 OF 4 SHEETS

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

CURVE DATA			
	T-7	T-8	
Δ	22° 37' 00"	8° 25' 00"	
R	200.00	200.00	
T	39.89	14.63	
L	78.95	29.09	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-HI-1(6)	1966	23	203

NOTE: See Water Utility Plan Sht. Nos. 77 and 78 for work to be done on Water System.



SECTION "A-A"
WINGWALL #2 AND ABUTMENT FOOTING
Scale: 1/4" = 1'-0"

PLAN SHOWING TEMPORARY ADJUSTMENT TO WAIALAE AVENUE
PREPARATORY TO CONSTRUCTION OF ABUTMENT #1 &
STAGE 1 OF WINGWALL #2 OF STRUCTURE NO. 19 &
STAGE 2 PORTION OF RETAINING WALL NO. 7
(SEE "1" AND "2" OF "ROADWAY, CONSTRUCTION - PHASE I," AND "1" AND "2" OF "STRUCTURES, CONSTRUCTION - PHASE I," UNDER ARTICLE 8.13, "ORDER OF WORK" IN THE "AMENDMENT" SECTION OF SPECIAL PROVISIONS.)

CONSTRUCTION STEPS "B"

(STEPS INVOLVED IN CONSTRUCTION OF ABUTMENT #1 AND STAGE 1 OF WING WALL #2 OF STRUCTURE NO. 19.)

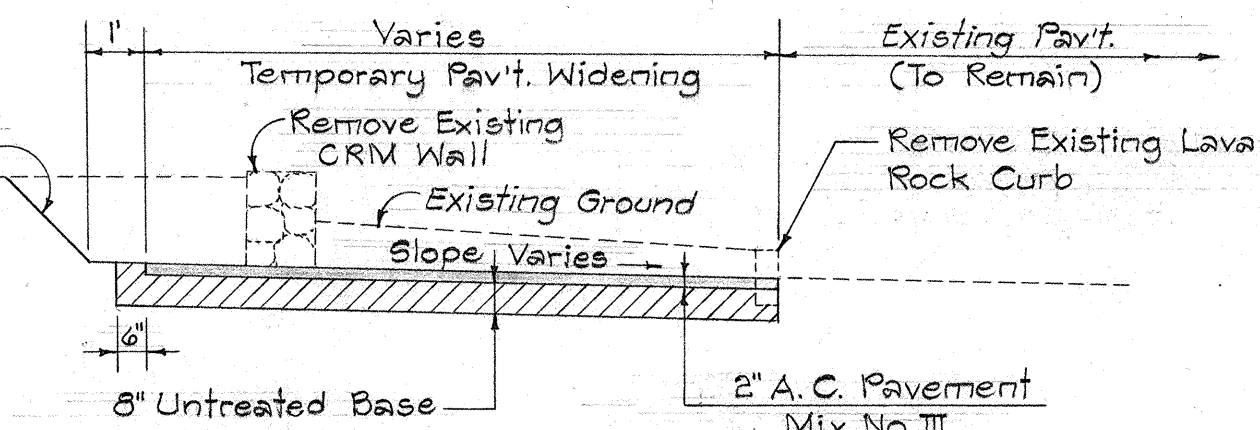
1. Pave to widen temporarily a portion on north side of Waialae Ave. as shown.
2. Excavate for, and construct Abutment #1 and Stage 1 portion only of Wing Wall #2.
3. Install barricades as shown.
4. Backfill excavated area around constructed portion of Wing Wall #2 and Abutment #1 to original grade.
5. Repave backfilled area to original line and grade to permit traffic on it.
6. Removal of existing lava rock curb shall be considered incidental to the item of "Roadway Exc."

CONSTRUCTION STEPS "C"

(STEPS INVOLVED IN CONSTRUCTION OF 2ND STAGE PORTION OF RETAINING WALL NO. 7 - RAMP 20 I.B. STA. 2+00 TO STA. 2+50)

1. Pave to widen temporarily a portion on south side of Waialae Avenue across from Ekaha Street as shown.
2. Prior to construction of this portion of the wall, cut off and remove as much of the existing 12" and 16" water mains as are necessary for the wall construction; install new 24" water main on Ekaha Street from new Type "A" M.H. to a point just past the retaining wall footing; and plug the end of the water main for later extension across the Freeway. Shore up the existing 24" water main wherever necessary or as ordered by the Engineer. Shoring work shall be considered as incidental to the item of new 24" water main and no separate payment will be made therefor.
3. Construct 2nd Stage portion of the wall.
4. After completion of this portion of the wall, backfill the excavation to original grade.
5. Removal of existing lava rock curb shall be considered incidental to the item of "Roadway Exc."

TYPICAL SECTION "B-B"
Scale: 1/4" = 1'-0"



TYPICAL SECTION "C-C"
Scale: 1/4" = 1'-0"

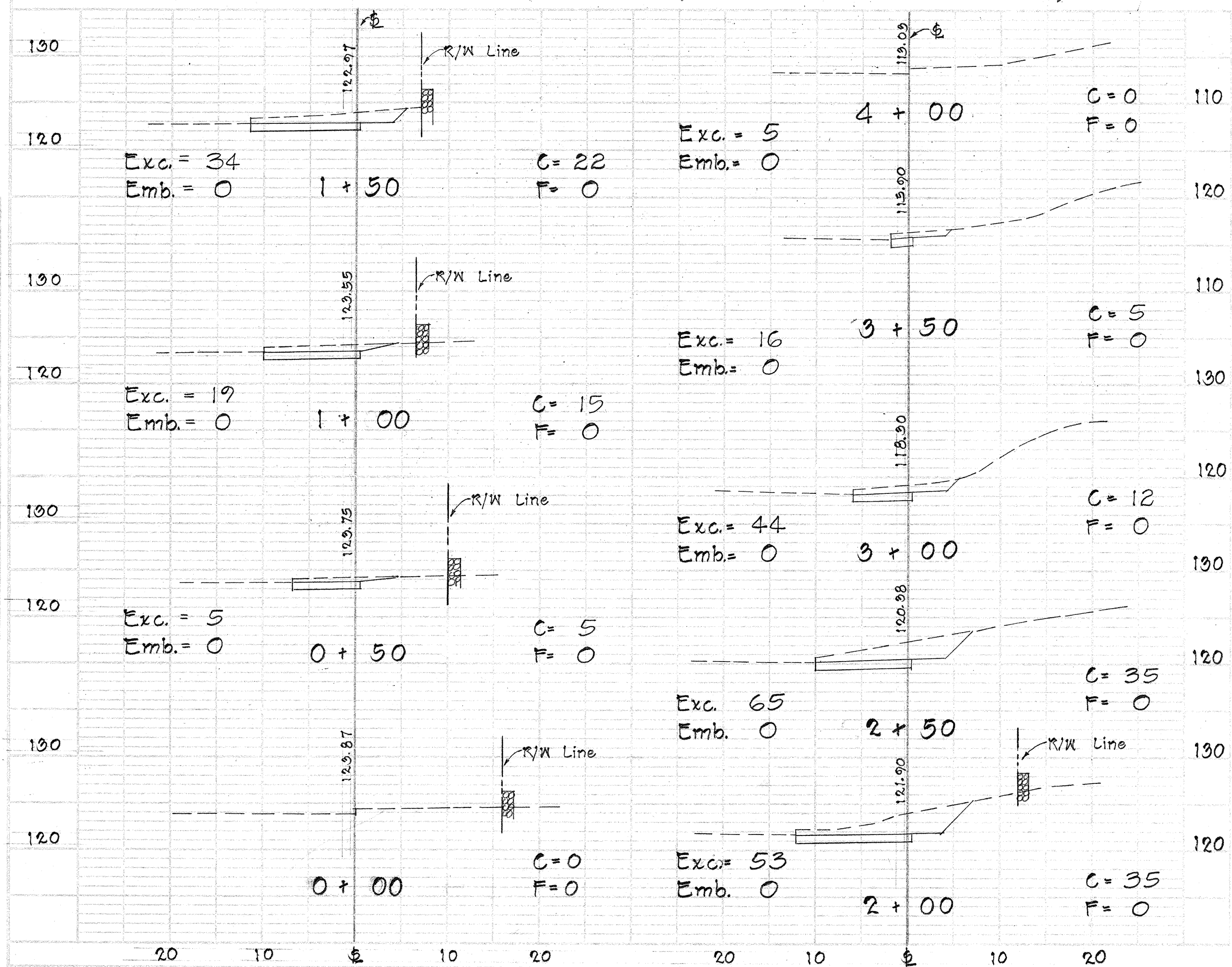
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION STEPS "B" AND "C"
PHASE I CONSTRUCTION

INTERSTATE HIGHWAY (LUNALILO FWY.)
FAI PROJ. NO. I-HI-1(6) UNIT 2

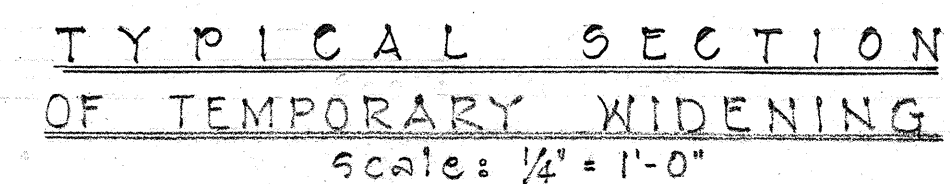
Scale: As Noted Oct. 1965
SHEET No. 2 OF 4 SHEETS

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



* See NOTE "C" at end of "TRAFFIC - PHASE I" under Article 8.13, "Order of Work" in the "Amendment" section of Special Provisions.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	I-HI-1(6) UNIT 2	1966	24	203



SHEET No. 3 OF 4 SHEETS

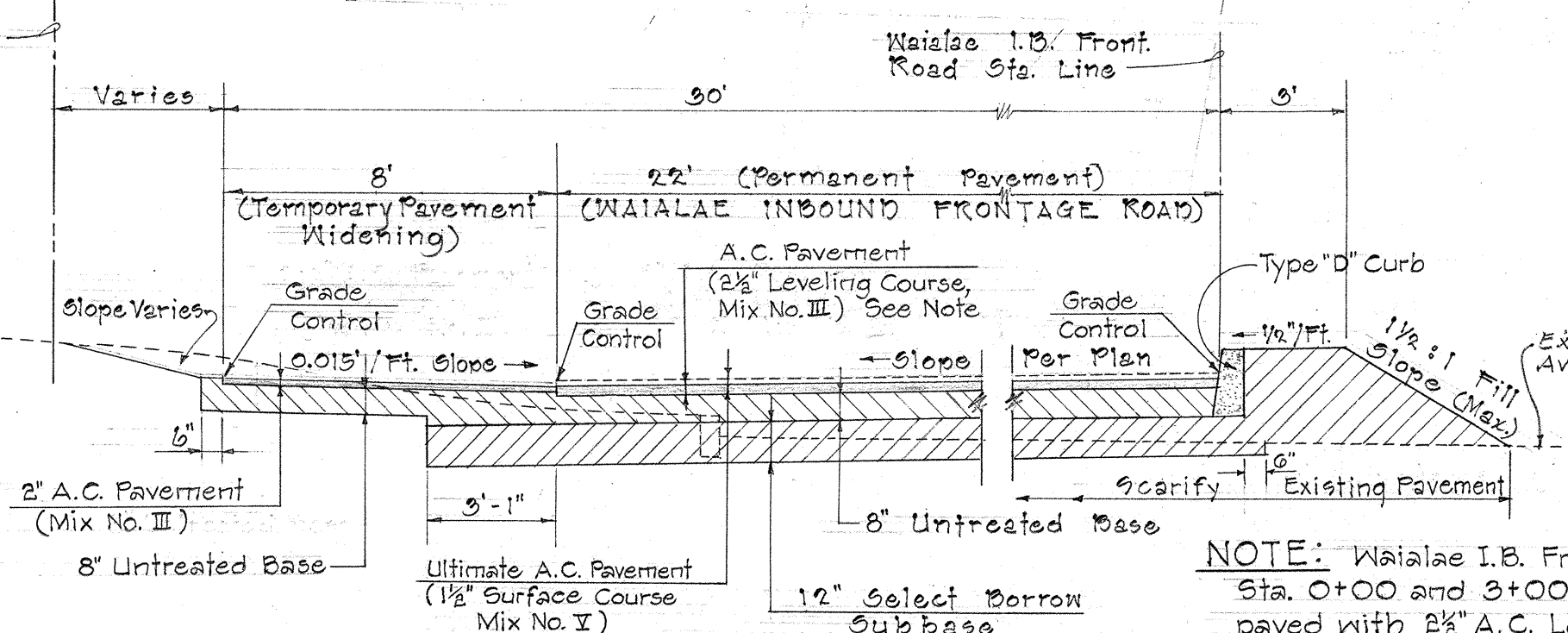
CURVE DATA			
	W-1	T-3	T-4
Δ	30° 52' 40.26"	28° 00' 00"	27° 04' 36"
R	770.00	100.00	140.00
T	212.66	24.23	33.72
L	414.97	48.87	66.17

LEGEND
 122.78 = EXISTING GRADES
 122.66 = ULTIMATE FINISHED PAVEMENT GRADES
 121.50 = NEW TEMPORARY FIN. PAVEMENT GRADES

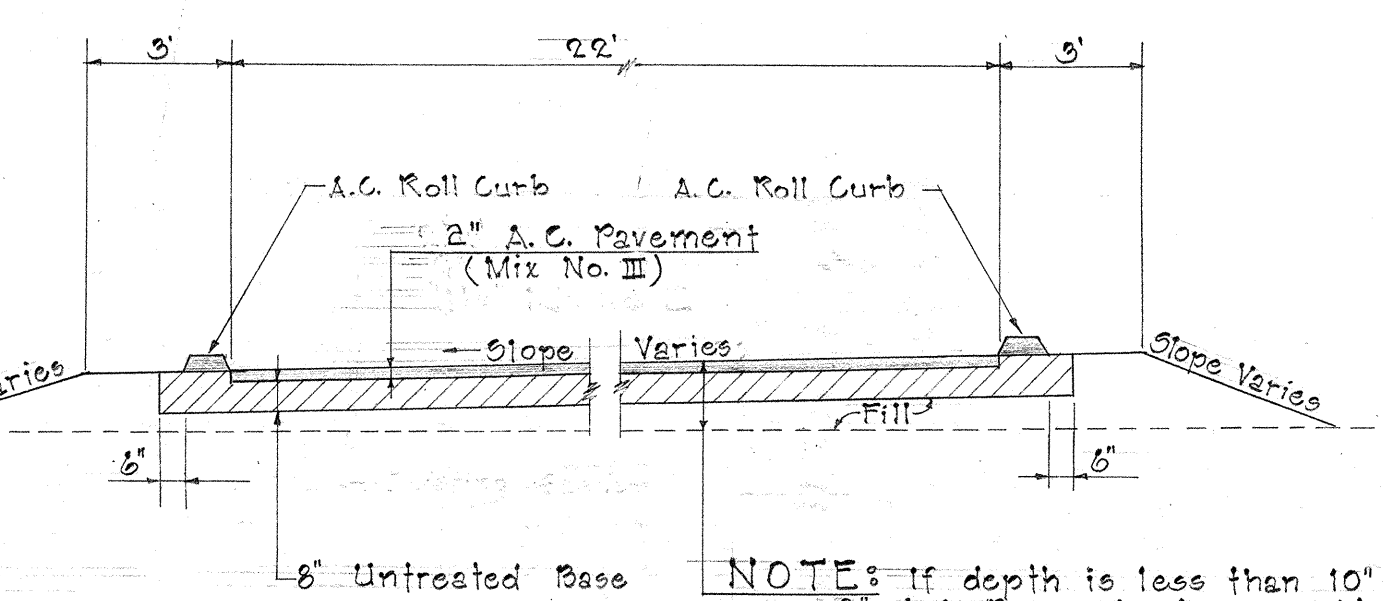
CURVE DATA			
	T-5	T-6	T-9
Δ	15° 03' 31"	10° 06' 20"	16° 38' 50"
R	102.10	81.23	100.00
T	13.49	13.67	14.63
L	26.83	27.09	9.05

FED. ROAD DIST. NO.	STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1966	25	203

PLAN SHOWING STEPS INVOLVED IN CONSTRUCTION OF WAIALAE INBD. FRONTAGE ROAD BETWEEN 17TH AVE. AND EKAHA ST. AND WAIALAE OUTBD. FRONTAGE ROAD BETWEEN 17TH AVE. AND STRUCTURE NO. 19.
 (SEE STEPS LISTED ON PLAN SHEET NO. 24)



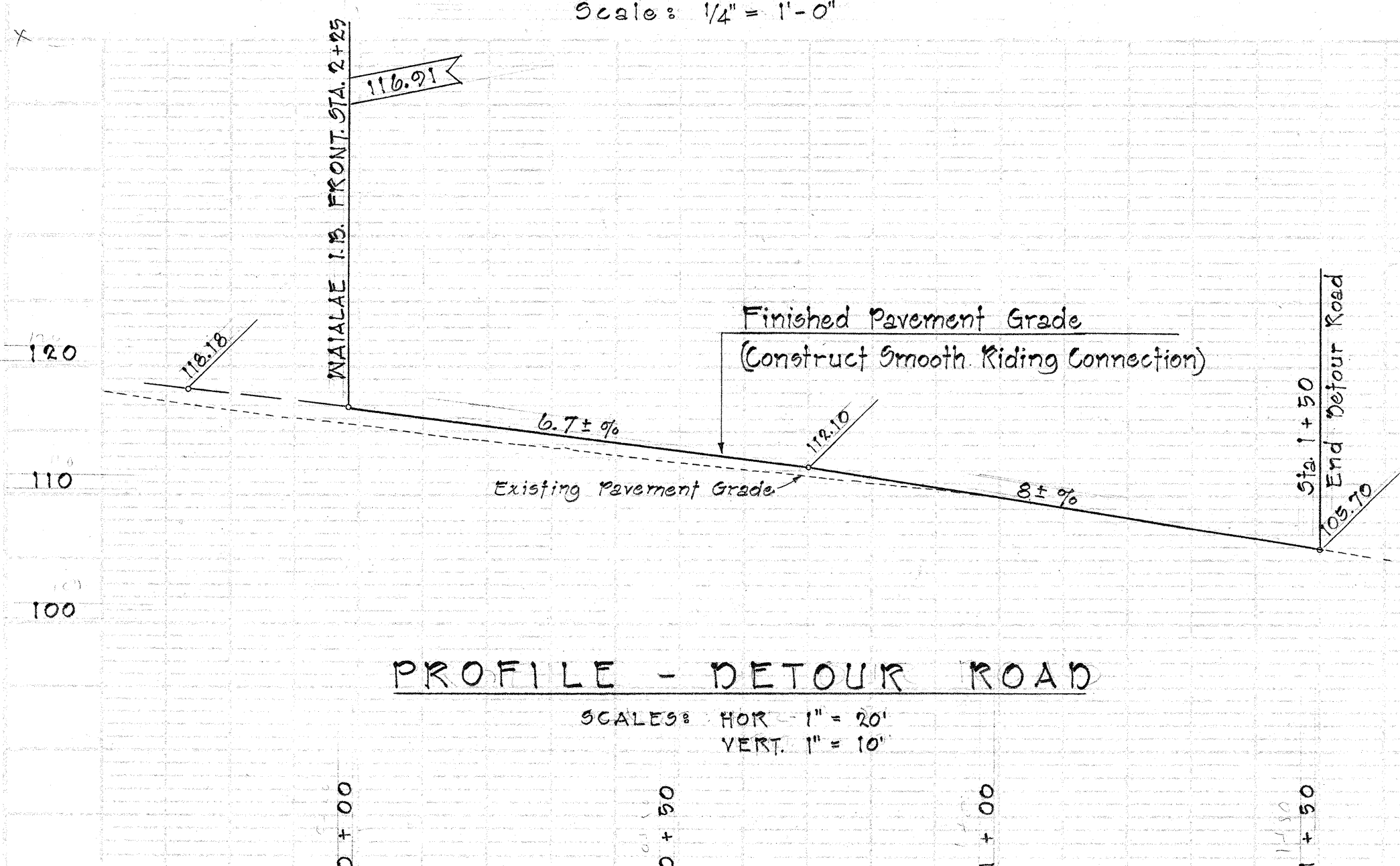
NOTE: Waialae I.B. Front Rd. between Sta. 0+00 and 3+00 shall be temporarily paved with 2 1/2" A.C. Leveling Course only. See No. 3 of Construction Steps "D".



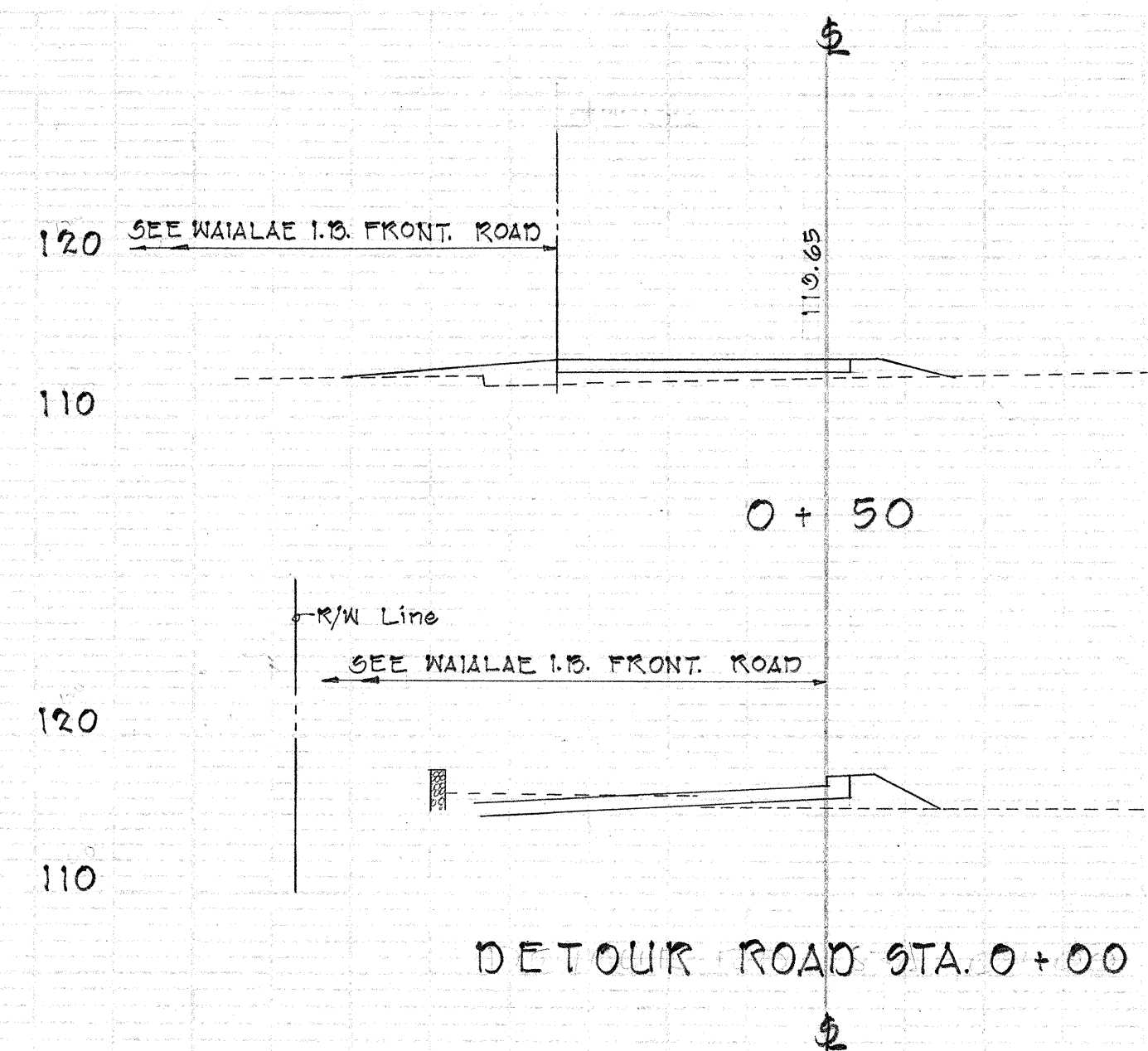
NOTE: If depth is less than 10" use 2" A.C. Pavement plus variable thicknesses of Untreated Base

TYPICAL SECTION - WAIALAE I.B. FRONTAGE ROAD
 Scale: 1/4" = 1'-0"

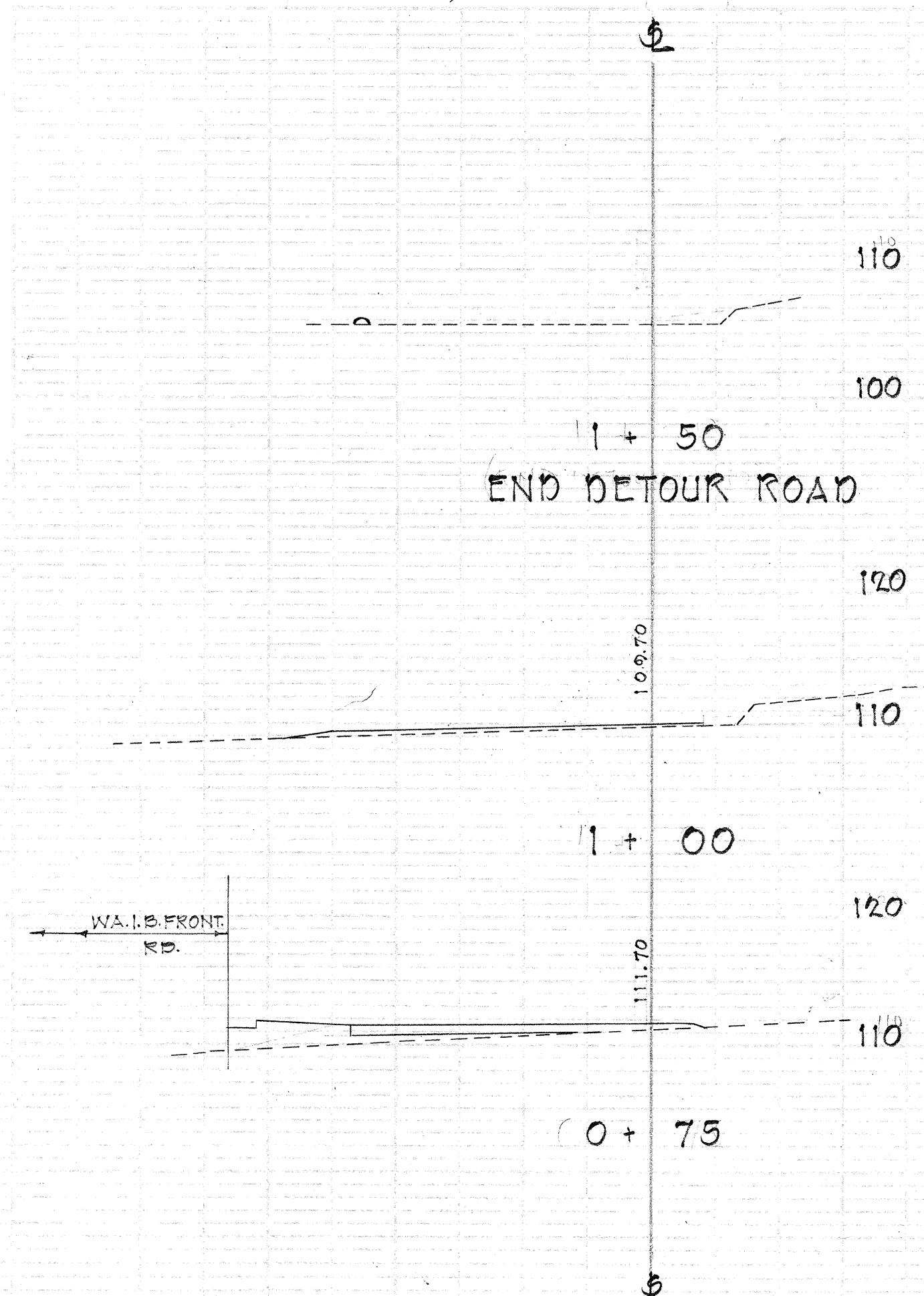
TYPICAL SECTION - DETOUR ROAD
 Scale: 1/4" = 1'-0"



PROFILE - DETOUR ROAD
 SCALES: HOR. 1" = 20' VERT. 1" = 10'



DETOUR ROAD STA. 0+00



END DETOUR ROAD

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
CONSTRUCTION STEPS "D"
 PHASE I CONSTRUCTION
 INTERSTATE HIGHWAY (LUNALILO FWY.)
 F.A.I. PROJ. NO. I-HI-1(6) UNIT 2
 Scale: As Noted
 Oct. 1965
 SHEET No. 4 OF 4 SHEETS