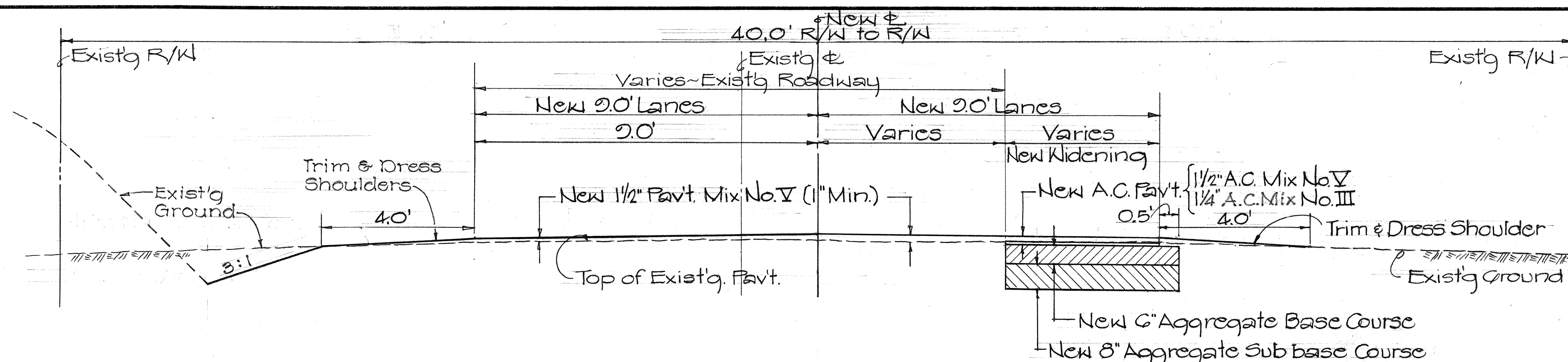
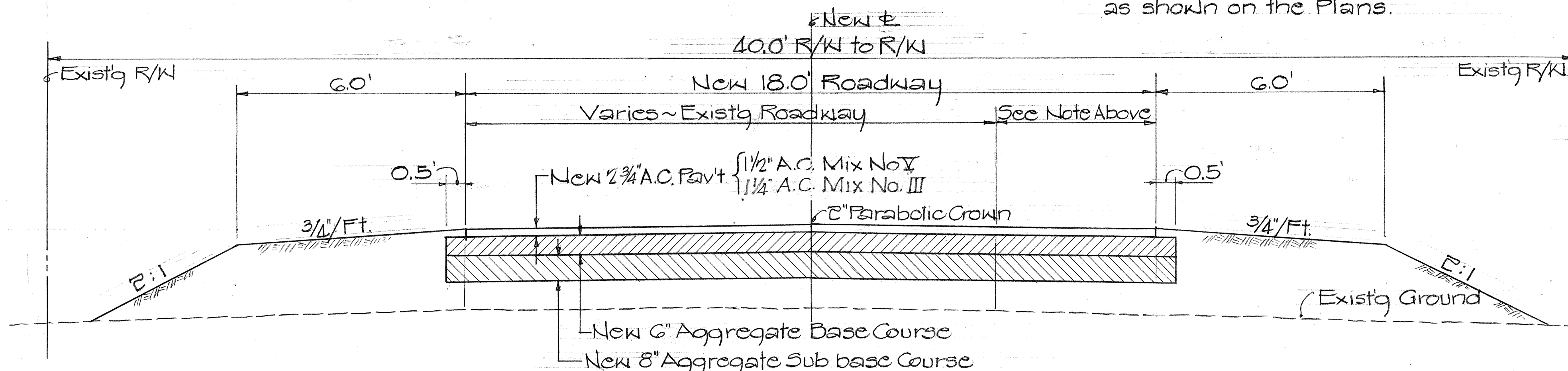


DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	580A-01-70	1970	2	24

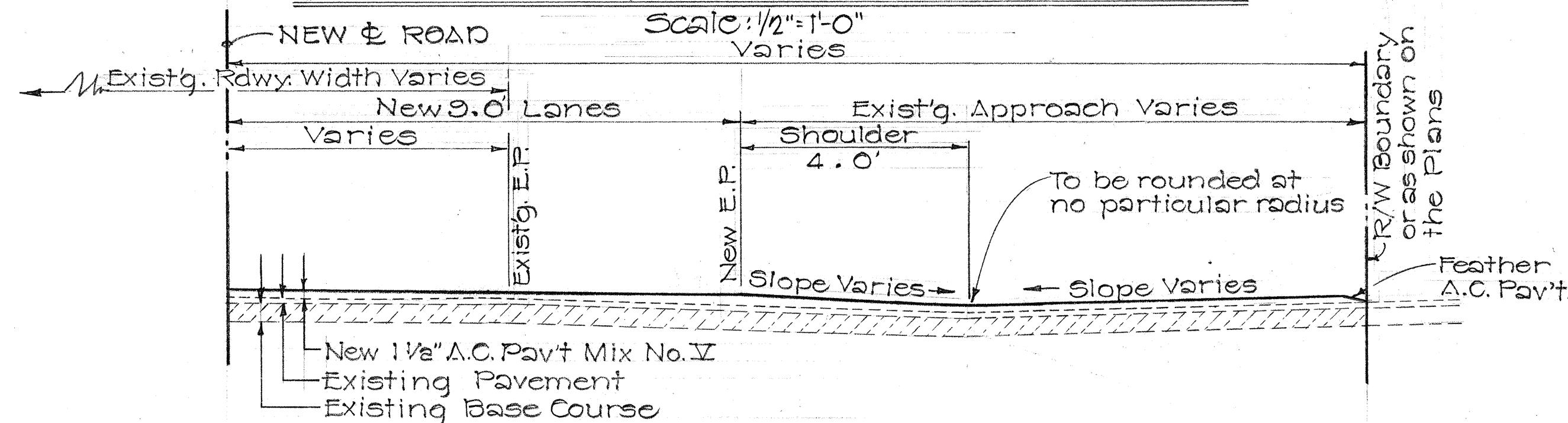


TYPICAL ROADWAY SECTION
Scale: 1/2" = 1'-0"

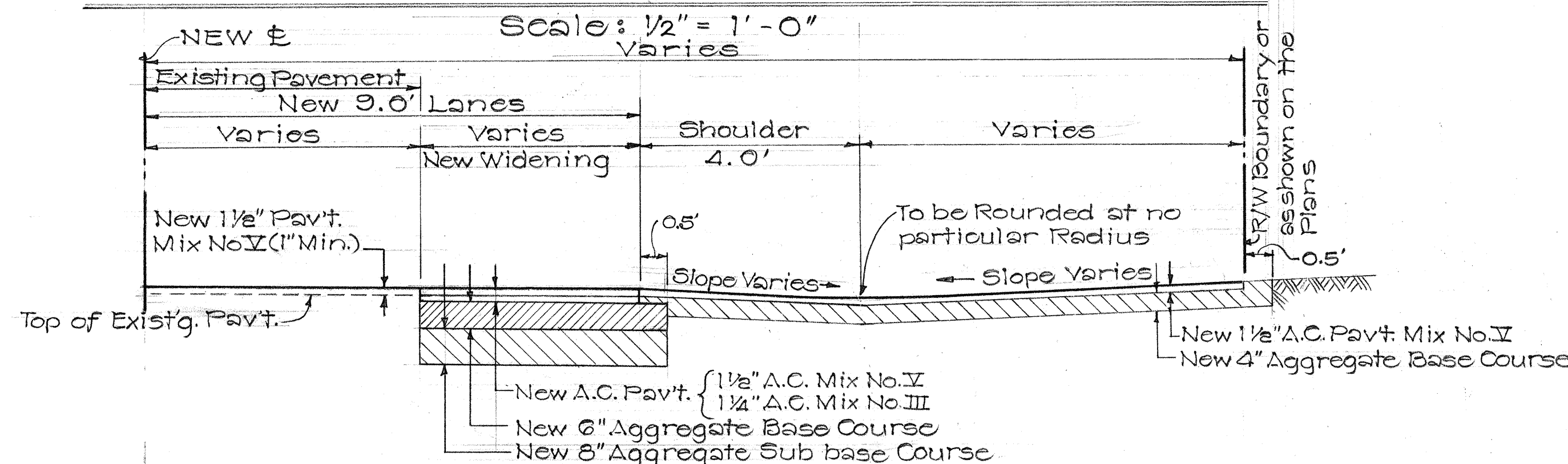
Note: Widening of Road may occur on either the left or right or both sides of the roadway as shown on the Plans.



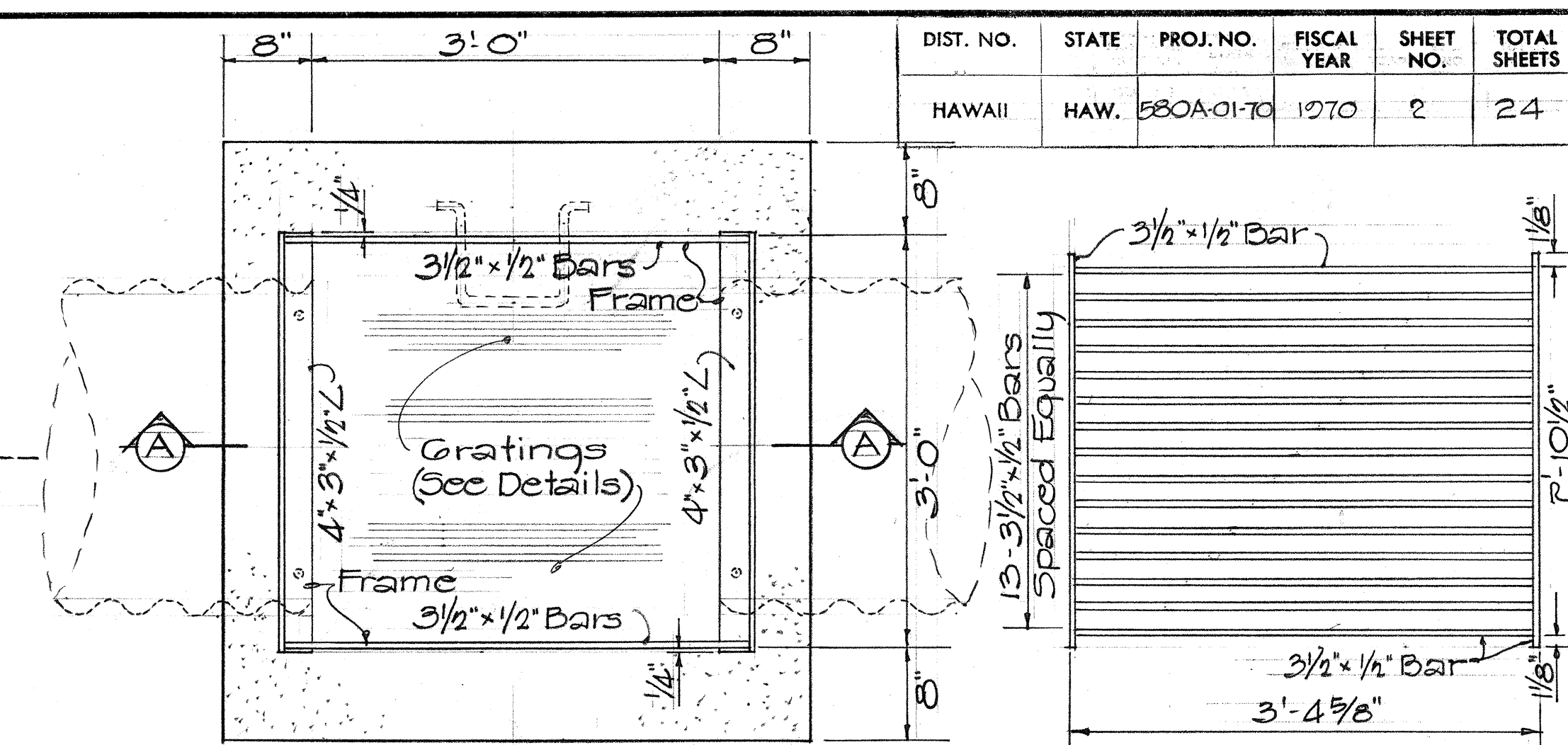
TYPICAL SECTION @ RAISED ROADWAY
STA. 42+00 TO 48+00 & STA. 94+00 TO 99+00
Scale: 1/2" = 1'-0"



TYPICAL SECTION OF RESURFACED APPROACHES
Scale: 1/2" = 1'-0"

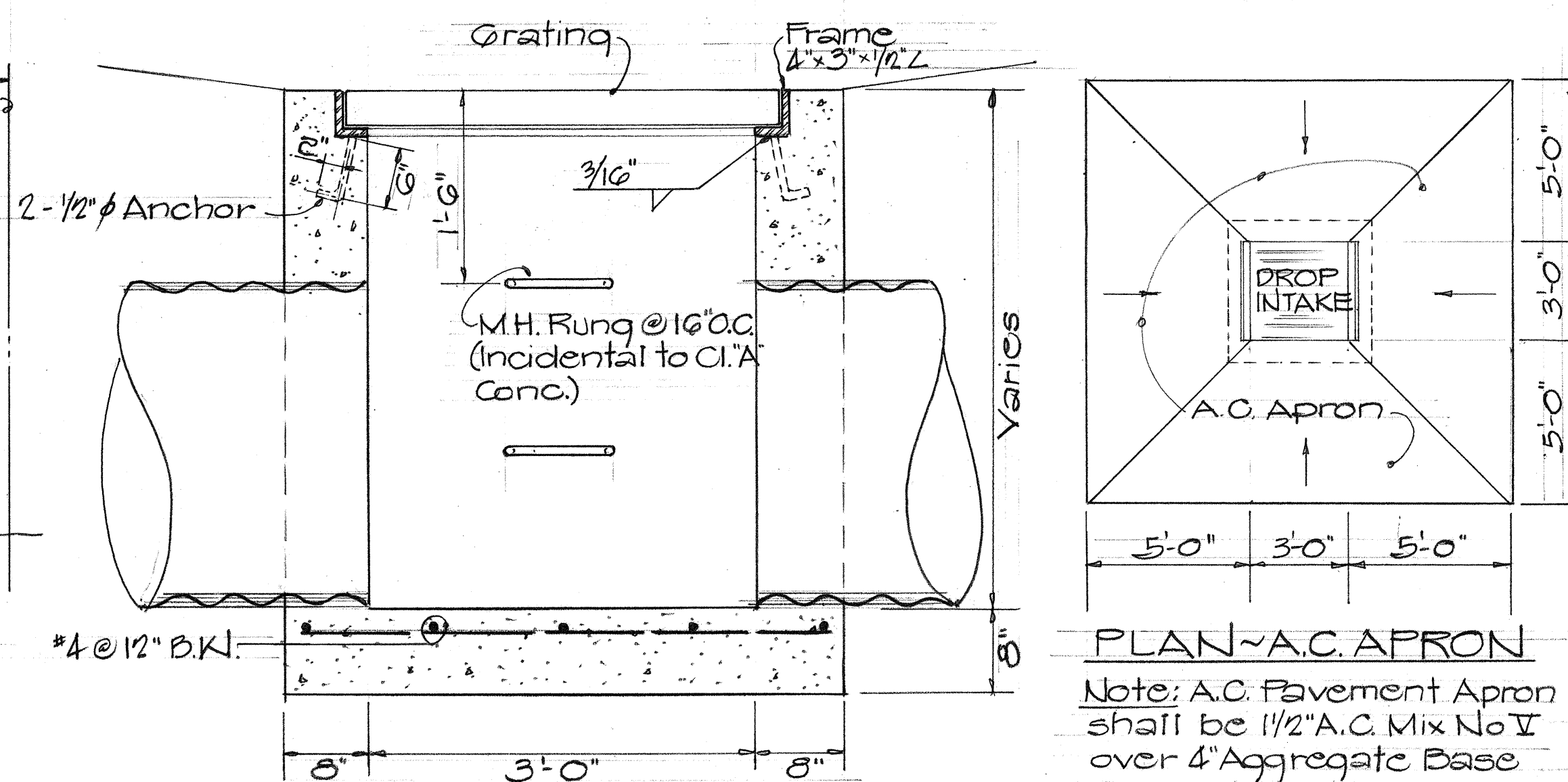


TYPICAL SECTION OF APPROACHES TO BE CONSTRUCTED
Scale: 1/2" = 1'-0"



PLAN

GRATING DETAIL



SECTION (A-A)

PLAN - A.C. APRON

Note: A.C. Pavement Apron shall be 1 1/2" A.C. Mix No. V over 4" Aggregate Base Course.

DETAIL - CONC. DROP INTAKE

GENERAL NOTES:

- Grates and Frames shall be hot dip galvanized after fabrication. See Specification.
- All weld 3/8" unless otherwise noted.
- The Frame & Grate detail shall conform to A.S.T.M. Designation Structural Steel A333, Grade D and the Standard Specification.
- Culverts shall leave or enter Drop Intake from any position and any direction indicated by Plans or ordered by the Engineer.
- Manhole rungs (16" O.C.) are required when depth of Manhole is greater than 4'-6". Only one rung (16" from the bottom) is required if depth is 4'-6" or less.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
KUAMOO ROAD
RESURFACING FROM POLIAHU
PARK TOWARD U.O.P.H. STATION
PROJ. No. 580A-01-70
Scale: As shown. May 1970
SHEET No. 1 OF 2 SHEETS

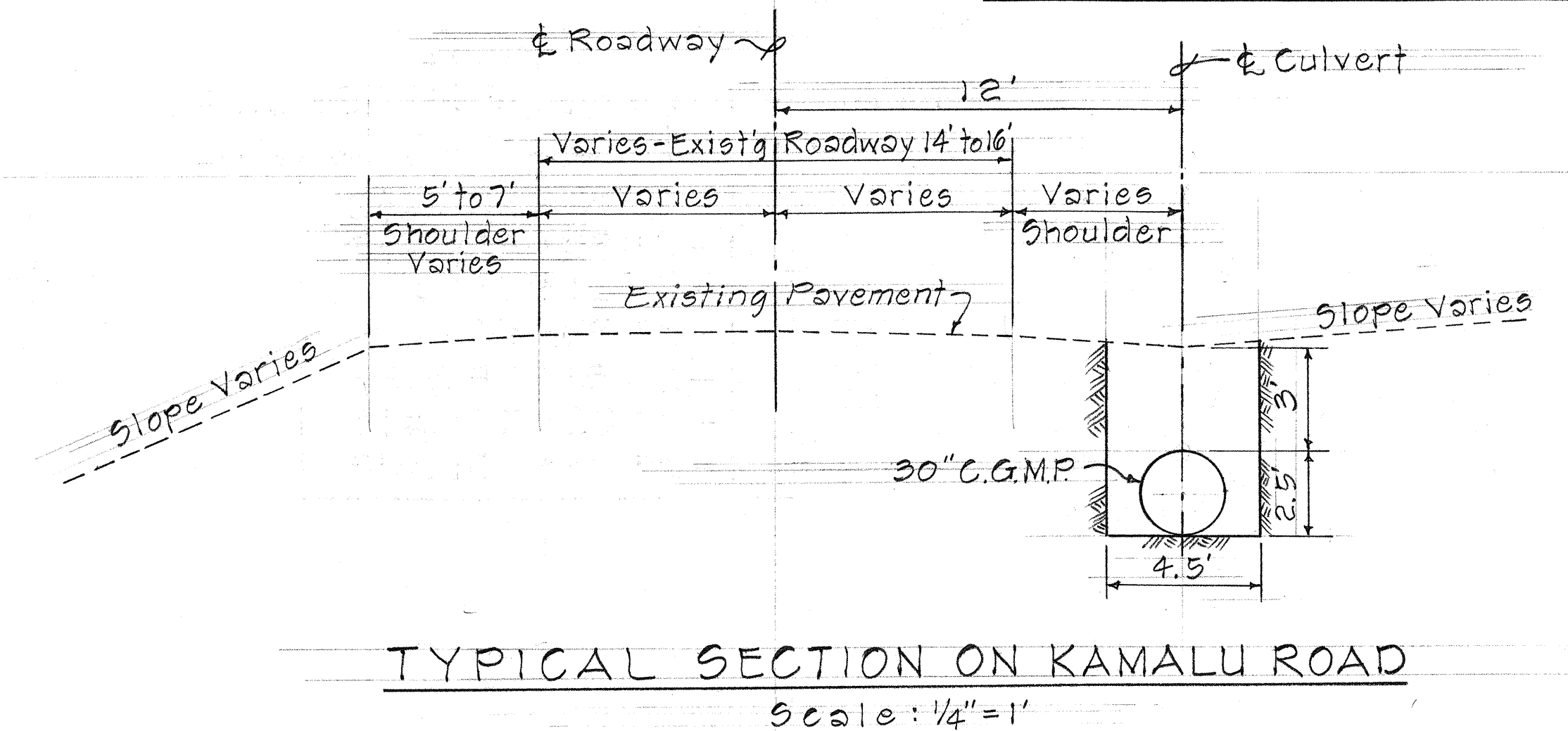
ORIGINAL PLAN	DATE
DRAWN BY	
DESIGNED BY	
NOTED BY	
CHECKED BY	
NO.	

GENERAL NOTES:

1. All azimuths are referred to "Nonou" Δ
2. All B.M.'s are referred to Mean Sea Level Datum
3. The Typical Sections shown are in general only, and is not intended to depict any specific location.
4. In general, existg paved sections adjacent to the edge of pavement and within the Highway Right-of-way, including approach roads, driveways, bus stops and other previously paved area requiring resurfacing, as determined by the Engineer shall be resurfaced. The minimum thickness shall be 1" of A.C. Mix No V
5. Patching of all cracks and holes in the existing pavement shall be done in accordance with Section 409, "Seal Coat" of the Standard Specification as amended and as directed by the Engineer. This work shall be measured or paid for directly but shall be considered incidental to Asphalt Concrete Pavement.
6. The Contractor shall keep at least one lane open to traffic during working hours and both lanes open to traffic during non-working hours.
7. The cost of trimming and dressing of shoulders shall be considered as incidental to various contract items of work. Trimming and dressing shoulders shall include but not be limited to clearing and grubbing, grading and compacting the shoulder areas as shown on the typical section.
8. Levelling of the existing pavement surface shall be done when directed by the Engineer. This work shall be paid under applicable items of work in the Contract.
9. Existing handhole frame and cover not at the required elevation in the travelled way shall be reset or adjusted as directed by the Engineer.
10. Existing handhole frame and cover not within the travelled way need not be adjusted unless otherwise shown on the plans. However these appurtenances shall not be cover over.
11. The work necessary in removing, salvaging, cleaning, hauling and stockpiling the existing guard rails and posts will not be measured or paid for directly but shall be considered incidental to the item "Guard Rail, Type 3, Single w/Steel Posts."
12. Prior to raising the roadway the existing wearing surface shall be scarified and recompacted.
13. The work necessary to remove the existing fenceline shall be considered to be incidental to the item "Standard Wire Fence with Wood Posts."

SUMMARY CONSTRUCTION OF APPROACHES

Sta.	Width	E/P Radius	Rdway Exc.	A.C. Area.	B.C. Area.
0+25 Rt.	10'	10'	3 C.Y.	175 Y.	125 Y.
14+00 Rt.	10'	10'	3 C.Y.	175 Y.	125 Y.
24+50 Lt.	10'	10'	3 C.Y.	175 Y.	125 Y.
32+05 Rt.	14'	25'	6 C.Y.	525 Y.	565 Y.
41+00 Lt.	10'	10'	3 C.Y.	175 Y.	125 Y.
52+05 Rt.	10'	10'	3 C.Y.	175 Y.	125 Y.
60+75 Lt.	10'	10'	3 C.Y.	175 Y.	125 Y.
75+30 Lt.	10'	10'	3 C.Y.	175 Y.	125 Y.
77+00 Lt.	10'	10'	3 C.Y.	175 Y.	125 Y.
79+05 Lt.	10'	10'	3 C.Y.	175 Y.	125 Y.
81+00 Lt.	10'	10'	3 C.Y.	175 Y.	125 Y.
117+55 Rt.	10'	10'	3 C.Y.	175 Y.	125 Y.
149+00 Rt.	10'	10'	3 C.Y.	175 Y.	125 Y.
163+30 Rt.	10'	10'	3 C.Y.	175 Y.	125 Y.



TYPICAL SECTION ON KAMALU ROAD

Scale: 1/4" = 1'

SUMMARY RESURFACING OF APPROACHES

Sta.	Description	Pav't Area
12+70 Rt.	Driveway	14 S.Y.
13+35 Rt.	Driveway	13 S.Y.
32+40 Lt.	Driveway	22 S.Y.
49+75 Rt.	Driveway	25 S.Y.
70+40 Rt.	Driveway	25 S.Y.
72+20 Rt.	Driveway	25 S.Y.
75+75 Rt.	To Wailua Haven	50 S.Y.
78+00 Rt.	Driveway	15 S.Y.
81+65 Rt.	Driveway	15 S.Y.
83+25 Rt.	Driveway	15 S.Y.
86+25 Lt.	Opachaa Road	85 S.Y.
86+80 Rt.	Driveway	28 S.Y.
89+40 Rt.	Driveway	18 S.Y.
93+60 Lt.	Driveway	40 S.Y.
103+05 Lt.	Driveway	41 S.Y.
105+70 Rt.	Driveway	14 S.Y.
107+10 Rt.	Driveway	17 S.Y.
107+50 Lt.	Kamalu Rd.	107 S.Y.
109+75 Rt.	Driveway	32 S.Y.
110+25 Rt.	Driveway	20 S.Y.
110+45 Lt.	Driveway	22 S.Y.

111+30 Rt.	Driveway	30 S.Y.
113+00 Rt.	Driveway	28 S.Y.
113+30 Rt.	Driveway	15 S.Y.
119+10 Rt.	Driveway	13 S.Y.
124+05 Rt.	Driveway	16 S.Y.
127+80 Lt.	Driveway	31 S.Y.
128+00 Rt.	Driveway	43 S.Y.
133+45 Rt.	Driveway	55 S.Y.
134+50 Lt.	Driveway	34 S.Y.
138+85 Rt.	Driveway	73 S.Y.
142+70 Rt.	Driveway	21 S.Y.
143+35 Rt.	Driveway	20 S.Y.
145+35 Rt.	Driveway	16 S.Y.
146+25 Lt.	Driveway	38 S.Y.
149+75 Rt.	Driveway	36 S.Y.
151+25 Rt.	Driveway	14 S.Y.
151+65 Rt.	Driveway	8 S.Y.
152+25 Rt.	Driveway	17 S.Y.
153+00 Rt.	Driveway	13 S.Y.
156+70 Rt.	Driveway	16 S.Y.

SUMMARY ADJUSTING 6-INCH CAST IRON FRAME AND COVER

Sta. 44+57 Lt. - 1
Sta. 48+28 Lt. - 1
Sta. 52+12 Lt. - 1
Sta. 75+05 Lt. - 1
Sta. 86+13 Lt. - 1
Sta. 86+20 Lt. - 1
Sta. 107+32 Rt. - 1

STATE OF HAWAII
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KUAMOO ROAD
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PARK TOWARD U. OF H. STATION
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