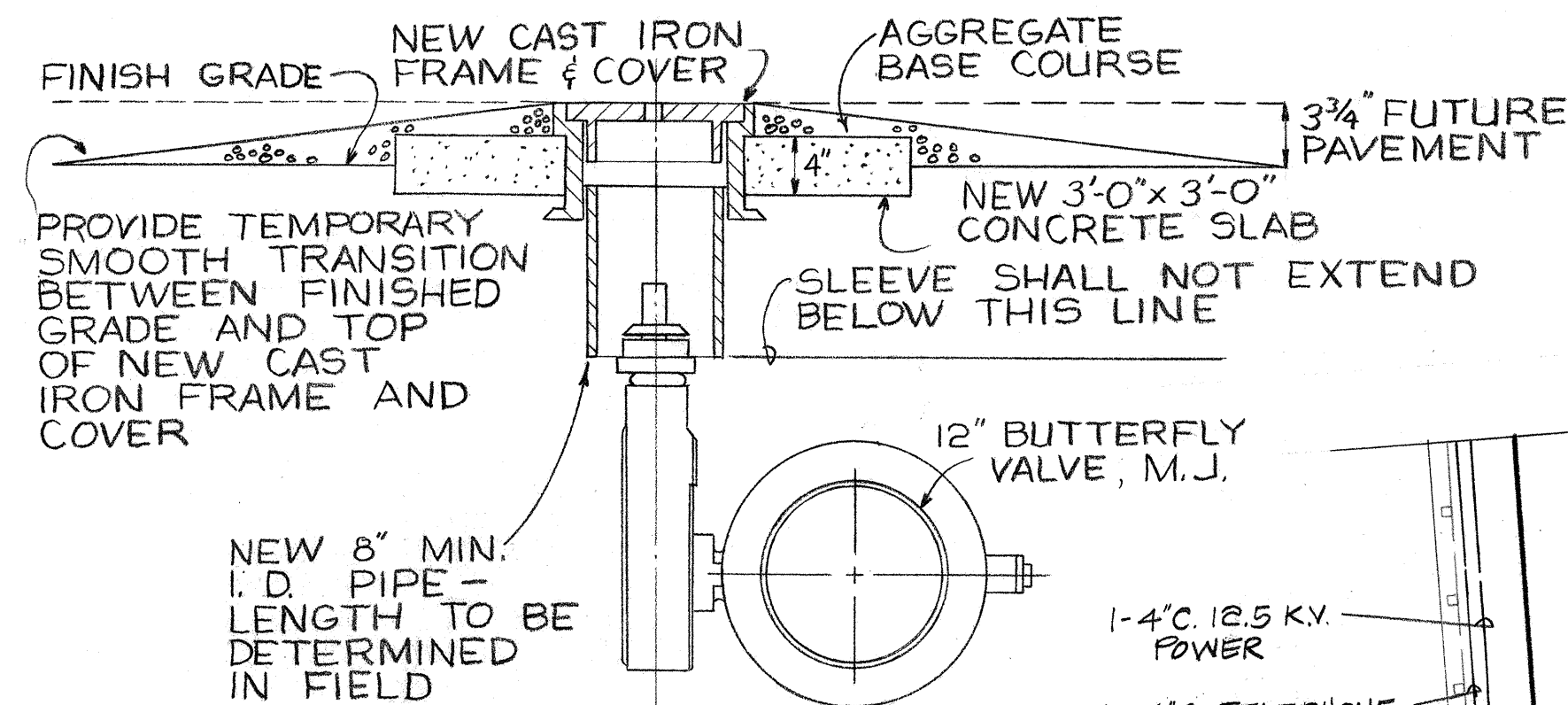
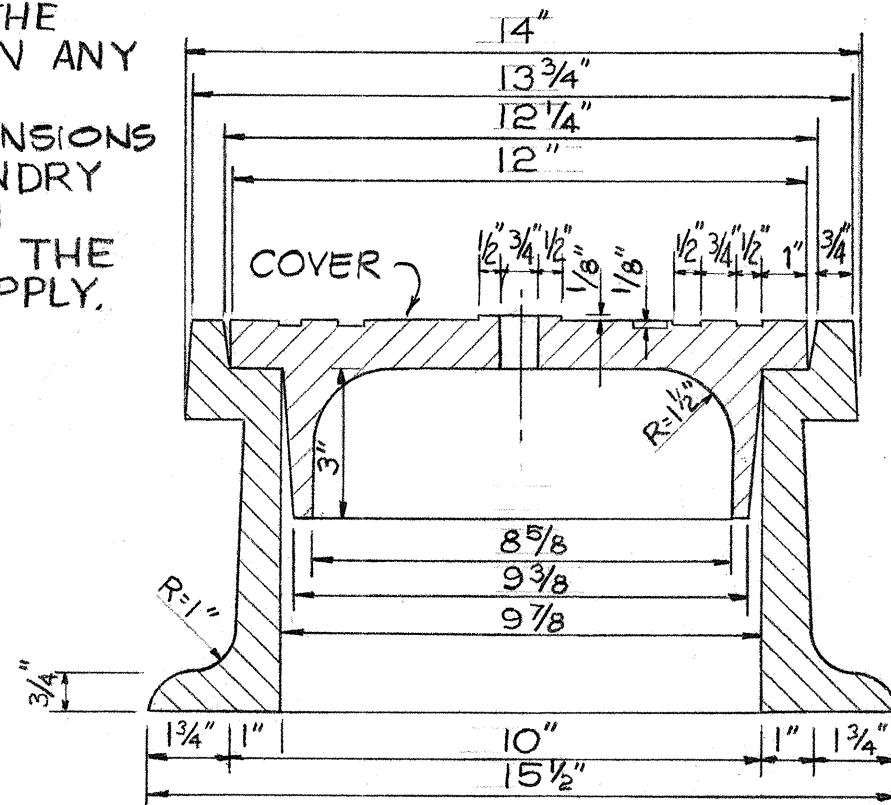


STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAW.	198C-01-71	1972	74	118

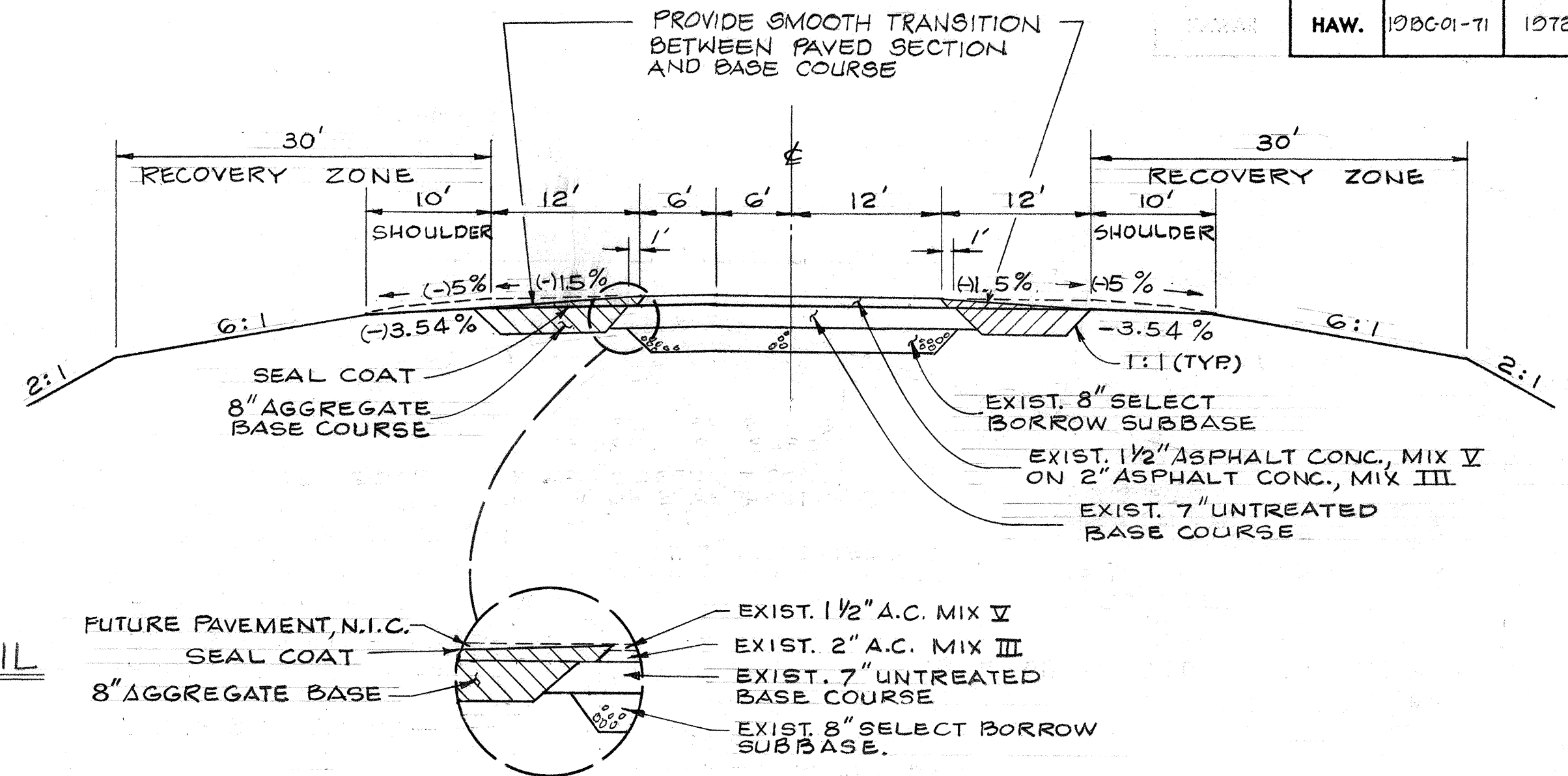


BUTTERFLY VALVE BOX DETAIL
NOT TO SCALE

NOTE:
ALL CASTINGS SHALL BE MADE ACCURATELY TO THE DIMENSIONS SHOWN. SEAT AND COVER SHALL BE GROUND WHERE NECESSARY TO SECURE FLAT AND TRUE SURFACES. THE COVER SHALL NOT RATTLE IN ANY POSITION.
MINOR CHANGES IN DIMENSIONS MAY BE MADE TO SUIT FOUNDRY CONDITIONS, PROVIDED SUCH CHANGES ARE APPROVED BY THE DEPARTMENT OF WATER SUPPLY.

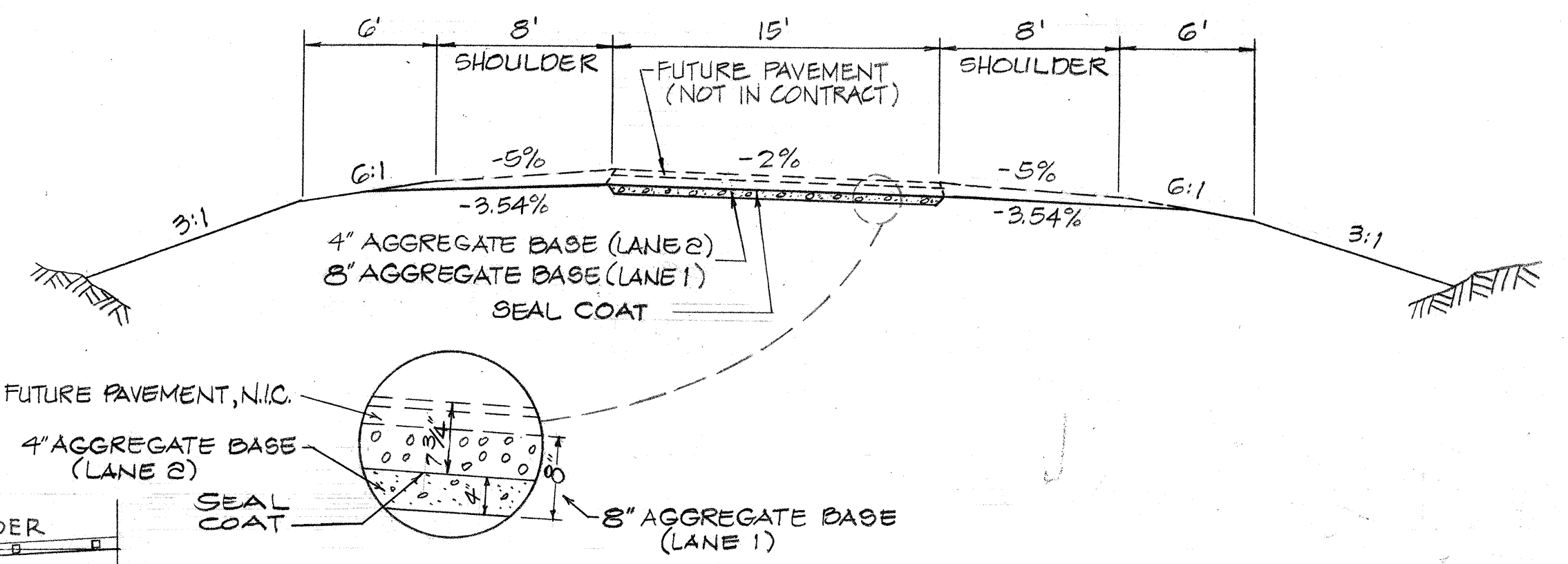


CAST IRON FRAME DETAIL
NOT TO SCALE

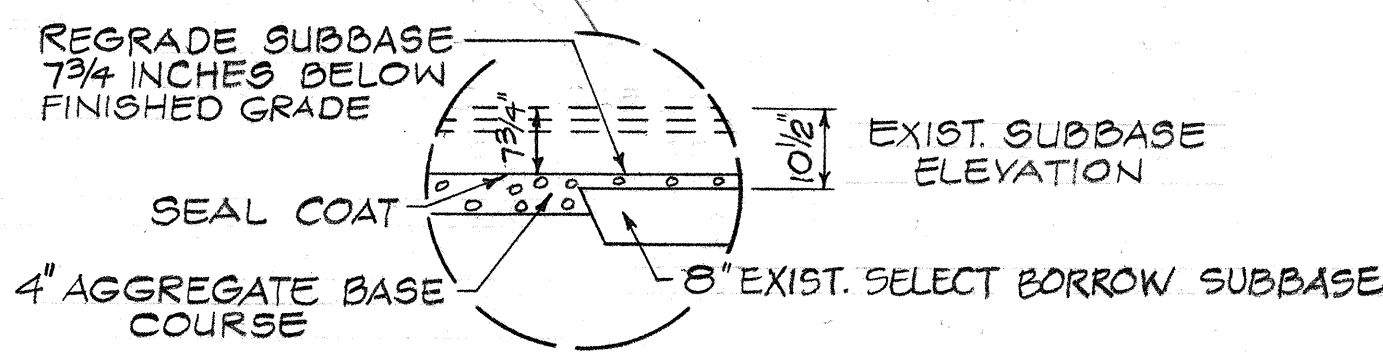


TYPICAL PAVED SECTION OF ROADWAY FOR ACCELERATION & DECELERATION LANES

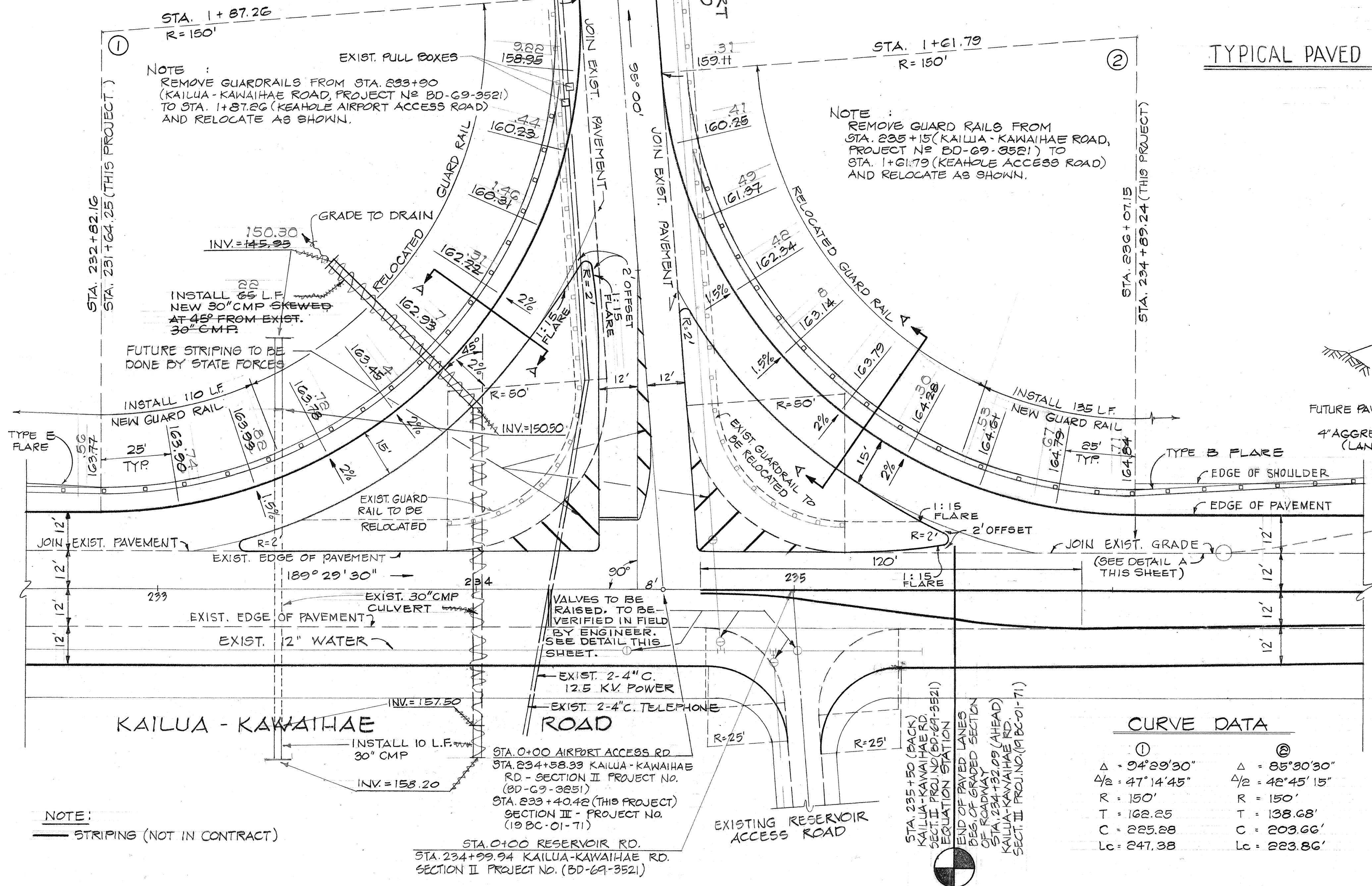
KAILUA-KAWAIHAE ROAD
NOT TO SCALE



SECTION A-A
NOT TO SCALE

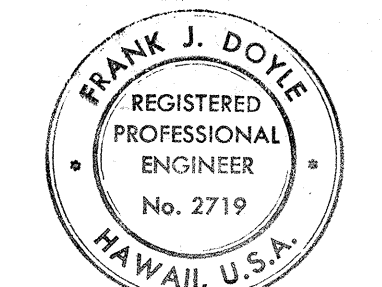


DETAIL A
NOT TO SCALE



CURVE DATA

①	②
$\Delta = 94^{\circ}29'30''$	$\Delta = 85^{\circ}30'30''$
$\frac{\Delta}{2} = 47^{\circ}14'45''$	$\frac{\Delta}{2} = 42^{\circ}45'15''$
$R = 150'$	$R = 150'$
$T = 162.25$	$T = 138.68$
$C = 225.28$	$C = 203.66'$
$Lc = 247.38$	$Lc = 223.86'$



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Frank J. Doyle
SIGNATURE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

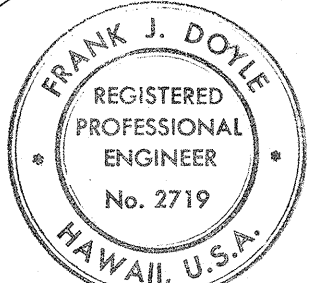
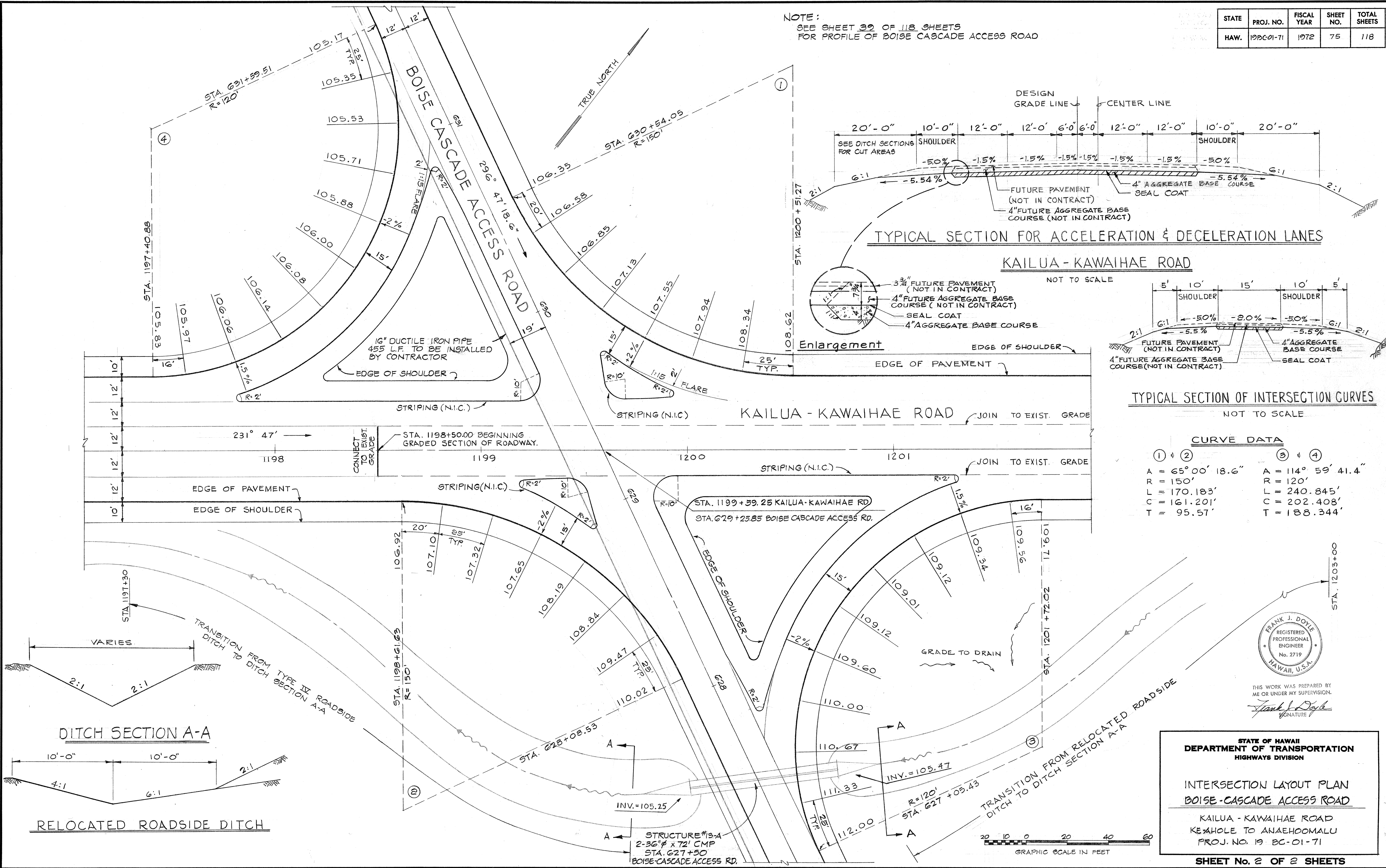
INTERSECTION LAYOUT PLAN
KEAHOLE AIRPORT ACCESS ROAD

KAILUA - KAWAIHAE ROAD
KEAHOLE TO ANAEHOOMALU
PROJ. NO. 19 8C-01-71

SHEET No. 1 OF 2 SHEETS

STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAW.	1980-71	1972	75	118

NOTE:
SEE SHEET 32 OF 118 SHEETS
FOR PROFILE OF BOISE CASCADE ACCESS ROAD



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ME OR UNDER MY SUPERVISION.
Frank J. Doyle
SIGNATURE

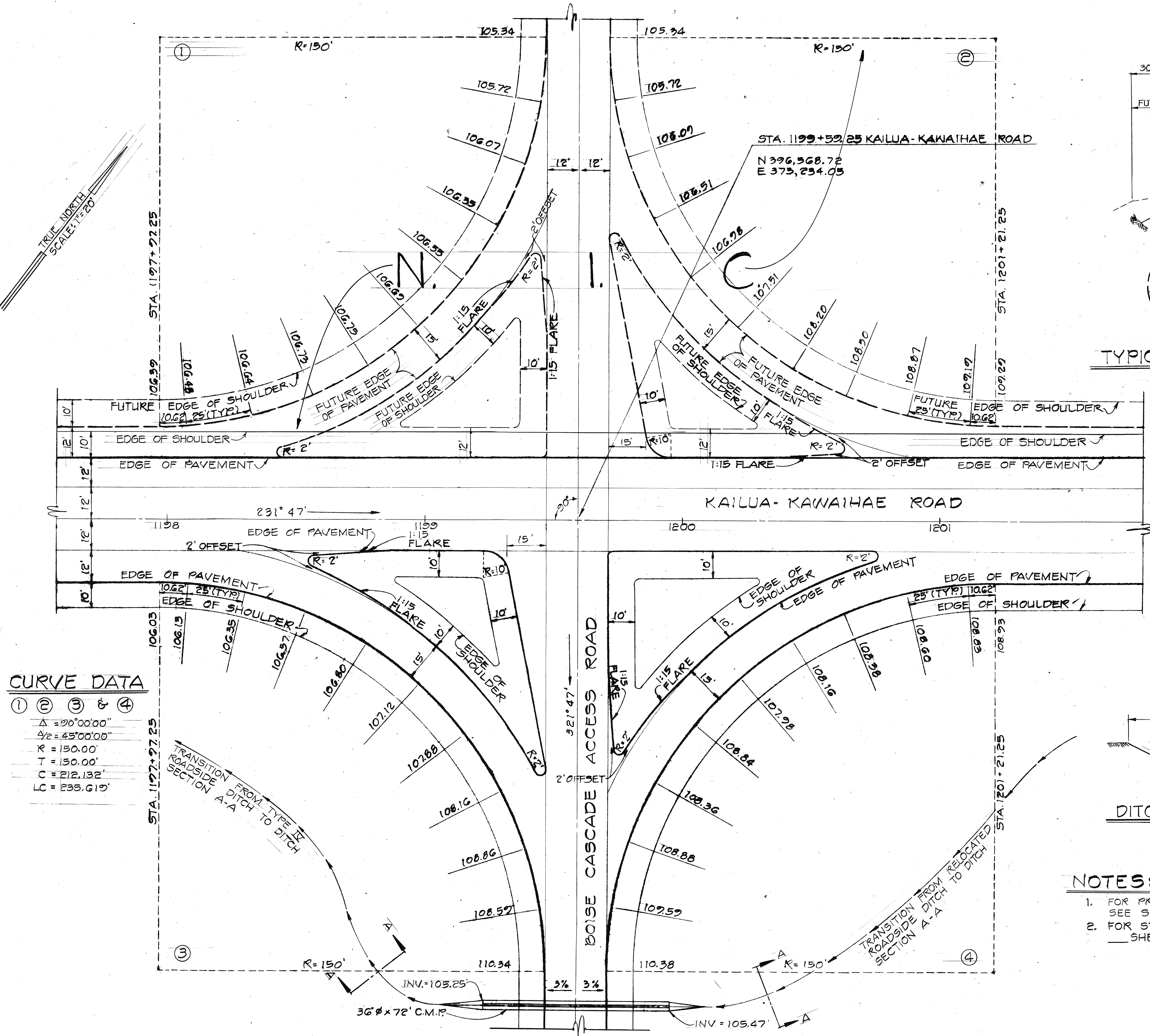
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

INTERSECTION LAYOUT PLAN
BOISE-CASCADE ACCESS ROAD

KAILUA - KAWAIIHAE ROAD
KEAHOE TO ANAHOOMALU
PROJ. NO. 19 BC-01-71

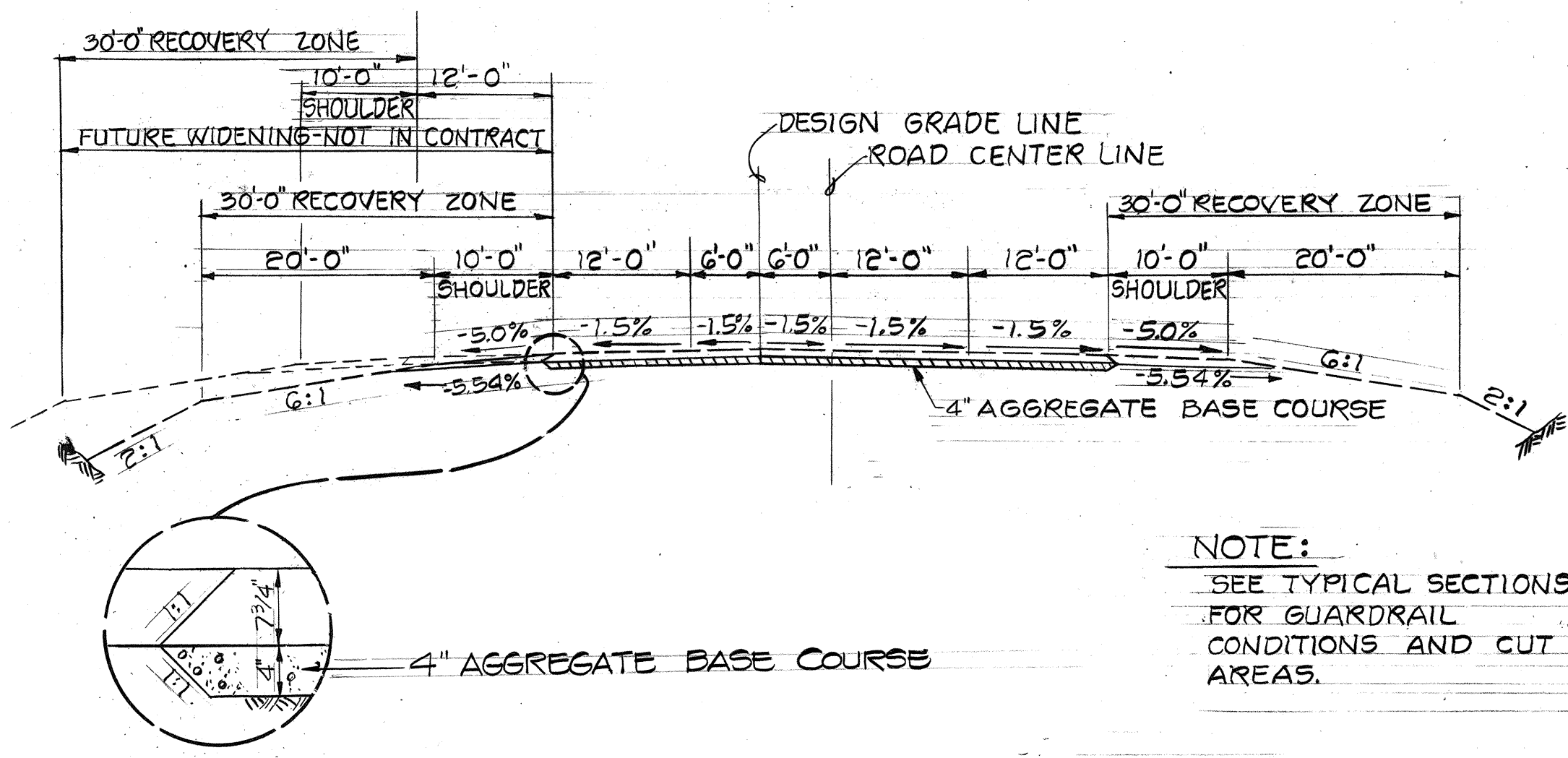
SHEET No. 2 OF 2 SHEETS

STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAW.	12 BC-01-71	1973	75A	118

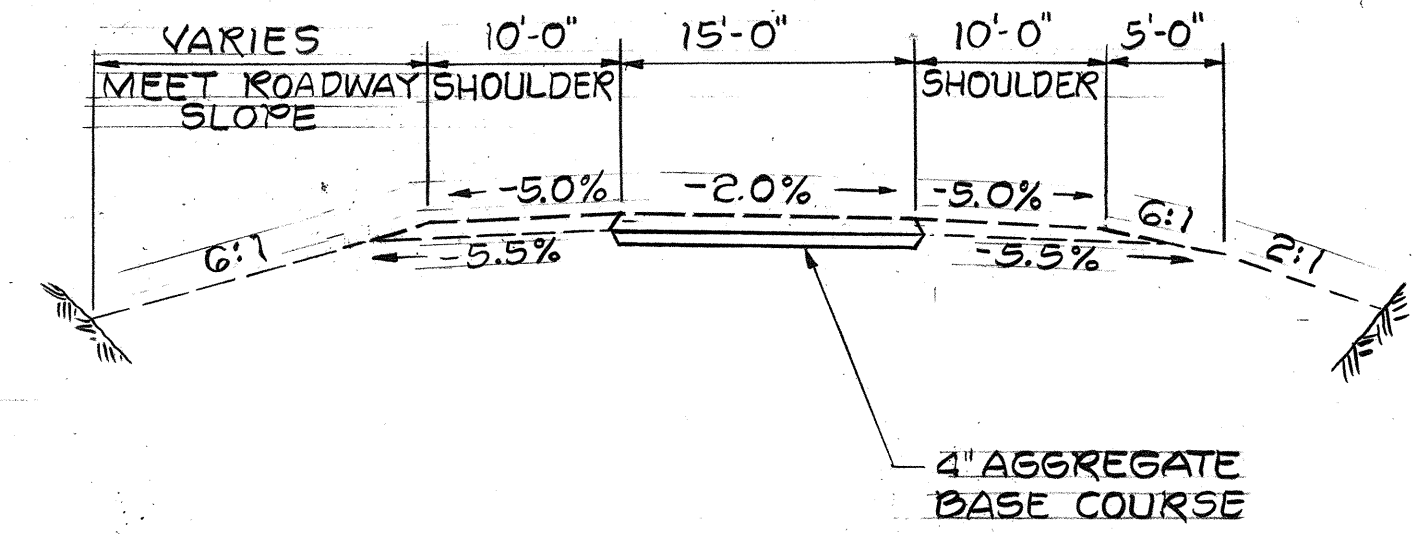


CURVE DATA

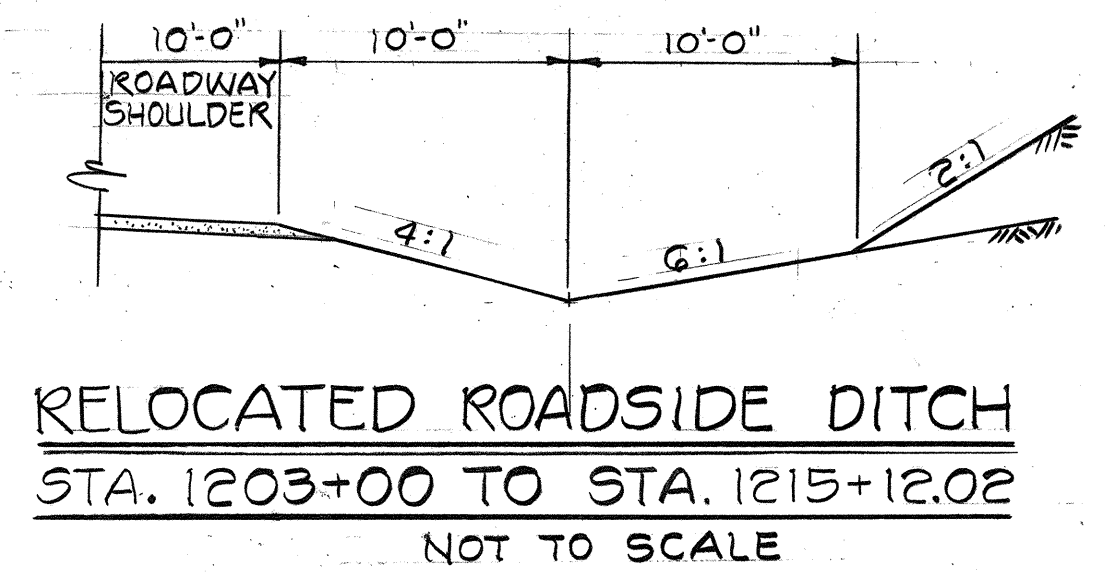
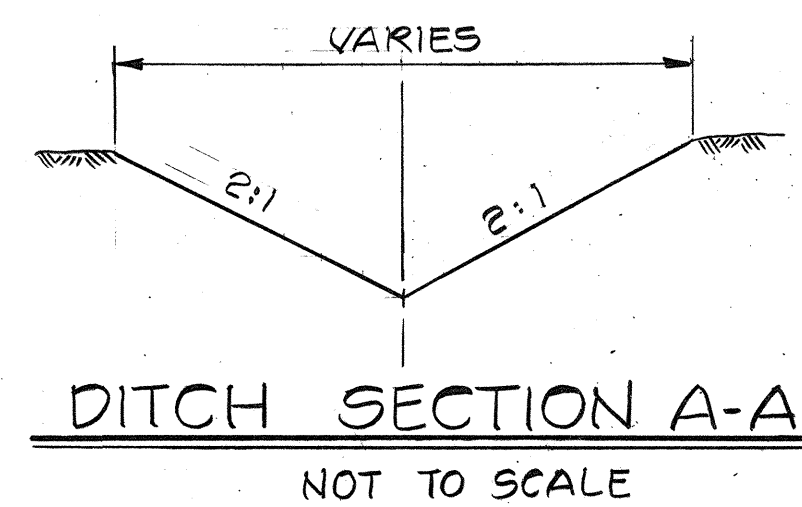
①	②	③	④
$\Delta = 90^{\circ}00'00''$			
$4e = 45^{\circ}00'00''$			
$R = 150.00'$			
$T = 150.00'$			
$C = 212.132'$			
$LC = 235.619'$			



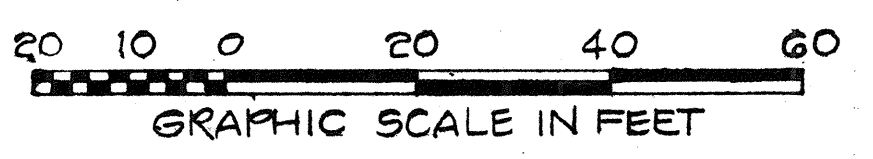
TYPICAL SECTION FOR ACCELERATION & DECELERATION LANES
KAILUA-KAWAIHAE ROAD
NOT TO SCALE



TYPICAL SECTION OF INTERSECTION CURVES
NOT TO SCALE



- NOTES:
1. FOR PROFILES OF BOISE CASCADE ROAD, SEE SHEET ____ OF ____ SHEET.
 2. FOR STRIPING DETAIL, SEE SHEET ____ OF ____ SHEETS.



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

INTERSECTION OF
KAILUA-KAWAIHAE ROAD
STA. 1199+59.25 @
BOISE CASCADE ROAD

KE-AHOLE TO HAPUNA
PROJ. No. 12 BC-01-71

SHEET No. ____ OF ____ SHEETS

NOV. 9, 1972

C.O. 75A

DATE	
DESIGNED BY	
TRACED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

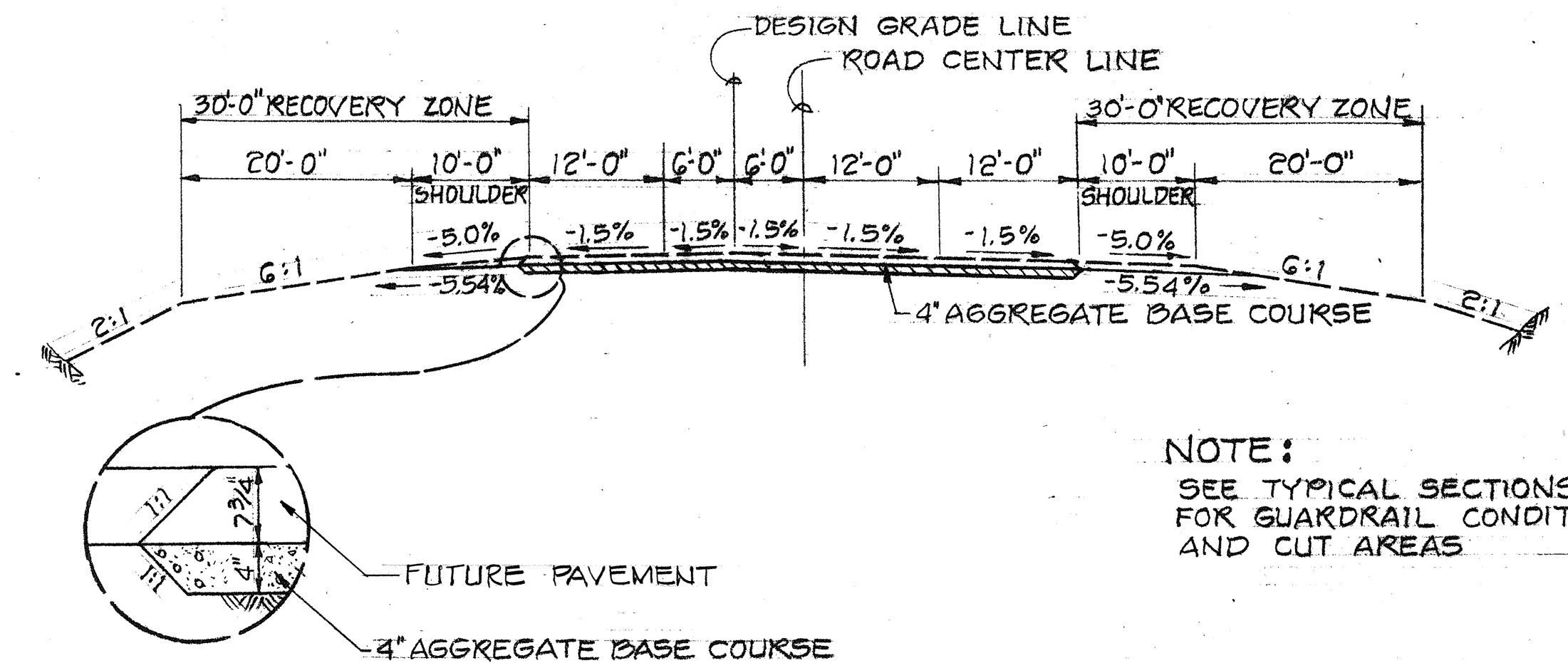
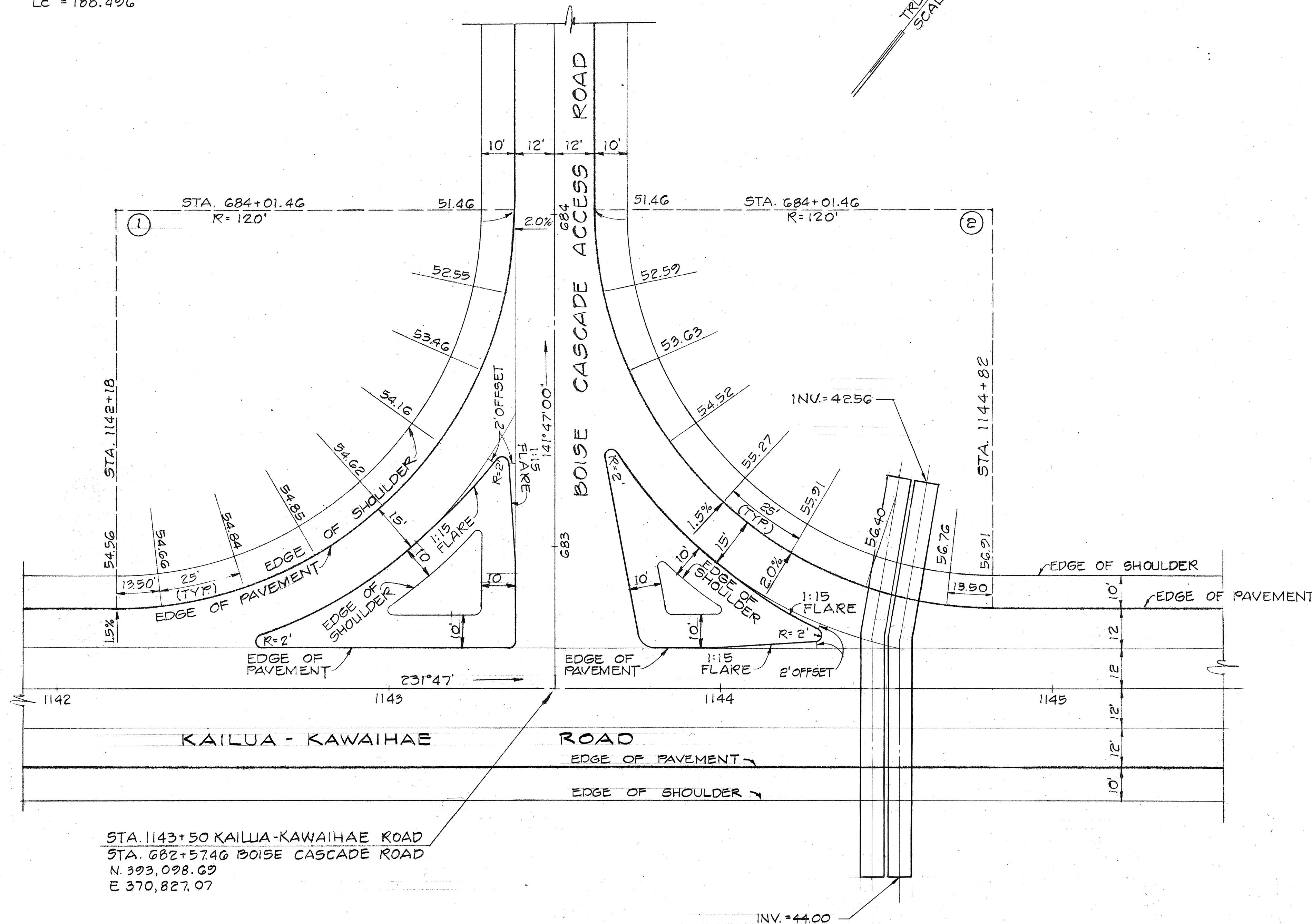
NOTES:

1. FOR PROFILE OF BOISE CASCADE ROAD, SEE SHEET ____ OF ____ SHEETS.
2. FOR STRIPING DETAIL, SEE SHEET ____ OF ____ SHEETS.

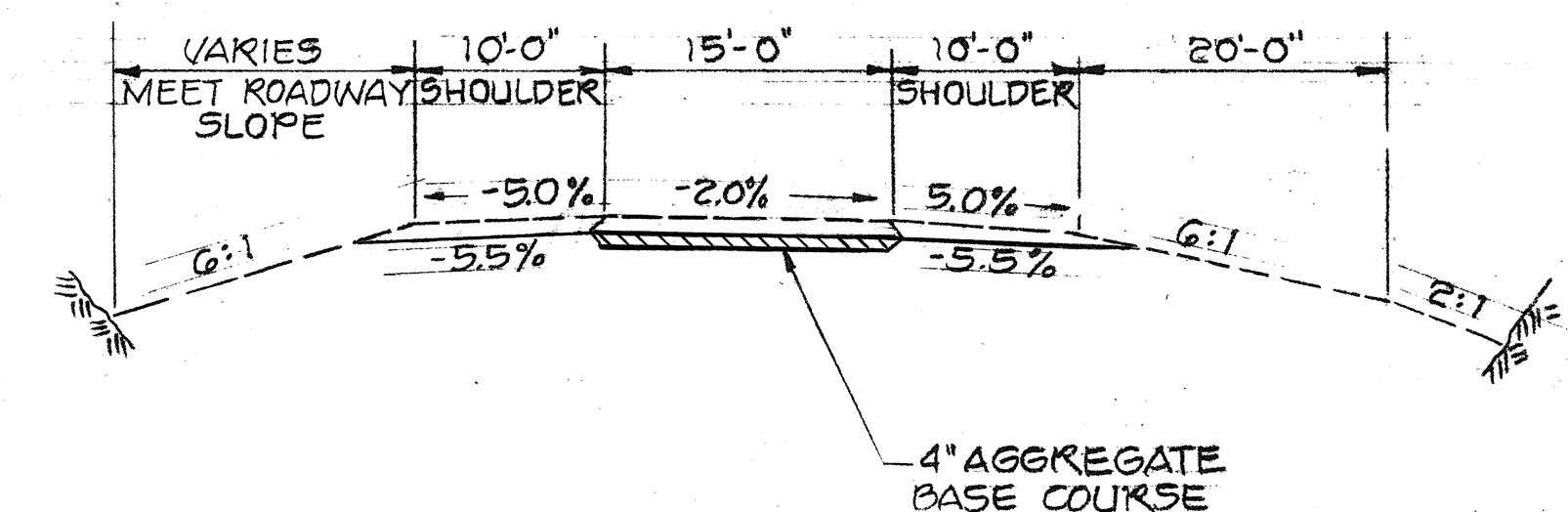
STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAW.	100C-01-71	1973	75B	118

CURVE DATA

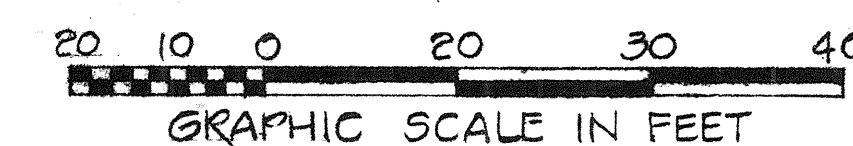
① & ②
 $\Delta = 90^{\circ}00'00''$
 $\Delta/2 = 45^{\circ}00'00''$
 $R = 120.00'$
 $T = 120.00'$
 $C = 169.706'$
 $LC = 188.496'$



TYPICAL SECTION FOR ACCELERATION & DECELERATION LANES
 KAILUA-KAWAIHAE ROAD
 NOT TO SCALE



TYPICAL SECTION OF INTERSECTION CURVES
 NOT TO SCALE



STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

INTERSECTION OF
 KAILUA-KAWAIHAE ROAD
 STA. 1143+50.00 @
 BOISE CASCADE ROAD

KE-AHOLE TO HAPUNA
 PROJ. No. 100C-01-71

SHEET No. OF SHEETS

NOV. 9, 1972

C.O.75B

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