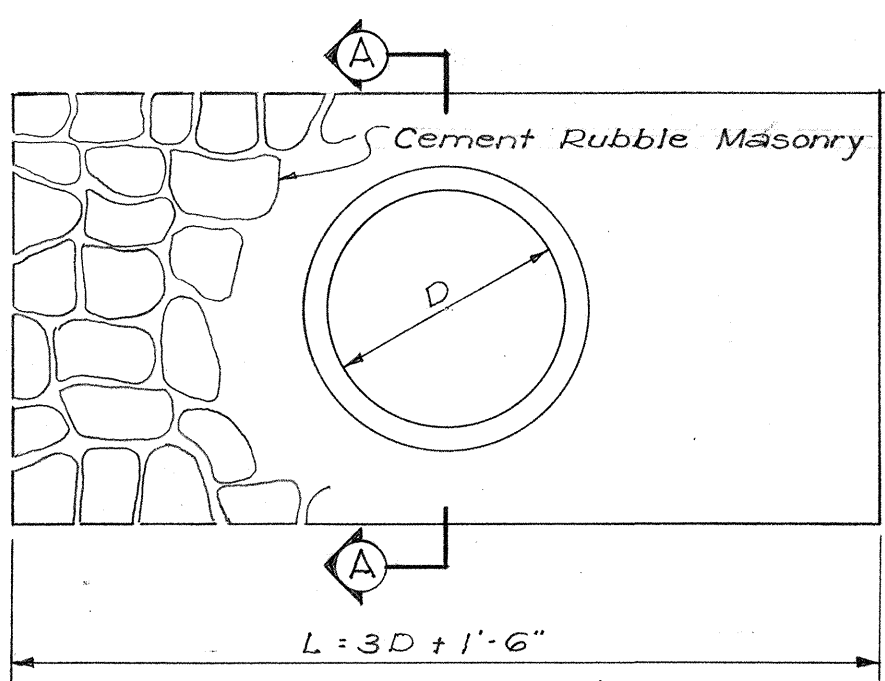
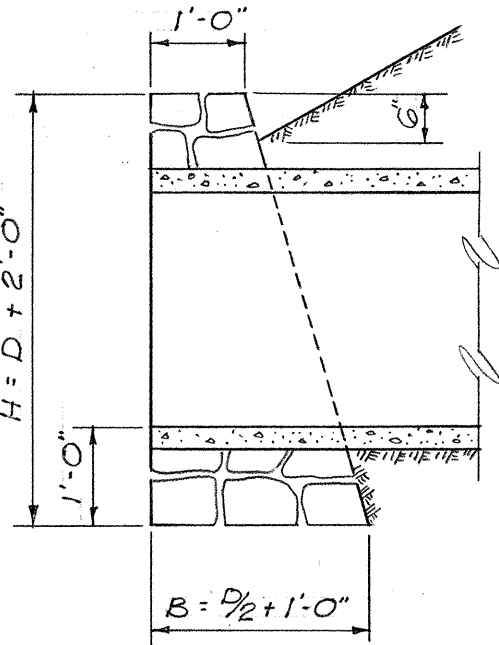


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	A-378-01-66	1966	2	35

DATA - MASONRY HEADWALL				CAST-IN-PLACE CONC. CULVERT	CONC. PIPE CULVERT	CORRUGATED PIPE CULVERT
D	H	B	L	CU. YDS.	CU. YDS.	CU. YDS.
18"	3'-6"	1'-9"	6'-0"	0.85	0.95	0.93
24"	4'-0"	2'-0"	7'-6"	1.28	1.45	1.41
34"	4'-6"	2'-3"	9'-0"	1.83	2.06	2.00
36"	5'-0"	2'-6"	10'-6"	2.49	2.84	2.72



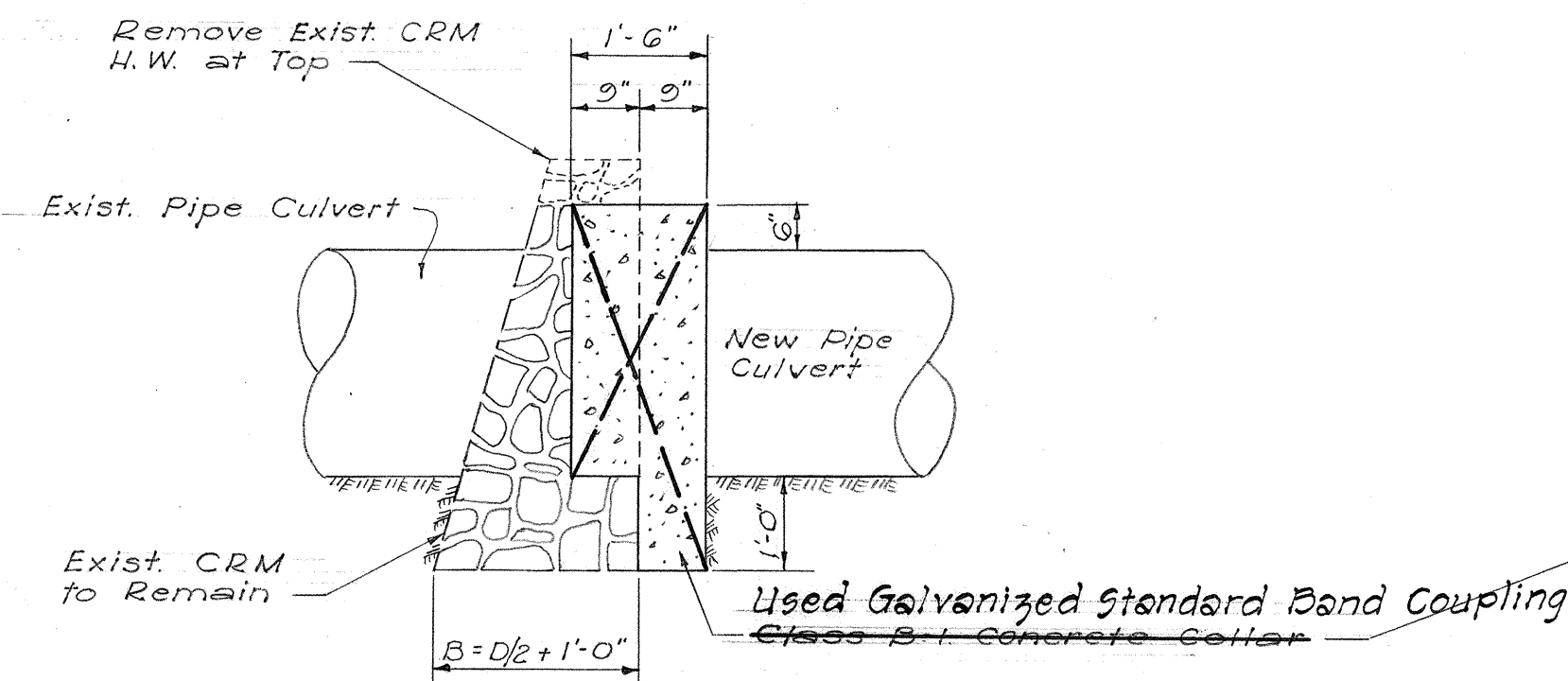
ELEVATION



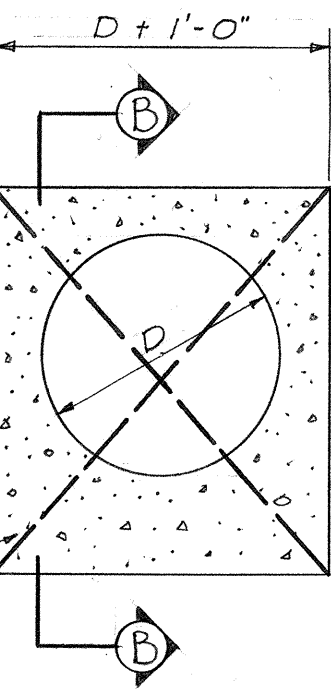
SECTION A A

DETAIL OF MASONRY HEADWALL

SCALE 1/2" = 1'-0"



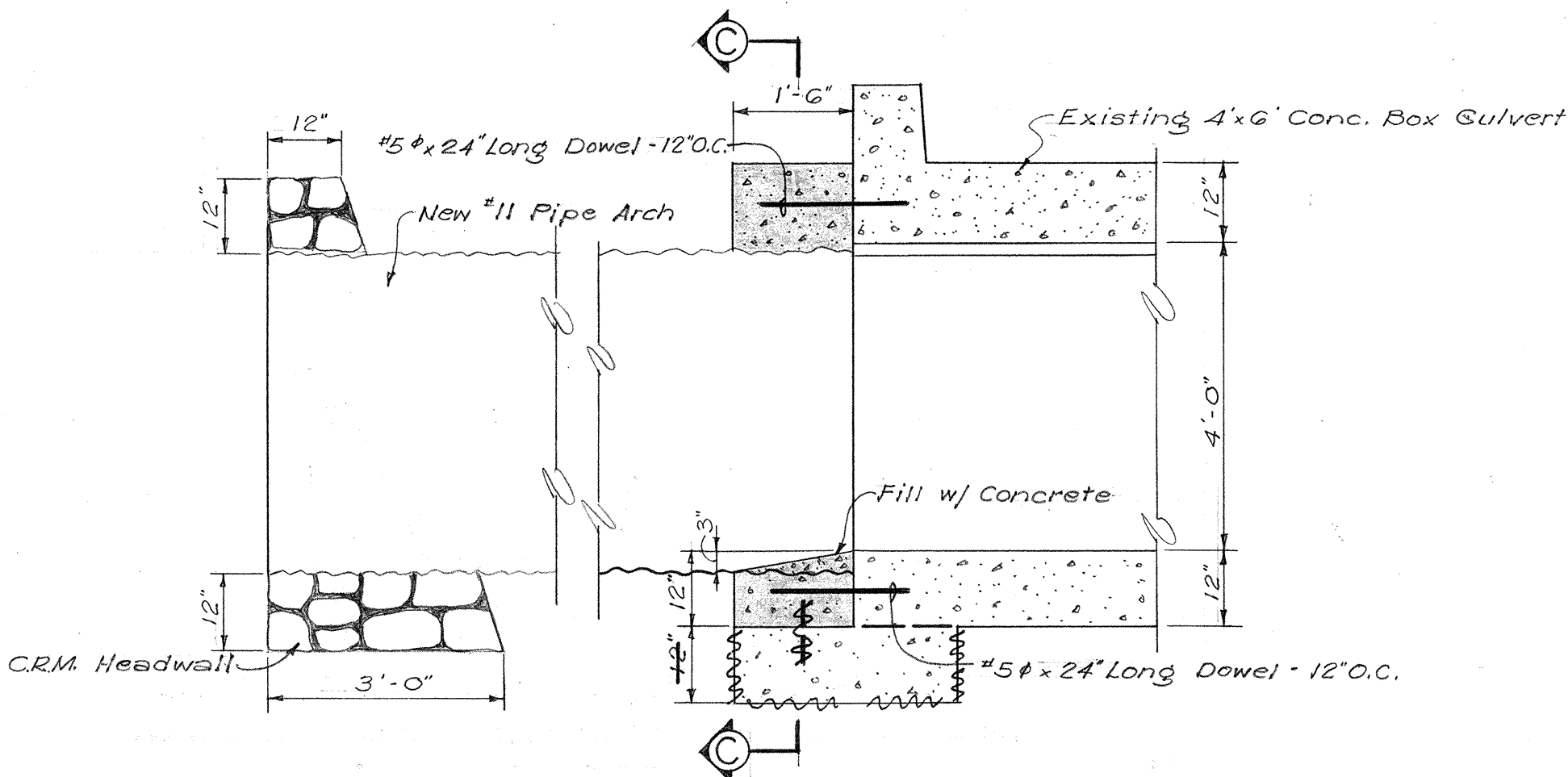
SECTION B B



ELEVATION

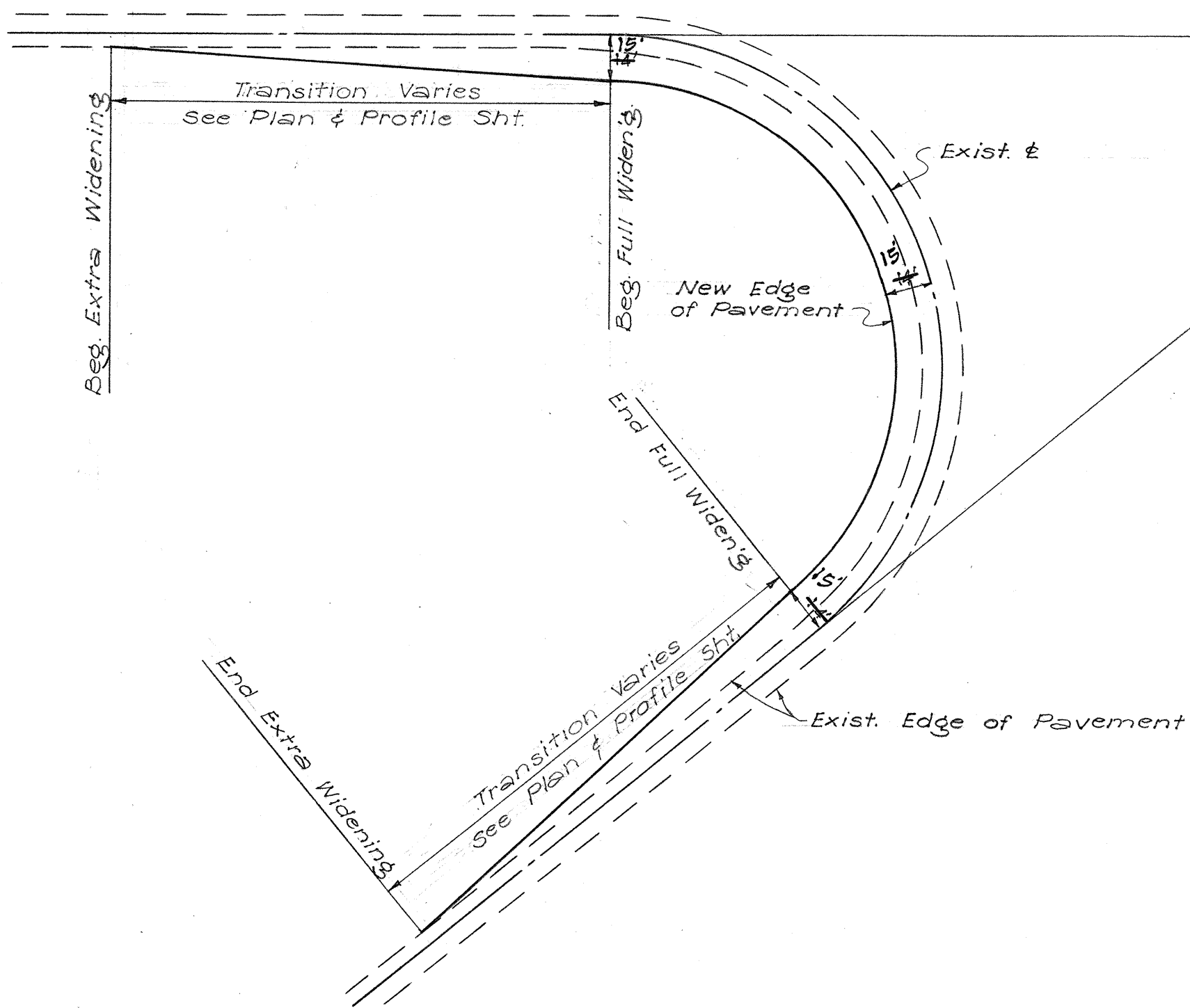
DETAIL OF CONNECTION FOR EXTENSION OF EXISTING CULVERTS

SCALE 1/2" = 1'-0"



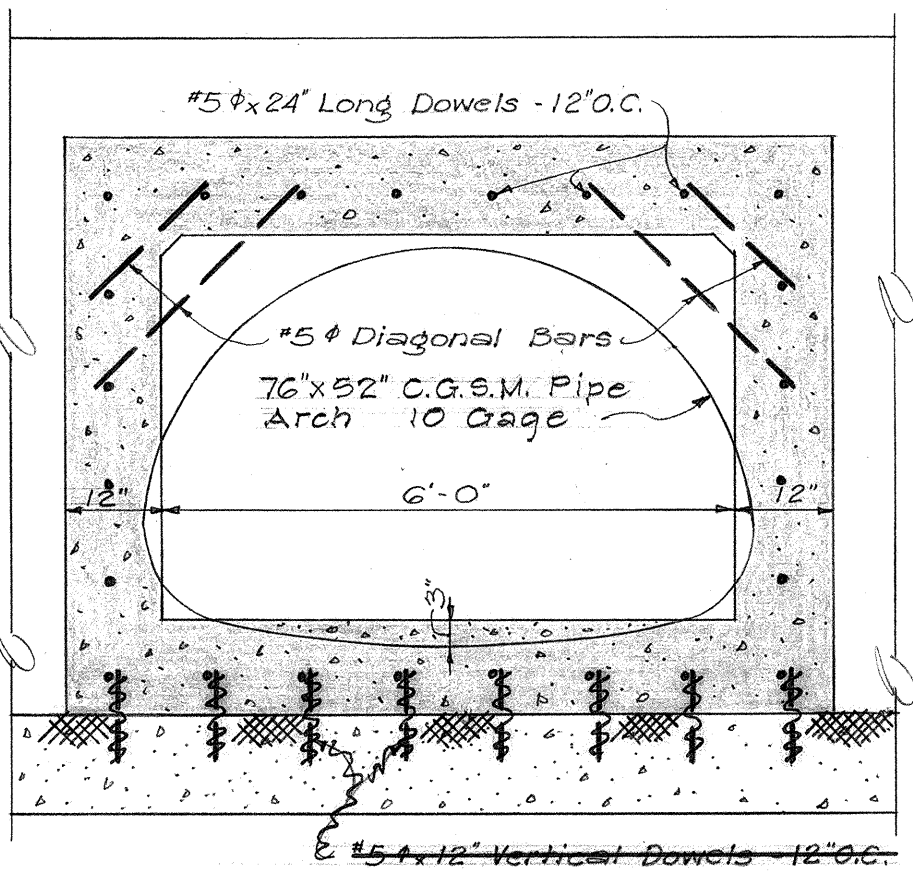
LONGITUDINAL SECTION SCALE 1/2" = 1'-0"

CURVE # 22 - DETAIL OF CONNECTION OF #11 PIPE-ARCH TO EXISTING 4x6' BOX CULVERT



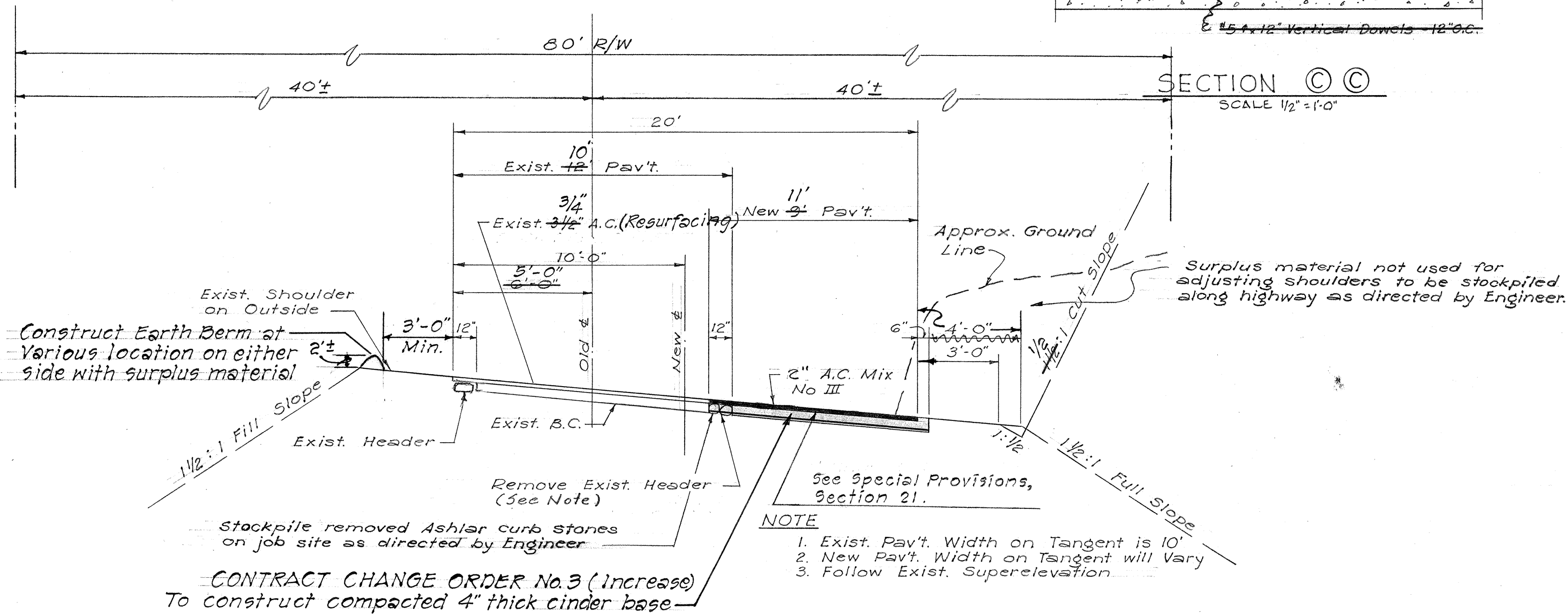
TYPICAL EXTRA WIDENING

SCALE 1" = 40'



SECTION C C

SCALE 1/2" = 1'-0"



TYPICAL SECTION ON CURVE

SCALE 1/4" = 1'-0"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTIONS & DETAILS

HALEAKALA ROAD WIDENING

GROUP "B" PROJ. NO. A-378-01-66

SCALE AS SHOWN DATE: APRIL, 1966

SHEET No. 1 OF 1 SHEETS

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