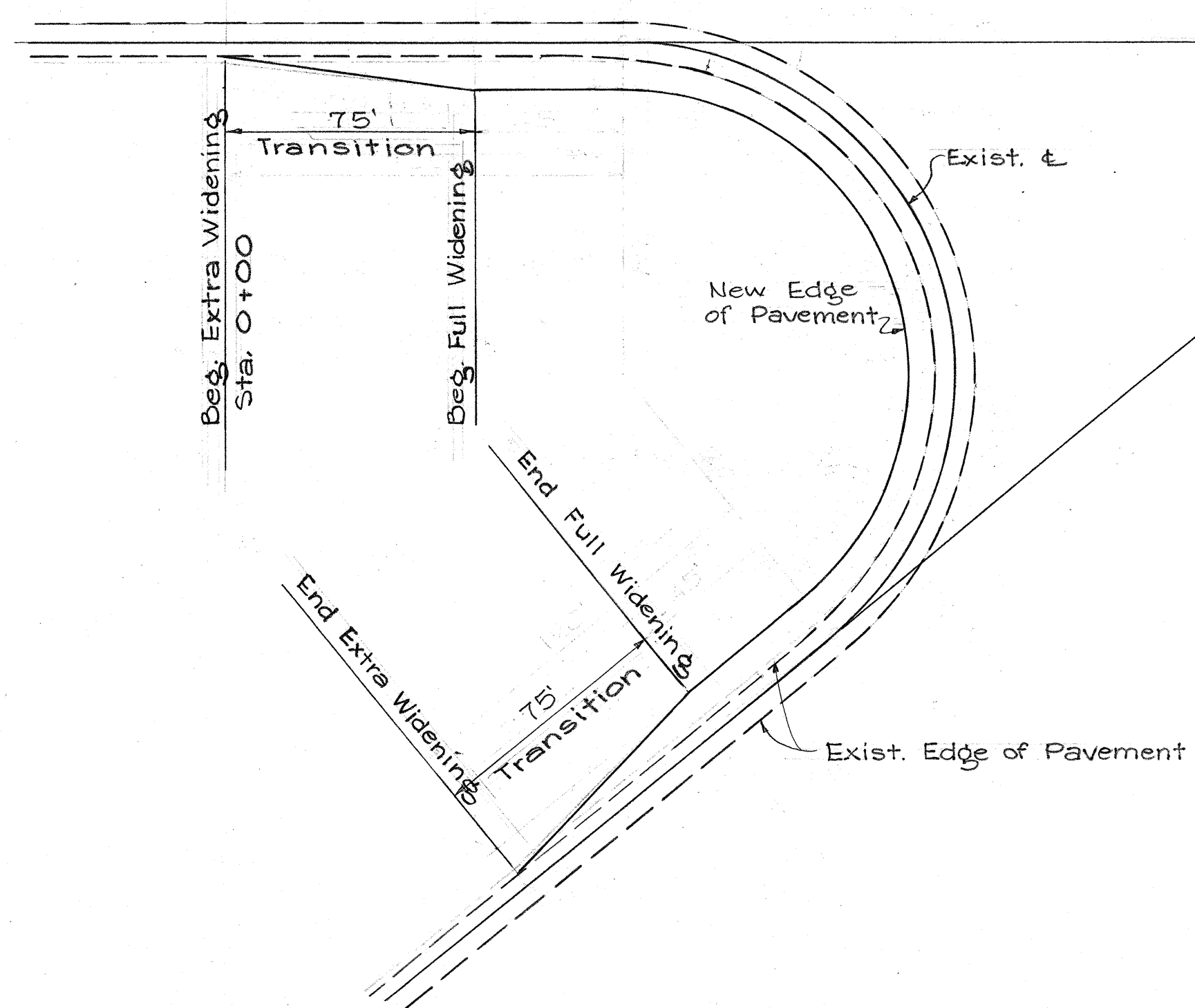
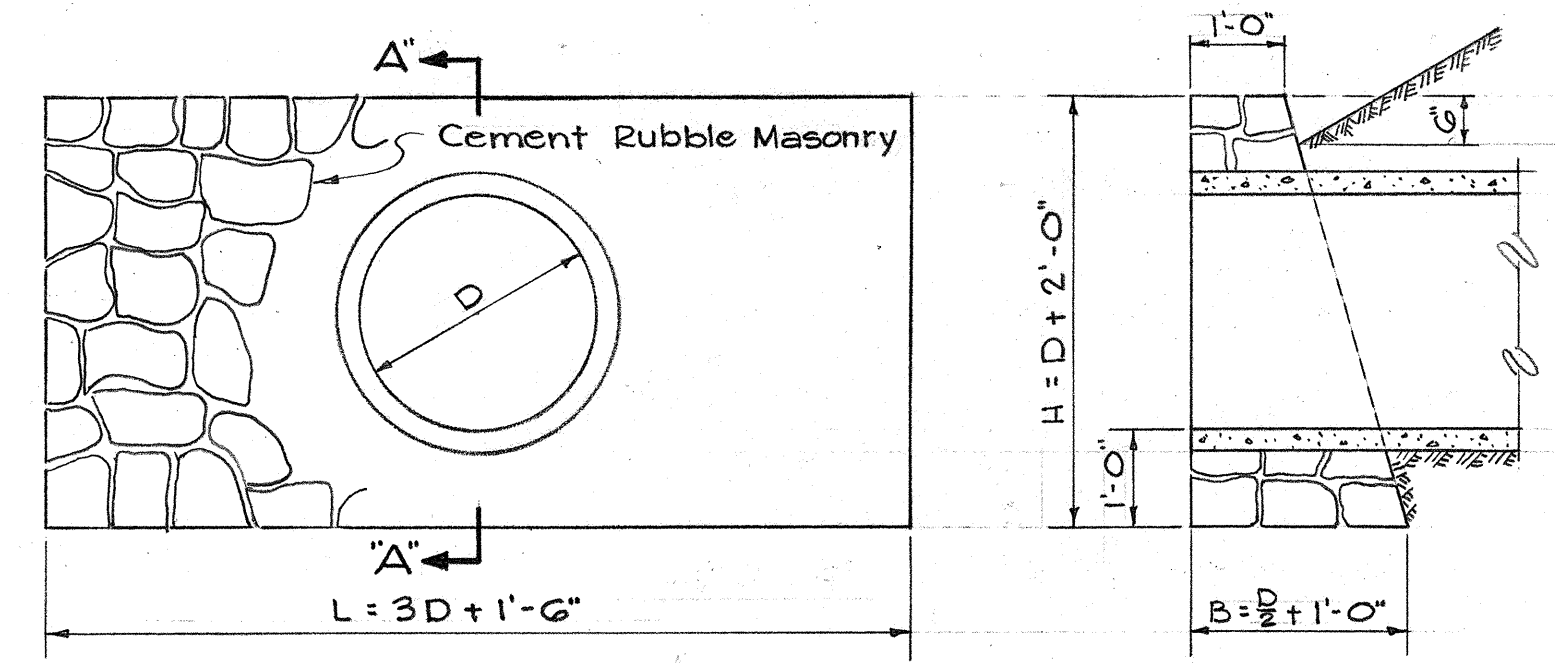


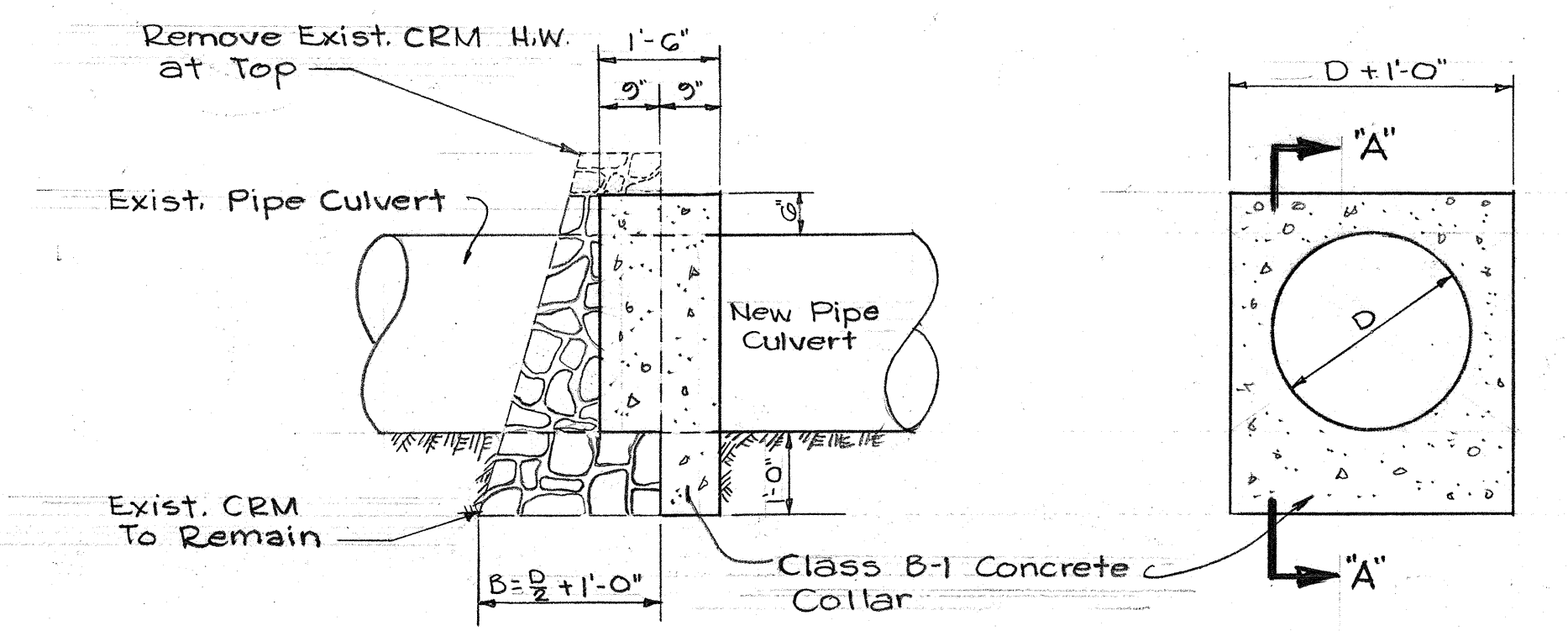
DATA - MASONRY HEADWALL				CAS-T-IN-PLACE CONC. CULV'T	CONC. PIPE CULV'T	CORRUGATED PIPE CULV'T
D	H	B	L	CU. YDS.	CU. YDS.	CU. YDS.
18"	3'-6"	1'-9"	6'-0"	0.85	0.95	0.93
24"	4'-0"	2'-0"	7'-6"	1.28	1.45	1.41
30"	4'-6"	2'-3"	9'-0"	1.83	2.06	2.00
36"	5'-0"	2'-6"	10'-6"	2.49	2.84	2.72



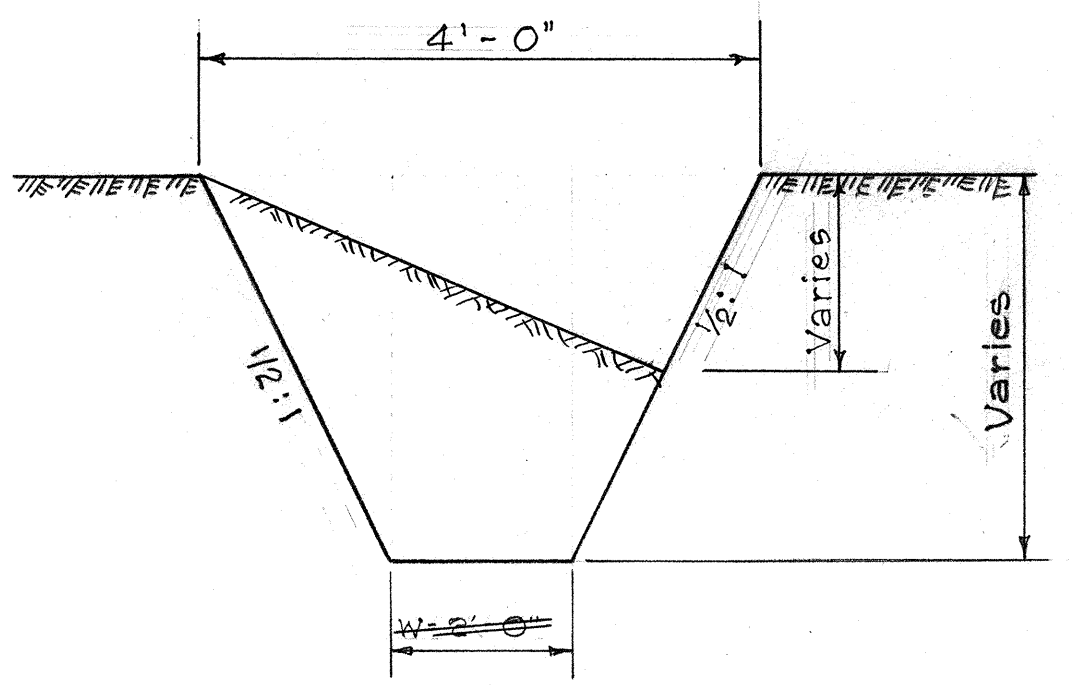
TYPICAL EXTRA WIDENING
SCALE 1" = 40'



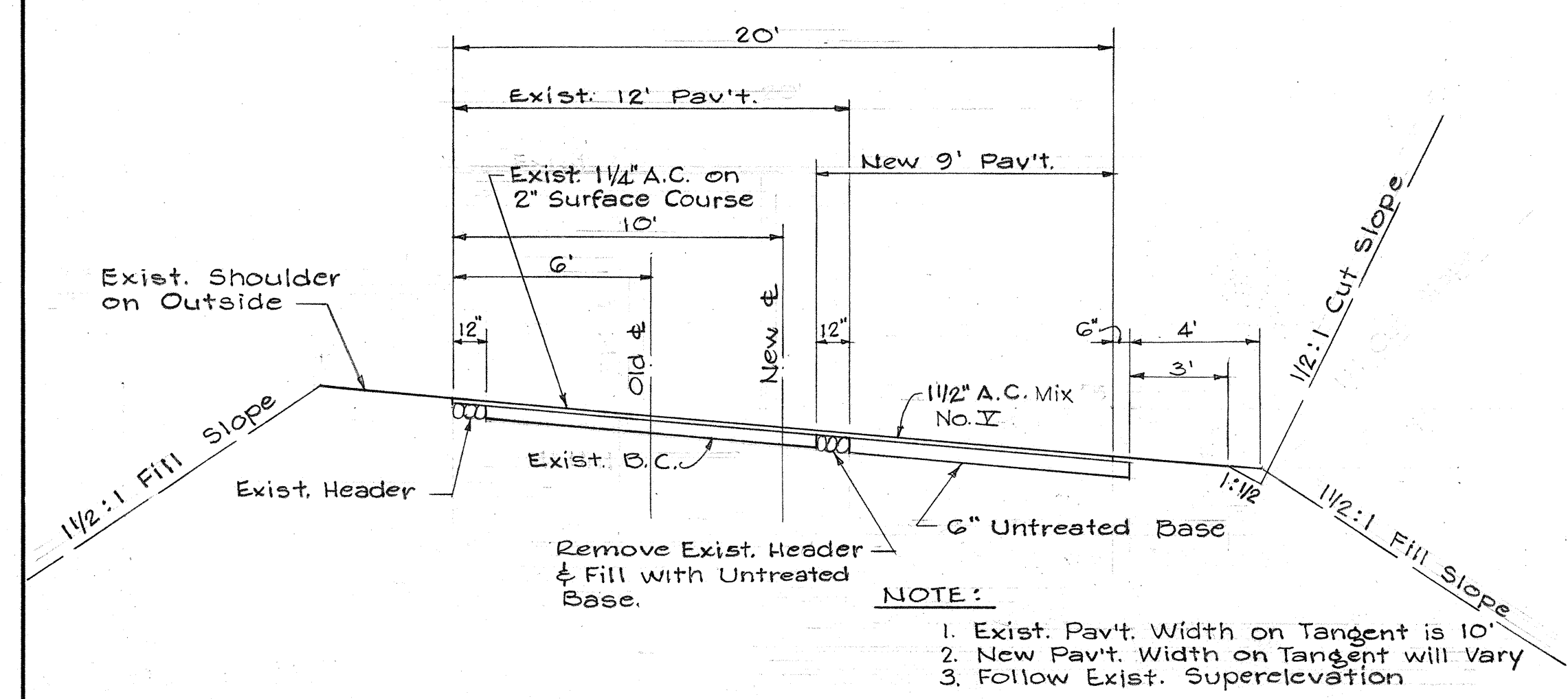
DETAIL OF MASONRY HEADWALL
SCALE 1/2" = 1'-0"



DETAIL OF CONNECTION FOR EXTENSION OF EXISTING CULVERTS
SCALE 1/2" = 1'-0"



TYPICAL DITCH SECTION
NO SCALE



TYPICAL SECTION ON CURVE
SCALE 1" = 40'

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTIONS

HALEAKALA ROAD WIDENING

GROUP "B" PROJ. NO. A-378-01-65

SCALE AS SHOWN DATE 10-64

SHEET No. 2 OF 14 SHEETS