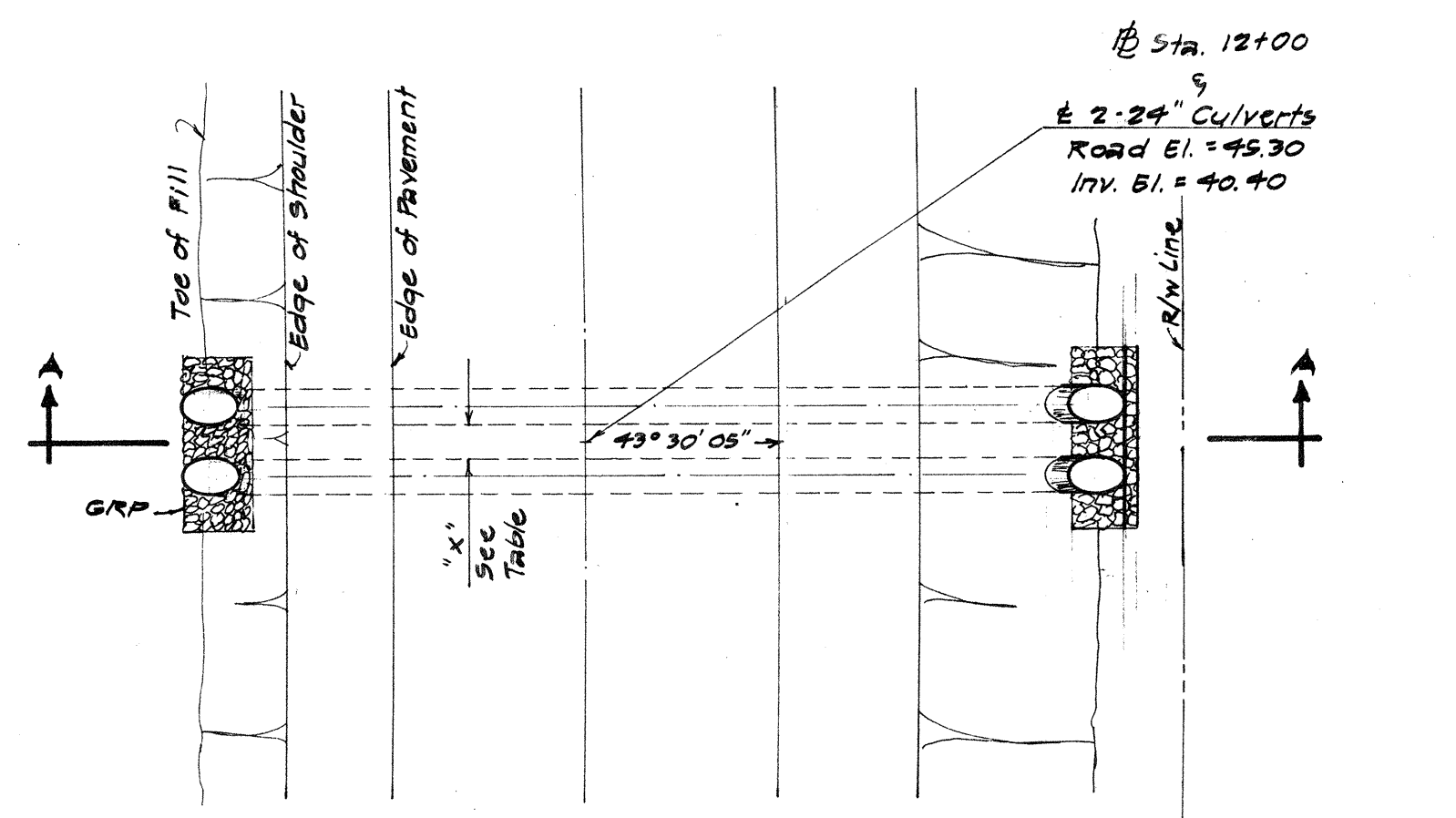


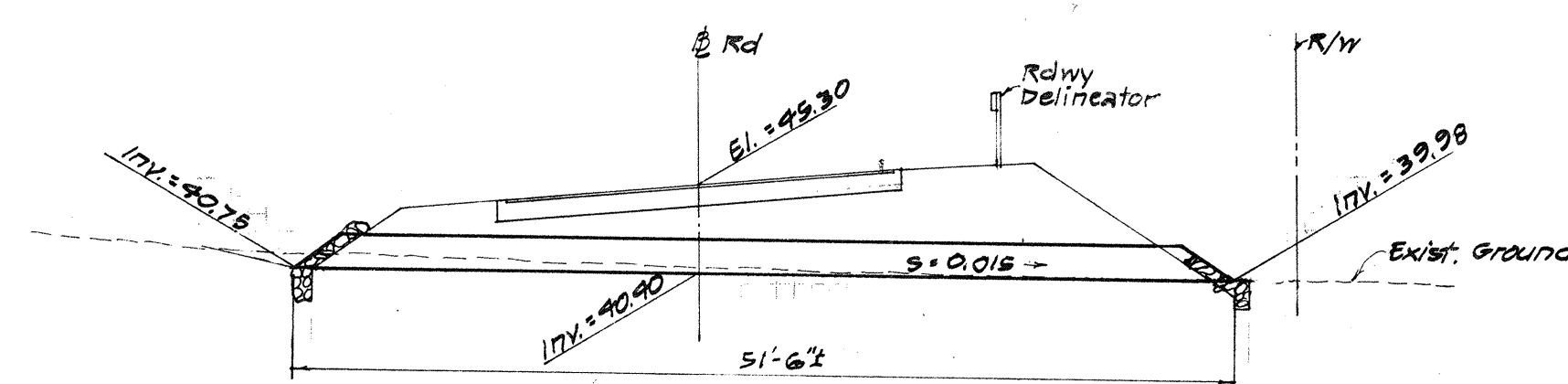
SUMMARY OF CULVERT PIPES

STATIONS	ALTERNATE "1"				ALTERNATE "2"				STRUCTURAL EXCAVATION CY	CLASS A-1 CONCRETE CY	REINFT. STEEL LBS.	STRUCTURAL STEEL LBS.	20"x10" CORR. GALV. SEAM. PLATE ARCH LF	CRM CY	HAND-PLACED BACK FILL CY	GRP CY	DITCH & CHANNEL EX. CY
	24"	42"	54"	66"	24"	42"	54"	66"									
G+15									265.8	183	7,513		216				
12+00	104				102				17.6				240			3	
24+25			232				48	232	15.9					14		17.4	
35+00							108	180	7.8							3.2	
41+40		120							15.4							5.0	
53+30				320					302	21.7				22		20.1	
TOTALS	104	120	232	320	102	156	224	320	322.3	183	7,513	(2,151)	216	36	77.5	116	165.4

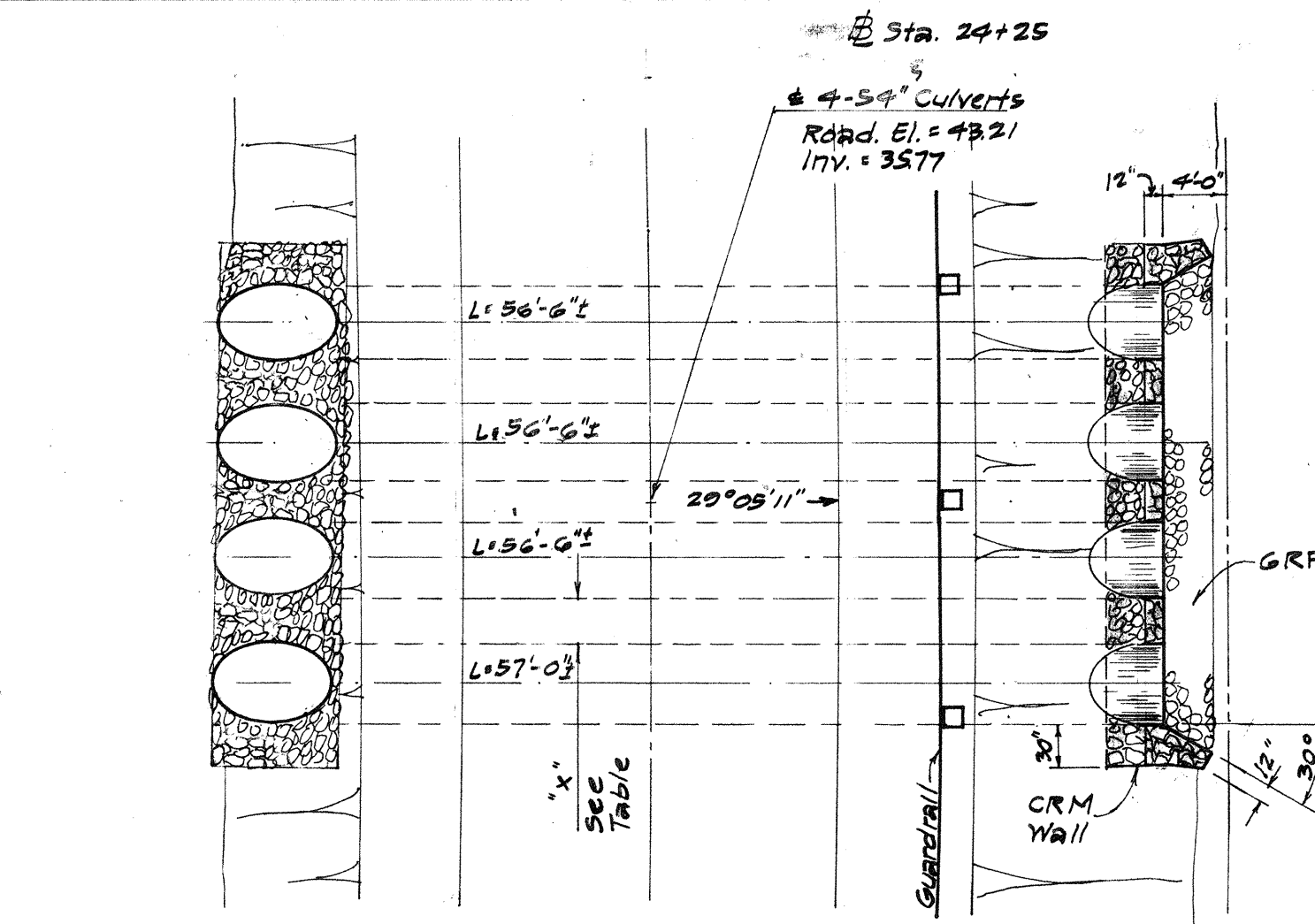
- NOTES:
- 1) All Culverts shall be perpendicular to Poipu Beach Road.
 - 2) All Culvert Lengths shall be revised to correspond to Alternate "A" Roadway Sections. See (Sheet 2) if construction under alternate is required.
 - 3) For construction under Alternate "A" culverts @ Sta. 24+25 and 53+30, all CRM Headwall outlets shall be replaced w/Type GRP outlet structures as shown below.
 - 4) For Alternates "A" inverts shall be adjusted accordingly.



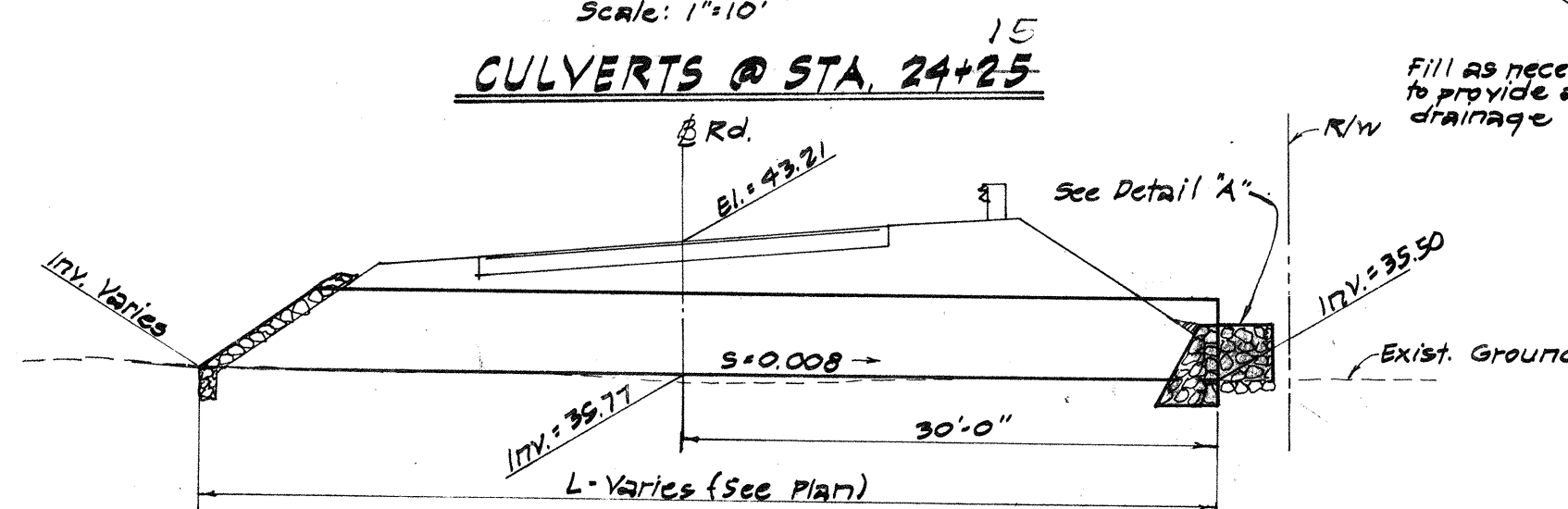
PLAN
Scale: 1"=10'
CULVERTS @ STA. 12+00



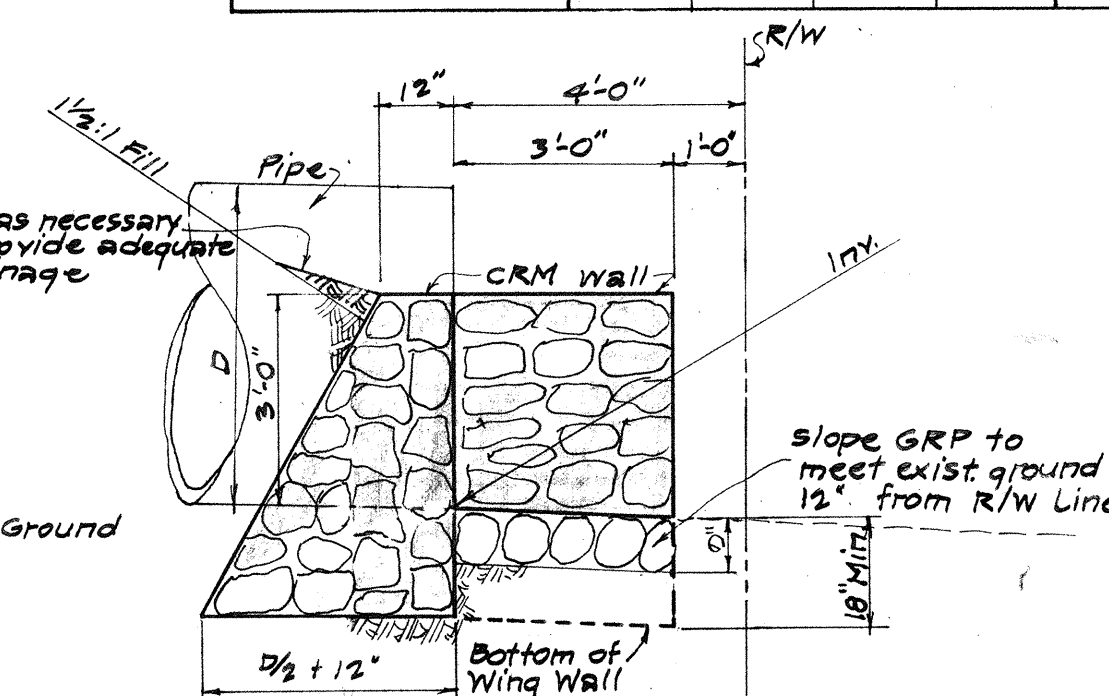
SECTION A-A
Scale: 1"=10'



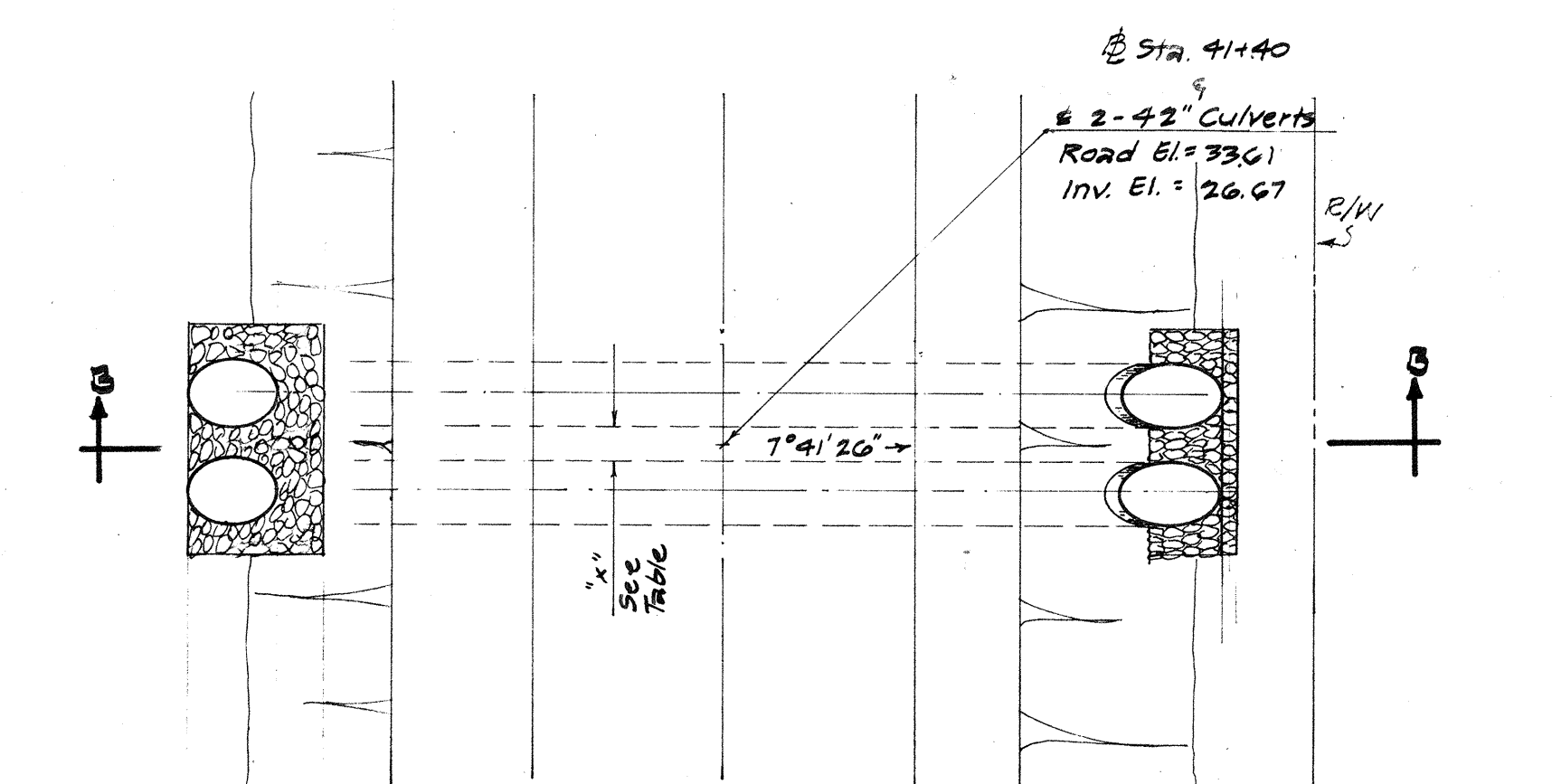
PLAN
Scale: 1"=10'
CULVERTS @ STA. 24+25



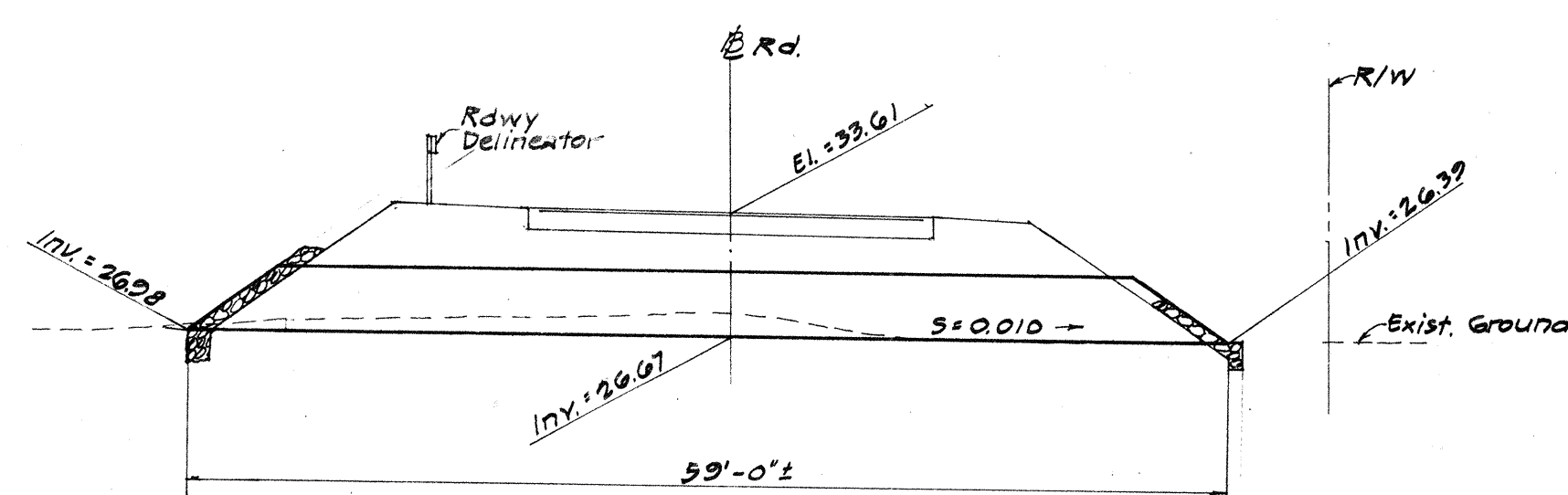
ELEVATION
Scale: 1"=10'



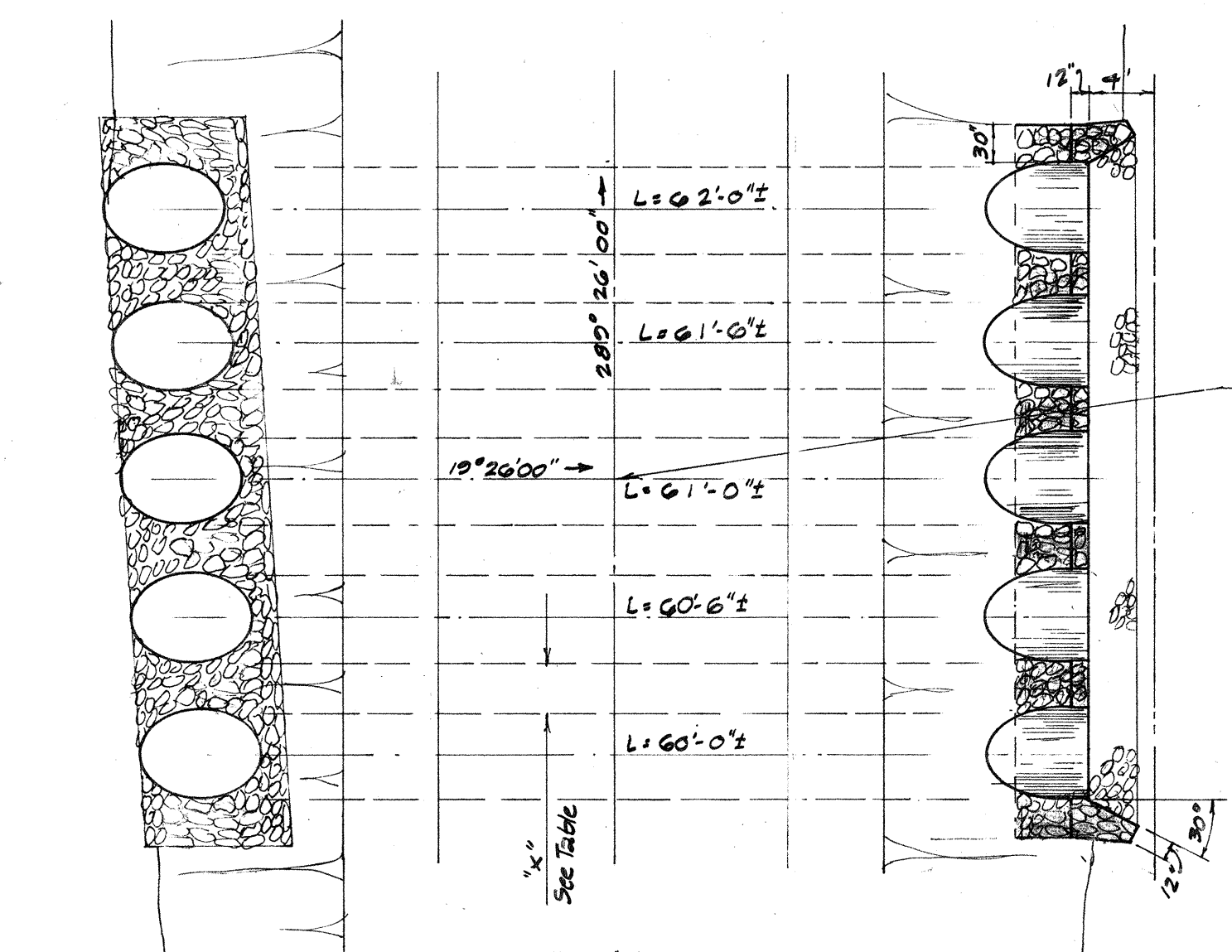
DETAIL "A"
Not to Scale



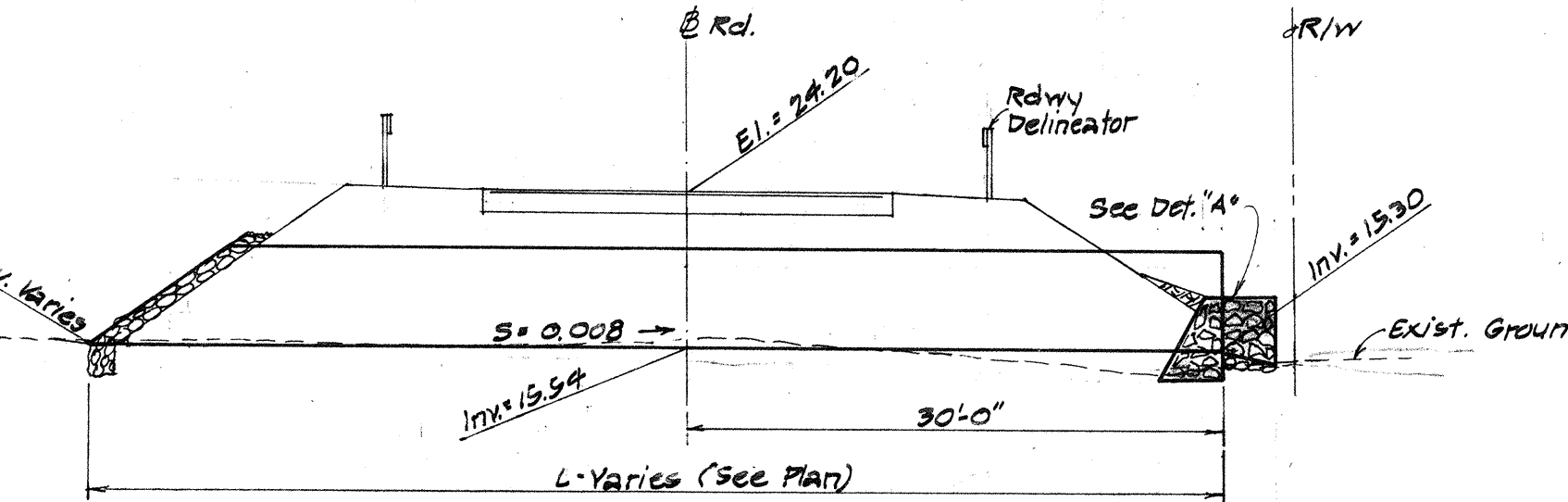
PLAN
Scale: 1"=10'
CULVERTS @ STA. 41+40



SECTION B-B
Scale: 1"=10'



PLAN
Scale: 1"=10'
CULVERTS @ STA. 53+30

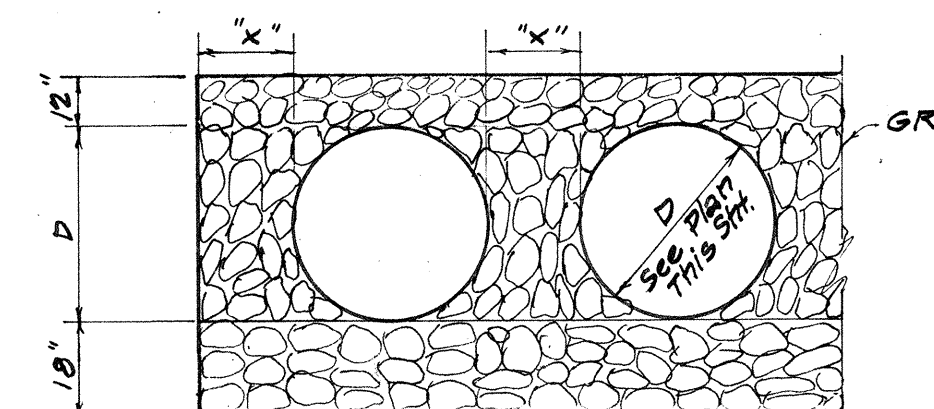


ELEVATION
Scale: 1"=10'

INLET END

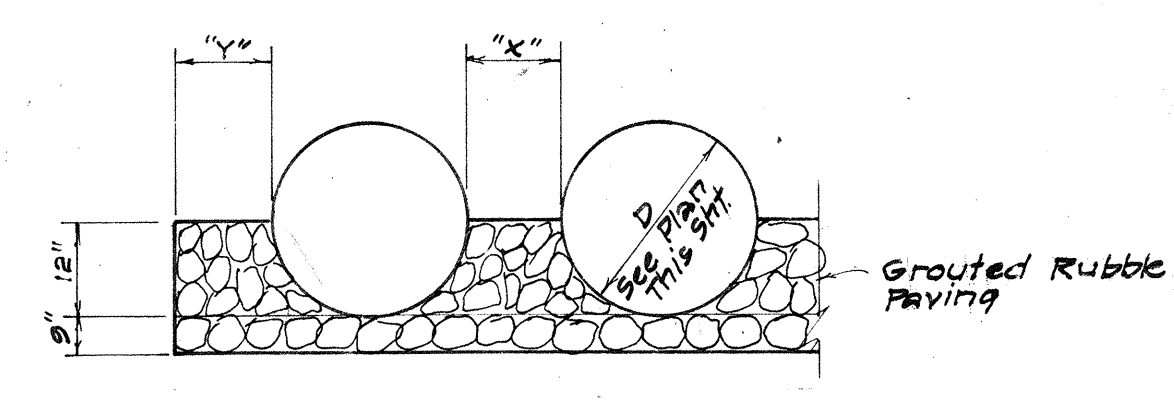
TYPICAL CULVERT SECTIONS
Not to Scale

OUTLET END



FRONT ELEVATION
Not to Scale

D = Outside Diameter



FRONT ELEVATION
Not to Scale

TABLE FOR PIPE CLEARANCES

Culvert Station	"X"
12+00	2.0'
24+25	2.5'
41+40	2.0'
53+30	3.0'

"Y" = 1'-0" For All Cases

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CORRUGATED METAL PIPE
CULVERT DETAILS

POIPU BEACH ROAD
PROJECT NO. G-3325-01-63

SCALE: As Noted