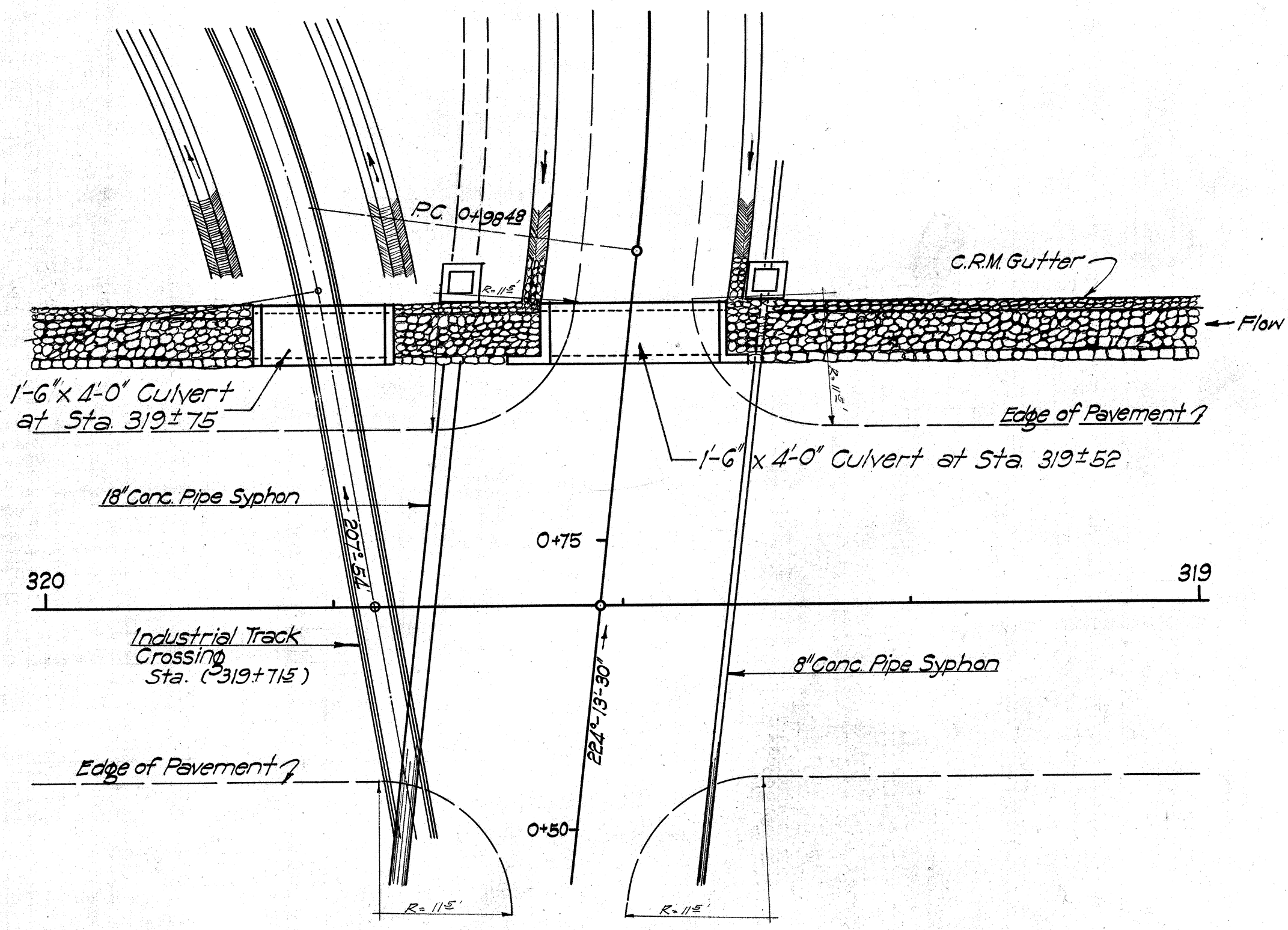
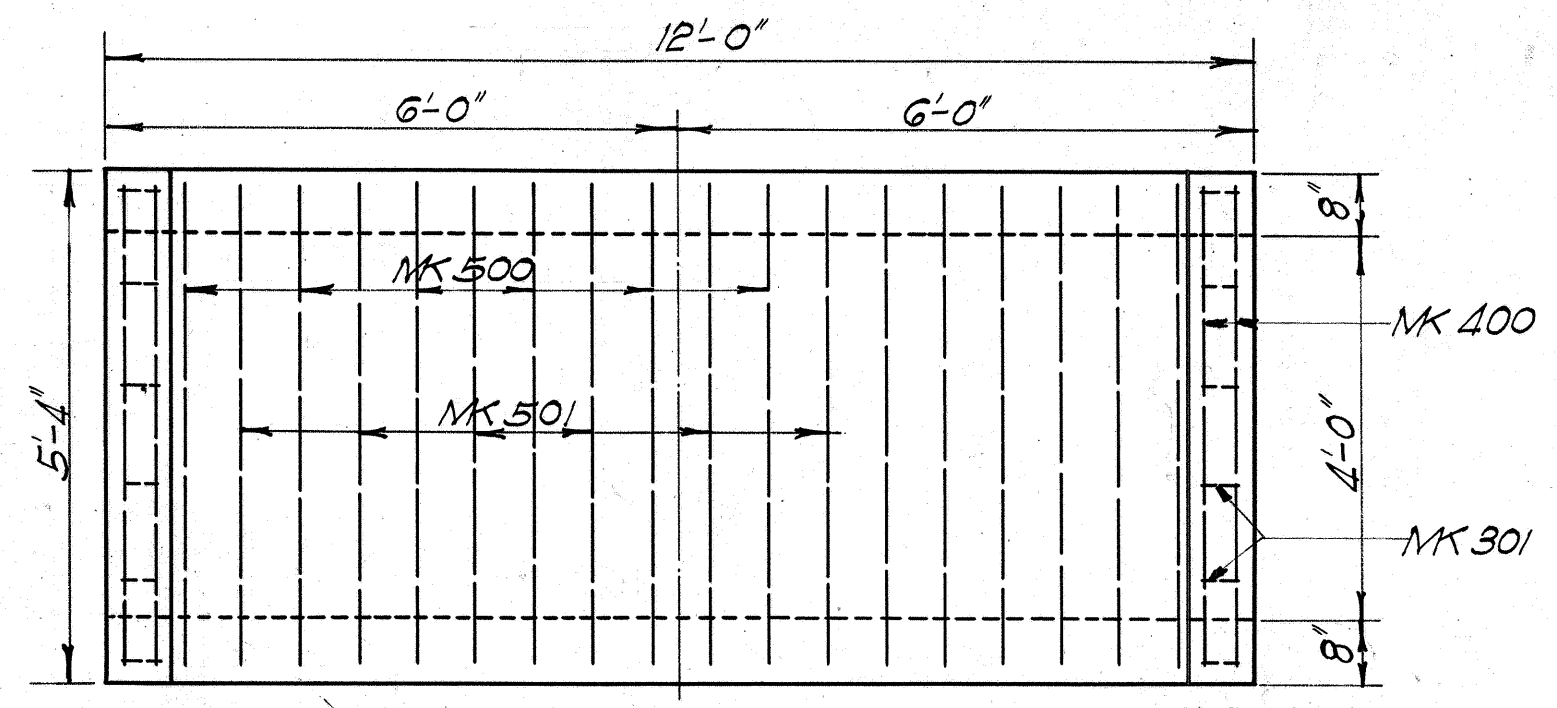
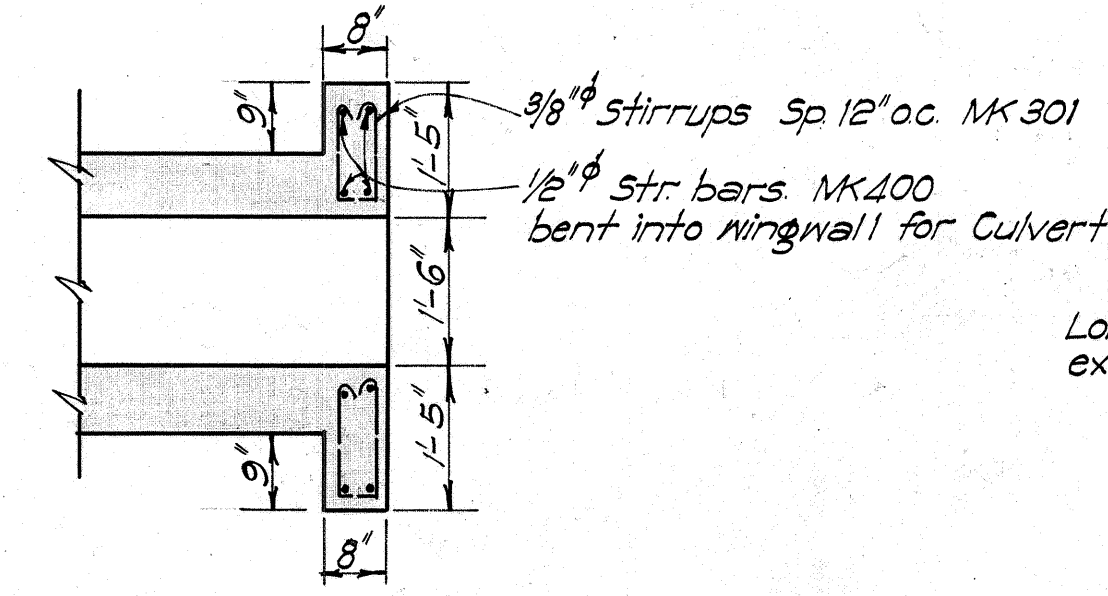




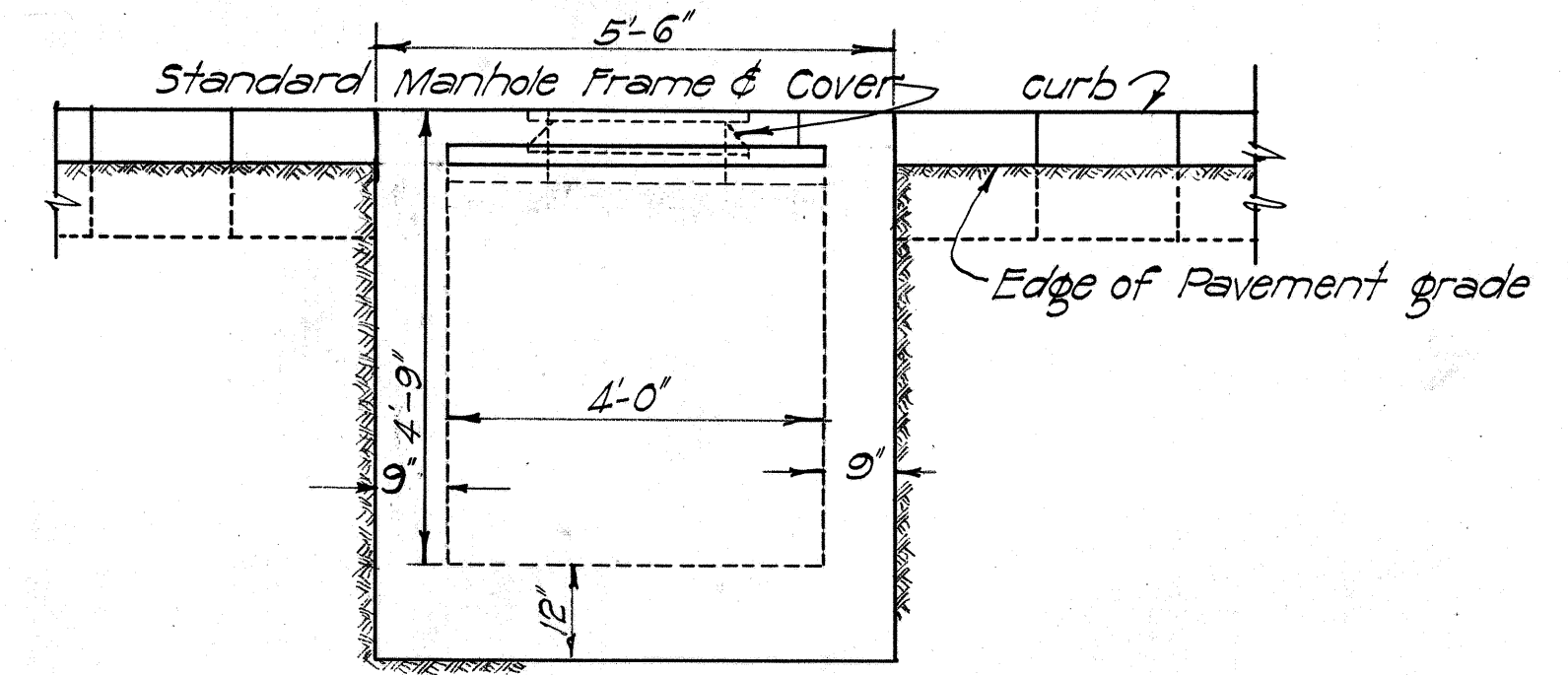
LAYOUT PLAN
Scale 1"=10'-0"



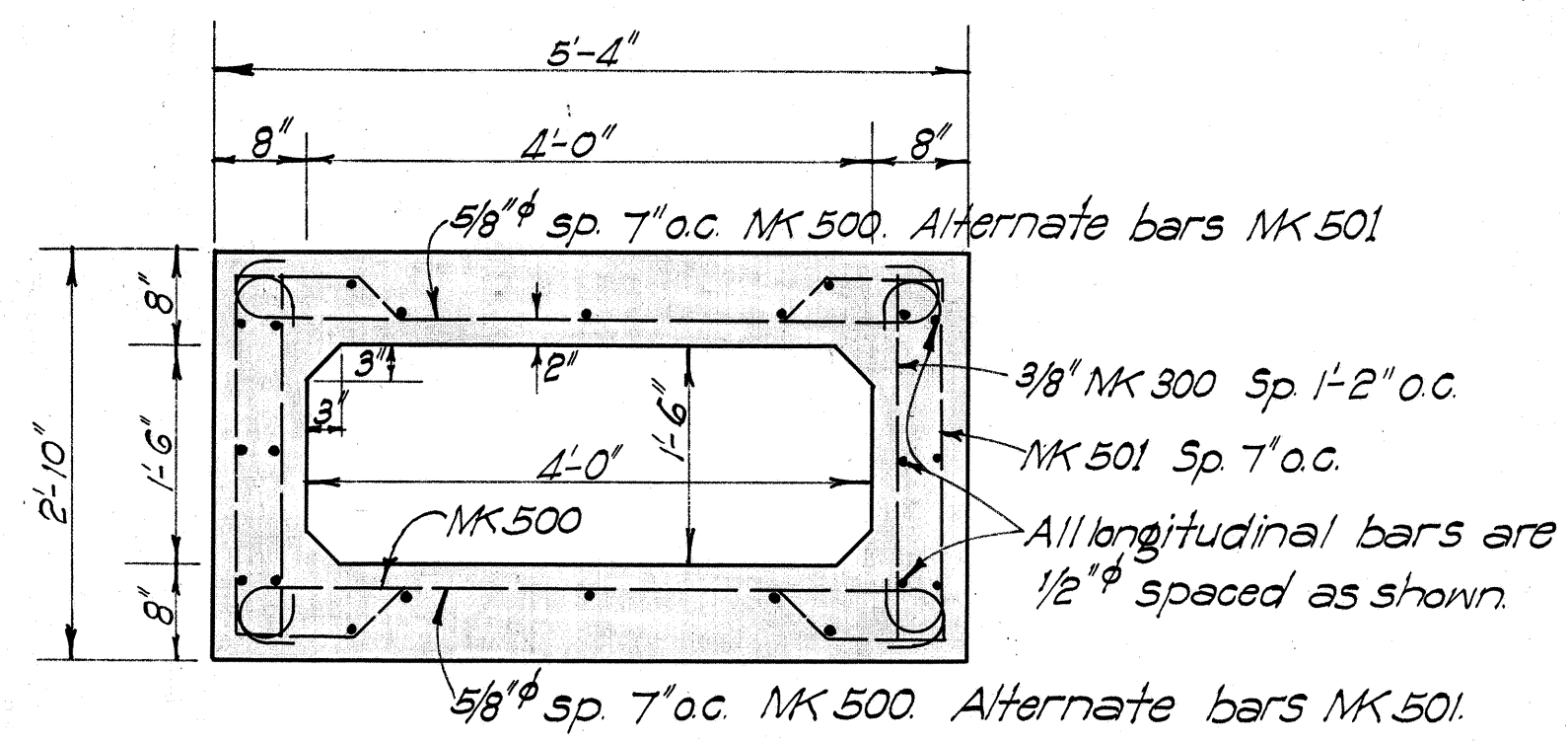
PLAN CULVERT STA. 319±75
Scale 1/2"=1'-0"



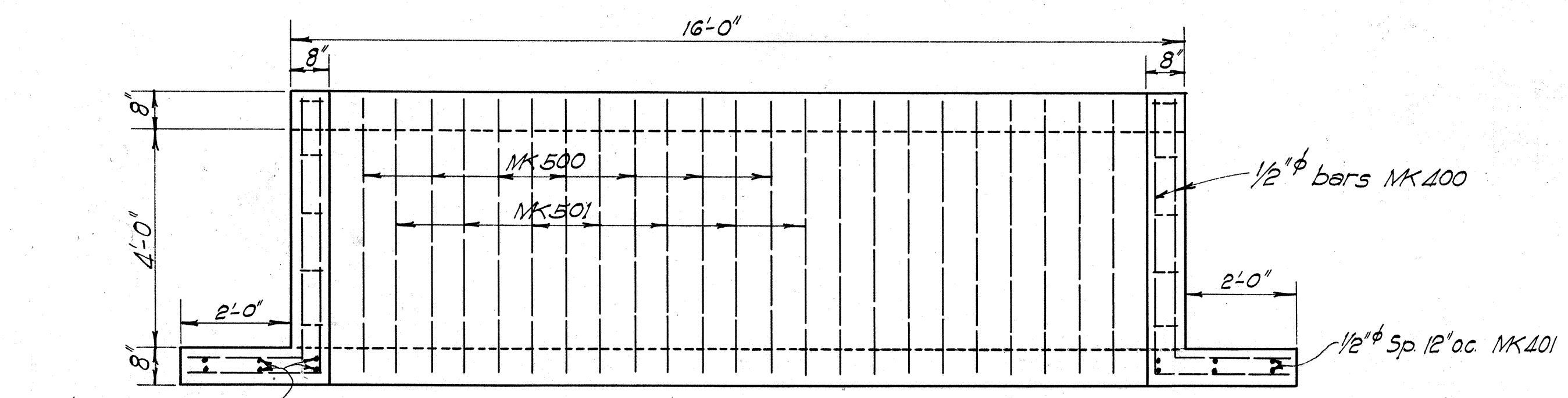
SECT. THRU HEAD CULVERT AT STA. 319±52 & 319±75
Scale 1/2"=1'-0"



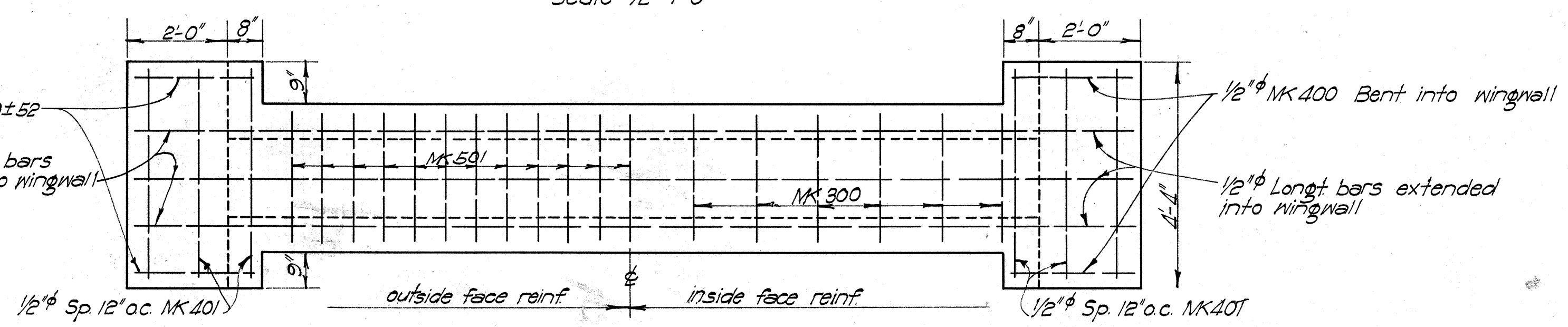
ELEV. OF CATCH BASIN STA. 305+00
Scale 1/2"=1'-0"



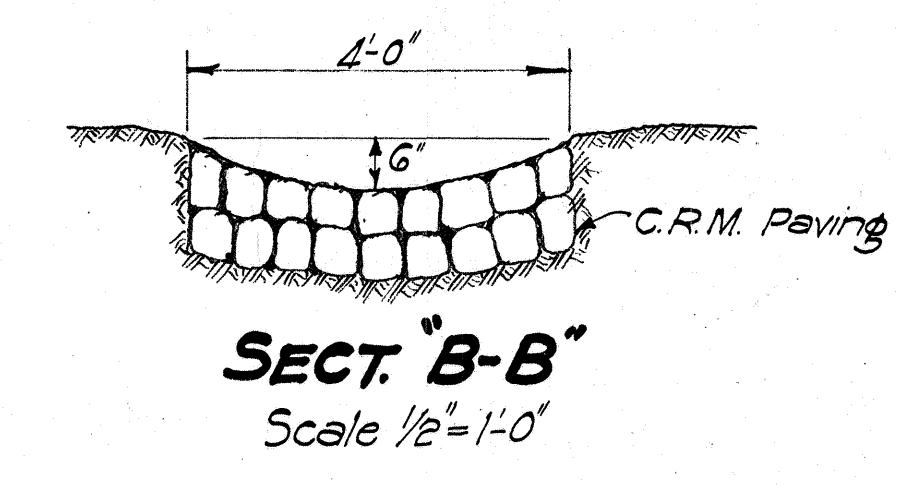
SECT. THRU TRUNK CULVERT STA. 319±52 & 319±75
Scale 3/4"=1'-0"



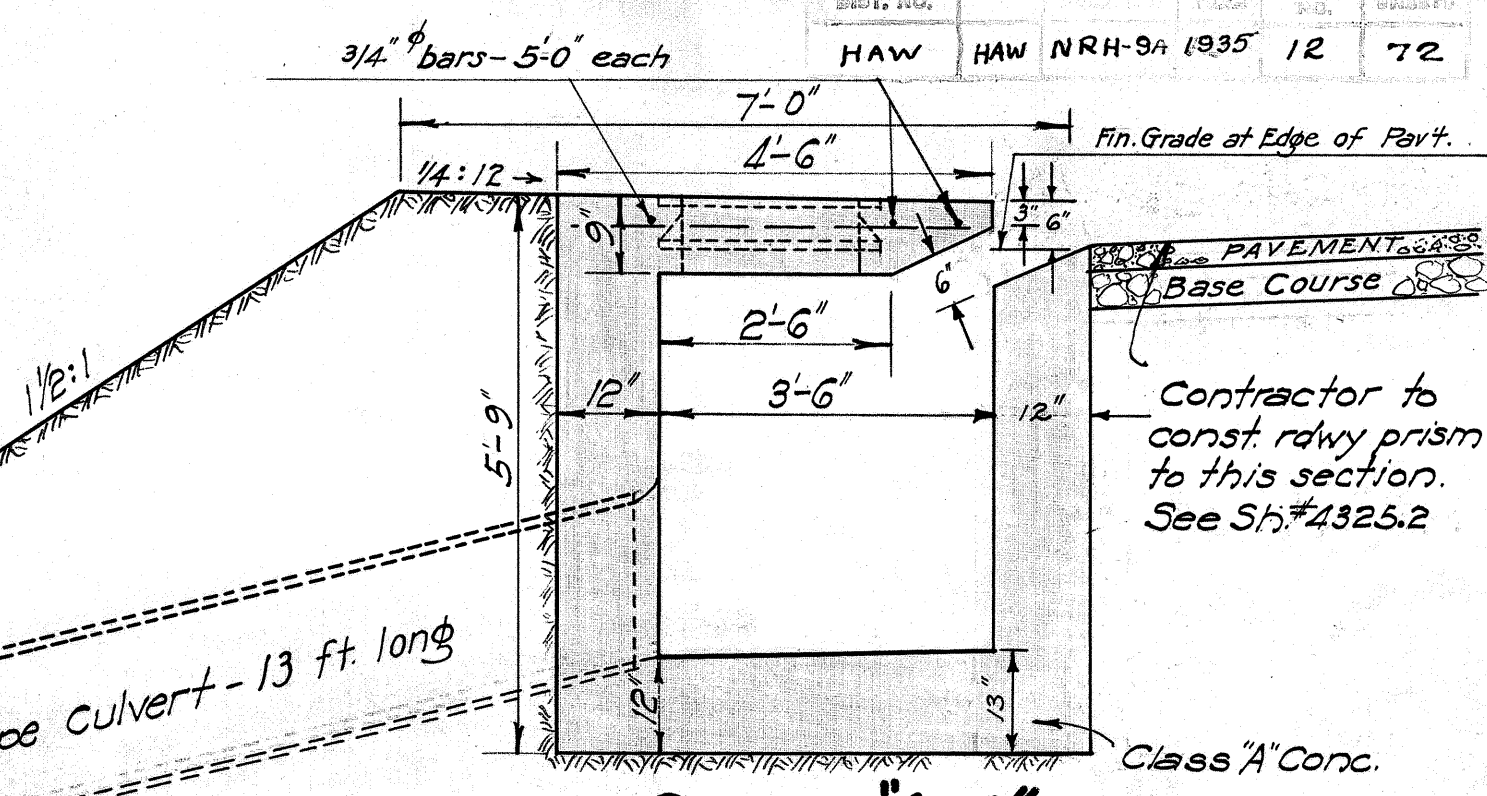
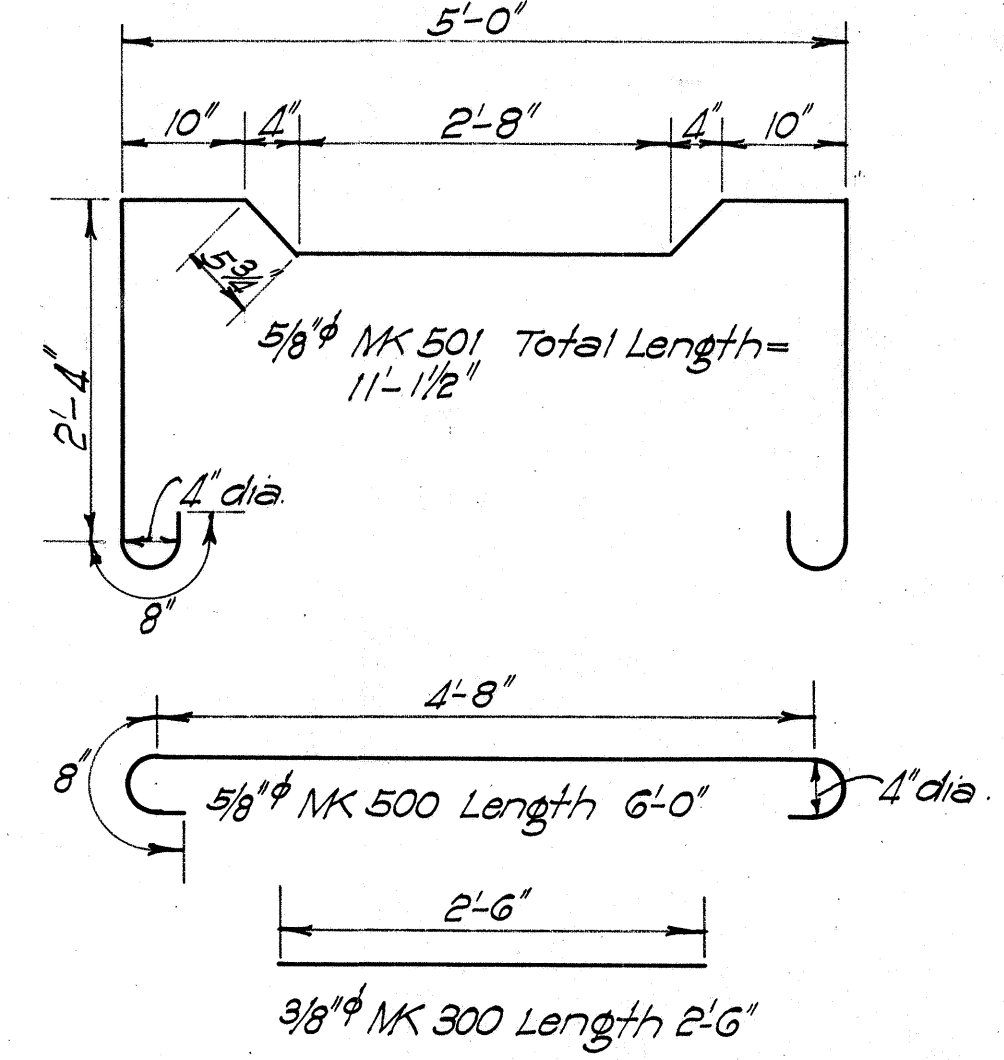
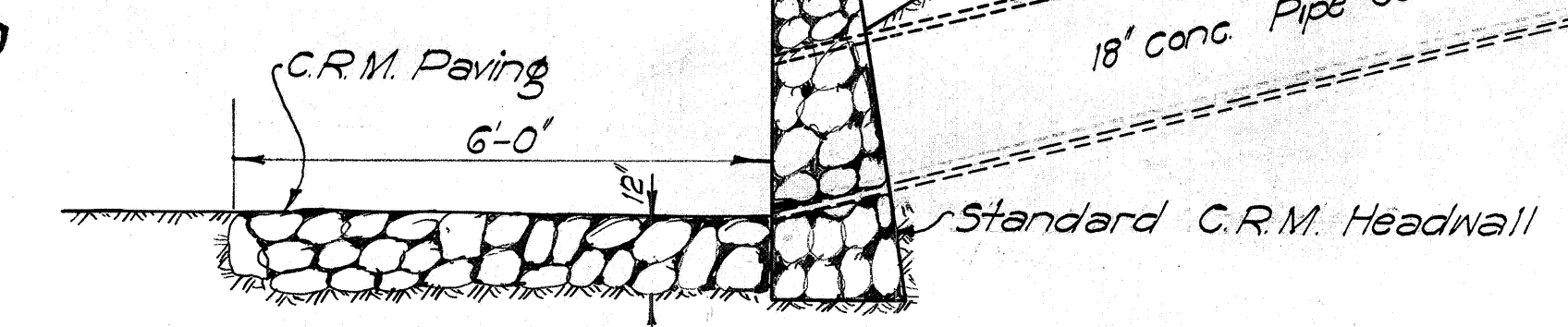
PLAN OF CULVERT STA. 319±52
Scale 1/2"=1'-0"



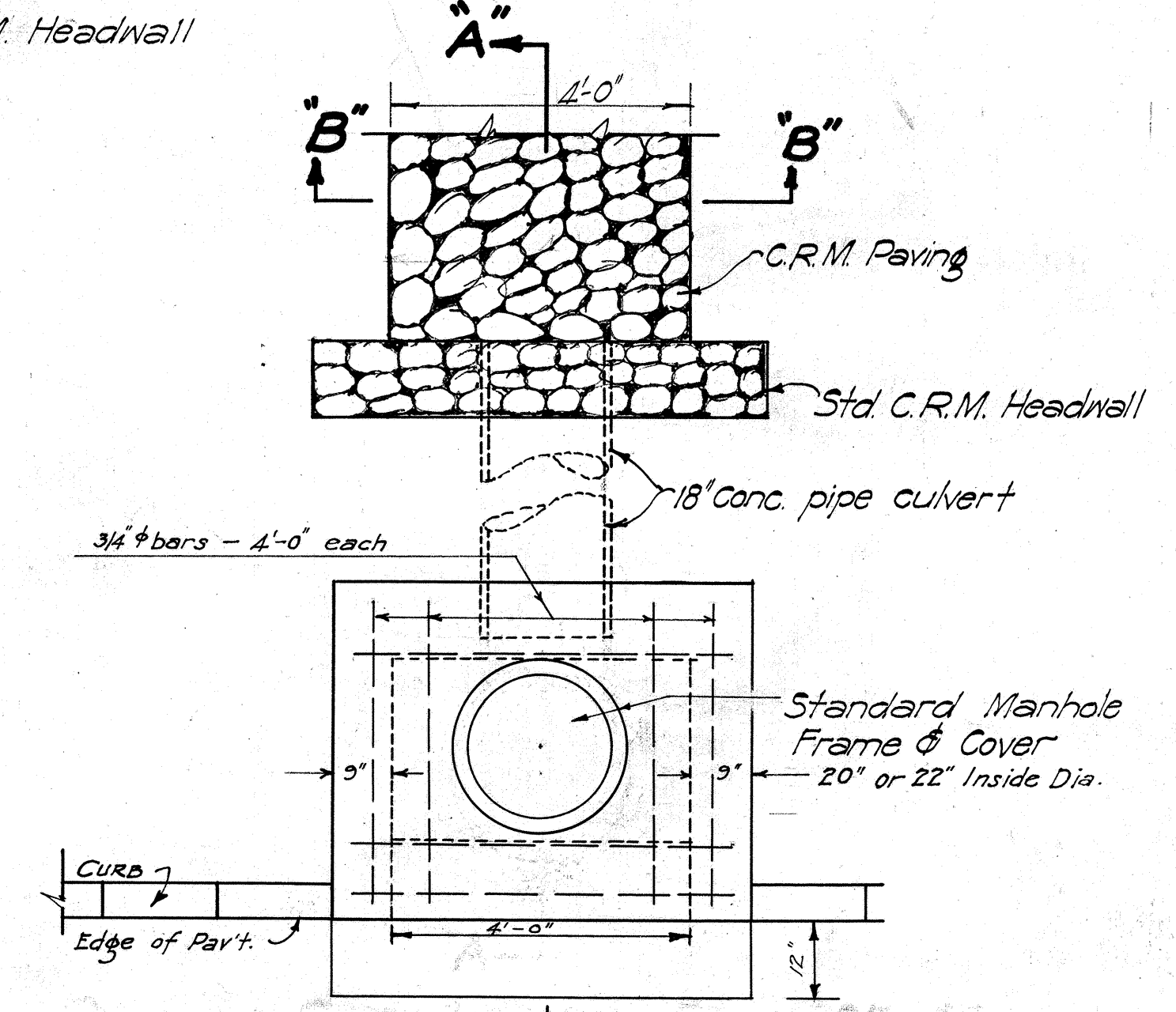
ELEV. OF CULVERT STA. 319±52
Scale 1/2"=1'-0"



SECT. 'B-B'
Scale 1/2"=1'-0"



SECT. 'A-A'
Scale 1/2"=1'-0"

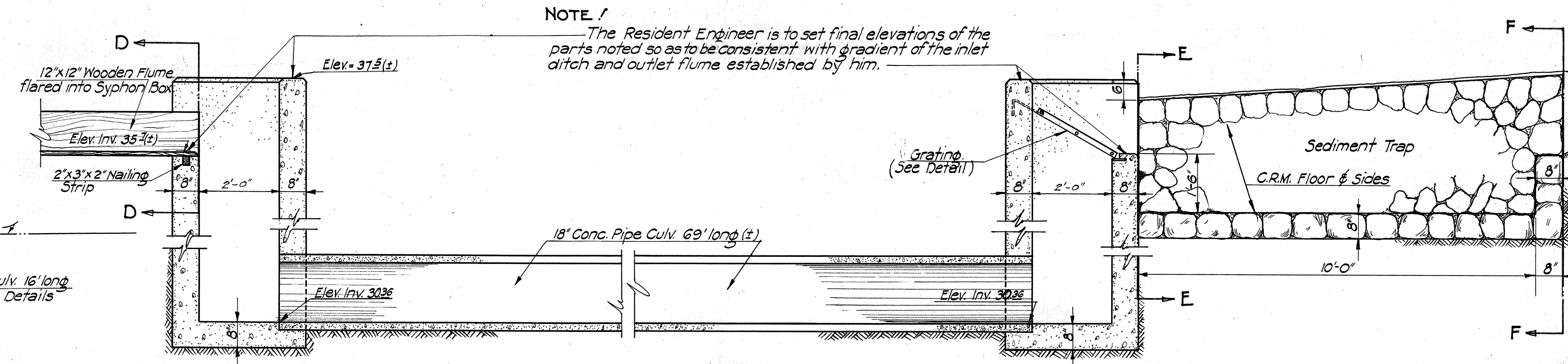
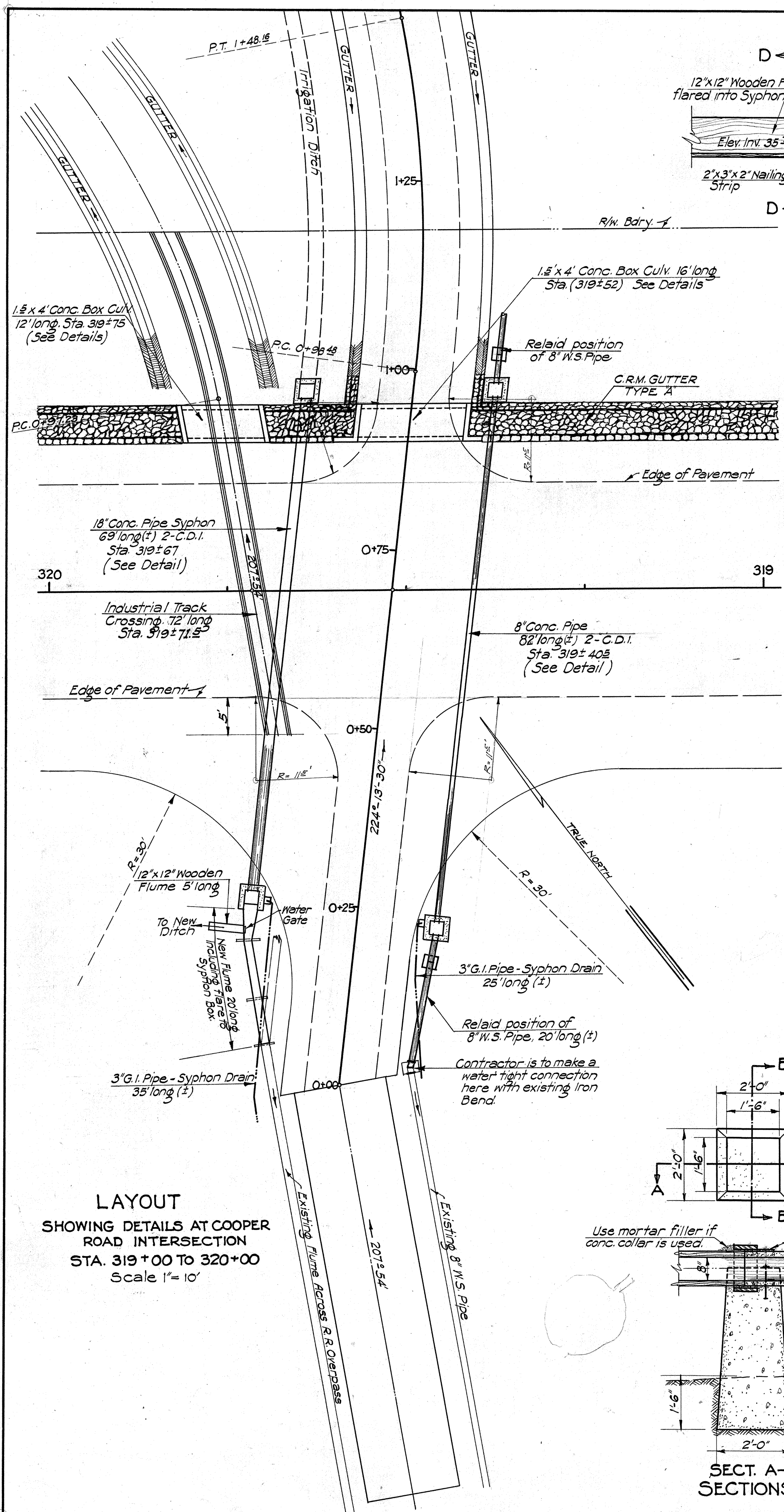


PLAN OF CATCH BASIN STA. 305±00
Scale 1/2"=1'-0"

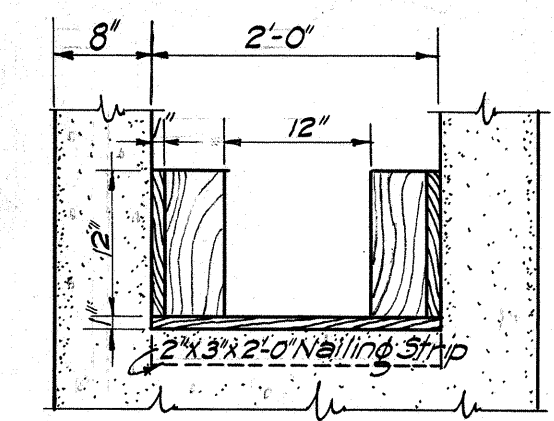
QUANTITIES

CULVERT AT STA. 319±75	
Concrete	4.53 Cu. Yds.
Reinf. steel	597 lbs.
Structure Excavation	3.11 Cu. Yds.
CULVERT AT STA. 319±52	
Concrete	6.32 Cu. Yds.
Reinf. Steel	796 lbs.
Structure Excavation	4.0 Cu. Yds.

NOTE: The Resident Engineer is to set final elevations of the parts noted so as to be consistent with gradient of the inlet ditch and outlet flume established by him.

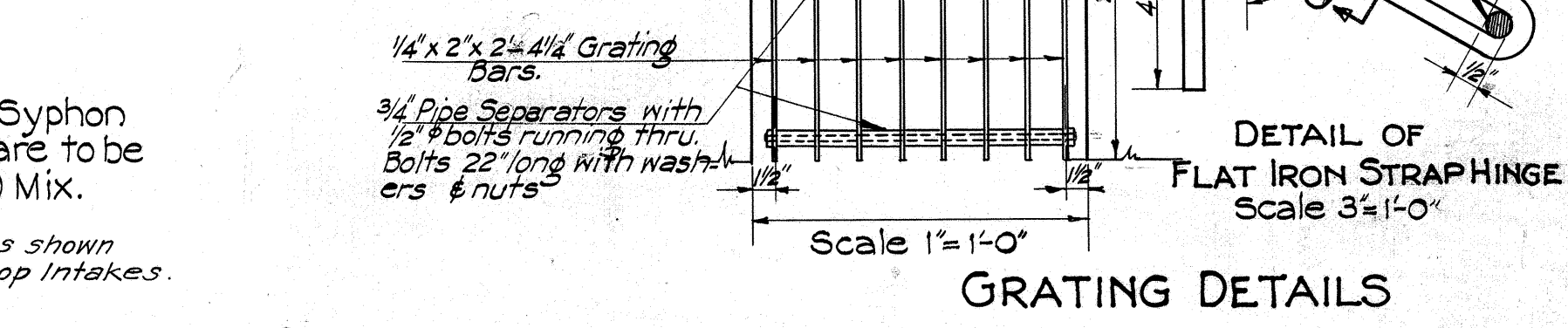


SECTION THRU 18" CONC. PIPE SYPHON
STA. 319±67
Scale 1/2"=1'-0"

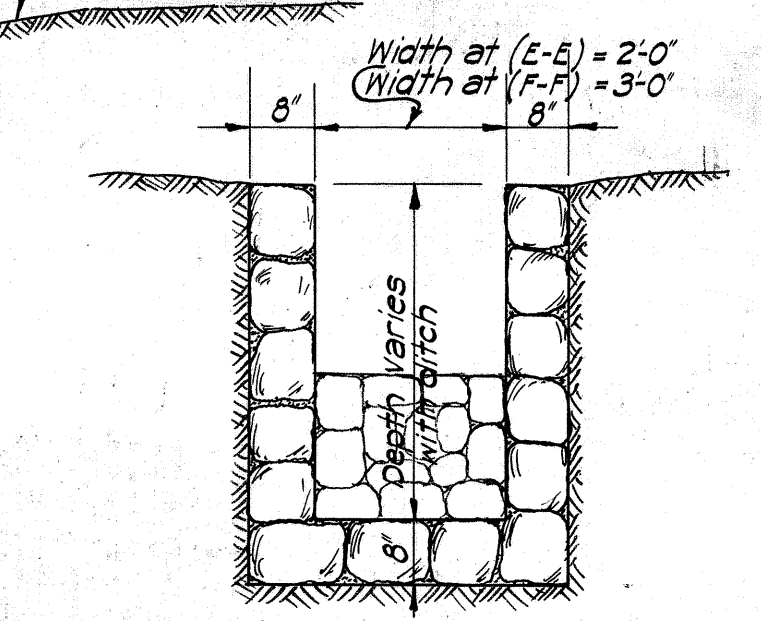


SECT. D-D
Scale 3/4"=1'-0"

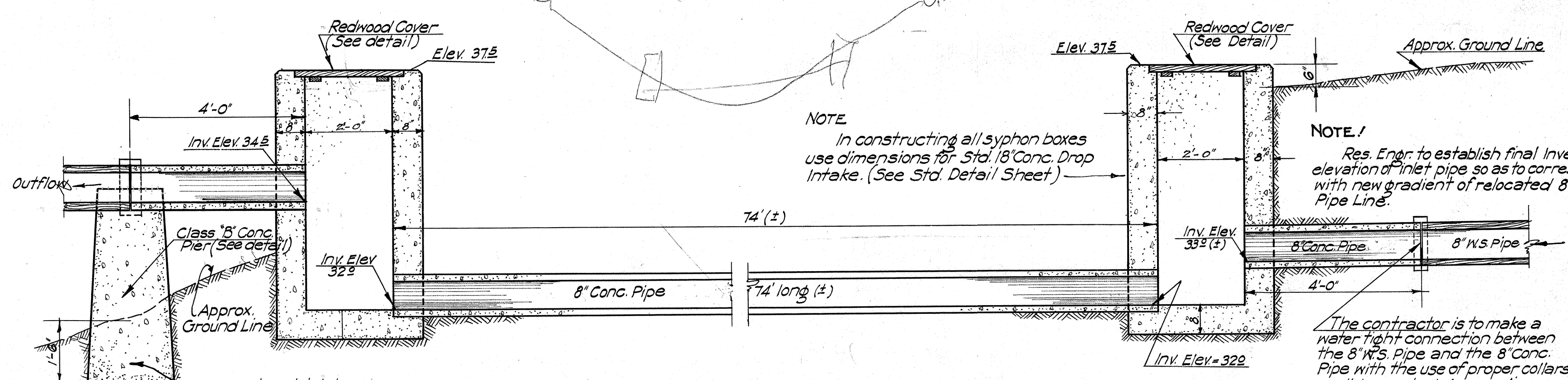
NOTE: All Concrete Drop Intakes, Syphon Boxes and Gate Valve Boxes are to be of Class "A" Concrete. (1:2:4) Mix.
Widths of all syphon boxes are as shown in the Table for Std. Conc. Drop Intakes.



GRATING DETAILS
Scale 1"=1'-0"

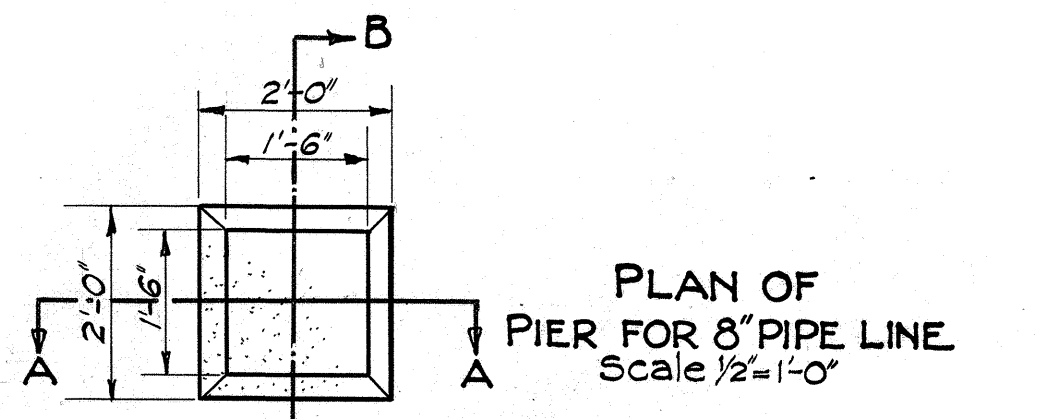


SECT. E-E & F-F
Scale 1/2"=1'-0"

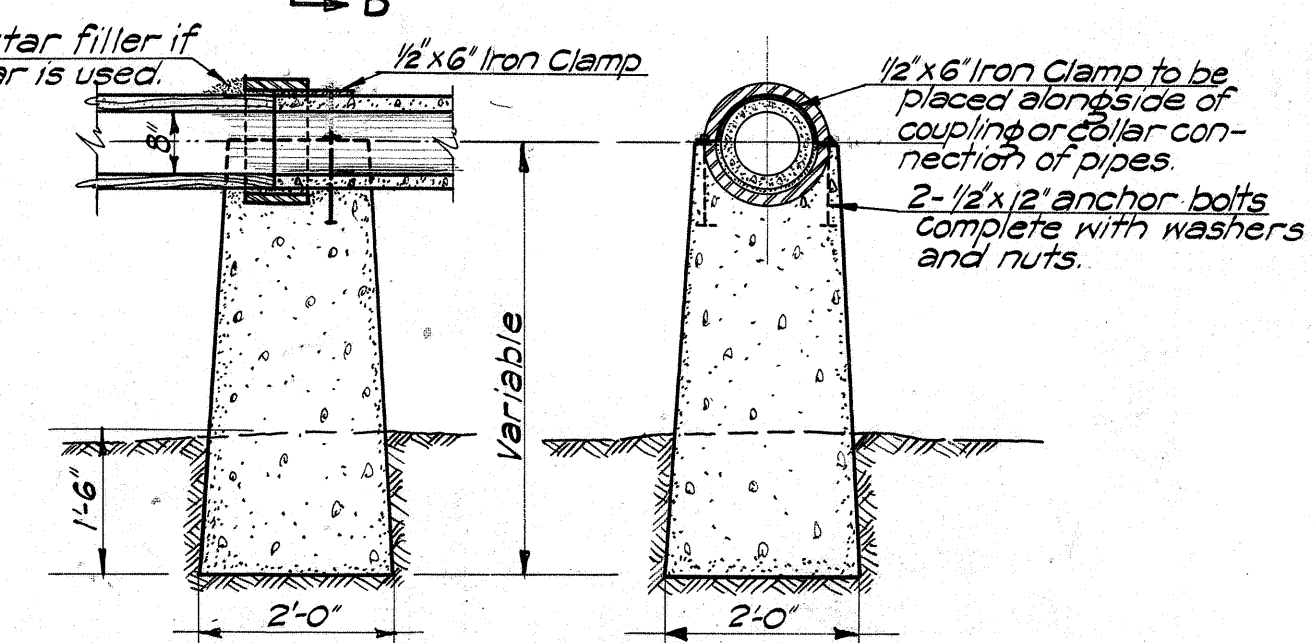


SECTION THRU 8" CONCRETE PIPE SYPHON
STA. 319 ± 40.5
Scale 1/2"=1'-0"

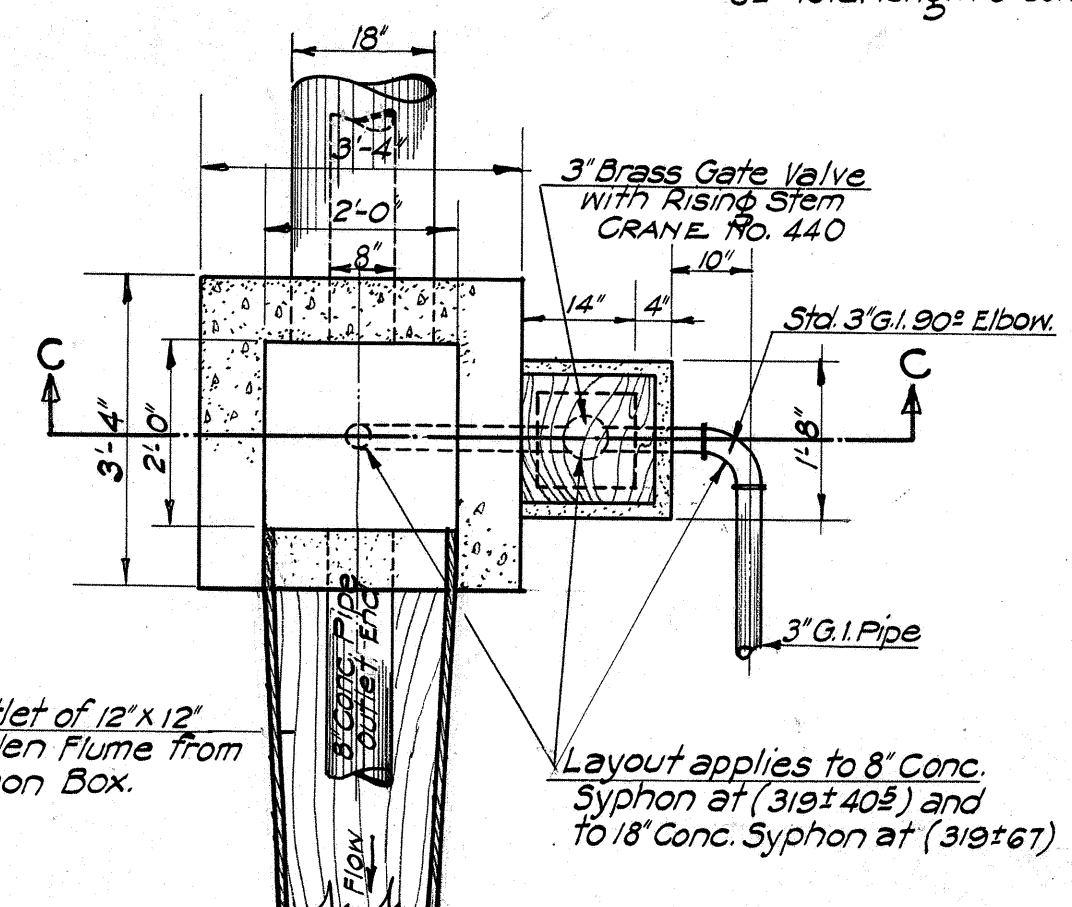
LENGTH OF 8" CONC. PIPE
Syphon Pipe = 74'
Inlet to Syphon Box = 4'
Outlet from Syphon Box = 4'
82' Total length 8" conc. pipe.



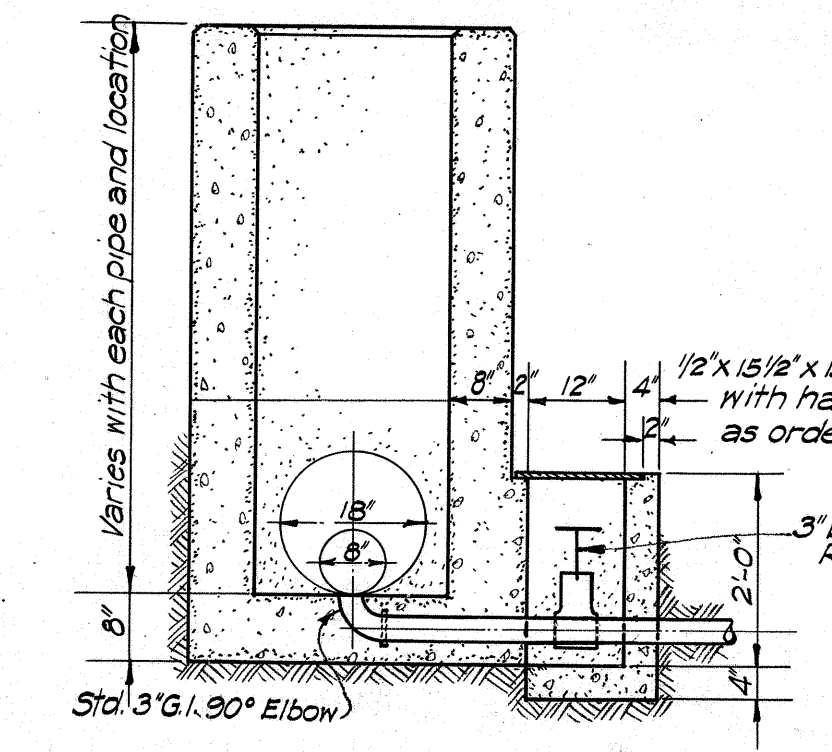
PLAN OF PIER FOR 8" PIPE LINE
Scale 1/2"=1'-0"



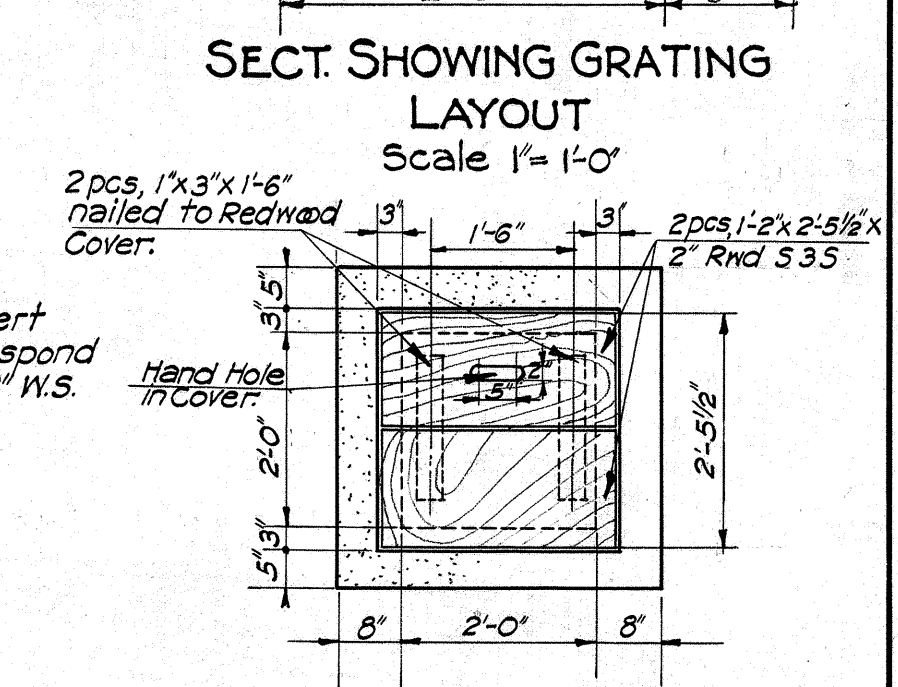
SECT. A-A
SECT. B-B
SECTIONS THRU PIER FOR PIPE LINE
Scale 1/2"=1'-0"



PLAN
Showing 3" Syphon-Drain Pipe & Fittings, 3" Gate Valve & Gate Valve Box at Outlet Box of Syphon
Scale 1/2"=1'-0"

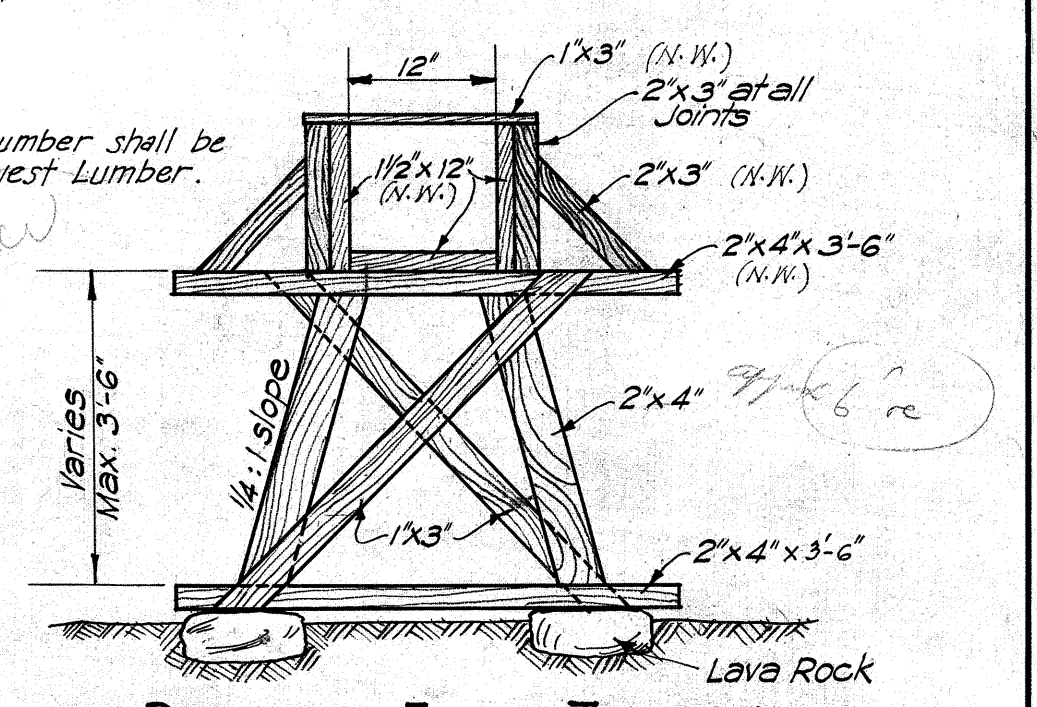


SECT. C-C
Scale 1/2"=1'-0"



SECT. SHOWING GRATING LAYOUT
Scale 1"=1'-0"

PLAN OF COVER FOR SYPHON BOXES
Scale 1/2"=1'-0"



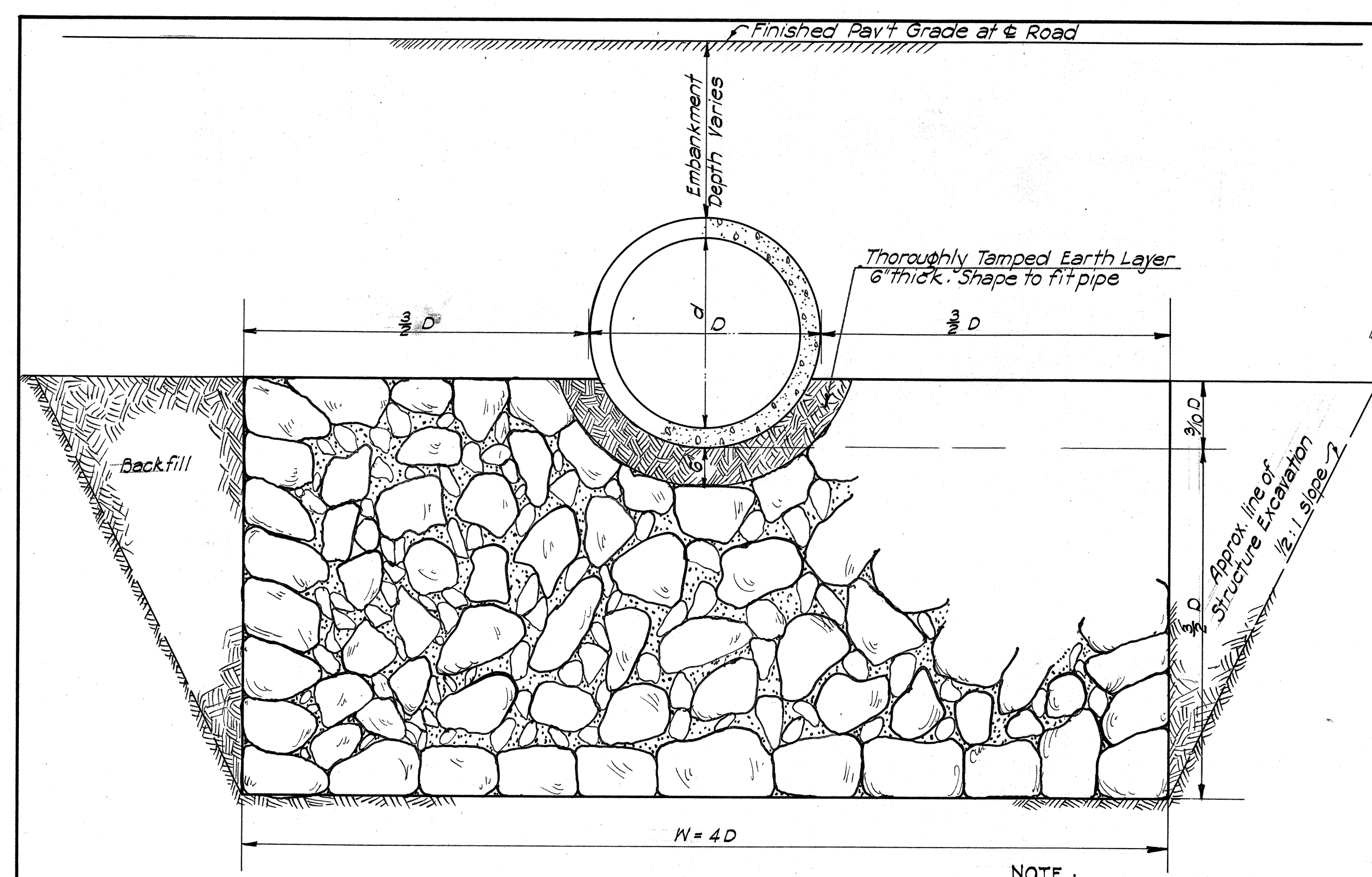
DETAIL OF FLUME TRESTLE
Scale 3/4"=1'-0"

LAYOUT
SHOWING DETAILS AT COOPER ROAD INTERSECTION
STA. 319+00 TO 320+00
Scale 1"=10'

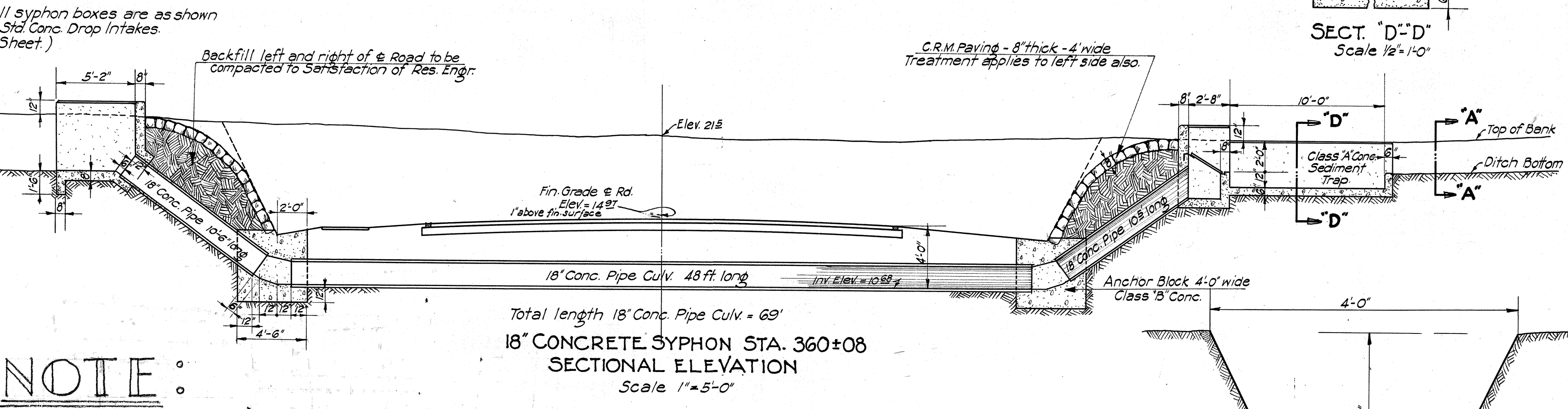
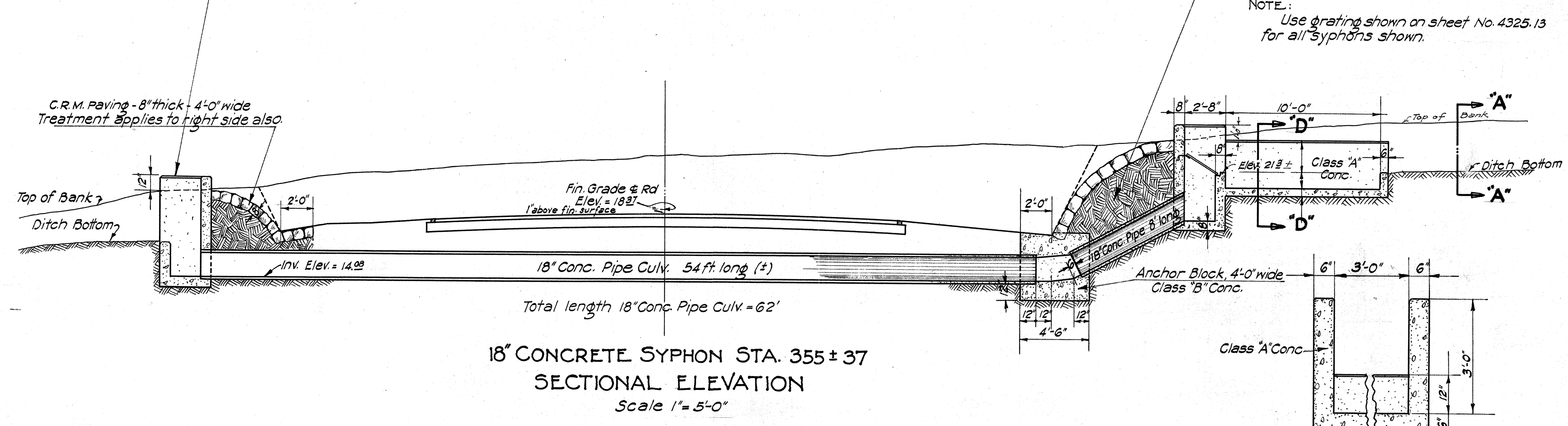
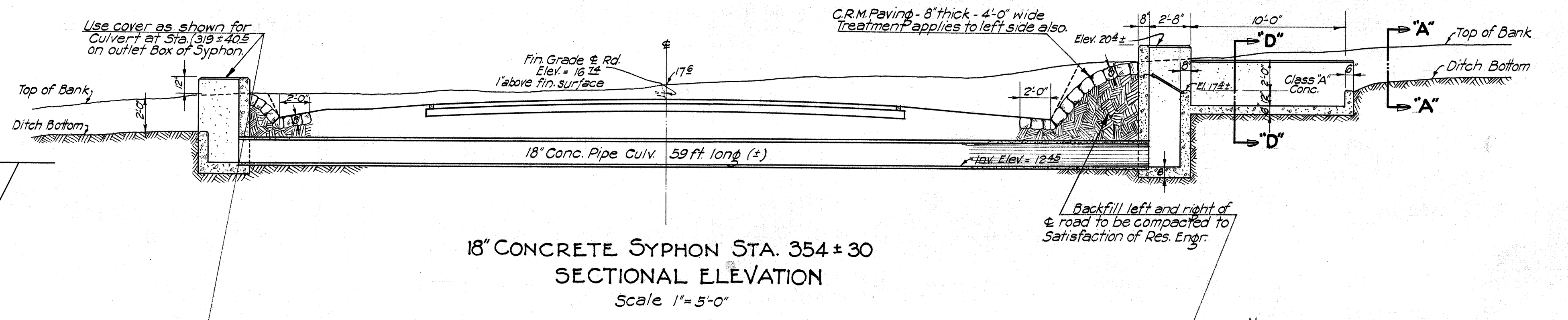
DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
8" SYPHON - STA. 319 ± 40.5
18" SYPHON - STA. 319 ± 67
COOPER RD. INTERSECTION STA. 319 - 320
INDUSTRIAL TRACK CROSSING STA. 319 ± 71.5
KAM. HIGHWAY. U.S.P.W. PROJ. NO. N.R.H. (9-C) 1935
SHEET OF SHEET

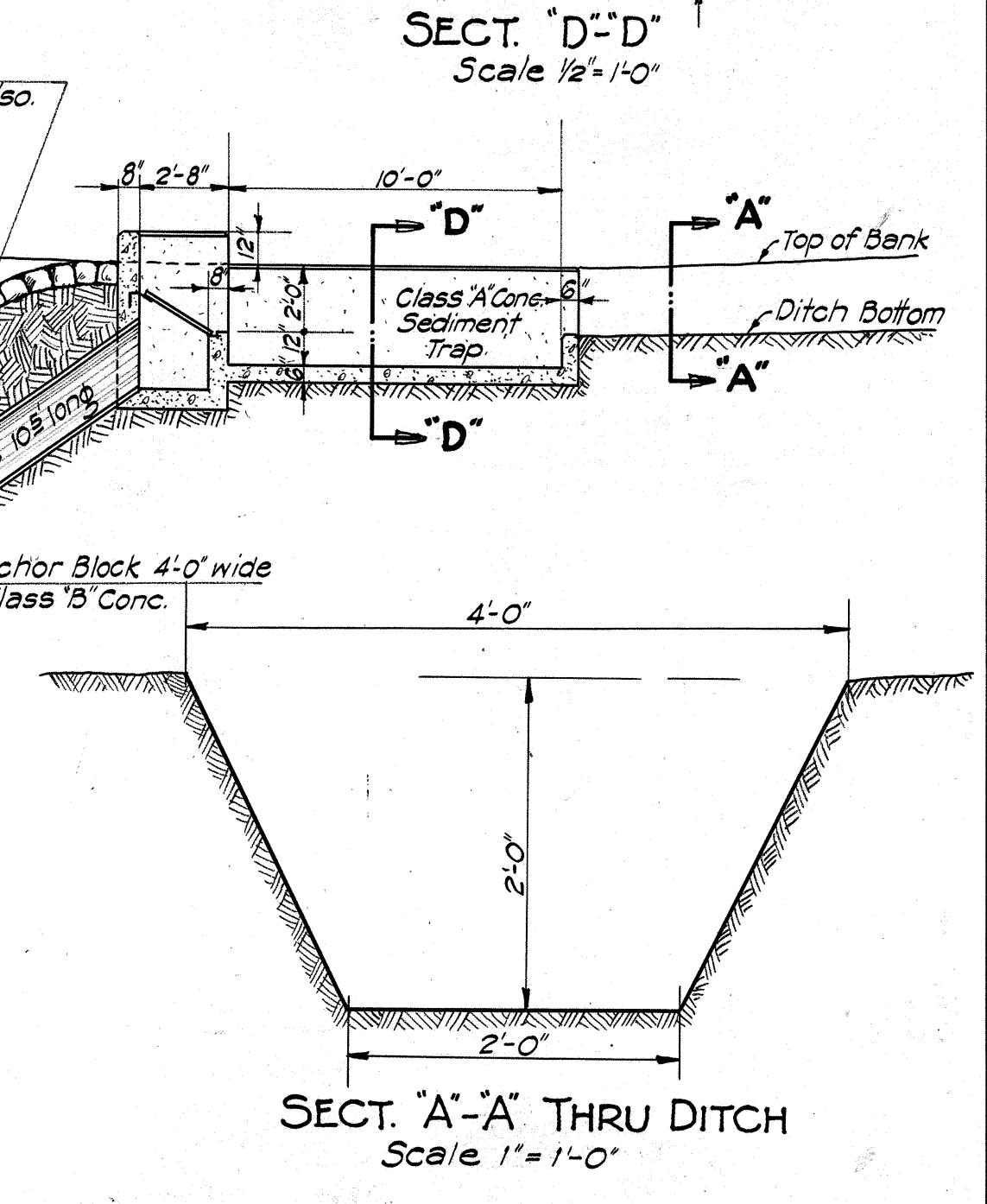
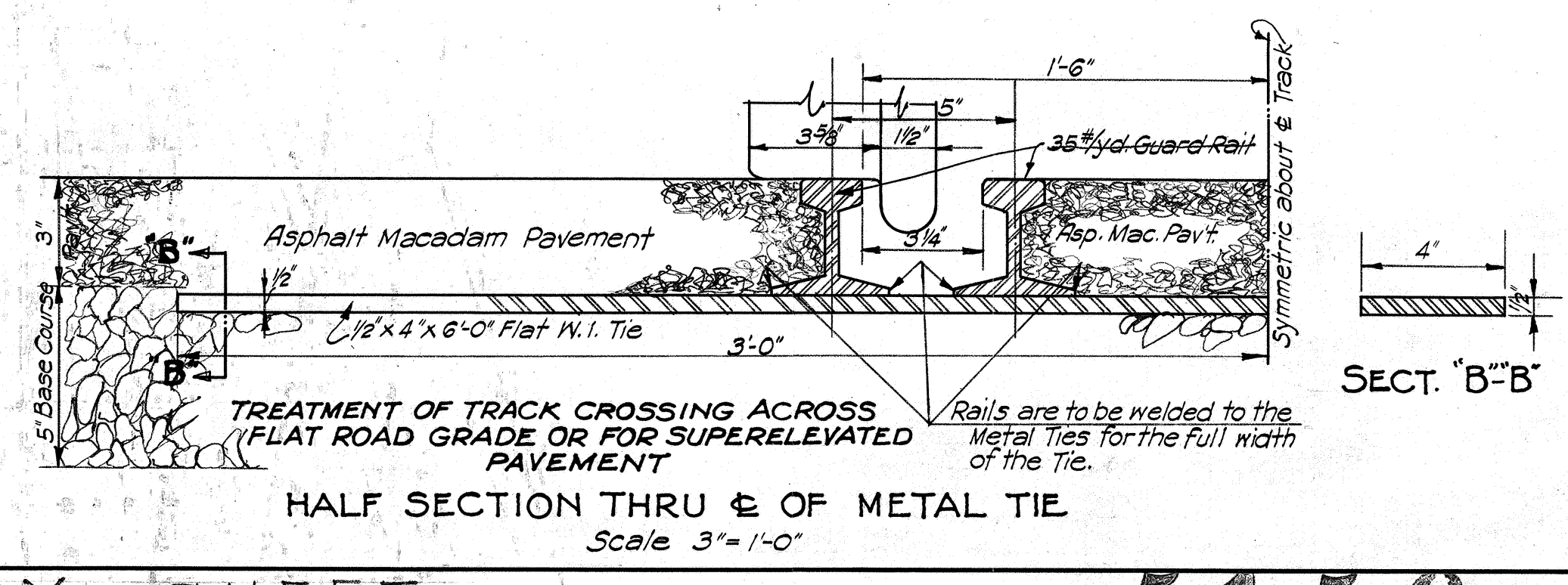
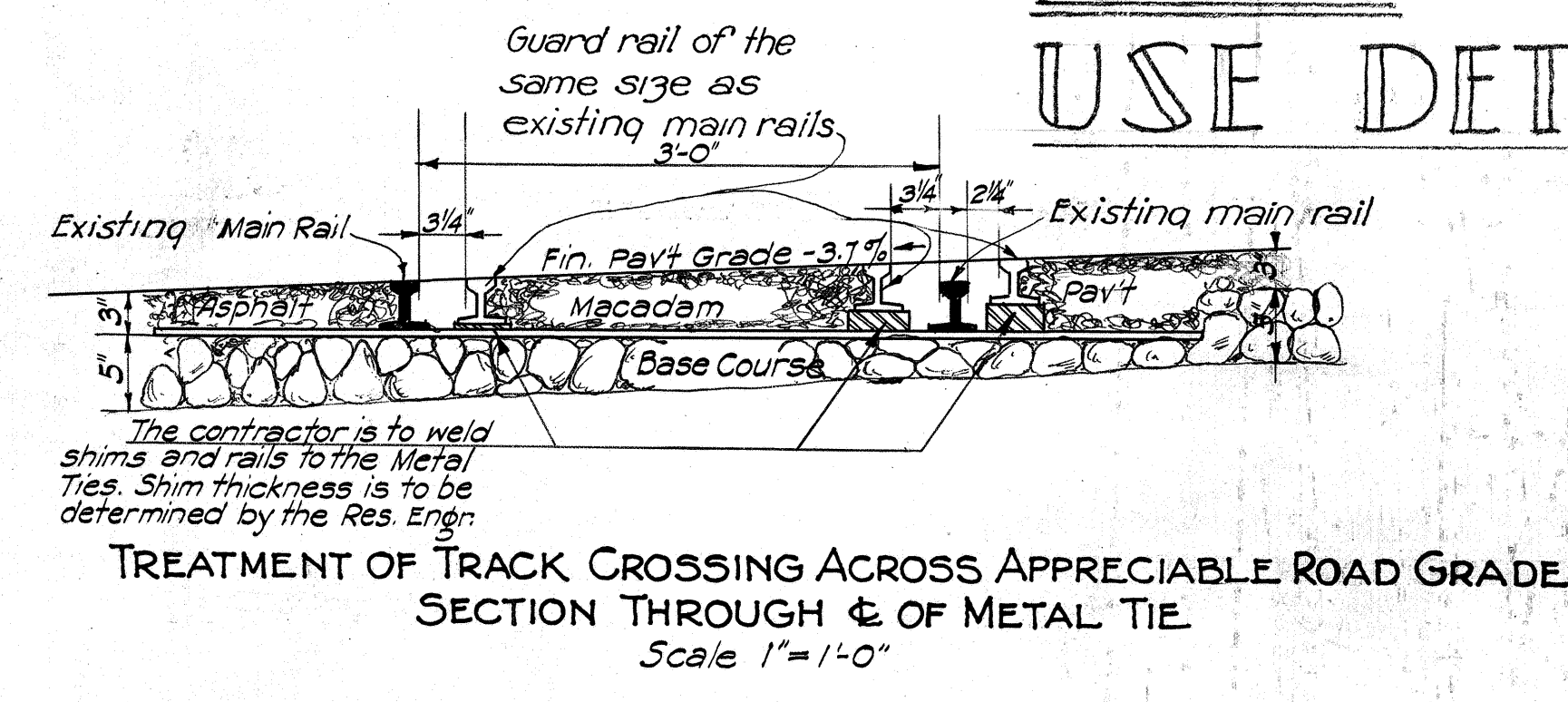
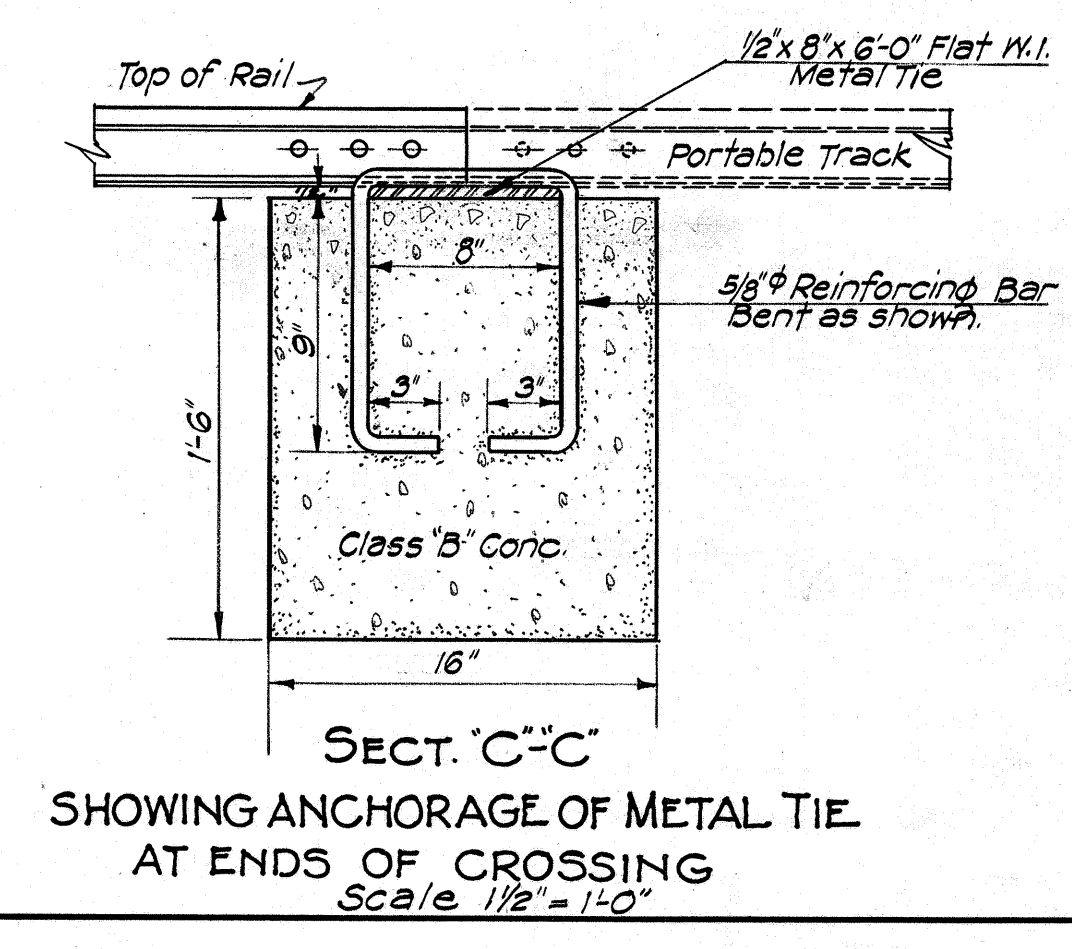
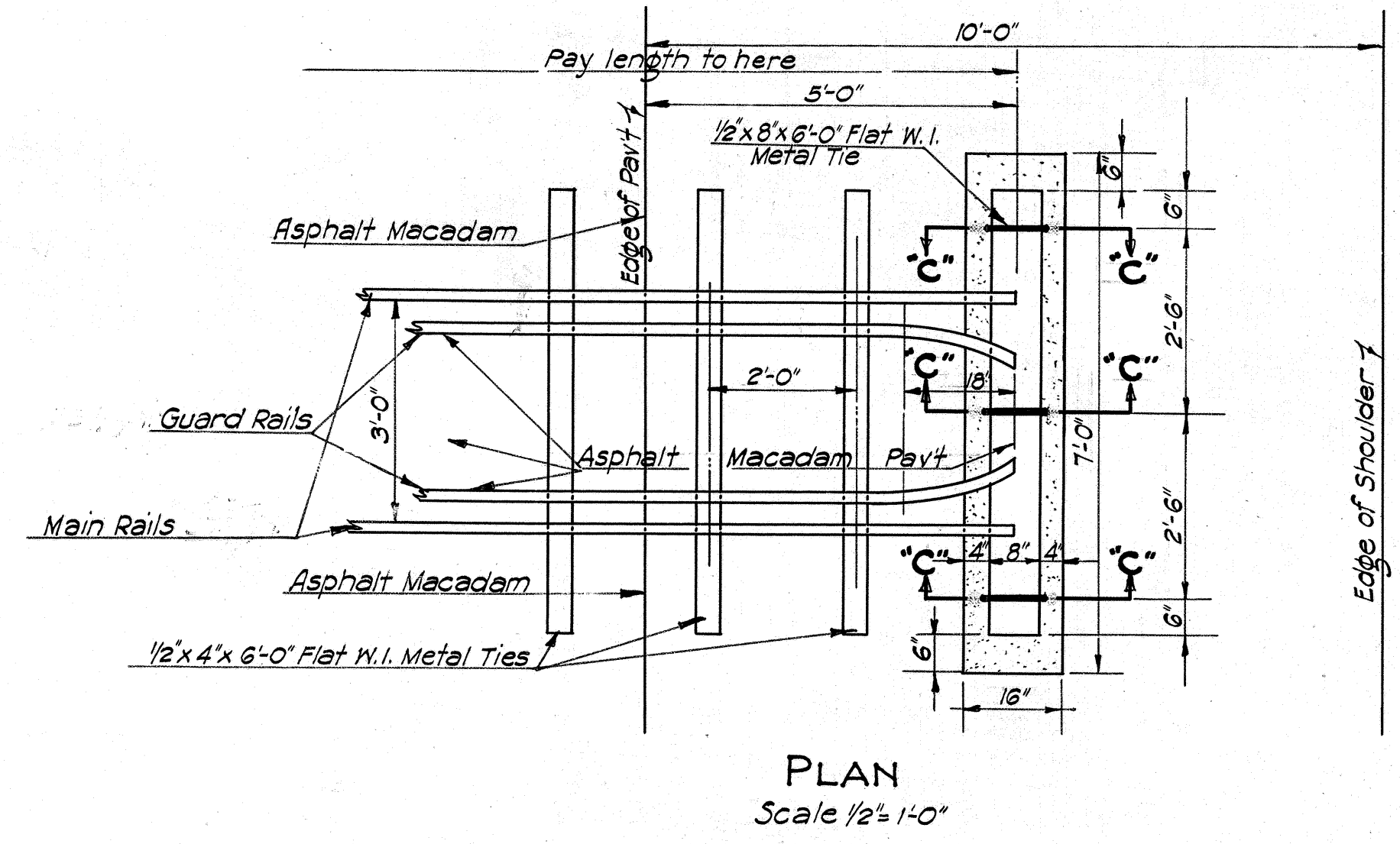
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAW.	HAW.	N.R.H. 9-C	1935	12	72



SECTION SHOWING
SPECIAL ROCK FILL CRADLE
FOR
CULVERTS THROUGH SOFT YIELDING FOUNDATION.
Scale $\frac{3}{4}$ " = 1'-0"



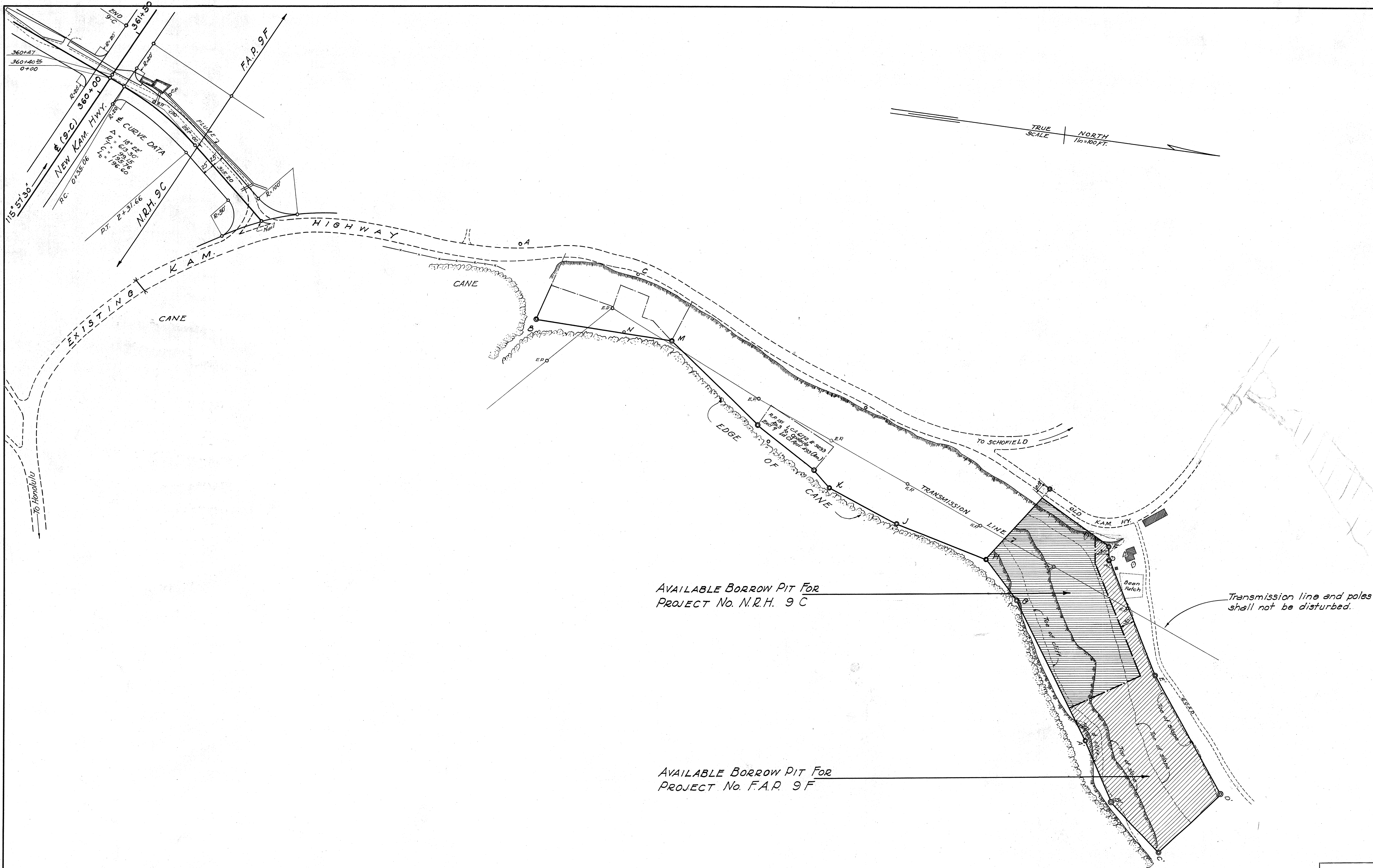
NOTE:
USE DETAILS WHERE APPLICABLE



TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
DETAILS-INDUSTRIAL TRACK CROSSINGS
SPECIAL ROCK FILL CRADLE FOR CULVT.
18\"/>

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	N.R.H. 9C	1935	15	72

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	F.A.P. 9F	1935	6A	42



DATE	Dec. 23, 1935
SURVEY PLOTTED BY	Q. M. H.
DESIGNED BY	E. W. C.
DRAWN BY	H. H. C.
CHECKED BY	
ORIGINAL PLAN	No. 1
NOTE BOOK	No. 1

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

**PLAN SHOWING
LOCATION OF AVAILABLE PIT
FROM WHICH
SPECIAL BORROW
MAY BE SECURED**