

B.M. 139.23 R.R. Spike E. side Large Hedge
Tree & N.W. corner Hillside & 3rd St.

B.M. 144.02 S.E. Corner Conc. Base to Conoco
Sign on S.W. Corner Hillside & Central

Scale: 1"=10'

NOTE: 16" water pipe to run thru wing walls (west side)
6" water & 4" gas pipes to be installed between
inlets & hubguard on west side prior to walk pour.

STA. 22+78.00 & 3'-8" x 6'
REINF. CONC. BOX CULVERT

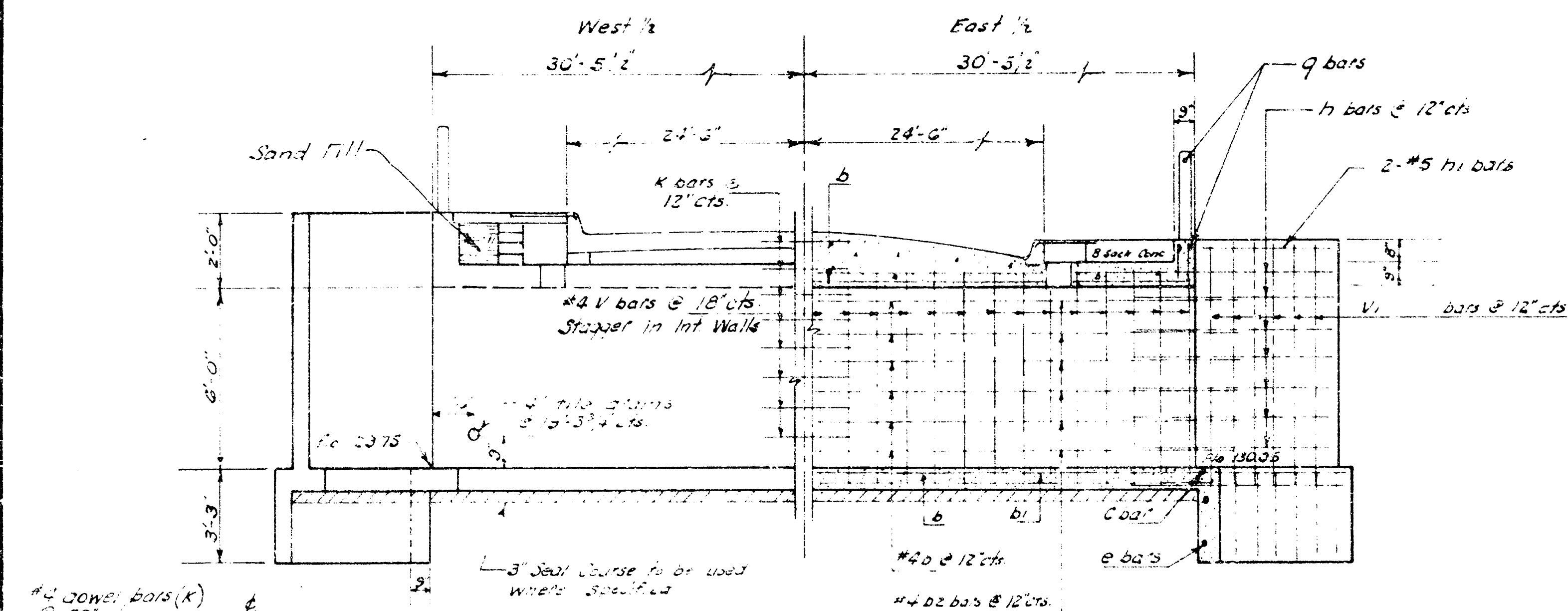
P.O.T. (Iron in Thimble)
Sta. 21+50.70

NOTE: Bell Tel. Conduit (6-1 1/2" pipes) to
be installed between inlets & hubguard
on East side prior to walk pour.

NOTE: Trees, stumps, brush & rip-rap to
be removed by Culvert Contractor and are
incidental to excavation. No pay items.

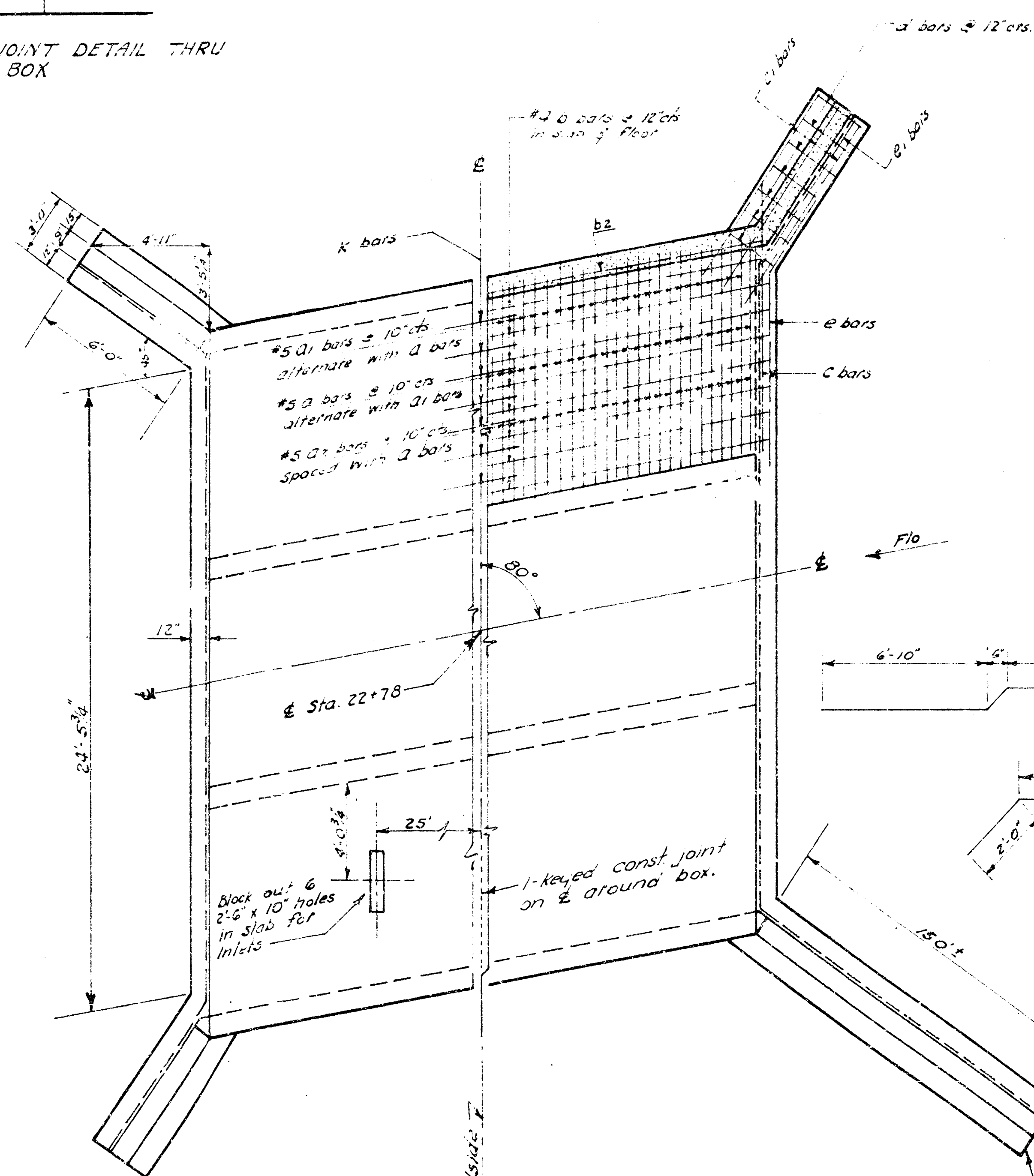
HILLSIDE AVENUE
FROM N.L. DOUGLAS TO S.L. CENTRAL
3'-8" x 6' R.C.B.C.
B.E. SMITH CITY ENGINEER
CITY OF WICHITA, KANSAS
Sept. 1965 Proj. No. C15-52

NOTE: Inlets & Walk on W's to be constructed after paving slab is in. (W's)
Const. 6" conc walls under walk @ ends on W's to trap sand fill.
Pavement on W's to be const. by paving Contractor.

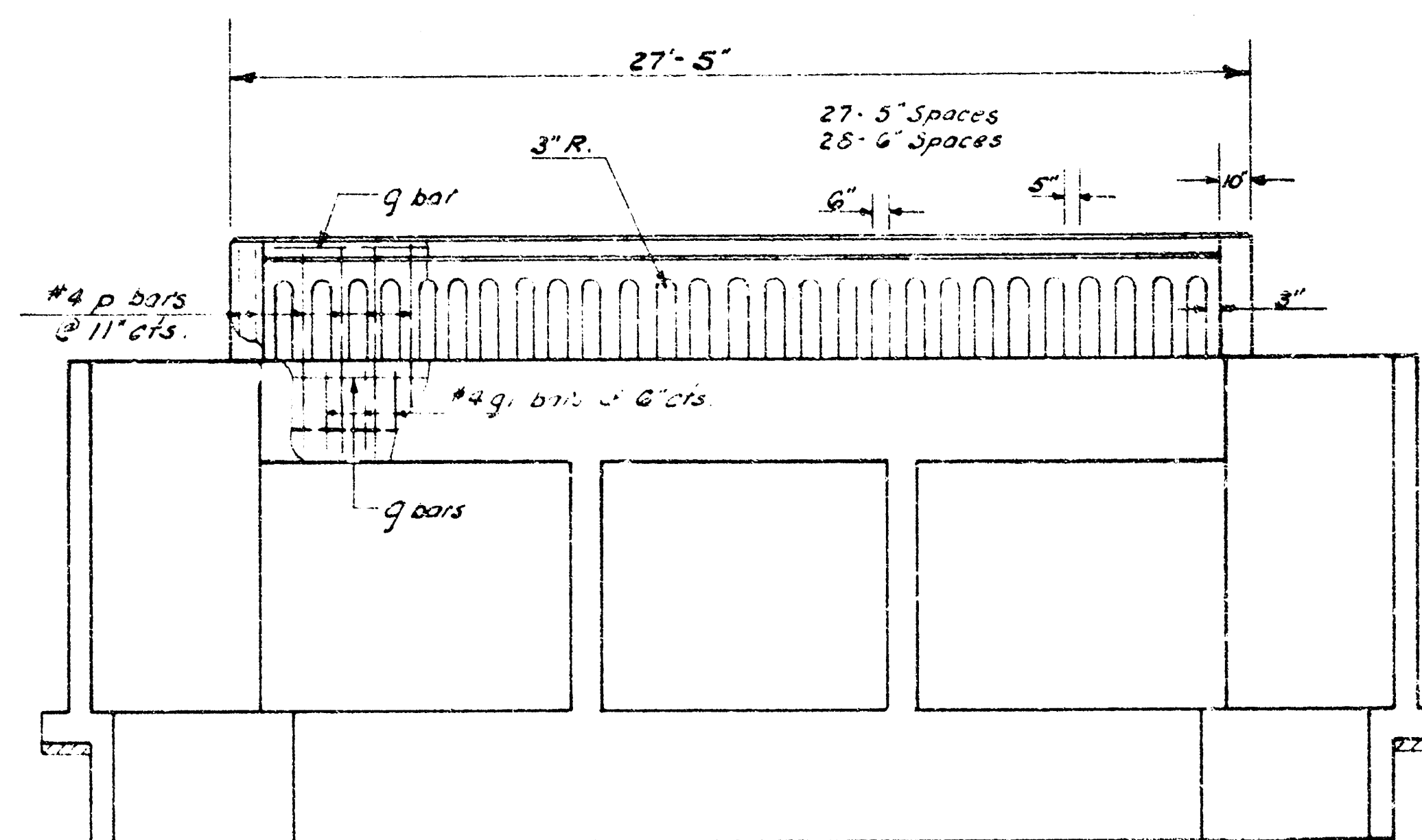


ELEVATION & SECTION

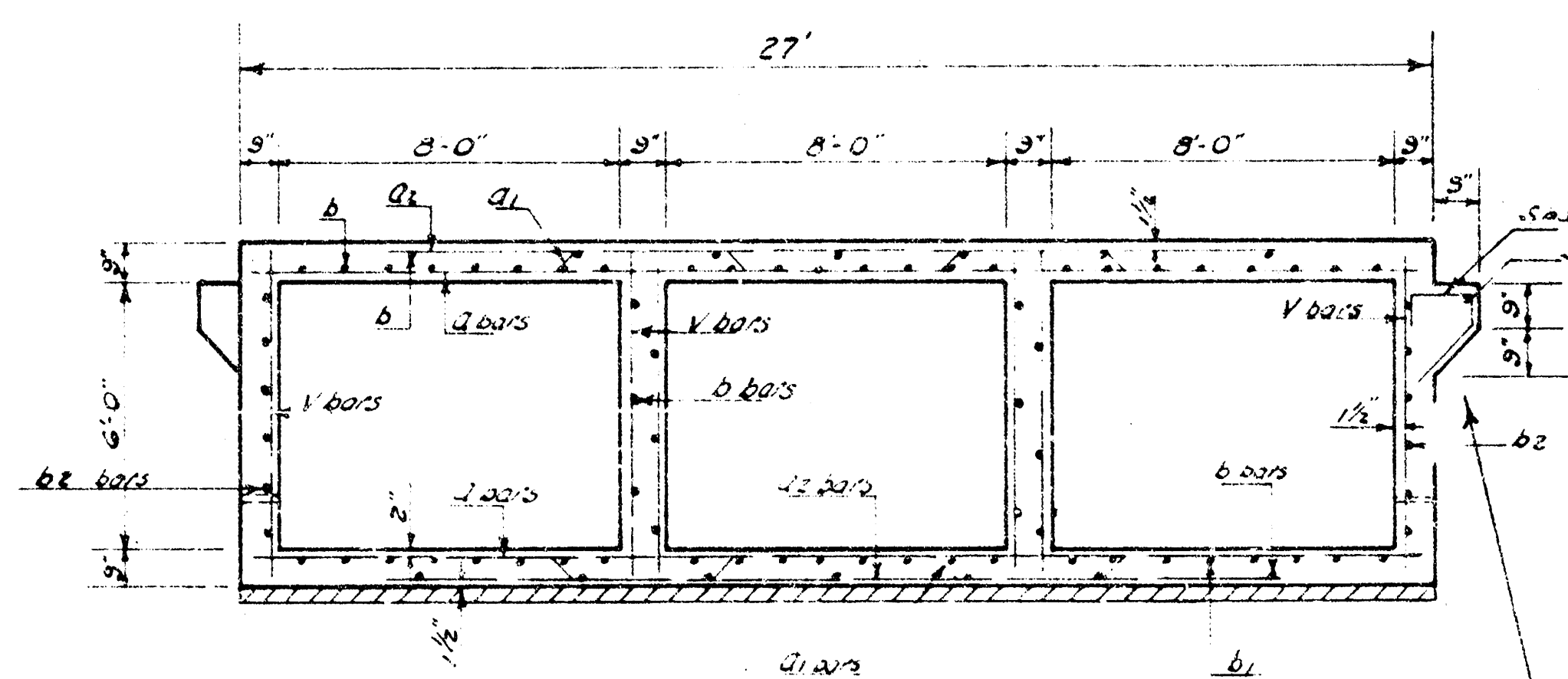
KEYED JOINT DETAIL THRU TOP OF BOX



PLAN & SECTION

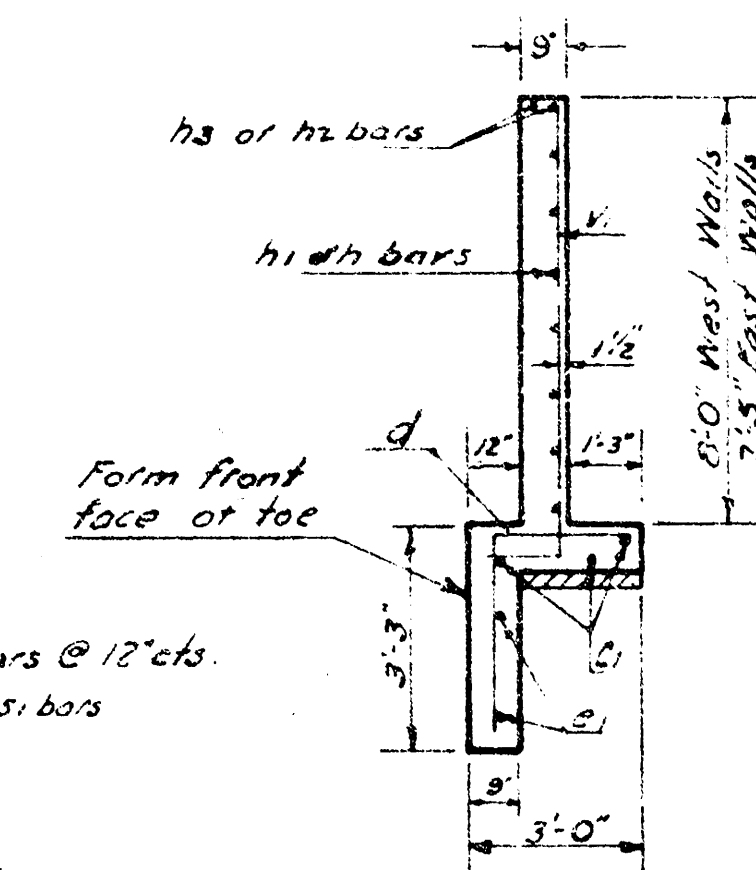


END ELEVATION



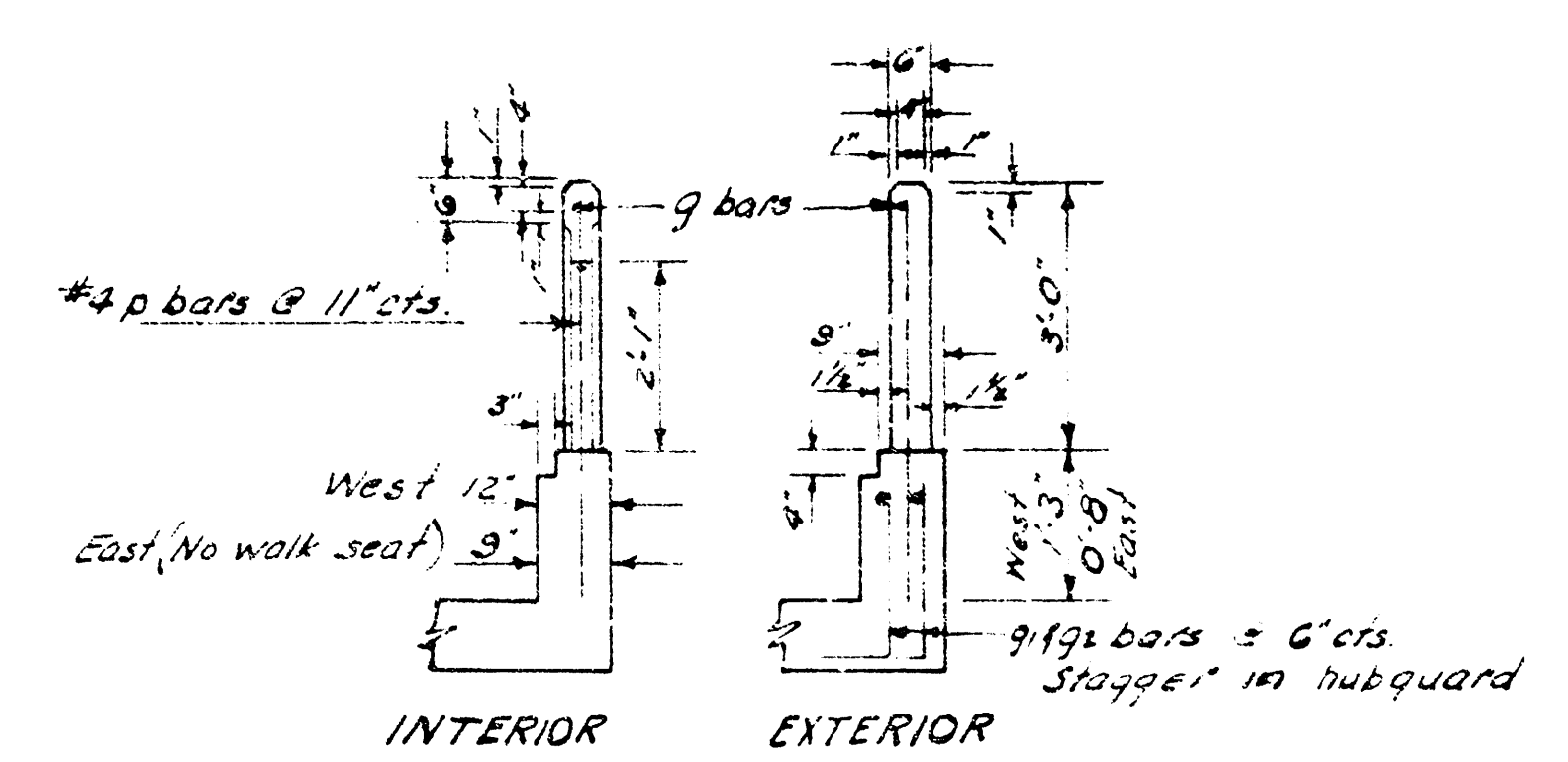
SECTION THRU BOX

Const. Pavement Seat on East 1/2 box only.
Slope on straight grade from top of box @ E to 3" below top of box 24'-6" East of E.



SECTION THRU WING

WALK SEAT



(West) HUBGUARD & HANDRAIL DETAIL

Scale: 1/8" = 1'

BILL OF MATERIALS		
Item	Quantity	Unit
Class A-AE Concrete	160.5	Cu Yds
Reinforcing Steel	17,980	Lbs
Concrete Handrail	54.8	Lin Ft
Hand Excavation	60	Cu Yds
Concrete Culvert Removed	1	Each
2' x 5' Inlets	6	Each
8" Sack Conc for Walk	4.0	Cu Yds
Common Excavation	181.0	Cu Yds
Compacted Fill	176.0	Cu Yds
Class A Concrete (seal course)	16.0	Cu Yds
Pavement Removed	180.0	Sq Yds
Walk Removed	320.0	Sq Ft

GENERAL NOTES:

Class A-AE concrete to be used in the structure.
Class D Concrete is to be used in the handrails & posts.
Seal Course consisting of Class A concrete is to be constructed only where specified by the Engineer. No reinforcing steel shall be placed until the Seal Course has gained sufficient strength to permit working upon it without injury.
Bevel all exposed edges with a 3/4" triangular molding.
Course aggregate to be deposited behind each weep hole to occupy a space extending 16" in all directions from the weep hole. This is a no pay item incidental to the project.
Compact backfill to the top of the culvert. Backfill and excavation to extend 2' beyond sides of box and wingwalls.

BAR BENDING DIAGRAMS

Reinf. Steel Schedule																											
Bar	a	a1	a2	b	b1	b2	c	c1	c2	d	e	e1	e2	q	q1	q2	h	h1	h2	h3	V	V1	k	p	s	sl	
No.	146	144	146	100	48	24	2	9	3	37	4	6	2	6	54	54	21	7	6	2	128	33		62	50	2	
Size	#5	#5	#5	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	
Length	27'-2"	28'-3"	27'-6"	31'-7"	35'-6"	33'-9"	28'-7"	3'-0"	18'-0"	3'-6"	28'-0"	6'-6"	15'-2"	7'-4"	3'-6"	3'-0"	4'-0"	17'-0"	6'-4"	15'-6"	7'-3"	3'-2"	3'-7"	4'-3"	3'-8"	2'-3"	

CONCRETE BOX CULVERT
3'-5" x 6' R.C.B.C. (80° Skew to E Hillside)
HILLSIDE AVE.
Project No. C15-52 Sh. 2 of 3

