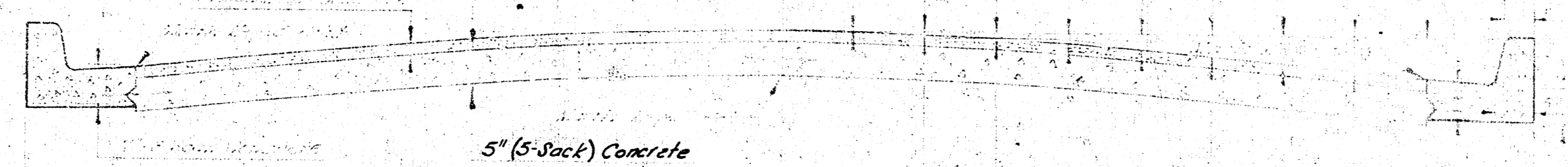


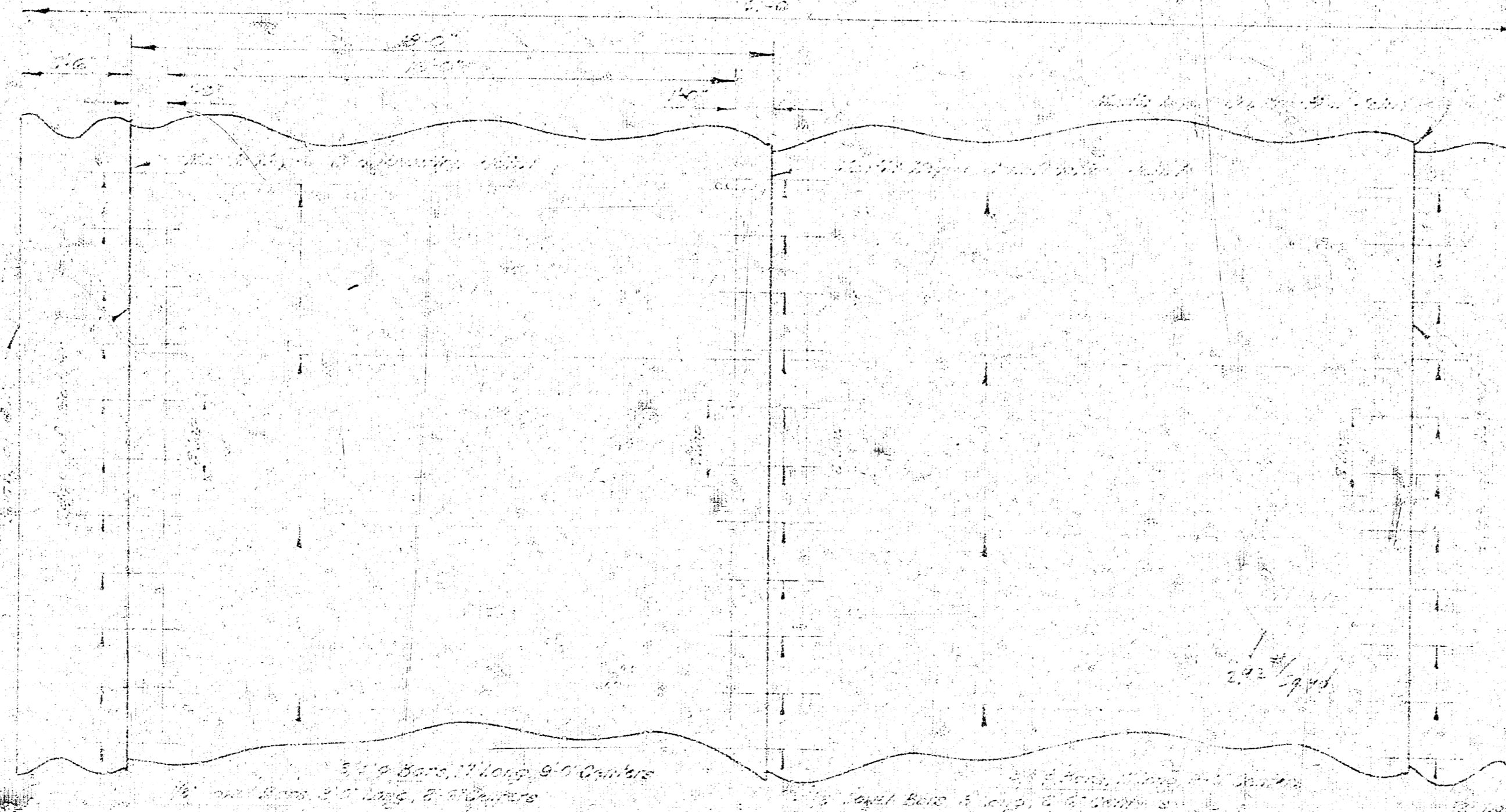
# DOUGLAS AVENUE

FROM W.L. ROCKWOOD 3 RD. ADDITION TO E.L. RUTLAND ROAD  
CITY OF WICHITA KANSAS B.E. SMITH CITY ENGINEER

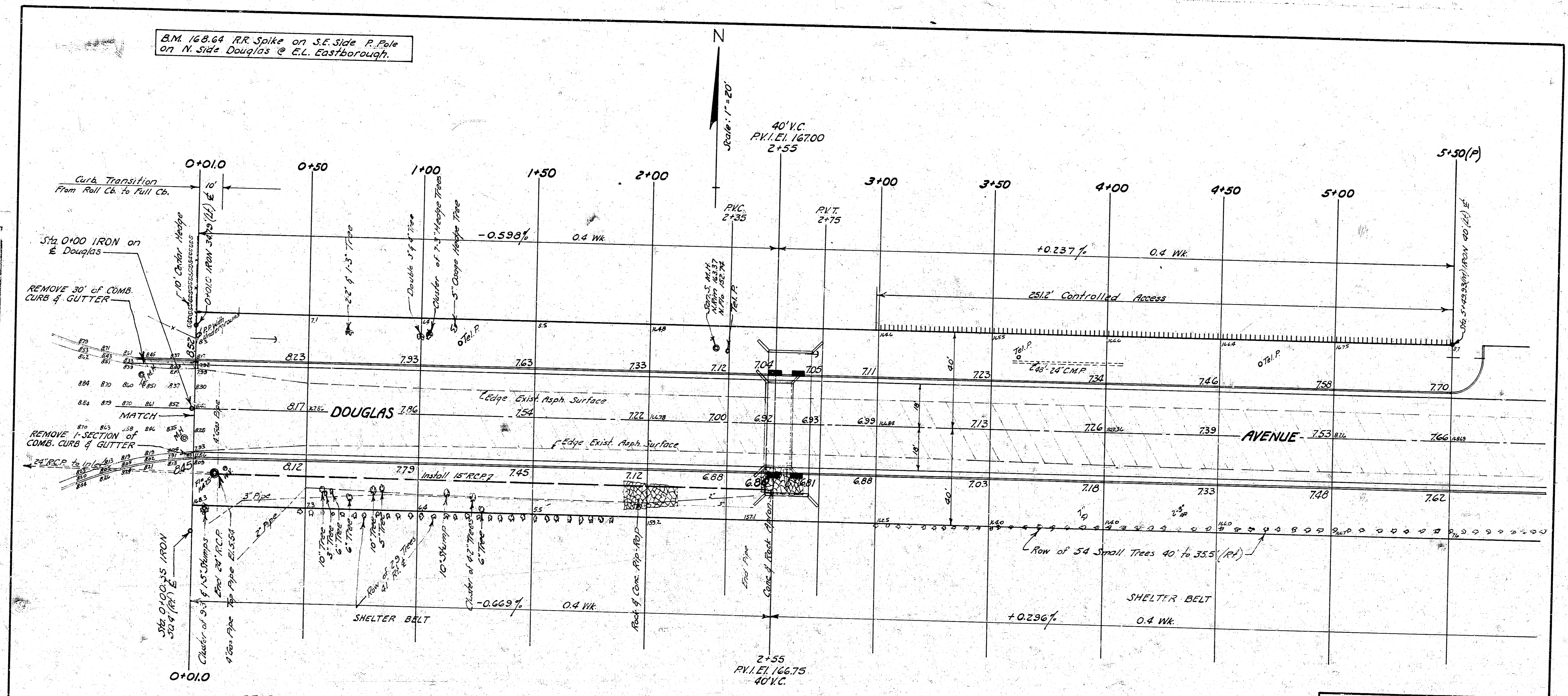
PROJECT NO. C14-58



TYPICAL SECTION  
NOT TO SCALE



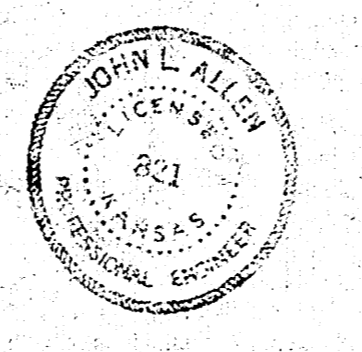
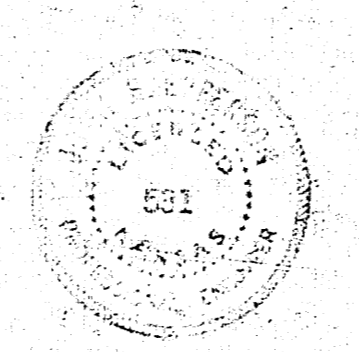
B.M. 168.64 R.R. Spike on S.E. Side P. Pole  
on N. Side Douglas @ E.L. Eastborough.



Scale: 1" = 10'

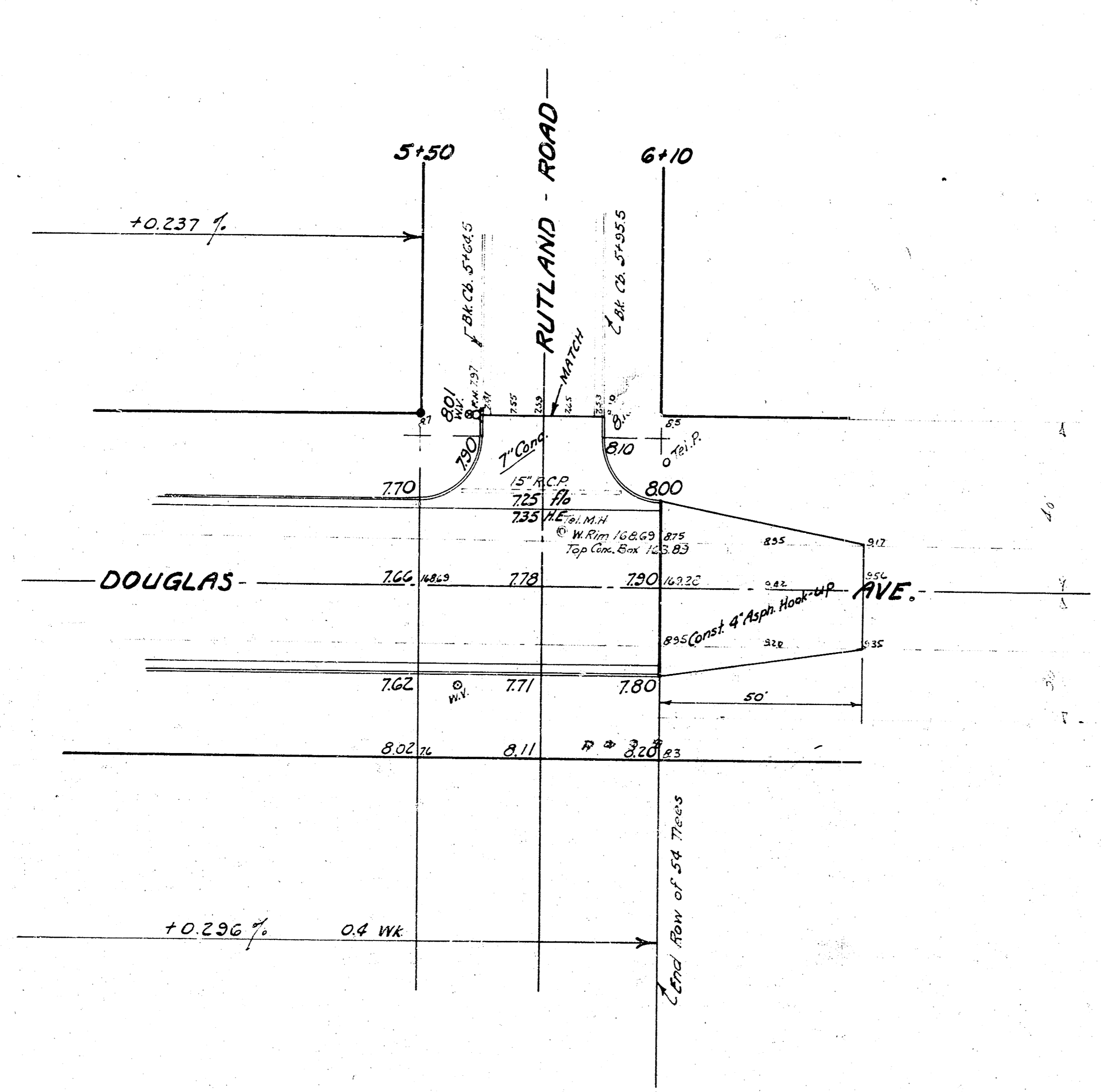
PROPERTY		CITY	
EXC.	COMP. FILL	EXCAVATION	
337 Cu.Yds.	203 Cu.Yds.	177 Cu.Yds.	
34	20	18	
<b>Totals</b>	<b>371 Cu.Yds.</b>	<b>223 Cu.Yds.</b>	

**DOUGLAS AVENUE**  
 FROM W.L. ROCKWOOD 3RD  
 ADDN. TO E.L. RUTLAND ROAD  
 36'-2'-40' Asph. Conc.  
 B.E. SMITH CITY ENGINEER  
 CITY OF WICHITA, KANSAS  
 Date: Oct. 1964  
 Proj. No. C14-58

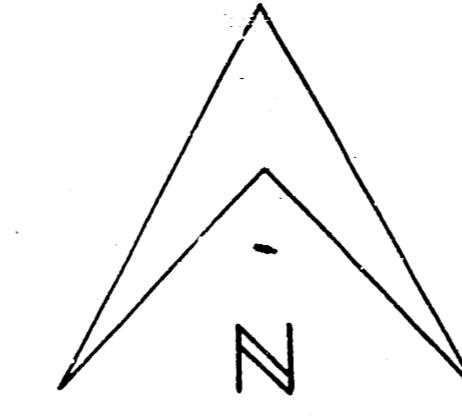


2/5

B.M. 16302 R.R. Spike on N. Side Tel. Pole @ N.E. Cor. Douglas & Rutland

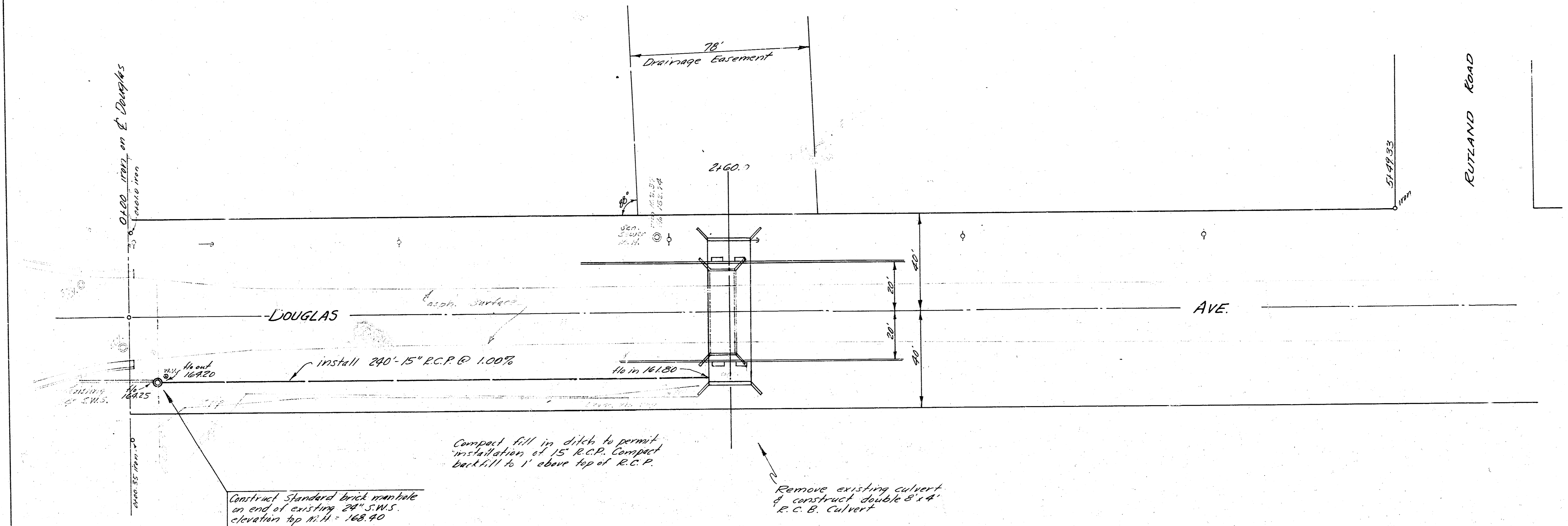


B.M. 168.64 R.R. Spike on S.E. Side P. Pole on  
N.S. Douglas @ E.L. Eastborough



Scale: 1" = 20'

City of Wichita  
Engineering Department



Construct Standard brick manhole  
on end of existing 24" S.W.S.  
elevation top N.U. = 168.90

Compact fill in ditch to permit  
installation of 15" R.C.P. Compact  
backfill to 1' above top of R.C.P.

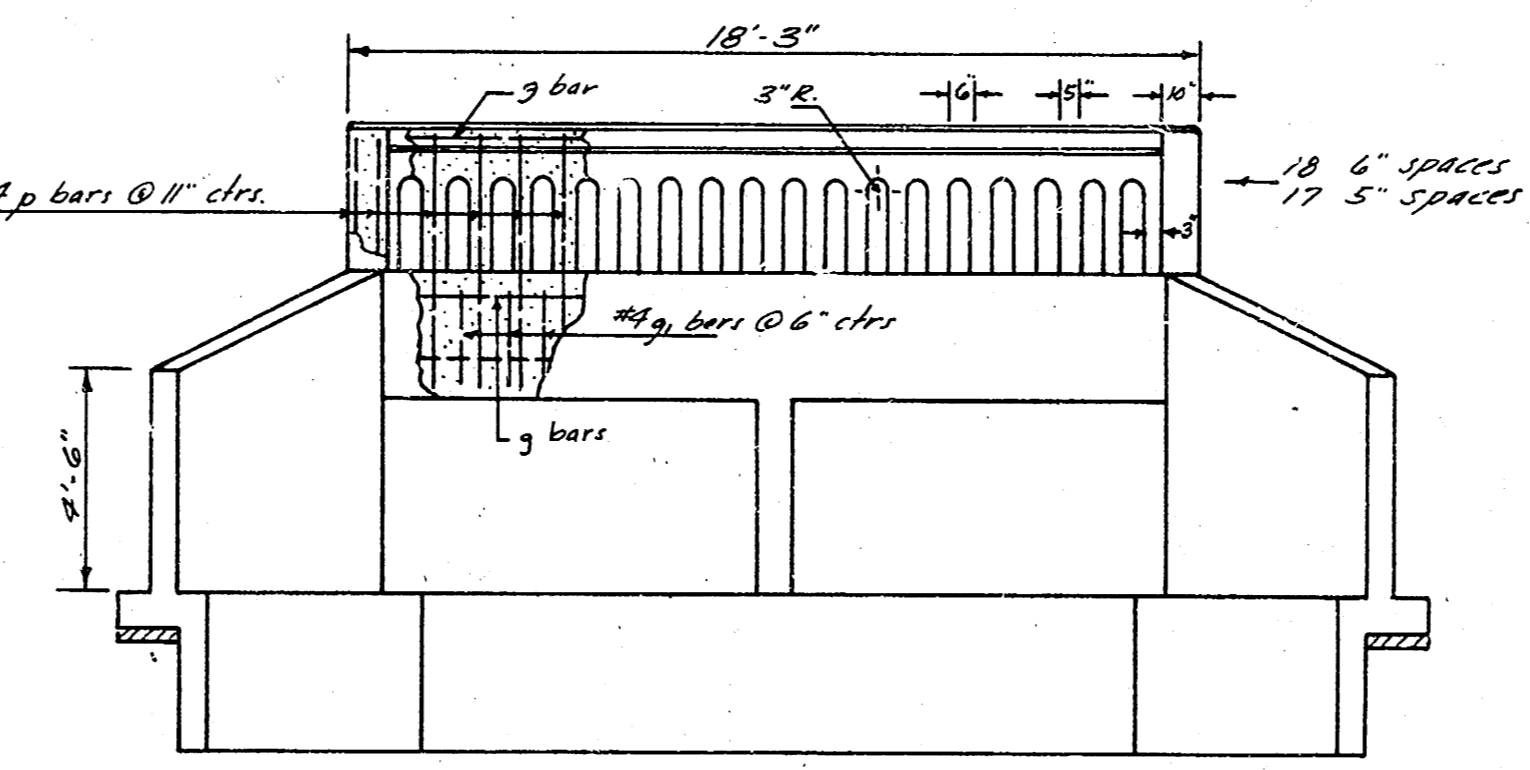
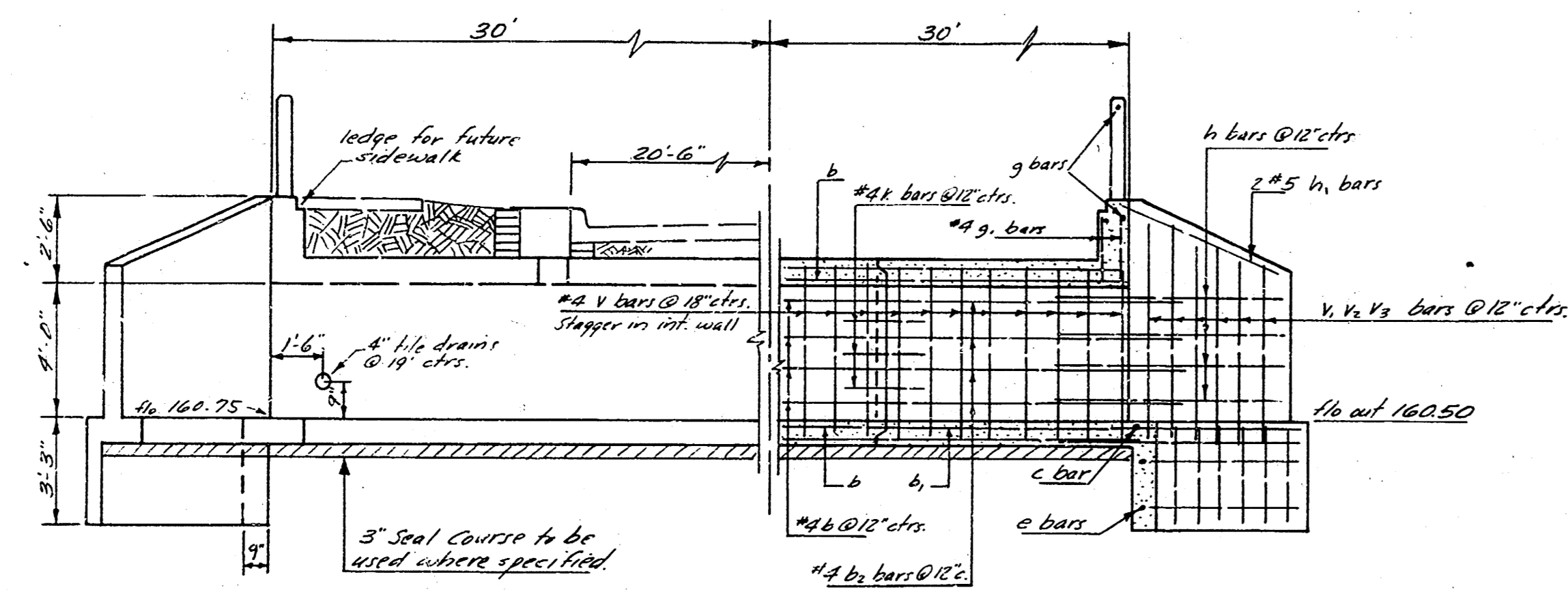
Remove existing culvert  
& construct double 8' x 4'  
R.C.B. Culvert

DOUGLAS AVE.  
W.L. ROCKWOOD 3RD ADDN TO  
E.L. RUTLAND ROAD  
DOUBLE 8' x 4' CULVERT  
CITY OF WICHITA, KANSAS  
B.E. SMITH - CITY ENGINEER  
Sept., 1964 Proj. C14-58

1/3

Rein Steel Schedule																				
Bar	a	a	a	b	b	b	c	c	d	e	g	g	h	h	v	v	v	v	p	
No.	149	142	149	148	32	16	2	12	28	4	8	6	72	16	8	126	8	8	28	48
Size	#5	#5	#5	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4
Length	18'0"	18'5"	12'0"	20'7"	20'7"	20'7"	20'6"	20'	4'7"	20'7"	6'6"	8'4"	4'0"	5'6"	6'9"	5'3"	7'0"	6'6"	6'0"	3'7"

Bill of Materials		
Item	Quantity	Unit
Class A-AE Concrete	35.0	cu. yds.
Reinforcing steel	11,070	lbs.
Concrete handrail	36.5	lin. ft.
Hard excavation	4.0	cu. yds.
Concrete culvert removed	1	each
2' x 5' inlets	4	each
Brick manhole	1	each
common excavations	150	cu. yds.
compacted fill	2.00	cu. yds.
Class A Concrete (seal course)	10.6	cu. yds.
15" reinf. curb pipe	240	lin. ft.



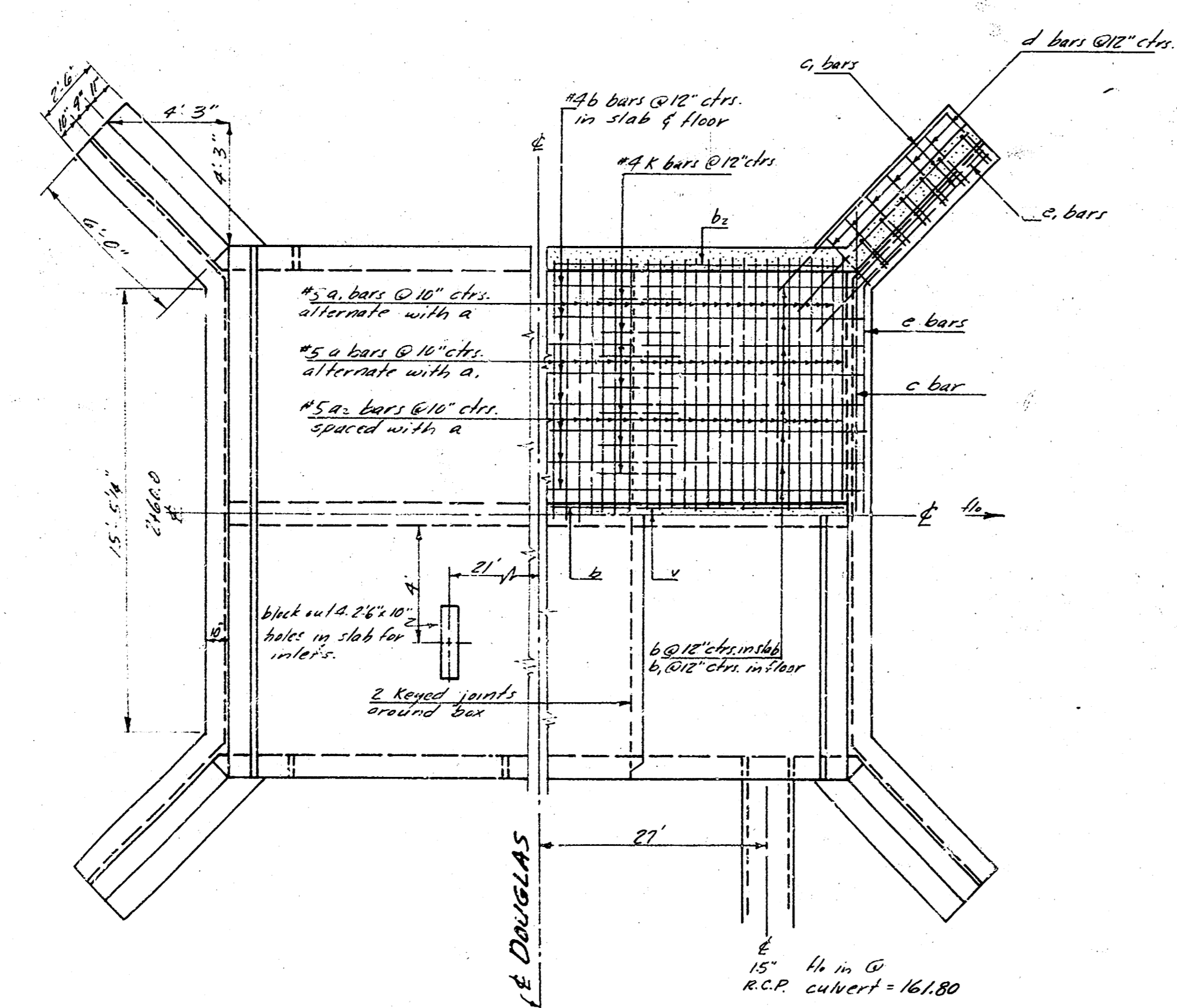
ELEVATION & SECTION

END ELEVATION

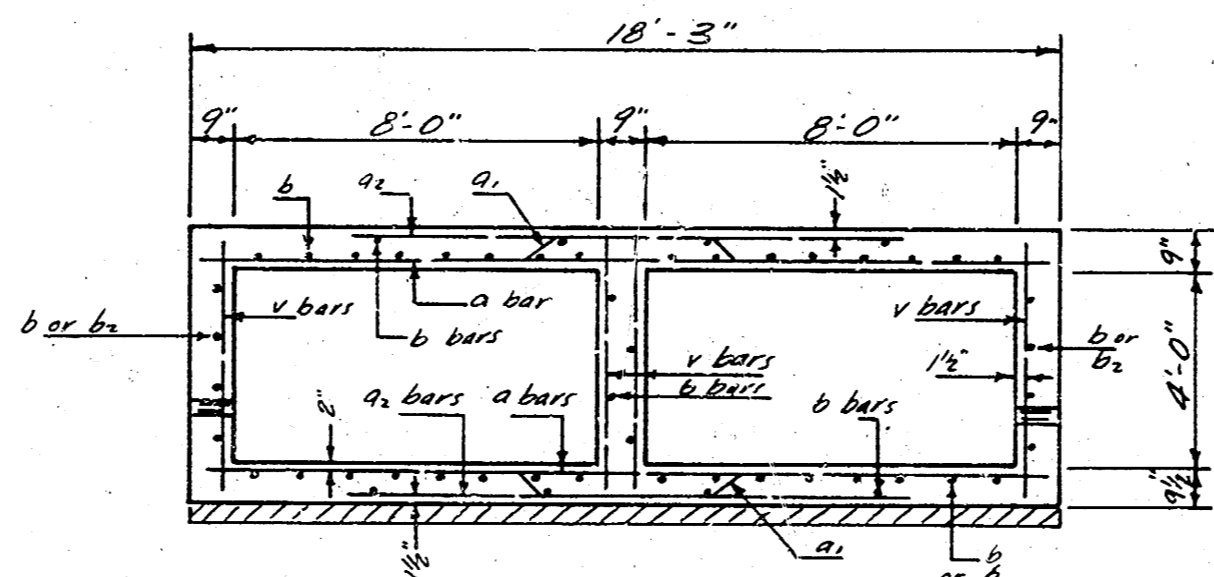
lump sum items

unit bid items

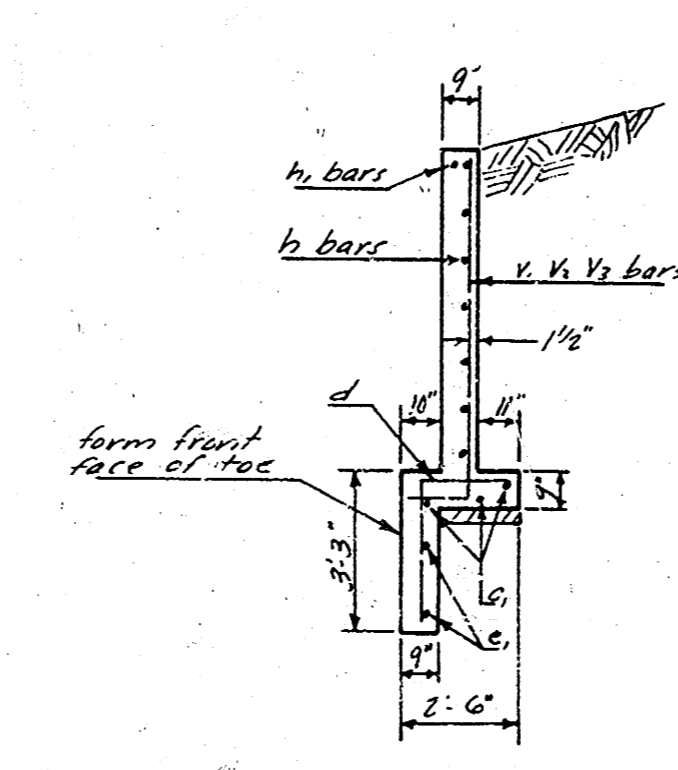
**GENERAL NOTES:**  
 Class A-AE concrete to be used in the structure.  
 Class D concrete to be used in the handrail & base.  
 Seal Course consisting of Class A concrete to be constructed only where specified by the Engineer. No reinforcing steel shall be placed until the Seal Course has gained sufficient strength to permit working upon it without injury.  
 Bevel all exposed edges with a 3/8" triangular mold. Bevel course appropriate to be deposited behind each weep hole to occupy a space extending 15" 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 of excavation to extend 2' beyond sides of box of wingwalls. Compact fill in existing roadside ditch to permit installation of 15" R.C.P.  
 Fill washout in the channel on south side of the culvert with broken concrete (no steel) up to elevation 100.4. Filling of washout, removal of asphalt, & removal of broken concrete is to be considered as part of bid of culvert removed in lump sum bid.



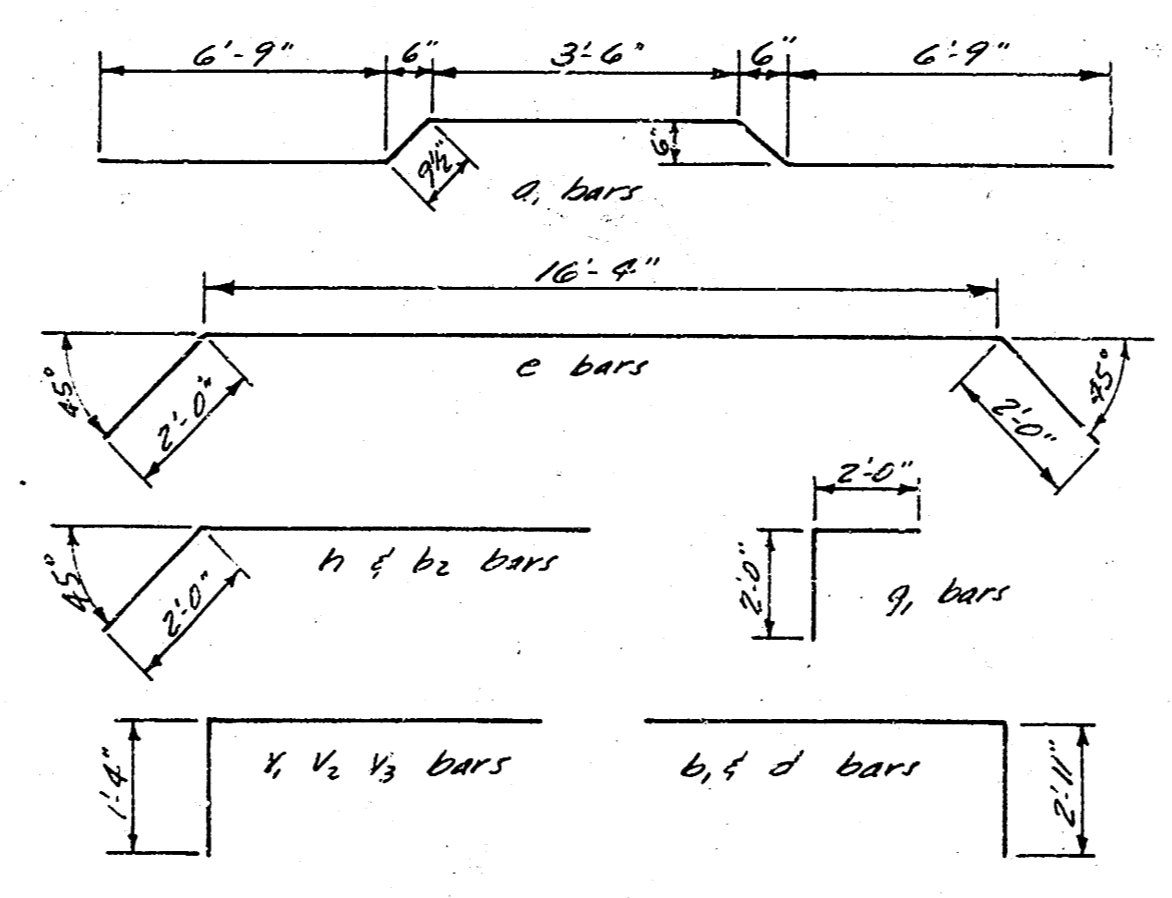
PLAN & SECTION



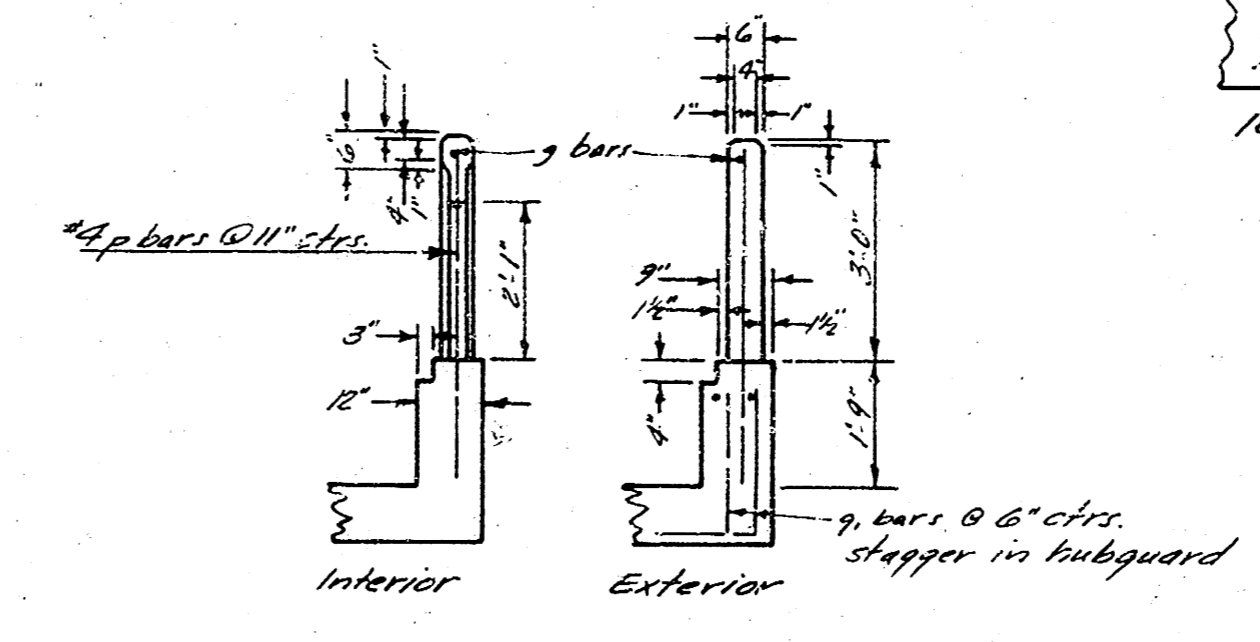
SECTION THRU BOX



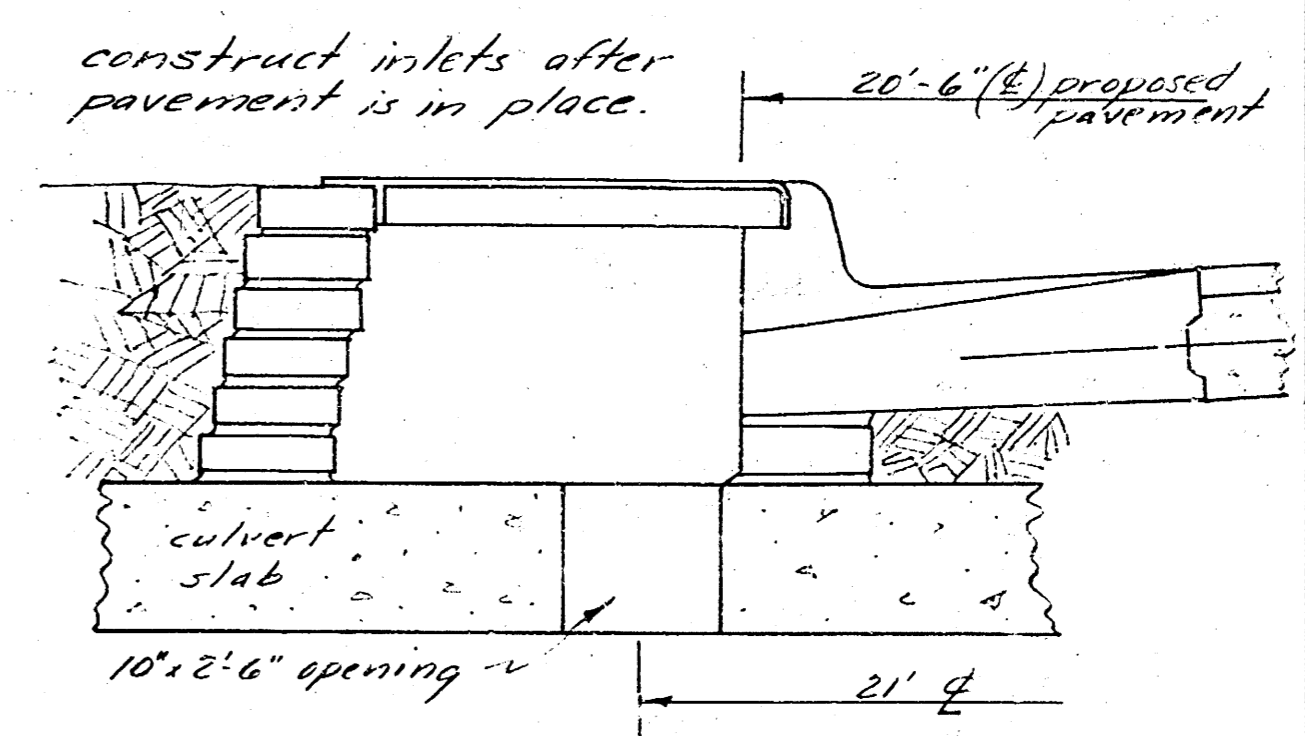
SECTION THRU WING



BAR BENDING DIAGRAMS



Hubguard & Handrail Detail  
3/8" = 1'-0"



INLET DETAIL  
NO SCALE

CONCRETE BOX CULVERT  
 DOUBLE 8' x 4'  
 DOUGLAS AVE.  
 PROJ. C14-58 SHEET 2 OF 3