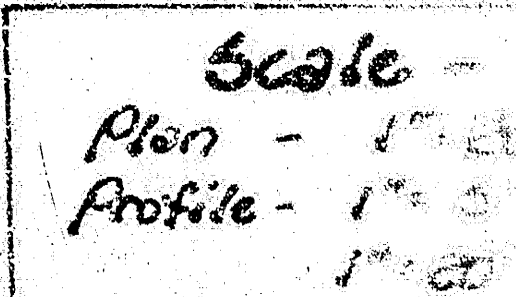
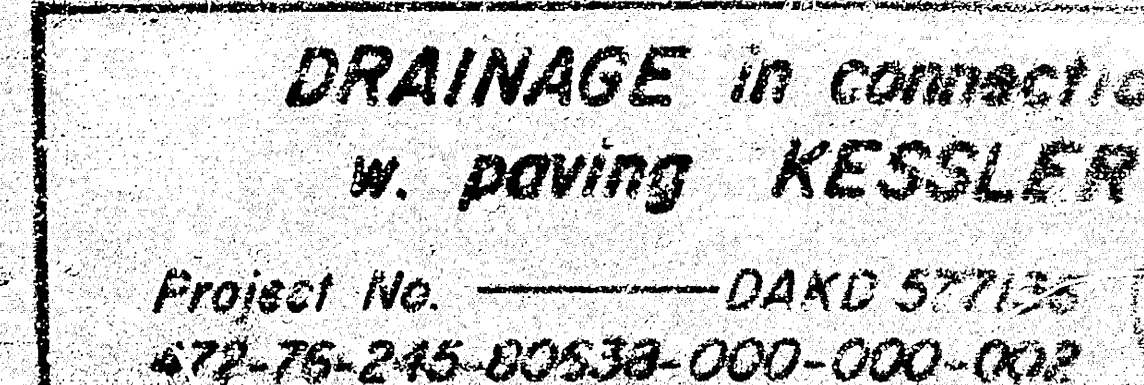


BM 10452 RR Spk S. Side PP, N. Side Paines, 85' West of W.C. Leaning.

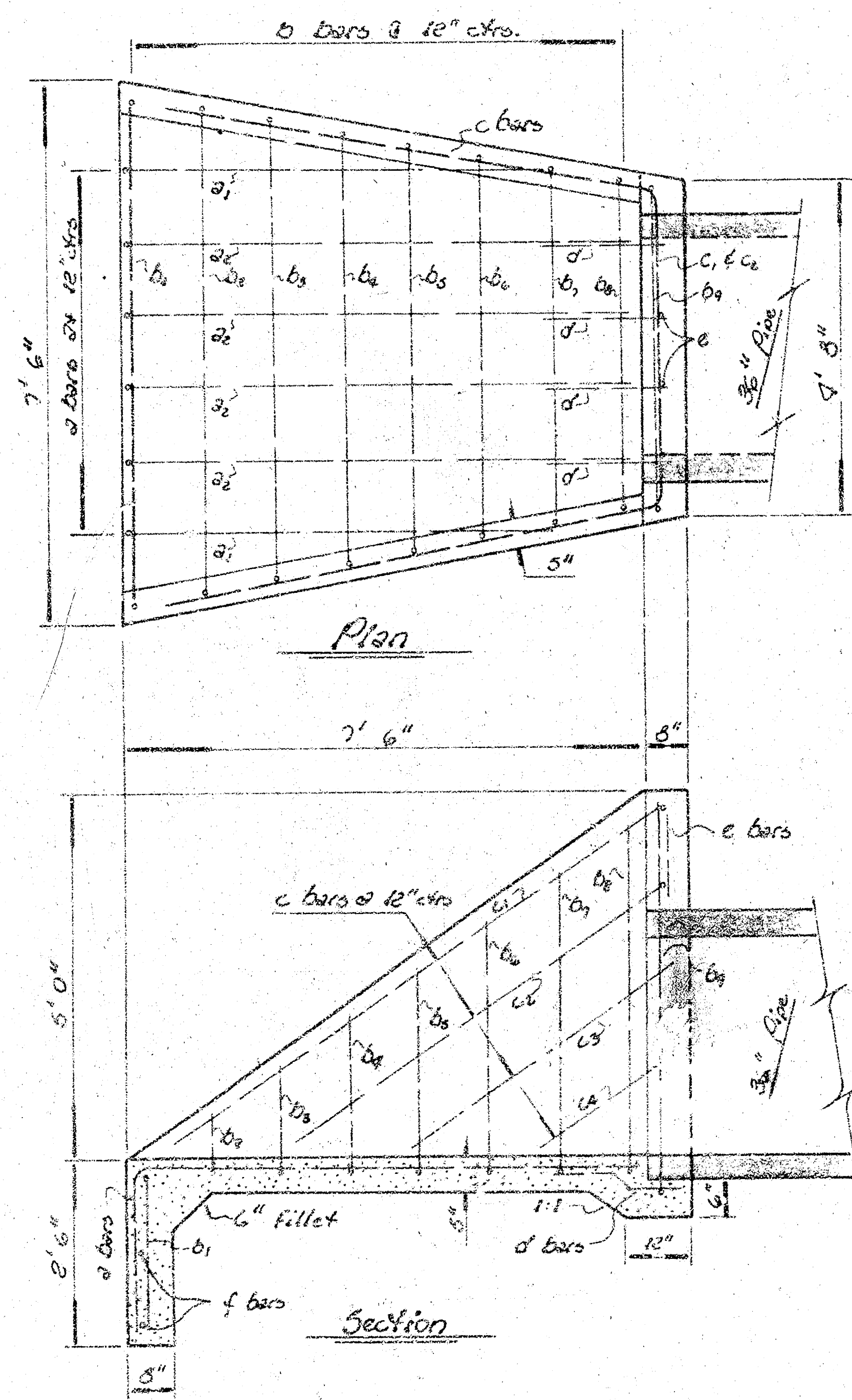


1. Trees to be taken and any 'limbs' either moved or destroyed during construction shall be replaced.
2. Rip-Rap shall be incidental to 4" Pipe.
3. Storm Sewer Contractor shall co-ordinate construction w/ Paving Contractor.

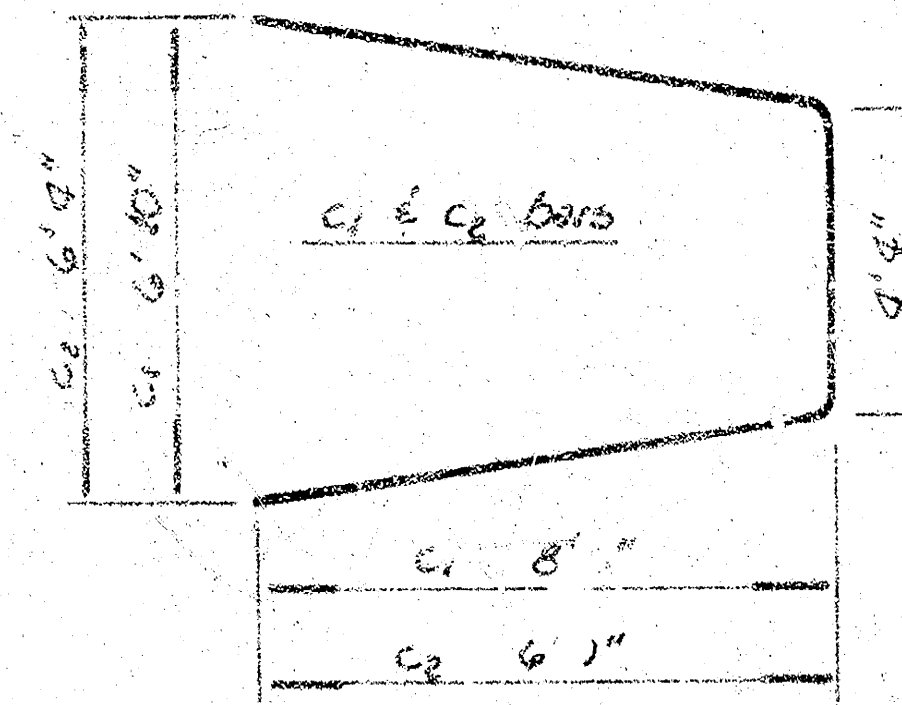
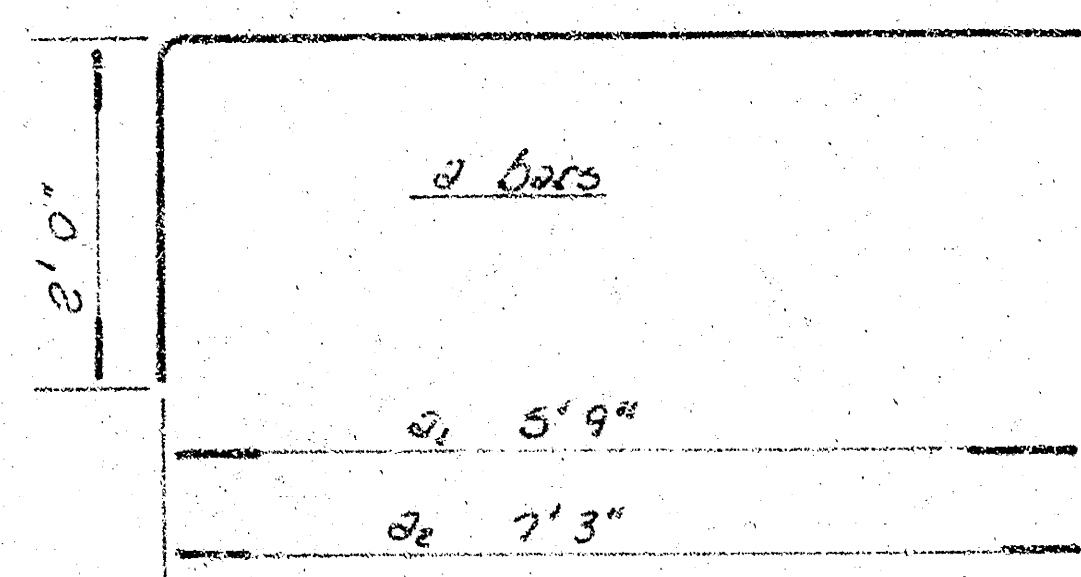
- CONSTRUCTION DATE OF PROPOSED CHANNEL IS UNCERTAIN. THE HEADWALLS ARE TO ALIGN WITH THE PROPOSED CHANNEL. CONTRACTOR SHALL EXCAVATE A DRAINAGE DITCH TO PROVIDE NECESSARY DRAINAGE INTO THE EXISTING CHANNEL FLOW. THE ADDITIONAL EXCAVATION SHALL BE APPROXIMATELY AN EIGHT FOOT WIDE CHANNEL W. 3:1 SIDE SLOPES. THIS EXCAVATION SHALL BE INCIDENTAL TO THE PROJECT.



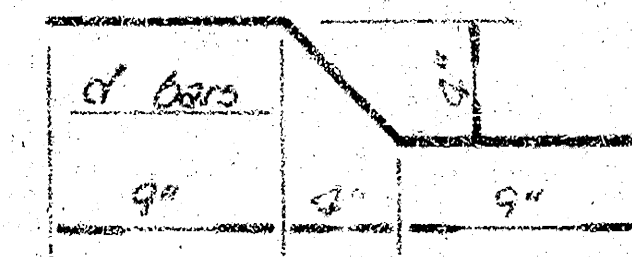
HEADWALL DETAIL SECTION



Headwall
Scale: 1/8" = 1'



b bars	
b1	6' 11"
b2	6' 7"
b3	6' 9"
b4	5' 11"
b5	5' 7"
b6	5' 3"
b7	4' 10"
b8	4' 6"
b9	4' 5"



Bill of Material		
Item	Quantity	Unit
Concrete	2.5	CY
Reinforcing Steel	157.41	Lbs.

Bar Schedule					
Bar	Size	Length	No.	Shape	Weight
a1	#4	7' 9"	2	U	10.35
a2	#4	9' 3"	4	U	24.72
b1	#4	10' 11"	1	U	7.29
b2	#4	8' 3"	1	U	5.51
b3	#4	9' 4"	1	U	6.23
b4	#4	10' 3"	1	U	6.85
b5	#4	11' 3"	1	U	7.52
b6	#4	12' 3"	1	U	8.13
b7	#4	13' 0"	1	U	8.68
b8	#4	14' 0"	1	U	9.35
b9	#4	15' 1"	1	U	10.08
c1	#4	21' 6"	1	U	14.36
c2	#4	17' 8"	1	U	11.80
c3	#4	4' 6"	2	U	4.01
c4	#4	2' 6"	2	U	3.34
d1	#4	2' 0"	4	U	5.34
e	#4	1' 4"	2	U	1.73
f	#4	7' 0"	2	U	9.35