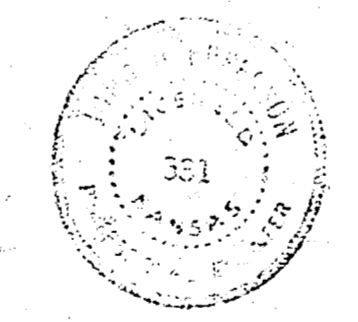
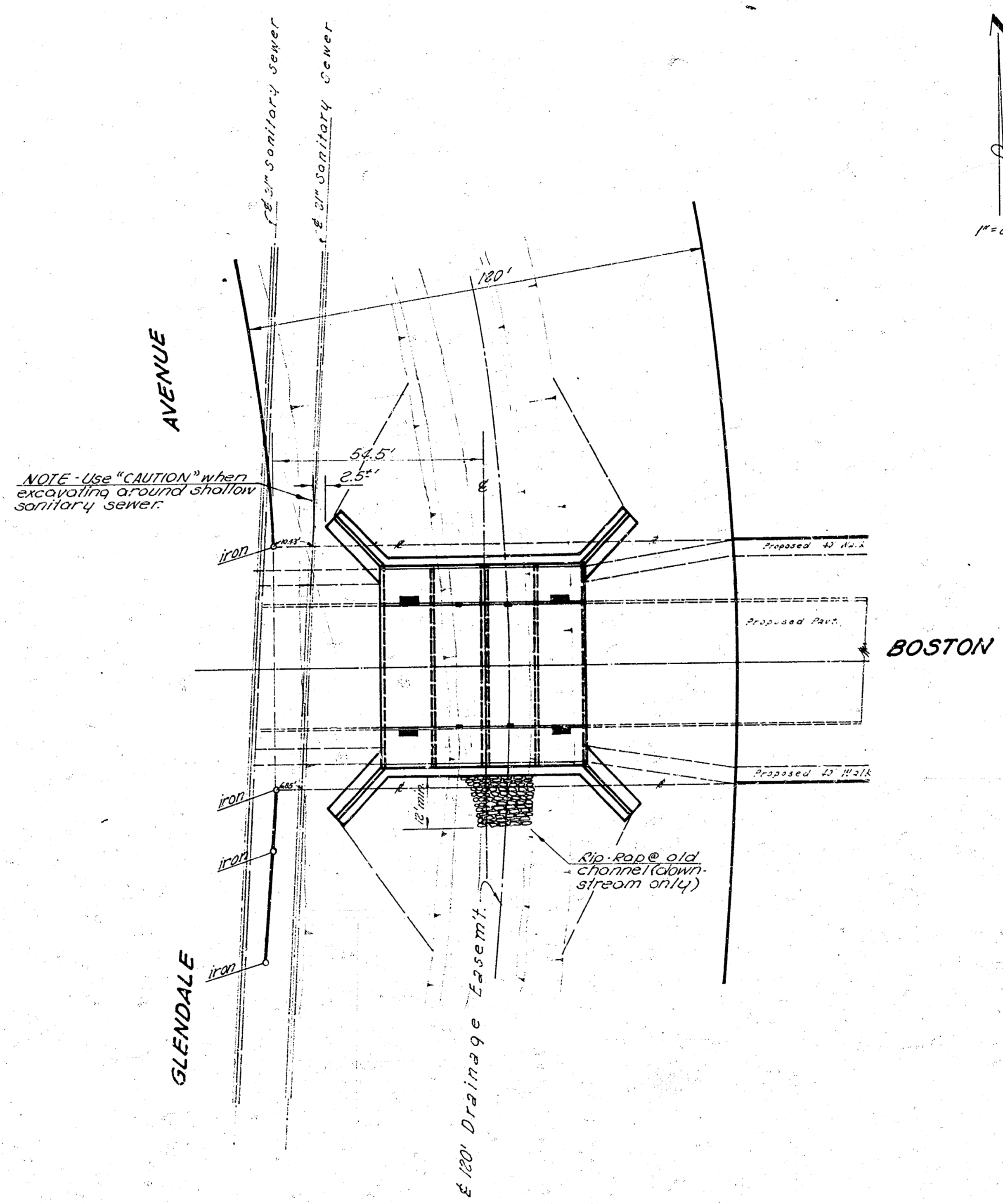


Clearing  
Spec.



**LOCATION MAP**  
**4-12'x8' REINFORCED CONCRETE BOX**  
 Between Glendale & Bleckley on Boston Str.  
 City of Wichita, Kansas  
 B.E. Smith City Engineer  
 Date: \_\_\_\_\_ Proj. No. C13-55 1/8

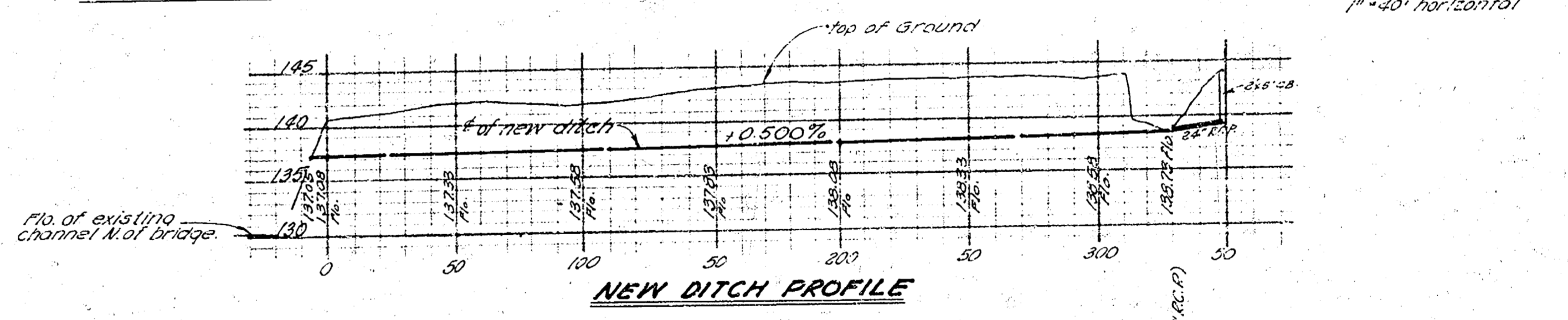
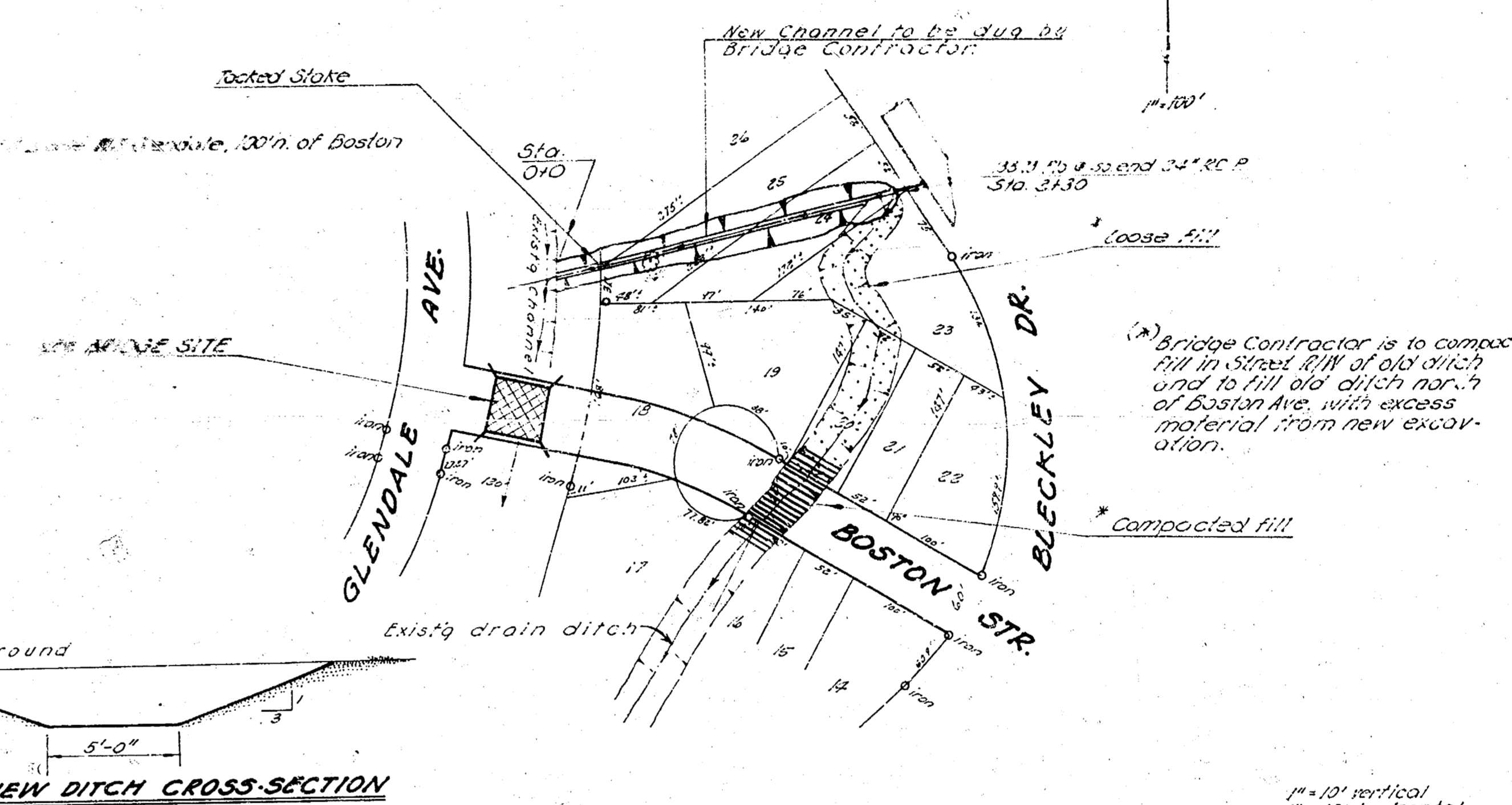


BAR SCHEDULE							
bar	size	length	no.	location	shape	spacing	wt.
0	#4	26'-6"	240	box		10"	4748.5
01	#5	32'-6"	120	"		10"	4026.0
02	#4	25'-9"	240	"		10"	4128.0
03	#4	30'-9"	120	"		10"	3888.0
04	#4	28'-9"	240	"		10"	3752.5
05	#4	31'-9"	96	"		9"	3360
06	#5	28'-9"	8	curb		9"	239.4
07	#5	8'-9"	64	wing		12"	620.2
08	#5	27'-9"	8	curb		12"	212.3
09	#5	12'-9"	8	wing		12"	152.8
10	#5	9'-9"	104	handrail		12"	1077.5
11	#5	37'-9"	12	handrail		12"	127.0
12	#4	17'-9"	12	"		12"	82.7
13	#4	15'-9"	4	"		12"	34.1
14	#4	18'-9"	12	"		12"	99.0
15	#4	7'-6"	4	"		12"	20.0
16	#4	18'-9"	4	"		12"	52.7
17	#4	18'-9"	4	"		12"	52.7
18	#4	19'-9"	12	"		12"	152.3
19	#4	24'-6"	4	handrail		12"	192.3
20	#4	24'-6"	4	handrail		12"	192.3
21	#5	37'-9"	64	handrail		12"	1212.0
22	#5	37'-9"	64	handrail		12"	1212.0
23	#5	37'-9"	64	handrail		12"	1212.0
24	#5	37'-9"	64	handrail		12"	1212.0
25	#5	37'-9"	64	handrail		12"	1212.0
26	#5	37'-9"	64	handrail		12"	1212.0
27	#5	37'-9"	64	handrail		12"	1212.0
28	#5	37'-9"	64	handrail		12"	1212.0
29	#5	37'-9"	64	handrail		12"	1212.0
30	#5	37'-9"	64	handrail		12"	1212.0
31	#5	37'-9"	64	handrail		12"	1212.0
32	#5	37'-9"	64	handrail		12"	1212.0
33	#5	37'-9"	64	handrail		12"	1212.0
34	#5	37'-9"	64	handrail		12"	1212.0
35	#5	37'-9"	64	handrail		12"	1212.0
36	#5	37'-9"	64	handrail		12"	1212.0
37	#5	37'-9"	64	handrail		12"	1212.0
38	#5	37'-9"	64	handrail		12"	1212.0
39	#5	37'-9"	64	handrail		12"	1212.0
40	#5	37'-9"	64	handrail		12"	1212.0
41	#5	37'-9"	64	handrail		12"	1212.0
42	#5	37'-9"	64	handrail		12"	1212.0
43	#5	37'-9"	64	handrail		12"	1212.0
44	#5	37'-9"	64	handrail		12"	1212.0
45	#5	37'-9"	64	handrail		12"	1212.0
46	#5	37'-9"	64	handrail		12"	1212.0
47	#5	37'-9"	64	handrail		12"	1212.0
48	#5	37'-9"	64	handrail		12"	1212.0
49	#5	37'-9"	64	handrail		12"	1212.0
50	#5	37'-9"	64	handrail		12"	1212.0
51	#5	37'-9"	64	handrail		12"	1212.0
52	#5	37'-9"	64	handrail		12"	1212.0
53	#5	37'-9"	64	handrail		12"	1212.0
54	#5	37'-9"	64	handrail		12"	1212.0
55	#5	37'-9"	64	handrail		12"	1212.0
56	#5	37'-9"	64	handrail		12"	1212.0
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58	#5	37'-9"	64	handrail		12"	1212.0
59	#5	37'-9"	64	handrail		12"	1212.0
60	#5	37'-9"	64	handrail		12"	1212.0
61	#5	37'-9"	64	handrail		12"	1212.0
62	#5	37'-9"	64	handrail		12"	1212.0
63	#5	37'-9"	64	handrail		12"	1212.0
64	#5	37'-9"	64	handrail		12"	1212.0
65	#5	37'-9"	64	handrail		12"	1212.0
66	#5	37'-9"	64	handrail		12"	1212.0
67	#5	37'-9"	64	handrail		12"	1212.0
68	#5	37'-9"	64	handrail		12"	1212.0
69	#5	37'-9"	64	handrail		12"	1212.0
70	#5	37'-9"	64	handrail		12"	1212.0
71	#5	37'-9"	64	handrail		12"	1212.0
72	#5	37'-9"	64	handrail		12"	1212.0
73	#5	37'-9"	64	handrail		12"	1212.0
74	#5	37'-9"	64	handrail		12"	1212.0
75	#5	37'-9"	64	handrail		12"	1212.0
76	#5	37'-9"	64	handrail		12"	1212.0
77	#5	37'-9"	64	handrail		12"	1212.0
78	#5	37'-9"	64	handrail		12"	1212.0
79	#5	37'-9"	64	handrail		12"	1212.0
80	#5	37'-9"	64	handrail		12"	1212.0
81	#5	37'-9"	64	handrail		12"	1212.0
82	#5	37'-9"	64	handrail		12"	1212.0
83	#5	37'-9"	64	handrail		12"	1212.0
84	#5	37'-9"	64	handrail		12"	1212.0
85	#5	37'-9"	64	handrail		12"	1212.0
86	#5	37'-9"	64	handrail		12"	1212.0
87	#5	37'-9"	64	handrail		12"	1212.0
88	#5	37'-9"	64	handrail		12"	1212.0
89	#5	37'-9"	64	handrail		12"	1212.0
90	#5	37'-9"	64	handrail		12"	1212.0
91	#5	37'-9"	64	handrail		12"	1212.0
92	#5	37'-9"	64	handrail		12"	1212.0
93	#5	37'-9"	64	handrail		12"	1212.0
94	#5	37'-9"	64	handrail		12"	1212.0
95	#5	37'-9"	64	handrail		12"	1212.0
96	#5	37'-9"	64	handrail		12"	1212.0
97	#5	37'-9"	64	handrail		12"	1212.0
98	#5	37'-9"	64	handrail		12"	1212.0
99	#5	37'-9"	64	handrail		12"	1212.0
100	#5	37'-9"	64	handrail		12"	1212.0

Steel in concrete wall header = 12 pounds

**General Notes**

Class A Concrete shall be used throughout this project. All reinforcing steel shall conform to ASTM specifications. EARTHWORK: All earthwork shall be considered as "Common Excavation" except for the toe wall. Toe wall excavation shall be included in the Lump Sum Bid. Excavation of new diversion channel will be considered a part of Culvert project. Tree removal in new channel will be included in Lump Sum bid. Rip-Rap included in Lump Sum Bid. BACKFILL: Shall be compacted to bottom of new pavement construction. All backfill and excavation is to be extended 2' beyond sides of box and wing walls. Compacted backfill in existing channel across Boston Ave will be considered a part of Culvert project. Contractor to backfill to the top of new work construction across street. WEAP: Coarse aggregate shall be deposited behind each weaphole to occupy a space extending 6" in all directions above the line of weaphole. This work shall not be paid for directly but shall be considered a part of the excavation work. SEAL COURSE: A seal course consisting of (3") class A concrete shall be constructed and where specified on the plans or by the Engineer. No reinforcing shall be placed until the seal course has gained sufficient strength to permit working on it without injury. RIDING OF CULVERT: The Culvert shall be bid as a "Lump Sum" bid except for the common excavation, compacted fill and class A concrete units. These units shall be paid for by the usual unit quantities determined from Final cross-sections. The "SM-SUBMIT" and "SM-3" MATERIAL shown on plan are to be used as a guide only and not to be considered as final quantities. The Contractor will have full responsibility for providing all materials shown on the detailed plans necessary to complete this project. (Use a 3/4" triangular marking on all exposed edges unless otherwise noted.) COMPACTION REQUIREMENTS: The compacted fill is to be placed under 4" boards. State Highway Specifications Sec. C14 Sec. C14. The compaction requirement is Type II, MK-30. WEARING SURFACE: The pavement wearing surface of the culvert is to be sealed with emulsified asphalt (State Spec. R5-2) at the rate of 0.07 gal. per sq. yd. Hot cover material (State spec. 30M-7) is to be applied at the rate of 0.01 cu. yds. per sq. yds. This item is to be included in Lump Sum bid.



BILL OF MATERIALS		
Item	Quantity	Units
Class A Concrete	341.0	cu. yds.
Reinforcing Steel	28,370	lbs.
Concrete Handrail	107.0	lin. ft.
Hand Excavation	7.7	cuyds.
Exc. containing	4	each
Cast Iron Curb drains	4	each
Reinforced Int. Curb	107	lin. ft.
3" Sand Concrete (sidewalk)	18	cuyds.
Sand Fill	12	Tons
Common Excavation (1:1)	2090	cuyds.
Compacted Fill (1:1)	1070	cuyds.
Class A Concrete (seal course)	39.5	cu. yds.

Lump sum bid

Unit bid

