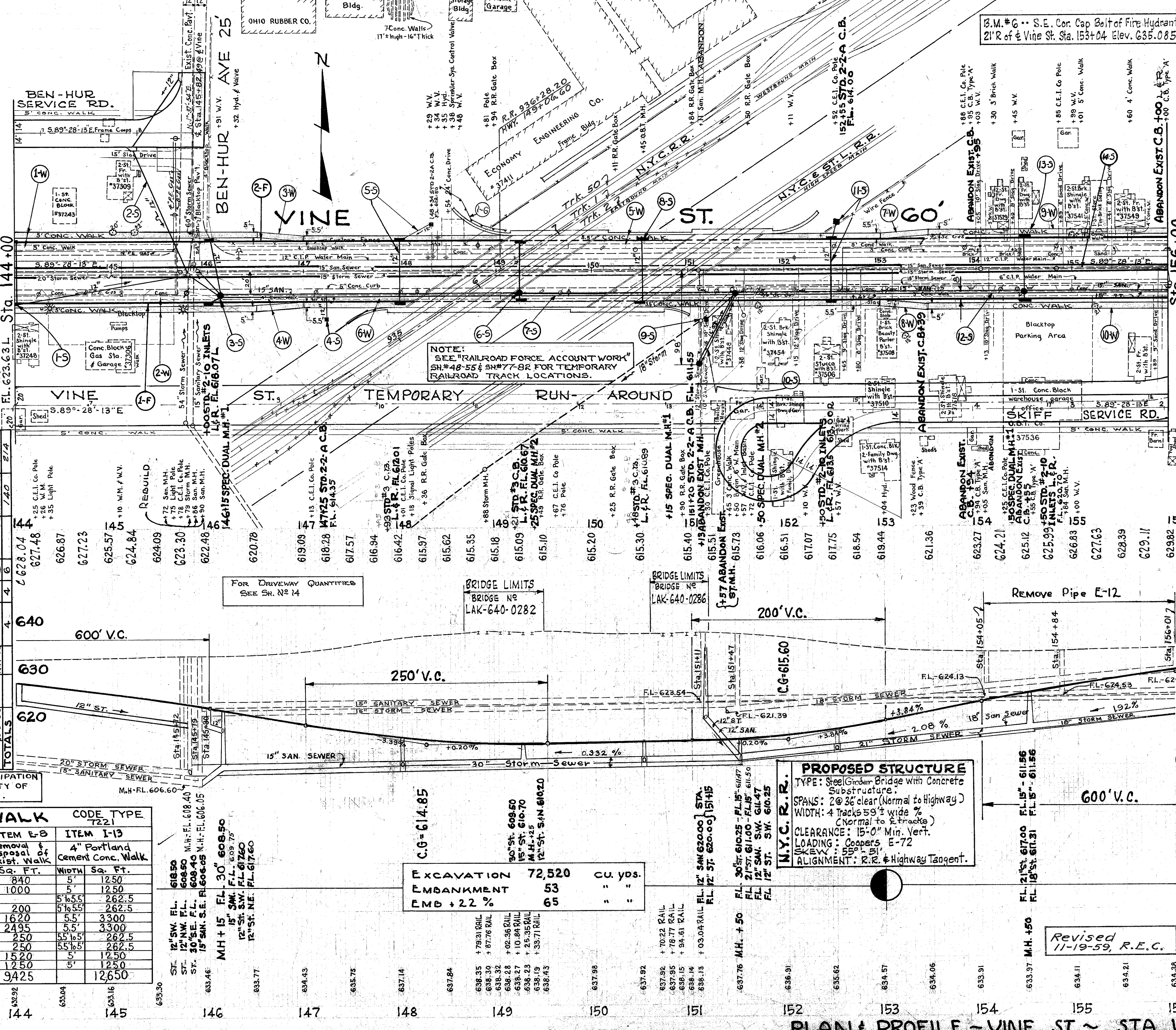


E-I EARTHWORK (BASEMENTS)				
Stations	UG-1090(I) Code 7221			
From	To	Exc.Ded. Cu.Yds.	Emb. Cu.Yds.	Emb.+22% Cu.Yds.
144+00	156+00	557	1,120	1,366
TOTALS		557	1,120	1,366

UG-1090(I) 6" UNDERDRAINS (CODE TYPE 7221)				
REF.	STATION	NO.	FROM	TO
I-4	144+00	1	144+00	156+00
I-4	144+00	2	144+00	156+00
TOTALS		2		

UG-1090(I) STORM SEWERS (CONT'D) (CODE TYPE 7221)				
REF.	STATION	NO.	FROM	TO
I-16	145+72	1	145+72	145+72
I-16	145+79	1	145+79	145+79
I-16	145+90	1	145+90	145+90
I-16	151+13	1	151+13	151+13
I-16	151+41	1	151+41	151+41
I-16	153+39	1	153+39	153+39
I-16	153+94	1	153+94	153+94
I-16	154+05	1	154+05	154+05
I-16	154+55	1	154+55	154+55
I-16	156+00	1	156+00	156+00
TOTALS		10		

UG-1090(I) SIDEWALK CODE TYPE 7221				
Ref. No.	Station	Side	ITEM E-8	ITEM I-13
	From	To	Removal & Disposal of Exst. Walk	4" Portland Cement Conc. Walk
			Sq. Ft.	Width Sq. Ft.
1-W	144+00	146+50	840	5' 1250
2-W	144+00	146+50	1000	5' 1250
3-W	146+50	147+00	200	5' @ 5.5' 262.5
4-W	146+50	147+00	200	5' @ 5.5' 262.5
5-W	147+00	153+00	1620	5.5' 3300
6-W	147+00	153+00	2495	5.5' 3300
7-W	153+00	153+50	250	5.5' @ 5.5' 262.5
8-W	153+00	153+50	250	5.5' @ 5.5' 262.5
9-W	153+50	156+00	1520	5' 1250
10-W	153+50	156+00	1250	5' 1250
TOTALS			9425	12,650



EXCAVATION	72,520	CU. YDS.
EMBANKMENT	53	" "
EMB + 22%	65	" "

PROPOSED STRUCTURE
 TYPE: Steel Girder Bridge with Concrete Substructure.
 SPANS: 2 @ 36' clear (Normal to Highway)
 WIDTH: 4 Tracks 59' ± wide % (Normal to R.R. tracks)
 CLEARANCE: 15'-0" Min. Vert.
 LOADING: Coopers E-72
 SKEW: 55°-51'
 ALIGNMENT: R.R. & Highway Tangent.

PROPOSED STRUCTURE
 TYPE: Steel thru girder beam bridge with conc. subst.
 SPANS: 2 @ 36' ± clear (Normal to highway)
 WIDTH: 2 Tracks, 34' ± wide % (Normal to R.R. tracks)
 CLEARANCE: 15'-0" Minimum
 LOADING: Coopers E-72
 SKEW: 55°-51'
 ALIGNMENT: Tangent

Revised 11-19-59, R.E.C.

ITEM I-15 GUARD RAIL, STEEL BEAM TYPE				
REF. NO.	STATION	SIDE	NO. RAILS	NO. WOOD POSTS
1-G	149+00	149+34	LT.	87.5
TOTALS				87.5

UG-1090(I) STORM SEWERS (CODE TYPE 7221)				
REF. NO.	STATION	SIDE	CLASS	DEPTH
1-5	144+00	145+79	12"	24.4
2-5	145+79	146+15	12"	6.6
3-5	147+25	148+00	12"	6
4-5	148+00	148+54	12"	30
5-5	149+25	150+00	12"	36
6-5	147+25	151+50	12"	56
7-5	151+50	151+50	12"	56
8-5	151+50	151+50	12"	56
9-5	151+50	151+50	12"	56
10-5	151+50	151+50	12"	56
11-5	151+50	151+50	12"	56
12-5	151+50	151+50	12"	56
13-5	154+50	154+50	12"	64
14-5	154+00	156+00	12"	57.6
TOTALS				629.82

* NO STATE OR FEDERAL PARTICIPATION ON SANITARY SEWERS. THE CITY OF WILLOUGHBY SHALL PARTICIPATE 100%.

LAKE COUNTY
 SEC. LAK-640-2.56

PLAN & PROFILE - VINE ST. ~ STA. 144+00 TO STA. 156+00