

LEFT & RIGHT BRIDGES		
PIER PILE		
CUT-OFF ELEVATIONS		
PIER NO.	STATION	ELEVATION
1	522+04.00	909.62
2	523+24.00	"
3	524+44.00	"
4	525+64.00	"
5	526+84.00	"
6	528+04.00	"
7	529+24.00	"
8	530+44.00	"
9	531+64.00	"
10	532+84.00	"
11	534+04.00	"
12	535+24.00	909.61
13	536+44.00	909.62
14	537+64.00	"
15	538+84.00	"
16	540+04.00	"
17	541+24.00	"
18	542+44.00	"
19	543+64.00	"
20	544+84.00	"

TEST HOLES		
NUMBER	STATION	OFFSET
A-1	535+00	0
A-2	545+00	0
B-1	525+00	0
B-2	530+00	0
B-3	534+18	100' LT.
B-4	540+00	0

B.M. 10 - RR SPIKE IN 12" PINE 250' RIGHT OF STA. 521+50. ELEV. 909.101

B.M. 11 - BOLT IN 10" ELM 150' RIGHT OF STA. 543+50. ELEV. 906.200

TEST HOLES		
NUMBER	STATION	OFFSET
A-1	535+00	0
A-2	545+00	0
B-1	525+00	0
B-2	530+00	0
B-3	534+18	100' LT.
B-4	540+00	0

ALL ABUTMENT PILES SHALL BE 12" Cast-in-place, reinforced concrete piles, driven to a minimum bearing capacity of 40 tons per pile.
ALL PIER PILES SHALL BE 18" Cast-in-place, reinforced concrete piles, driven to a minimum bearing capacity of 60 tons per pile.

Estimated average pay lengths are:
Abutments = 100 feet.
Piers = 130 feet.

Batter piles indicated shall be battered 1:1.6 & 1:1.0 in directions as shown on Sheets No. 213, 214 & 215.

Pile cap elevations are to high point of center line of battered piles and to center line of plumb piles after they have been driven and cut-off has been made.

State Highway Department testing laboratory made the foundation investigations. Submit driving logs for first test pile and two piles nearest each test hole. Record number of blows per foot in last 12 inches driven for each pile and show in "Remarks" column on green form BR-2-55.

For inclusion with the final piling report for a structure in which the estimated average length of penetration is less than 80%, address an inter-office communication on this matter to the Bridge Department of Division 4. State by whom permission was granted on a given date at time of driving to stop short of minimum required.

In event of overdriving give reasons for need and list these in "Remarks" column on pink form BR-8.

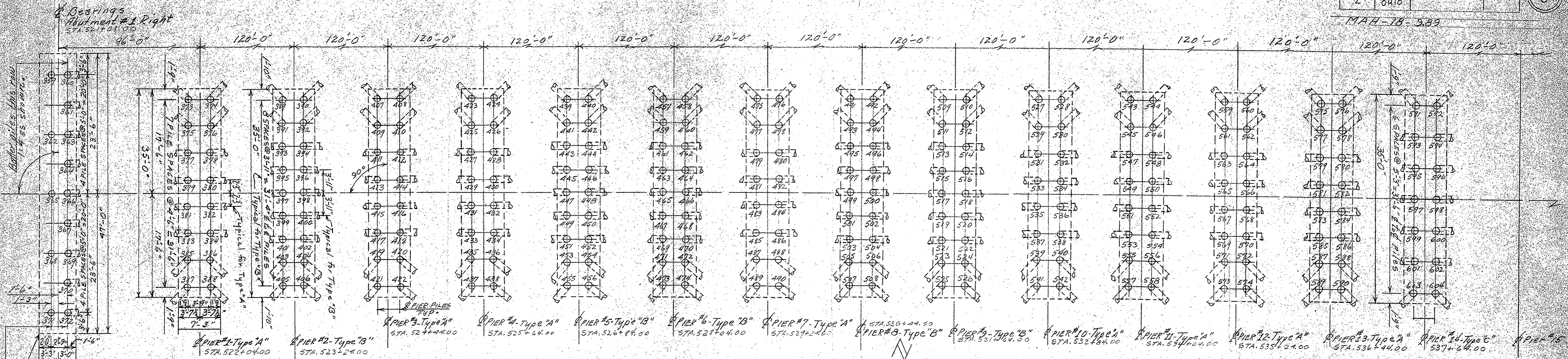
Provide data requested by "Instructions" on reverse side of pink form BR-2.

Piles shall extend 2 feet into bottom of abutment footings and 2 feet 6 inches into bottom of pier caps.

NOTE: PILING PAY LENGTH DATA WILL BE FOUND ON SHEET # 2.

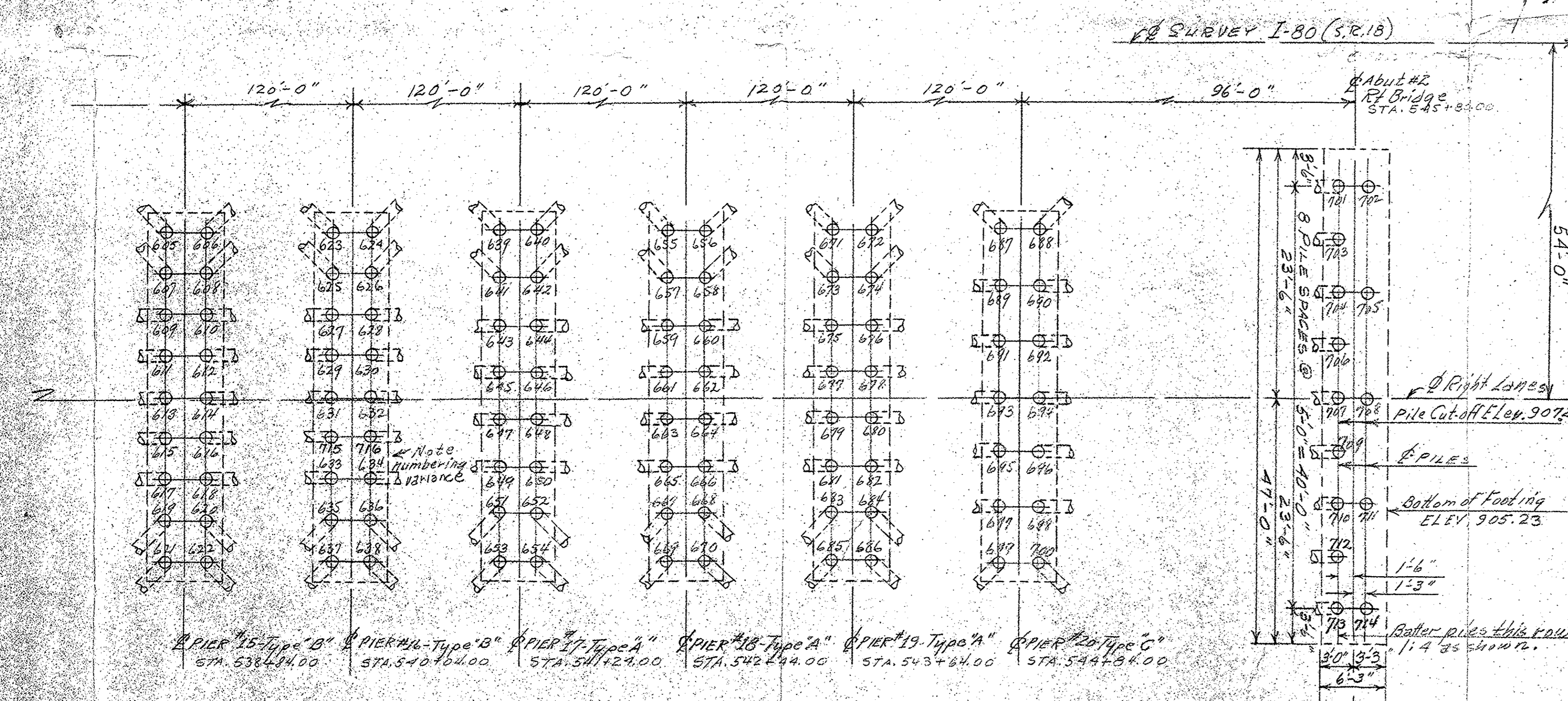
PROJECT ENGINEER SHALL VERIFY ALL DIMENSIONS, ELEVATIONS & STATIONING.

REVISIONS	DRAWN	CHECKED
	D.O.L. 11-31-66	



BOTTOM OF FOOTING ELEV. 905.23
PILE CUT-OFF ELEV. 907.23

SEE NOTES ON SHEET 1.
See Structural General Notes on Sheet 207/294



PILE NUMBERING SYSTEM
RIGHT BRIDGE
No scale

LEFT & RIGHT BRIDGES			TOTAL PILE LENGTHS	
PIER PILE	CUTOFF ELEVATIONS	BOTTOM OF PIER CAP ELEVATION	LEFT BRIDGE	RIGHT BRIDGE
PIER NO.	STATION	ELEVATION	18"	12"
1	522+04.00	909.62	7424.2	447.5
2	523+24.00	"	1876.4	"
3	524+44.00	"	1673.3	"
4	525+64.00	"	1707.8	"
5	526+84.00	"	2052.6	"
6	528+04.00	"	2034.5	"
7	529+24.00	"	1813.5	"
8	530+44.00	"	1987.5	"
9	531+64.00	"	2033.5	"
10	532+84.00	"	1699.9	"
11	534+04.00	"	1737.4	"
12	535+24.00	909.61	1726.8	"
13	536+44.00	909.62	1430.4	"
14	537+64.00	"	1378.9	"
15	538+84.00	"	2043.8	"
16	540+04.00	"	1976.3	"
17	541+24.00	"	1893.5	"
18	542+44.00	"	1771.3	"
19	543+64.00	"	1618.2	"
20	544+84.00	"	1322.7	"
TOTAL =			35222.5	936.6

LEFT BRIDGE		RIGHT BRIDGE	
ABUTMENT #1	PIER #1	ABUTMENT #1	PIER #1
"	2	"	2
"	3	"	3
"	4	"	4
"	5	"	5
"	6	"	6
"	7	"	7
"	8	"	8
"	9	"	9
"	10	"	10
"	11	"	11
"	12	"	12
"	13	"	13
"	14	"	14
"	15	"	15
"	16	"	16
"	17	"	17
"	18	"	18
"	19	"	19
"	20	"	20
ABUTMENT #2		ABUTMENT #2	
TOTAL =	489.1	TOTAL =	503.8

B.M. 10 - R.R. SPIKE IN 12" PINE 250' RIGHT OF STA. 521+50. ELEV. 909.101

B.M. 11 - BOLT IN 10" ELM 150' RIGHT OF STA. 543+50. ELEV. 906.200

TEST HOLES		
NUMBER	STATION	OFF-SET
A-1	535+00	E
A-2	545+00	E
B-1	525+00	E
B-2	530+00	E
B-3	534+18	100' LE
B-4	540+00	E

GRAND TOTALS: 18" = 68,104.5 LIN FT
12" = 1,922.2 " "
GRAND TOTAL BOTH SIZES 70,026.7 LIN FT.

NOTE: PILE NO. 217, PIER #16, LEFT BRIDGE IS FIRST TEST PILE PAYABLE AS A LUMP SUM ITEM.

PROJECT ENGINEER SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS

REVISIONS	DRAWN	CHECKED
	DBL	2-1-66

MAH-13-9.87

PILING DATA				PILING DATA				PILING DATA				PILING DATA				PILING DATA				PILING DATA				PILING DATA				PILING DATA				PILING DATA							
PILE No.	ACTUAL PAY LENGTH	BEARING TONS	PILE CAP ELEV.	PILE No.	ACTUAL PAY LENGTH	BEARING TONS	PILE CAP ELEV.	PILE No.	ACTUAL PAY LENGTH	BEARING TONS	PILE CAP ELEV.	PILE No.	ACTUAL PAY LENGTH	BEARING TONS	PILE CAP ELEV.	PILE No.	ACTUAL PAY LENGTH	BEARING TONS	PILE CAP ELEV.	PILE No.	ACTUAL PAY LENGTH	BEARING TONS	PILE CAP ELEV.	PILE No.	ACTUAL PAY LENGTH	BEARING TONS	PILE CAP ELEV.	PILE No.	ACTUAL PAY LENGTH	BEARING TONS	PILE CAP ELEV.	PILE No.	ACTUAL PAY LENGTH	BEARING TONS	PILE CAP ELEV.	PILE No.	ACTUAL PAY LENGTH	BEARING TONS	PILE CAP ELEV.
LEFT BRIDGE ABUT No. 1				PIER No. 5				PIER No. 9				PIER No. 14				PIER No. 19				PIER No. 2				PIER No. 7				PIER No. 12				PIER No. 17							
1	36.3	45.1	907.23	81	110.5	75.1	909.62	162	115.1	96.9	909.62	242	100.9	80.4	909.62	323	105.8	63.1	909.62	401	103.2	63.8	909.62	481	111.2	72.0	909.62	559	77.5	64.4	909.61	639	119.6	100.4	909.62				
2	34.0	44.0	"	82	119.1	81.1	"	163	112.5	89.0	"	243	75.2	85.6	"	324	98.9	75.1	"	402	102.7	70.1	"	482	111.6	63.8	"	560	83.8	67.8	"	640	106.0	"	"				
3	34.0	43.6	"	83	112.0	99.9	"	164	113.7	116.3	"	244	80.8	84.1	"	325	103.8	64.6	"	403	94.9	65.5	"	483	110.6	70.4	"	561	90.9	65.5	"	641	117.9	"	"				
4	29.5	52.8	"	84	114.8	82.9	"	165	113.8	87.3	"	245	82.1	80.6	"	326	100.1	77.5	"	404	107.8	65.5	"	484	113.1	91.8	"	562	83.3	67.5	"	642	104.2	"	"				
5	30.7	47.3	"	85	111.6	74.5	"	166	115.8	82.4	"	246	74.1	77.9	"	327	104.4	72.8	"	405	98.6	63.0	"	485	112.9	68.7	"	563	74.5	66.0	"	643	117.4	"	"				
6	34.0	50.7	"	86	114.0	104.7	"	167	118.6	81.1	"	247	115.8	81.1	909.62	328	93.7	62.6	"	406	105.8	65.8	"	486	114.6	74.5	"	564	82.0	66.0	"	644	105.3	"	"				
7	31.0	36.2	"	87	114.7	84.6	"	168	114.9	88.3	"	248	115.8	81.1	909.62	329	104.9	72.7	"	407	102.2	61.6	909.62	487	112.9	71.4	"	565	96.2	66.7	"	645	112.4	"	"				
8	34.0	36.4	"	88	113.1	89.5	"	169	108.2	72.7	909.62	249	115.9	70.9	"	330	94.2	65.6	"	408	108.9	65.1	"	488	115.4	72.1	"	566	78.5	68.0	"	646	110.3	"	"				
9	34.0	63.0	"	89	121.4	70.7	"	170	107.0	72.7	"	250	116.1	72.1	"	331	96.2	77.9	909.62	409	103.9	70.8	"	489	112.9	71.4	"	567	89.0	96.9	"	647	118.0	"	"				
10	30.0	45.1	"	90	113.8	88.1	"	171	106.6	73.9	"	251	113.7	76.9	"	332	97.4	63.0	"	410	107.5	64.2	"	490	115.7	72.7	"	568	74.9	66.7	"	648	115.2	"	"				
11	34.0	51.6	"	91	110.1	90.9	"	172	103.9	84.9	"	252	115.2	81.4	"	333	104.4	92.5	"	411	104.2	92.7	"	491	121.7	65.8	"	569	97.8	71.4	"	649	111.2	"	"				
12	29.0	57.9	"	92	115.2	89.6	"	173	107.7	71.4	"	253	113.3	88.1	"	334	83.0	69.4	"	412	114.3	91.8	"	492	116.3	60.2	909.62	570	105.4	62.4	"	650	114.1	"	"				
13	29.0	48.1	"	93	112.2	86.1	"	174	106.4	83.1	"	254	110.7	88.1	"	335	105.2	65.6	"	413	103.0	83.1	"	493	103.1	72.1	"	571	113.5	100.4	"	651	118.1	"	"				
14	28.0	41.7	"	94	115.5	121.1	"	175	106.6	68.0	"	255	110.7	88.1	"	336	82.8	72.7	"	414	108.7	66.0	"	494	103.1	72.1	"	572	73.7	100.4	"	652	114.9	"	"				
PIER No. 3				95	111.4	84.9	"	176	105.1	71.5	"	256	111.6	68.0	"	337	105.7	65.6	"	415	104.8	111.3	"	495	113.2	64.6	"	573	89.4	65.1	"	653	119.8	"	"				
15	107.6	100.9	909.62	96	116.9	76.9	"	177	106.1	70.1	"	257	115.5	88.1	"	338	90.2	76.9	"	416	110.6	65.3	"	496	80.3	61.7	"	574	87.1	65.8	"	654	118.7	"	"				
16	97.9	100.9	"	97	112.7	78.4	"	178	104.6	74.5	"	258	109.1	74.5	"	339	105.3	65.6	"	417	104.8	68.0	"	497	104.5	66.0	"	575	100.2	909.62	655	100.4	100.4	909.62					
17	96.3	100.9	"	98	113.6	81.1	"	179	106.4	74.5	"	259	113.8	71.4	"	340	91.0	64.6	"	418	113.4	61.7	"	498	78.4	61.7	"	576	78.7	63.0	"	656	106.0	"	"				
18	96.0	96.9	"	PIER No. 6				180	106.3	77.5	"	260	110.7	73.9	"	341	101.2	65.3	"	419	101.8	87.3	"	499	84.4	61.7	"	577	93.8	104.8	"	657	114.6	"	"				
19	94.5	100.9	"	99	124.1	86.0	909.62	181	104.8	80.7	"	261	110.7	73.9	"	342	85.3	68.7	"	420	110.8	73.9	"	500	84.4	61.7	"	578	75.5	64.7	"	658	115.0	"	"				
20	98.4	"	"	100	109.7	75.7	"	182	107.1	64.0	"	262	115.8	103.5	"	343	90.8	77.3	"	421	104.0	70.9	"	501	92.3	72.7	"	579	65.0	62.4	"	659	115.1	"	"				
21	96.7	"	"	101	113.1	87.9	"	183	105.1	82.1	"	263	110.3	70.9	"	344	83.7	63.0	"	422	107.3	65.1	"	502	76.3	67.4	"	580	82.6	62.4	"	660	113.4	"	"				
22	100.0	107.6	"	102	111.9	106.8	"	184	107.5	75.7	"	264	110.4	70.1	"	345	34.0	41.7	907.23	423	107.5	66.4	909.62	503	73.0	68.0	"	581	60.0	64.6	"	661	113.8	"	"				
23	63.9	100.9	"	103	110.3	85.1	"	185	107.3	69.7	909.62	265	115.9	63.0	909.62	346	34.0	45.1	"	424	107.5	66.4	909.62	504	72.3	63.0	"	582	65.5	63.8	"	662	113.6	"	"				
24	99.9	"	"	104	114.8	96.9	"	186	102.5	82.1	"	266	117.0	63.0	"	347	34.0	54.0	"	425	109.5	67.5	"	505	89.5	79.1	"	583	62.8	63.1	"	663	111.6	"	"				
25	85.1	"	"	105	108.7	74.5	"	187	107.2	70.8	"	267	118.5	67.3	"	348	34.0	41.7	"	426	106.1	67.5	"	506	82.4	75.7	"	584	69.0	61.7	"	664	111.1	"	"				
26	98.7	"	"	106	111.4	129.2	"	188	109.2	67.5	"	268	117.4	76.9	"	349	36.2	54.5	"	427	107.7	63.8	"	507	89.8	69.7	"	585	63.5	66.0	"	665	113.5	"	"				
27	73.3	"	"	107	110.2	83.1	"	189	106.6	68.0	"	269	115.5	60.7	"	350	34.0	41.7	"	428	112.4	83.1	"	508	87.4	68.9	"	586	65.5	63.1	"	666	109.6	"	"				
28	72.9	"	"	108	115.5	91.3	"	190	102.9	66.0	"	270	114.2	71.4	"	351	38.8	54.0	"	429	108.3	76.7	"	509	85.3	66.4	909.62	587	62.2	63.3	"	667	114.5	"	"				
29	59.4	"	"	109	109.5	74.5	"	191	107.1	74.5	"	271	114.2	71.4	"	352	34.0	47.1	"	430	105.3	67.4	"	510	109.8	63.0	"	588	64.8	60.4	"	668	110.6	"	"				
30	102.2	"	"	110	112.7	107.6	"	192	109.9	66.0	"	272	113.2	82.2	"	353	34.0	54.6	"	431	109.4	66.0	"	511	105.7	76.9	"	589	87.2	61.6	"	669	114.5	"	"				
PIER No. 2				111	108.9	107.6	"	193	108.1	72.5	"	273	115.7	83.1	"	354	34.7	44.6	"	432	117.3	83.1	"	512	100.2	70.8	"	590	65.4	63.7	"	670	113.5	"	"				
31	104.0	70.9	909.62	112	111.0	100.8	"	194	108.1	72.5	"	274	116.3	72.5	"	355	35.7	45.1	"	433	113.0	71.4	"	513	100.5	69.9	"	591	54.3	63.7	909.62	671	119.2	100.4	909.62				
32	107.5	74.0	"	113	111.1	75.1	"	195	108.1	72.5	"	275	115.7	83.1	"	356	37.7	43.6	"	434	111.8	66.0	"	514	103.9	69.9	"	592	56.1	76.2	"	672	106.5	"	"				
33	107.0	75.1	"	114	119.0	88.8	"	196	108.3	71.4	"	276	116.2	64.6	"	357	34.0	46.4	"	435	113.4	68.2	"	515	103.8	83.1	"	593	54.8	83.6	"	673	110.3	"	"				
34	105.6	66.1	"	115	116.4	81.1	"	197	107.1	77.5	"	277	114.0	64.6	"	358	37.7	43.6	"	436	114.6	96.1	"	516	105.1	72.7	"	594	56.2	68.0	"	674	97.6	"	"				
35	103.2	121.1	"	116	116.2	82.1	"	198	109.5	72.1	"	278	114.6	74.7	"	359	34.0	45.1	"	437	114.5	63.0	"	517	99.5	92.7	"	595	56.1	71.4	"	675	66.8	63.8	"				
36	98.2	100.9	"	PIER No. 7				199	111.6	74.7	"	279	118.0	76.9	"	360	34.0	45.1	"	438	116.1	86.3	"	518	106.1	76.4	"	596	57.9	64.6	"	676	106.1	100.8	"				
37	101.1	68.7	"	117	115.3	89.2	909.62	200	114.6	83.6	"	280	117.5	88.8	"	361	34.																						