

Appendix G

Noise Calculation Worksheets

1000 Seward Project

Noise Calculations Worksheets

Provided by Acoustical Engineering Services

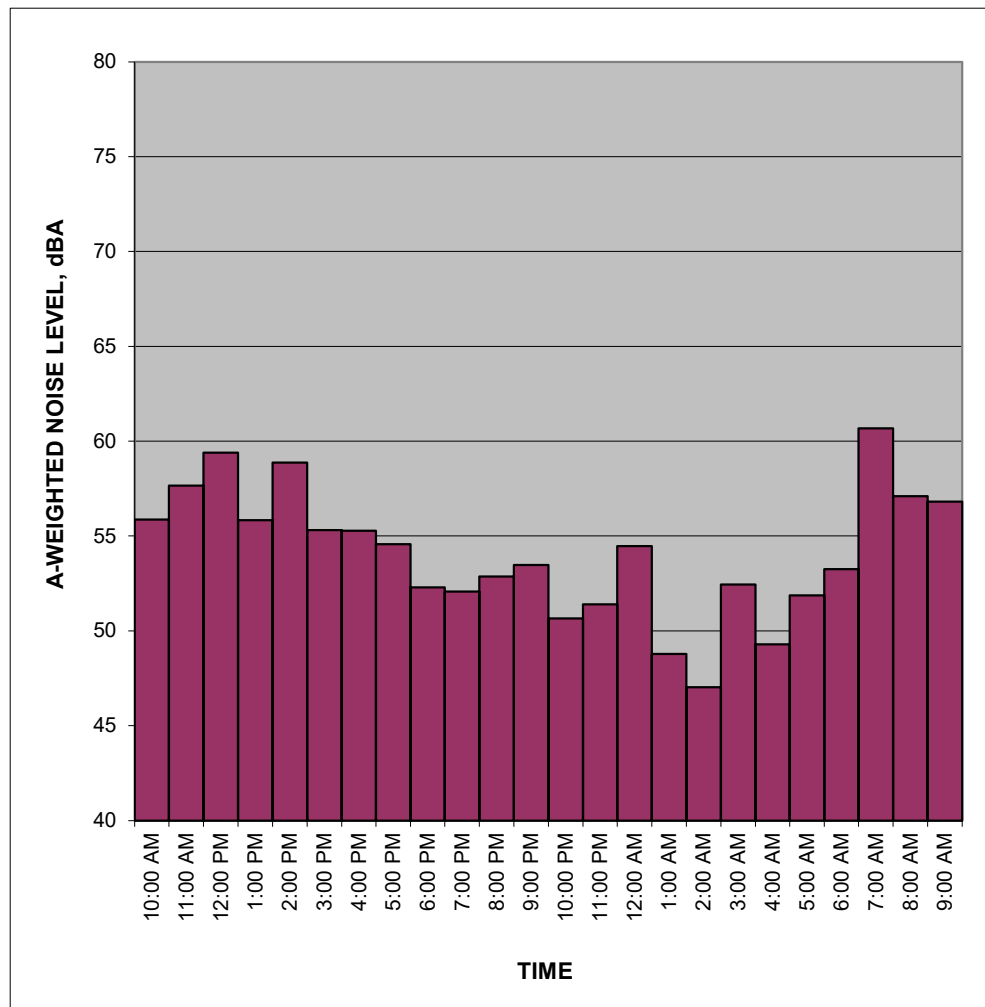
Ambient Noise Measurements

Measured Ambient Noise Levels

Project: 1000 Seward
 Location: R1
 Sources: Ambient

Date: 8/11 - 8/12/2020

TIME	HNL, dB(A)
10:00 AM	55.9
11:00 AM	57.7
12:00 PM	59.4
1:00 PM	55.8
2:00 PM	58.9
3:00 PM	55.3
4:00 PM	55.3
5:00 PM	54.6
6:00 PM	52.3
7:00 PM	52.1
8:00 PM	52.9
9:00 PM	53.5
10:00 PM	50.7
11:00 PM	51.4
12:00 AM	54.5
1:00 AM	48.8
2:00 AM	47.0
3:00 AM	52.4
4:00 AM	49.3
5:00 AM	51.9
6:00 AM	53.2
7:00 AM	60.7
8:00 AM	57.1
9:00 AM	56.8
CNEL, dB(A):	59.4



NOTES:

Daytime average 56.6 dBA Leq
 Nighttime average 51.5 dBA Leq

Project: 1000 Seward
 Location: R2
 Date: 8/11/2020

Time	Overload	Leq	Lmax	L10	L90
9:54:06 AM	No	56.3	58.6	57.9	54.5
9:54:16 AM	No	52.8	53.9	53.5	52.4
9:54:26 AM	No	52.6	53.2	53	52.1
9:54:36 AM	No	53.1	53.9	53.5	52.7
9:54:46 AM	No	53.3	54	53.9	52.7
9:54:56 AM	No	54.1	55.2	55	53.4
9:55:06 AM	No	53.2	54	53.6	52.6
9:55:16 AM	No	50.9	52.7	52.5	48.2
9:55:26 AM	No	48.9	50.4	49.8	47.3
9:55:36 AM	No	53.9	57.1	56.5	50.1
9:55:46 AM	No	52.1	54.2	53.1	51.1
9:55:56 AM	No	51.6	52.6	52.4	51.1
9:56:06 AM	No	50.9	51.3	51.1	50.7
9:56:16 AM	No	50.5	51.7	51.3	49.9
9:56:26 AM	No	49.9	50.8	50.5	49.3
9:56:36 AM	No	49.4	50.1	49.7	49.1
9:56:46 AM	No	50	52	51.3	49.2
9:56:56 AM	No	50.4	53.4	52	49.3
9:57:06 AM	No	49.5	50.3	49.9	49.1
9:57:16 AM	No	50	53.4	51.8	48.7
9:57:26 AM	No	50.1	50.8	50.5	49.5
9:57:36 AM	No	51.7	54.2	53.2	50.5
9:57:46 AM	No	51.1	52.6	52.1	49.9
9:57:56 AM	No	52.6	53.8	53.1	52.2
9:58:06 AM	No	52.6	53.1	52.9	52.4
9:58:16 AM	No	52.7	54	53.5	50.9
9:58:26 AM	No	53.6	54.4	54.1	53.2
9:58:36 AM	No	53.4	54.6	54.4	52.1
9:58:46 AM	No	52.3	52.8	52.6	52
9:58:56 AM	No	50.9	51.9	51.7	50.5
9:59:06 AM	No	52.5	55.4	54.2	50.9
9:59:16 AM	No	58.5	62.9	62.5	52.4
9:59:26 AM	No	53.9	57.9	56.6	52.4
9:59:36 AM	No	52.2	53	52.8	51.3
9:59:46 AM	No	52.9	53.6	53.5	51.8
9:59:56 AM	No	52.5	53.2	52.8	51.8
10:00:06 AM	No	52.4	53.8	53.5	51.3
10:00:16 AM	No	53	53.6	53.3	52.7
10:00:26 AM	No	52.9	53.5	53.3	52.5
10:00:36 AM	No	52.8	53.2	53	52.5
10:00:46 AM	No	59.5	62.6	61.7	53
10:00:56 AM	No	56.2	61.4	60.8	51.7
10:01:06 AM	No	52.8	53.4	53.2	52.3

10:01:16 AM No	52.7	53.5	53.3	52.1
10:01:26 AM No	52.5	53.3	53.1	51.9
10:01:36 AM No	51.9	53.2	52.9	50.7
10:01:46 AM No	50.7	53.1	52.5	48.3
10:01:56 AM No	51.4	54.1	53.8	48.9
10:02:06 AM No	50.9	51.8	51.5	50.4
10:02:16 AM No	53.3	56	55.6	50.9
10:02:26 AM No	52.4	53.5	53.3	50.8
10:02:36 AM No	53.1	55.7	54.4	52.2
10:02:46 AM No	57.6	59.9	59.5	53
10:02:56 AM No	56.7	59.2	58.5	54.5
10:03:06 AM No	54	55.9	55.6	51.9
10:03:16 AM No	54.3	56.9	56.1	53.1
10:03:26 AM No	53.8	55.8	55.2	52.1
10:03:36 AM No	50.9	52.2	51.8	49.9
10:03:46 AM No	50	51.2	50.5	49.1
10:03:56 AM No	49.4	50.4	50.1	48.4
10:04:06 AM No	49.1	50.3	50	48.2
10:04:16 AM No	48.5	49.6	49.3	48
10:04:26 AM No	51	53.3	52.3	48.3
10:04:36 AM No	51.6	52.5	52.2	51.3
10:04:46 AM No	51.5	52.6	52.4	50.1
10:04:56 AM No	50.6	52.7	51.5	49.7
10:05:06 AM No	53.3	55.1	54.7	51.1
10:05:16 AM No	54	55.8	55.6	50.9
10:05:26 AM No	52.4	55.9	55.5	50.5
10:05:36 AM No	50.8	51.4	51.2	50.4
10:05:46 AM No	50.4	51.5	51.1	49.7
10:05:56 AM No	52.9	54.8	54	51.2
10:06:06 AM No	52.1	53.4	52.8	51.7
10:06:16 AM No	52.7	54.3	53.2	51.9
10:06:26 AM No	56	57.8	57.4	54.2
10:06:36 AM No	48.9	52.9	51.2	47.3
10:06:46 AM No	49	49.8	49.7	48.6
10:06:56 AM No	49.7	50.9	50.7	48.6
10:07:06 AM No	48.8	50.6	49.7	48
10:07:16 AM No	48.2	49.3	48.8	47.7
10:07:26 AM No	48.9	50.7	50.3	48.1
10:07:36 AM No	48.9	50.3	49.9	48.1
10:07:46 AM No	47.9	49.3	48.5	47.5
10:07:56 AM No	50.8	55.8	53.3	49.3
10:08:06 AM No	53.5	57.3	56.8	49.5
10:08:16 AM No	50.6	51.3	51	50.2
10:08:26 AM No	51.4	54.2	53.4	50.5
10:08:36 AM No	50.9	51.6	51.3	50.7
10:08:46 AM No	50.6	51.3	51	50.1
10:08:56 AM No	50.8	52.8	51.9	50.3

Time	Overload	Leq	Lmax	L10	L90
11:02:03 PM	No	45.1	47.2	46.1	44.5
11:02:13 PM	No	46.1	48.1	47.5	44.1
11:02:23 PM	No	44.5	46.9	46.3	43.4
11:02:33 PM	No	45	46.5	45.9	44
11:02:43 PM	No	44.5	47.2	46.1	42.8
11:02:53 PM	No	44.3	45.5	45.1	42.8
11:03:03 PM	No	45.3	46.3	46.1	44.6
11:03:13 PM	No	48.3	51.9	51.5	44.6
11:03:23 PM	No	52.5	57.4	54	50.6
11:03:33 PM	No	52.3	57.4	54.5	50.6
11:03:43 PM	No	49	56.5	53.9	42.8
11:03:53 PM	No	45.5	47.9	47.3	43.7
11:04:03 PM	No	44.9	46.9	46.1	43.6
11:04:13 PM	No	49.8	54.8	53.4	44.6
11:04:23 PM	No	45.2	48.3	47.5	43
11:04:33 PM	No	48.6	50.4	50.1	46.1
11:04:43 PM	No	45.1	47.6	46.9	43.3
11:04:53 PM	No	43.8	44.8	44.6	43.1
11:05:03 PM	No	45.3	47.8	46.7	44.2
11:05:13 PM	No	45.8	47.2	46.8	44.9
11:05:23 PM	No	48.5	52.5	51.4	46
11:05:33 PM	No	60.6	64.5	64.2	53.7
11:05:43 PM	No	49.5	55.3	53.3	44.9
11:05:53 PM	No	44.2	44.8	44.6	44
11:06:03 PM	No	43.9	44.3	44.2	43.8
11:06:13 PM	No	44.1	44.8	44.6	43.5
11:06:23 PM	No	43.2	43.6	43.4	43
11:06:33 PM	No	44.2	44.8	44.6	44
11:06:43 PM	No	44.1	45.1	44.9	43.7
11:06:53 PM	No	48.6	54.5	52.6	44.6
11:07:03 PM	No	53.6	55.9	55.6	49
11:07:13 PM	No	46.2	48.3	47.5	45
11:07:23 PM	No	44	44.8	44.3	43.9
11:07:33 PM	No	43.8	44.3	44.1	43.6
11:07:43 PM	No	43.9	44.6	44.4	43.7
11:07:53 PM	No	43.9	44.8	44.4	43.7
11:08:03 PM	No	44.1	44.8	44.6	43.6
11:08:13 PM	No	44.1	44.8	44.6	43.7
11:08:23 PM	No	44.2	44.8	44.6	43.9
11:08:33 PM	No	46	47	46.9	44.6
11:08:43 PM	No	49.2	52.9	52.6	45.2
11:08:53 PM	No	47.1	52.1	50	44.9
11:09:03 PM	No	45.3	46.5	46.3	44.8
11:09:13 PM	No	55	58.6	57.8	47.6
11:09:23 PM	No	50.2	54.9	53.9	45.5
11:09:33 PM	No	45	46.5	46	44.4

11:09:43 PM No	45.5	51	48.1	43.9
11:09:53 PM No	44.6	45.9	45.1	44.2
11:10:03 PM No	44.9	46.1	45.5	44.4
11:10:13 PM No	45.2	46.4	46.1	44.3
11:10:23 PM No	44.5	45.3	45.1	44.1
11:10:33 PM No	45.4	46.5	46.2	44.9
11:10:43 PM No	44.7	45.5	45.3	44.3
11:10:53 PM No	45.9	48.7	48	44.1
11:11:03 PM No	46.1	48.5	47.3	45.3
11:11:13 PM No	44.8	45.3	45.1	44.4
11:11:23 PM No	43.8	44.6	44.2	43.4
11:11:33 PM No	44.1	45.3	44.8	43.6
11:11:43 PM No	46.7	48.2	48	45.2
11:11:53 PM No	55	59.4	58.7	46.5
11:12:03 PM No	45.7	49.9	48	44.1
11:12:13 PM No	44.2	44.8	44.5	43.9
11:12:23 PM No	44.4	46.1	45.4	43.8
11:12:33 PM No	44.5	46.1	45.3	44.2
11:12:43 PM No	44.4	45.4	44.8	44
11:12:53 PM No	45	47.2	45.7	44.4
11:13:03 PM No	44.7	46.7	45.9	44.1
11:13:13 PM No	44.3	44.8	44.5	44.1
11:13:23 PM No	44.1	45	44.4	43.8
11:13:33 PM No	44.4	45.5	45.1	44.1
11:13:43 PM No	45.1	46.5	46.2	44.2
11:13:53 PM No	49.8	53.3	52.9	46.4
11:14:03 PM No	51.3	54.3	54	47.3
11:14:13 PM No	44.5	46.2	45.3	43.8
11:14:23 PM No	43.9	44.5	44.2	43.7
11:14:33 PM No	43.8	44.6	44.3	43.6
11:14:43 PM No	44.3	45	44.7	44
11:14:53 PM No	44	44.6	44.3	43.8
11:15:03 PM No	44.2	45	44.7	43.9
11:15:13 PM No	45.8	51.7	48.2	44.1
11:15:23 PM No	43.9	44.2	44.1	43.7
11:15:33 PM No	53.8	63.5	59.6	44
11:15:43 PM No	47	54	50.5	44.1
11:15:53 PM No	44.5	45.7	45.3	44
11:16:03 PM No	45.8	48.4	47.4	44
11:16:13 PM No	44.3	46.2	45.3	43.3
11:16:23 PM No	45.3	50.2	47.5	43.6
11:16:33 PM No	42.8	43.8	43.4	42.2
11:16:43 PM No	43.9	48	45	41.9
11:16:53 PM No	43.9	45.9	45.3	43

48.1

Project: 1000 Seward
 Location: R3
 Date: 8/11/2020

Time	Overload	Leq	Lmax	L10	L90
10:10:43 AM	No	49.3	55.3	52.1	47.3
10:10:53 AM	No	49.6	53.4	51.7	47.7
10:11:03 AM	No	52.2	56	54.7	49.1
10:11:13 AM	No	53	56.3	54.9	50.5
10:11:23 AM	No	53.9	57.7	56	50.9
10:11:33 AM	No	52.3	56	54.2	49.9
10:11:43 AM	No	50.1	52.4	51.5	48.5
10:11:53 AM	No	51.9	56.9	55	49
10:12:03 AM	No	52.7	56.7	54.9	50.4
10:12:13 AM	No	51.9	54.7	53.4	50.9
10:12:23 AM	No	52	54.3	53.4	50.9
10:12:33 AM	No	51	53.7	52.5	48.9
10:12:43 AM	No	56	60.8	59.6	51.1
10:12:53 AM	No	51.7	54.2	53	50.8
10:13:03 AM	No	56.6	62	60.9	51.5
10:13:13 AM	No	53.6	57.7	56.1	51.1
10:13:23 AM	No	58.1	63.3	62.2	51.7
10:13:33 AM	No	50.4	51.4	51.1	50.1
10:13:43 AM	No	50.6	51.2	50.9	50.3
10:13:53 AM	No	55.2	59.9	58.7	50.9
10:14:03 AM	No	51.5	54.1	52.8	50.6
10:14:13 AM	No	50.6	51.1	50.9	50.2
10:14:23 AM	No	50.8	51.5	51.3	50.6
10:14:33 AM	No	50.7	51.1	50.9	50.4
10:14:43 AM	No	49.9	50.7	50.4	49.5
10:14:53 AM	No	48.9	49.7	49.5	48.2
10:15:03 AM	No	47.7	49.7	48.9	47.1
10:15:13 AM	No	50.8	51.6	51.3	50.3
10:15:23 AM	No	50.5	50.9	50.7	50.3
10:15:33 AM	No	50.1	50.7	50.5	49.7
10:15:43 AM	No	49.8	50.2	50	49.6
10:15:53 AM	No	49.9	50.9	50.5	49.7
10:16:03 AM	No	50.1	50.8	50.5	49.7
10:16:13 AM	No	50.4	51.3	51.1	49.7
10:16:23 AM	No	50.4	51.2	50.9	49.7
10:16:33 AM	No	50.2	51	50.8	49.7
10:16:43 AM	No	58.7	65	63.6	49.6
10:16:53 AM	No	52.4	58.6	55.9	49.4
10:17:03 AM	No	48.5	49.7	49.5	47.7
10:17:13 AM	No	47.5	48	47.7	47.3
10:17:23 AM	No	47.7	48.2	47.9	47.6
10:17:33 AM	No	47.4	47.8	47.6	47.2
10:17:43 AM	No	49	53.3	51.4	47.3

10:17:53 AM No	55.6	61	59.9	48.9
10:18:03 AM No	48.5	49.2	48.9	47.5
10:18:13 AM No	47.4	47.8	47.6	47.2
10:18:23 AM No	47.7	48.1	47.9	47.6
10:18:33 AM No	50.3	55.9	53.6	47.7
10:18:43 AM No	55.1	60.7	59.7	48.3
10:18:53 AM No	47.7	48.2	48	47.5
10:19:03 AM No	47.7	48.5	48.2	47.3
10:19:13 AM No	47.9	48.3	48.1	47.8
10:19:23 AM No	48.2	48.6	48.5	48
10:19:33 AM No	48.6	49.5	49.1	48.4
10:19:43 AM No	61.6	68.1	66.5	50.9
10:19:53 AM No	50.7	54.8	52.9	48.7
10:20:03 AM No	50.9	53.5	52.7	48.9
10:20:13 AM No	50.8	52.7	52.2	49.8
10:20:23 AM No	50.1	50.9	50.6	49.6
10:20:33 AM No	51	52.5	52	50.5
10:20:43 AM No	49	50.4	50	48.2
10:20:53 AM No	49.4	50.5	50	48.6
10:21:03 AM No	48.8	49.9	49.7	48
10:21:13 AM No	49.3	55.3	52.7	47.6
10:21:23 AM No	50	55.4	52.9	48
10:21:33 AM No	50.3	56.5	53.4	47.9
10:21:43 AM No	47.9	48.5	48.1	47.7
10:21:53 AM No	47.9	49.2	48.8	47.4
10:22:03 AM No	47.7	48.6	48.1	47.5
10:22:13 AM No	47.7	48.3	48.1	47.4
10:22:23 AM No	49	54.1	51.3	47.7
10:22:33 AM No	48.1	49.2	48.5	47.8
10:22:43 AM No	48.3	49.3	49	47.6
10:22:53 AM No	47.7	48.1	48	47.6
10:23:03 AM No	50.7	58.2	52.7	48.5
10:23:13 AM No	53.4	58.9	57.9	49.1
10:23:23 AM No	53	60.8	56	49
10:23:33 AM No	55.6	61.5	60.3	50.5
10:23:43 AM No	54.1	59.1	56.5	51.1
10:23:53 AM No	53.9	58.7	56.8	51.1
10:24:03 AM No	51	54.2	53	48.7
10:24:13 AM No	48.3	48.9	48.7	48
10:24:23 AM No	48.6	49.5	49.1	48.2
10:24:33 AM No	48.3	49.1	48.8	47.9
10:24:43 AM No	47.4	48.7	48.2	46.7
10:24:53 AM No	51.4	57.6	54.9	45.8
10:25:03 AM No	46	50.7	48.2	44.9
10:25:13 AM No	45.9	49.7	47.2	44.9
10:25:23 AM No	54.2	58.1	57.6	47.5
10:25:33 AM No	48.9	54.9	52.3	45.6

Time	Overload	Leq	Lmax	L10	L90
11:18:56 PM	No	44.6	47.7	45.9	42.9
11:19:06 PM	No	42.8	43.5	43.2	42.5
11:19:16 PM	No	42.8	43.7	43.1	42.5
11:19:26 PM	No	57	63	61.5	43.3
11:19:36 PM	No	50.4	57.6	54.8	46
11:19:46 PM	No	43.3	44.7	44.2	42.4
11:19:56 PM	No	42.2	42.7	42.4	41.9
11:20:06 PM	No	42.2	43.2	42.9	41.8
11:20:16 PM	No	42.2	43.9	42.9	41.3
11:20:26 PM	No	41.6	42.4	42	41.3
11:20:36 PM	No	43.6	46.7	45.8	41.3
11:20:46 PM	No	51.4	53.2	52.8	47.7
11:20:56 PM	No	46.3	49.5	48.3	44.5
11:21:06 PM	No	56.5	60.1	59.7	50
11:21:16 PM	No	46.3	49	47.3	45.3
11:21:26 PM	No	47.1	48.6	48.1	46
11:21:36 PM	No	47.1	48.4	47.9	46.4
11:21:46 PM	No	45.2	46.5	46	44.4
11:21:56 PM	No	43.3	45.8	44.9	42
11:22:06 PM	No	48.8	52.1	51.5	45.9
11:22:16 PM	No	43.4	45.5	44.3	42.7
11:22:26 PM	No	41.5	42.8	42.1	41.2
11:22:36 PM	No	45.7	50.6	48.4	41.3
11:22:46 PM	No	41.5	42.8	42.1	41.1
11:22:56 PM	No	41	41.7	41.5	40.7
11:23:06 PM	No	41.2	41.8	41.7	40.9
11:23:16 PM	No	49.4	57.7	54.3	41.7
11:23:26 PM	No	53.3	56.3	55.9	48
11:23:36 PM	No	42.5	47.1	44.8	41.1
11:23:46 PM	No	42.1	43.4	42.9	41.4
11:23:56 PM	No	41.2	42	41.7	40.9
11:24:06 PM	No	41.6	42.8	42.2	41.1
11:24:16 PM	No	41.4	42	41.7	41.2
11:24:26 PM	No	41	41.3	41.2	40.9
11:24:36 PM	No	41.8	44.6	42.8	41.3
11:24:46 PM	No	43	48.4	46	40.9
11:24:56 PM	No	43.5	51.2	42.6	41.4
11:25:06 PM	No	42.7	48.6	45.5	40.8
11:25:16 PM	No	41.4	43.1	42	41
11:25:26 PM	No	42.9	46.9	44.4	41.5
11:25:36 PM	No	41.2	41.7	41.5	41.1
11:25:46 PM	No	41.4	42	41.7	41.3
11:25:56 PM	No	42.1	42.5	42.4	41.8
11:26:06 PM	No	43	43.6	43.3	42.6
11:26:16 PM	No	43.3	43.8	43.7	42.9
11:26:26 PM	No	43.6	45.4	44.6	43.1

11:26:36 PM No	53.9	57.9	57.2	46
11:26:46 PM No	54	57.1	55.6	50.8
11:26:56 PM No	53.6	54.9	54.5	52.8
11:27:06 PM No	50.7	53.7	53.3	48.1
11:27:16 PM No	45.3	47.4	46.3	44.6
11:27:26 PM No	44.4	46.9	45.5	42.7
11:27:36 PM No	42.4	43	42.7	42.1
11:27:46 PM No	43	43.9	43.7	42.4
11:27:56 PM No	44.5	47.9	47.1	41.7
11:28:06 PM No	41.4	41.9	41.7	41.2
11:28:16 PM No	42	43.4	42.7	41.6
11:28:26 PM No	41.2	41.6	41.5	41.1
11:28:36 PM No	41.4	41.9	41.7	41.3
11:28:46 PM No	42.1	43.5	43.1	41.5
11:28:56 PM No	44	49.9	47.3	41.7
11:29:06 PM No	41.6	42.4	42	41.3
11:29:16 PM No	41.9	42.8	42.5	41.5
11:29:26 PM No	43	46.5	44.4	42.2
11:29:36 PM No	43.2	45.3	44.2	42.2
11:29:46 PM No	43.5	44.3	44.2	42.5
11:29:56 PM No	41.9	43.6	42.6	41.6
11:30:06 PM No	42	43.2	42.8	41.7
11:30:16 PM No	42.6	46.8	44.8	41.5
11:30:26 PM No	41.9	43.9	42.9	41.3
11:30:36 PM No	42.5	44.6	43.6	41.8
11:30:46 PM No	46.1	51.7	49.8	41.9
11:30:56 PM No	53.5	57.7	56.8	43.9
11:31:06 PM No	42.1	43.2	43	41.4
11:31:16 PM No	41.5	42.4	41.9	41.3
11:31:26 PM No	41.8	44.3	42.8	41.2
11:31:36 PM No	41.8	43	42.7	41.2
11:31:46 PM No	41.6	42.6	42.1	41.3
11:31:56 PM No	45.5	49.9	49.2	41.5
11:32:06 PM No	42.4	44.5	43.5	41.7
11:32:16 PM No	43.3	46.4	44.7	42.1
11:32:26 PM No	41.7	42.3	42.1	41.5
11:32:36 PM No	42	42.9	42.4	41.5
11:32:46 PM No	42.1	42.7	42.5	41.9
11:32:56 PM No	43.3	47.5	45	42
11:33:06 PM No	44.2	48.5	46.2	42.6
11:33:16 PM No	43.3	44.3	43.9	42.7
11:33:26 PM No	43.8	45.6	45.1	42.8
11:33:36 PM No	44.9	49.5	46.9	43.6
11:33:46 PM No	49.4	55.6	55	43.4

46.8

Project: 1000 Seward
 Location: R4
 Date: 8/11/2020

Time	Overload	Leq	Lmax	L10	L90
10:30:44 AM	No	57.1	61.4	60.7	50.4
10:30:54 AM	No	48.3	51.9	49.9	47.1
10:31:04 AM	No	46.8	47.6	47.3	46.4
10:31:14 AM	No	46.8	47.3	47	46.4
10:31:24 AM	No	48.5	51.4	49.7	47.1
10:31:34 AM	No	58.8	63.8	63.3	48.8
10:31:44 AM	No	48	48.9	48.6	47.2
10:31:54 AM	No	48	53.2	50.5	46.3
10:32:04 AM	No	47	49.4	48.3	46.4
10:32:14 AM	No	57.8	67	63.1	47.7
10:32:24 AM	No	52	56.1	54	48.9
10:32:34 AM	No	55.1	58	57.7	51.6
10:32:44 AM	No	58	65.9	62.1	52.7
10:32:54 AM	No	53.9	57.9	57.3	48.9
10:33:04 AM	No	50.8	56.8	55.1	46.9
10:33:14 AM	No	47	49	48.1	46.1
10:33:24 AM	No	47.4	48.1	47.8	47.1
10:33:34 AM	No	47.2	51.3	49.1	46.3
10:33:44 AM	No	47.4	50.1	48.4	46.7
10:33:54 AM	No	46.9	48.1	47.7	46.1
10:34:04 AM	No	46.6	48.1	47	46.3
10:34:14 AM	No	54.5	59.8	59.3	46.8
10:34:24 AM	No	52.9	59	57.7	47.2
10:34:34 AM	No	46.3	46.9	46.6	46
10:34:44 AM	No	46	46.5	46.3	45.7
10:34:54 AM	No	46.2	47.1	46.6	45.9
10:35:04 AM	No	48	51.1	49.6	46.8
10:35:14 AM	No	48	48.7	48.5	47.5
10:35:24 AM	No	50.6	52.4	51.9	48.5
10:35:34 AM	No	50.8	52.3	51.8	49.7
10:35:44 AM	No	48.8	50.4	49.5	48.2
10:35:54 AM	No	48.4	48.9	48.7	48.2
10:36:04 AM	No	48.3	48.7	48.6	48.2
10:36:14 AM	No	48.4	48.9	48.7	48.2
10:36:24 AM	No	49.1	50.1	49.6	48.7
10:36:34 AM	No	50.3	52.7	51.7	48.9
10:36:44 AM	No	48.5	48.9	48.7	48.3
10:36:54 AM	No	48.5	49.1	48.9	48.2
10:37:04 AM	No	48.3	49	48.9	47.4
10:37:14 AM	No	46.6	47	46.8	46.3
10:37:24 AM	No	46.8	48	47.3	46.4
10:37:34 AM	No	46.7	47.3	47	46.4
10:37:44 AM	No	46.6	47.9	47.3	46.3

10:37:54 AM No	46.9	47.7	47.1	46.7
10:38:04 AM No	47.1	47.5	47.3	46.8
10:38:14 AM No	48	49.1	48.9	47.2
10:38:24 AM No	47.5	48.5	48.1	47
10:38:34 AM No	48.4	50.1	49.9	47
10:38:44 AM No	49.7	51.9	51.6	47.1
10:38:54 AM No	46.9	47.6	47.2	46.7
10:39:04 AM No	48	49.7	49.3	47.2
10:39:14 AM No	46.9	47.4	47.2	46.4
10:39:24 AM No	47.1	48.5	48.2	46.4
10:39:34 AM No	56	60.3	59.9	48.6
10:39:44 AM No	48.1	52	49.8	47.1
10:39:54 AM No	49.8	53.2	52	48
10:40:04 AM No	48.3	49.6	49.3	47.5
10:40:14 AM No	47.4	48.1	47.7	47.1
10:40:24 AM No	60	66.7	65.8	47.9
10:40:34 AM No	55.1	63.8	60.3	47.4
10:40:44 AM No	47.5	48	47.8	47.2
10:40:54 AM No	46.9	47.5	47.2	46.6
10:41:04 AM No	47.1	48	47.7	46.8
10:41:14 AM No	47.2	48	47.5	47
10:41:24 AM No	62.1	68.4	67.5	48.4
10:41:34 AM No	53.6	62.4	58.6	47.2
10:41:44 AM No	46.8	47.4	47	46.5
10:41:54 AM No	46.4	46.7	46.5	46.2
10:42:04 AM No	46.8	47.6	47.3	46.3
10:42:14 AM No	46.7	47.8	47.1	46.3
10:42:24 AM No	47.3	48.7	48.2	46.6
10:42:34 AM No	46.6	48.1	47.6	46.2
10:42:44 AM No	46.3	46.7	46.5	46
10:42:54 AM No	46.6	47.3	47	46.3
10:43:04 AM No	47.2	48.3	47.8	46.8
10:43:14 AM No	48.2	51.5	49.3	47.3
10:43:24 AM No	61.4	64.8	64.5	52.3
10:43:34 AM No	56.5	63.7	61.2	50.9
10:43:44 AM No	59.2	63.2	62.5	52.5
10:43:54 AM No	47.7	50.5	49.1	46.7
10:44:04 AM No	46.6	47.8	47.1	46.3
10:44:14 AM No	47	48.2	47.8	46
10:44:24 AM No	46.1	46.8	46.5	45.7
10:44:34 AM No	46.3	46.8	46.5	45.9
10:44:44 AM No	46	46.4	46.2	45.9
10:44:54 AM No	46.4	47.9	47.6	45.9
10:45:04 AM No	48.2	49.8	49	47.2
10:45:14 AM No	49.1	50.7	50.4	48
10:45:24 AM No	49.4	51.6	50.1	48.6
10:45:34 AM No	48.6	50.1	49.3	48

Time	Overload	Leq	Lmax	L10	L90
11:38:25 PM	No	49.3	52.1	50.9	48
11:38:35 PM	No	48.3	50.3	49.6	47.7
11:38:45 PM	No	47.8	48.4	48.1	47.6
11:38:55 PM	No	48.2	49.3	48.9	47.7
11:39:05 PM	No	47.6	47.9	47.7	47.4
11:39:15 PM	No	47.7	48.5	48	47.5
11:39:25 PM	No	48.2	50.4	49.3	47.7
11:39:35 PM	No	48	50	48.9	47.5
11:39:45 PM	No	47.8	48.2	48	47.7
11:39:55 PM	No	47.6	48.1	47.8	47.5
11:40:05 PM	No	48	48.8	48.4	47.7
11:40:15 PM	No	48.4	50.4	49.6	47.7
11:40:25 PM	No	47.9	48.3	48.1	47.7
11:40:35 PM	No	48.6	52.7	51.3	47.3
11:40:45 PM	No	47.7	49.4	48.2	47.3
11:40:55 PM	No	48.1	48.7	48.5	47.7
11:41:05 PM	No	48.1	48.6	48.4	47.9
11:41:15 PM	No	48.3	48.6	48.5	48.1
11:41:25 PM	No	48.5	50.5	49.1	47.9
11:41:35 PM	No	49	52	50.2	48.3
11:41:45 PM	No	48.9	50.7	50.2	48.3
11:41:55 PM	No	48.8	50	49.6	48.1
11:42:05 PM	No	48	48.4	48.3	47.9
11:42:15 PM	No	47.9	48.2	48.1	47.7
11:42:25 PM	No	47.7	48.1	47.9	47.6
11:42:35 PM	No	47.6	47.9	47.7	47.5
11:42:45 PM	No	47.6	48.2	48	47.5
11:42:55 PM	No	48.1	48.4	48.3	47.9
11:43:05 PM	No	47.5	48.5	48.2	46.6
11:43:15 PM	No	46.2	46.6	46.3	46
11:43:25 PM	No	47.5	50.6	49.5	46.2
11:43:35 PM	No	48.1	50.4	49.6	46.8
11:43:45 PM	No	48.2	51.2	50	47
11:43:55 PM	No	49.7	52.5	52.3	46.7
11:44:05 PM	No	46.9	47.7	47.3	46.6
11:44:15 PM	No	46.7	48	47.3	46.1
11:44:25 PM	No	46.5	49.4	47.8	45.9
11:44:35 PM	No	46.1	47.3	46.6	45.5
11:44:45 PM	No	45.9	46.6	46.4	45.4
11:44:55 PM	No	45.7	46.4	46.1	45.3
11:45:05 PM	No	45.3	45.8	45.5	45.1
11:45:15 PM	No	45.6	45.9	45.7	45.3
11:45:25 PM	No	45.7	46.1	45.9	45.5
11:45:35 PM	No	45.8	46.1	45.9	45.6
11:45:45 PM	No	45.7	46.4	46.1	45.5
11:45:55 PM	No	45.9	46.4	46.1	45.6

11:46:05 PM No	46.5	49.5	47.7	45.9
11:46:15 PM No	46.2	46.7	46.4	46
11:46:25 PM No	46.3	46.8	46.5	46
11:46:35 PM No	46.2	47	46.4	45.9
11:46:45 PM No	46.9	48.4	47.9	46.2
11:46:55 PM No	46.3	47.1	46.6	46.1
11:47:05 PM No	46	46.3	46.1	45.7
11:47:15 PM No	45.9	46.3	46.1	45.7
11:47:25 PM No	46	46.5	46.4	45.7
11:47:35 PM No	46.3	46.7	46.5	46.1
11:47:45 PM No	46.2	46.5	46.3	46
11:47:55 PM No	46.1	46.5	46.4	45.9
11:48:05 PM No	46.4	47	46.8	46
11:48:15 PM No	47.5	48.3	48.1	46.7
11:48:25 PM No	47.5	47.9	47.7	47.4
11:48:35 PM No	47.6	48	47.8	47.5
11:48:45 PM No	47.8	48.2	48.1	47.6
11:48:55 PM No	47.8	48.2	48.1	47.6
11:49:05 PM No	47.7	48	47.9	47.5
11:49:15 PM No	47.6	48.1	47.9	47.5
11:49:25 PM No	47.6	47.9	47.8	47.4
11:49:35 PM No	47.5	48.3	47.8	47.3
11:49:45 PM No	47.5	48	47.7	47.4
11:49:55 PM No	47.5	47.8	47.7	47.4
11:50:05 PM No	48.1	48.9	48.6	47.7
11:50:15 PM No	47.8	48.2	48	47.7
11:50:25 PM No	47.8	48.1	48	47.7
11:50:35 PM No	47.8	48.1	48	47.7
11:50:45 PM No	47.3	47.8	47.6	47.3
11:50:55 PM No	47.5	47.8	47.7	47.3
11:51:05 PM No	47.6	47.9	47.7	47.4
11:51:15 PM No	47.4	47.8	47.6	47.3
11:51:25 PM No	47.5	48.2	47.9	47.3
11:51:35 PM No	47.6	48.6	47.9	47.4
11:51:45 PM No	47.4	47.7	47.6	47.3
11:51:55 PM No	47.3	47.7	47.5	47.1
11:52:05 PM No	47.3	47.9	47.5	47.3
11:52:15 PM No	47.4	47.7	47.6	47.3
11:52:25 PM No	47.6	49.2	48.1	47.3
11:52:35 PM No	47.3	47.8	47.6	47.1
11:52:45 PM No	53.1	61.6	58.3	47.3
11:52:55 PM No	60.5	65.7	65.4	48.1
11:53:05 PM No	47.5	48.2	48	46.3
11:53:15 PM No	45.7	46.1	46	45.5

48.4

Project: 1000 Seward
 Location: R5
 Date: 8/11/2020

Time	Overload	Leq	Lmax	L10	L90
10:50:56 AM	No	49.3	52.4	51.3	47.7
10:51:06 AM	No	49.1	51.5	51.1	46.8
10:51:16 AM	No	53.2	56.9	55.7	50.3
10:51:26 AM	No	51.7	53.8	53.3	49.5
10:51:36 AM	No	46	48.4	47.8	44.6
10:51:46 AM	No	51.9	56.5	54.4	46.9
10:51:56 AM	No	52.1	53.8	53	51.1
10:52:06 AM	No	56.7	61	60.6	52.6
10:52:16 AM	No	53	57.7	55.7	51.1
10:52:26 AM	No	52.9	53.8	53.6	51.9
10:52:36 AM	No	60.6	65.3	64.9	53.2
10:52:46 AM	No	53.6	58.4	56.1	51.7
10:52:56 AM	No	60.9	65.1	62.3	58.5
10:53:06 AM	No	66.8	70.9	70.5	61.8
10:53:16 AM	No	57.9	61.1	59.8	54.8
10:53:26 AM	No	53.9	58.8	56.5	51.8
10:53:36 AM	No	50.2	52.4	51.9	49.1
10:53:46 AM	No	52.2	54.3	53.7	50.1
10:53:56 AM	No	53.8	56.4	56	51.8
10:54:06 AM	No	53.2	54.4	54	52.2
10:54:16 AM	No	53.8	54.8	54.4	52.8
10:54:26 AM	No	53	55	54.7	51.3
10:54:36 AM	No	51.3	52.6	52.2	50
10:54:46 AM	No	50.9	51.9	51.3	50.3
10:54:56 AM	No	55.3	58.5	57	51.3
10:55:06 AM	No	56.3	58.6	58.1	54.4
10:55:16 AM	No	54.7	59.1	56.1	52.7
10:55:26 AM	No	58	61.4	60	55.7
10:55:36 AM	No	54.8	57.1	56.5	50.7
10:55:46 AM	No	52.3	55.5	53.9	50.9
10:55:56 AM	No	50.4	53.5	52.1	49.1
10:56:06 AM	No	54.6	57.1	56.4	51.9
10:56:16 AM	No	53.6	56.1	55	52.4
10:56:26 AM	No	56.8	60	59.1	53
10:56:36 AM	No	57.6	59.6	59.2	55.5
10:56:46 AM	No	57.2	60.3	59.7	53.9
10:56:56 AM	No	52.1	54.6	53	51.3
10:57:06 AM	No	58	60.7	60.2	54.6
10:57:16 AM	No	58.5	61.9	61.7	52.5
10:57:26 AM	No	58.2	60	59.7	55.2
10:57:36 AM	No	51.2	55.9	54.2	48.4
10:57:46 AM	No	49.1	51.7	51	47.6
10:57:56 AM	No	50.4	54	52.4	48

10:58:06 AM No	54.3	56.5	55.9	52.5
10:58:16 AM No	54.4	56.5	56.1	52.4
10:58:26 AM No	54.1	57.5	56	51.6
10:58:36 AM No	49.7	50.7	50.4	48.5
10:58:46 AM No	52	54.5	54.2	49.6
10:58:56 AM No	55.2	58.7	57	53.3
10:59:06 AM No	60.5	63.4	61.9	58.6
10:59:16 AM No	68.9	72.4	72.2	59.5
10:59:26 AM No	55.3	57	56.3	53.7
10:59:36 AM No	63.8	69	68.1	55.3
10:59:46 AM No	53.7	55.7	54.9	52.4
10:59:56 AM No	62.4	70.5	68.1	52.4
11:00:06 AM No	59.5	64.1	62.6	55
11:00:16 AM No	57.8	62.4	61.6	51.1
11:00:26 AM No	50.4	52.9	51.9	48.7
11:00:36 AM No	54.8	61.7	59.8	46.5
11:00:46 AM No	48.1	52.7	51	45.6
11:00:56 AM No	51	56.9	52	49.1
11:01:06 AM No	51.8	56.9	54.8	48.3
11:01:16 AM No	52.5	55.1	54.5	49.5
11:01:26 AM No	53.7	56.7	55.7	51.3
11:01:36 AM No	58.1	61	60.7	54.5
11:01:46 AM No	53.8	57.1	56.7	48.9
11:01:56 AM No	53.4	55.7	55.3	51.3
11:02:06 AM No	55.6	57.3	56.9	54.4
11:02:16 AM No	55.2	58.8	58.4	50.5
11:02:26 AM No	49	50.3	49.7	48.2
11:02:36 AM No	47.4	48.3	48.1	46.3
11:02:46 AM No	49.1	55	52.1	46.1
11:02:56 AM No	55.4	57.8	57.3	53.5
11:03:06 AM No	58.2	60.7	60.4	55.2
11:03:16 AM No	57.9	60	59.5	55.9
11:03:26 AM No	55.9	58.4	57.6	50.4
11:03:36 AM No	58.9	63.9	62.8	54.2
11:03:46 AM No	65.1	72.5	69.9	55.8
11:03:56 AM No	63.4	68.3	67	58.5
11:04:06 AM No	60.8	63.9	62.6	58.1
11:04:16 AM No	58.4	61.3	60.9	55.9
11:04:26 AM No	58.3	61.4	60.4	55.9
11:04:36 AM No	55.5	57.6	57.1	54
11:04:46 AM No	53.6	56.6	55.6	49.7
11:04:56 AM No	49.3	51.3	50.9	48.5
11:05:06 AM No	52.2	53.7	53	51.1
11:05:16 AM No	53.3	54.4	54.1	52.5
11:05:26 AM No	54.2	58.2	56.1	52.7
11:05:36 AM No	53.1	56.8	55.6	50.6
11:05:46 AM No	49.9	52.6	51.5	48.8

Time	Overload	Leq	Lmax	L10	L90
11:56:25 PM	No	53.7	61.2	59.5	46.1
11:56:35 PM	No	44.8	46.9	46.3	43.2
11:56:45 PM	No	42.4	43.6	43	41.9
11:56:55 PM	No	44.9	48.3	47.6	42.8
11:57:05 PM	No	50	56.6	52.5	46.7
11:57:15 PM	No	49.7	55.9	53.9	45.3
11:57:25 PM	No	51.9	54.8	54.3	47.5
11:57:35 PM	No	44.9	46.5	45.7	44.4
11:57:45 PM	No	53.5	58.7	57.7	45.7
11:57:55 PM	No	48.4	53.2	51.8	45.5
11:58:05 PM	No	47.6	53.1	51.2	45
11:58:15 PM	No	50.4	53	52.5	46
11:58:25 PM	No	48.7	53.3	52.7	45.5
11:58:35 PM	No	46.1	46.5	46.3	45.7
11:58:45 PM	No	46.4	47.8	46.9	46
11:58:55 PM	No	51.6	54.1	53.8	48.9
11:59:05 PM	No	56.5	58.5	58.1	54
11:59:15 PM	No	51.6	54.8	54	48.7
11:59:25 PM	No	50.4	52.5	52.1	48.2
11:59:35 PM	No	49.7	51.4	50.9	48.8
11:59:45 PM	No	49.8	51.1	50.9	49.1
11:59:55 PM	No	52.7	55.2	55	50.9
12:00:05 AM	No	54.1	55.2	55	53.4
12:00:15 AM	No	58.5	61.8	61.5	54.9
12:00:25 AM	No	59.5	61.9	61.6	53.9
12:00:35 AM	No	52.2	55.2	54.2	50.5
12:00:45 AM	No	62	66.9	65.9	51.4
12:00:55 AM	No	63.8	67.6	67.1	54.8
12:01:05 AM	No	52.2	56.8	55.6	49.4
12:01:15 AM	No	51.9	56.4	55.8	45
12:01:25 AM	No	44.8	46	45.7	44.2
12:01:35 AM	No	48.2	51.7	50.6	46.1
12:01:45 AM	No	49.8	54.1	52.4	46.1
12:01:55 AM	No	59.1	61.4	60.9	52.7
12:02:05 AM	No		70	69.4	62
12:02:15 AM	No		68.8	68.4	62.9
12:02:25 AM	No	56.6	61.7	60.2	53.3
12:02:35 AM	No	50.9	52.9	52.5	49.7
12:02:45 AM	No	52.1	55.4	53.7	50
12:02:55 AM	No		75	73	57
12:03:05 AM	No		77.5	76.4	68.6
12:03:15 AM	No	59.2	67.4	63.8	50.3
12:03:25 AM	No		73.5	72.5	53.5
12:03:35 AM	No	51	54.7	54.1	47.9
12:03:45 AM	No	47.3	52.3	51.2	45.1
12:03:55 AM	No	50.9	54.6	53.8	47.1

12:04:05 AM No	51.9	54.6	53.7	48.5
12:04:15 AM No	48	49.5	49.2	47
12:04:25 AM No	54.4	58	56.4	49.9
12:04:35 AM No		75	72.6	57.8
12:04:45 AM No	53.7	60.1	57	48.6
12:04:55 AM No	52.7	57	55.2	49.8
12:05:05 AM No	51.2	54.8	53.6	48.9
12:05:15 AM No	46	47.8	46.8	45.5
12:05:25 AM No	45.7	46	45.9	45.5
12:05:35 AM No	45.9	47.7	46.9	45.4
12:05:45 AM No	52.1	56.5	55.1	49.4
12:05:55 AM No	46.9	50.6	48.7	45.5
12:06:05 AM No	54.5	63	59.9	45.5
12:06:15 AM No	50.7	52.8	52.3	48.2
12:06:25 AM No	53.9	56.4	55.8	48.8
12:06:35 AM No	55.1	58.4	58	51.9
12:06:45 AM No	52.6	55	54.1	50.8
12:06:55 AM No	47.5	50.6	49.5	46.2
12:07:05 AM No	49.9	53	52.8	46.4
12:07:15 AM No	49.6	52.1	51.6	46.5
12:07:25 AM No	47.1	50.4	49.4	45.5
12:07:35 AM No	44.8	45.6	45.3	44.2
12:07:45 AM No	44.4	45.3	45	43.4
12:07:55 AM No	53.4	56.6	56.2	45.7
12:08:05 AM No	54.2	56.3	55.5	52
12:08:15 AM No	51.7	54.5	53.8	48
12:08:25 AM No	49.2	52.9	52.1	46.6
12:08:35 AM No	47.7	52.5	52.2	44.8
12:08:45 AM No	50.2	55.2	53.9	44.5
12:08:55 AM No	45	47.9	46.3	44.2
12:09:05 AM No	49.8	52.9	52.1	46.9
12:09:15 AM No	45.1	46.5	46.1	44.4
12:09:25 AM No	47.2	51.7	50.2	44.3
12:09:35 AM No	50.1	52.7	51.9	48.5
12:09:45 AM No	50.3	55.1	53.7	44.7
12:09:55 AM No	48.6	53.3	52.5	44.3
12:10:05 AM No	48.9	52.5	52.1	45.7
12:10:15 AM No	53	57.3	56.3	50
12:10:25 AM No	49.2	53.3	52.1	46.1
12:10:35 AM No	48.6	53.7	52.5	43.7
12:10:45 AM No	43.8	45	44.5	43.3
12:10:55 AM No	50.4	53.5	52.7	45.9
12:11:05 AM No	54.4	57.5	56.2	52.5
12:11:15 AM No	55	57.6	56.8	52.2

52.8

Construction Noise & Vibration Calculations

Project: 1000 Seward Project EIR

Construction Phase: *Demolition*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Excavator	1	81	40%	15	0
Rubber Tired Loader	1	79	40%	35	0
Tractor/Loader/Backhoe	1	84	40%	35	0
Rubber Tired Loader	1	79	40%	55	0

Receptor: 4
R1

Results:
1-hour Leq: 89.3

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1000 Seward Project EIR

Construction Phase: *Grading/Excavation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Bore/Drill Rig	1	84	20%	15	0
Crane	1	81	16%	35	0
Excavator	1	81	40%	35	0
Grader	1	85	40%	55	0
Plate Compactor	1	83	20%	55	0
Rubber Tired Loader	1	79	40%	80	0

6

Receptor: *R1*

Results:
1-hour Leq: 89.3

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1000 Seward Project EIR

Construction Phase: *Foundation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Pump	1	81	20%	15	0
Crane	1	81	16%	35	0
Welders	1	74	40%	35	0
Concrete Pump	1	81	20%	55	0
Welders	1	74	40%	55	0
Concrete Pump	1	81	20%	80	0
Concrete Pump	1	81	20%	80	0

7

Receptor: *R1*

Results:
1-hour Leq: 85.9

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1000 Seward Project EIR

Construction Phase: *Foundation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Cement and Mortar Mixer	1	80	50%	15	0
Crane	1	81	16%	35	0
Fork Lift	1	75	20%	35	0
Concrete Pump	1	81	20%	55	0
Welders	1	74	40%	55	0
Cement and Mortar Mixer	1	80	50%	80	0
Fork Lift	1	75	20%	80	0
Welders	1	74	40%	105	0

8

Receptor: *R1*

Results:
1-hour Leq: 88.2

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1000 Seward Project EIR

Construction Phase: *Building Construction*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Crane	1	81	16%	15	0
Tractor/Loader/Backhoe	1	84	40%	35	0
Air Compressor	1	78	40%	35	0
Aerial Lift	1	75	20%	55	0
Fork Lift	1	75	20%	55	0
Concrete Pump	1	81	20%	80	0
Plate Compactor	1	83	20%	80	0
Welders	2	74	40%	105	0
Air Compressor	1	78	40%	105	0
Aerial Lift	1	75	20%	105	0
Fork Lift	1	75	20%	105	0
Welders	1	74	40%	105	0

13

Receptor: ***R1***

Results:
1-hour Leq: 87.3

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1000 Seward Project EIR

Construction Phase: Paving

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Cement and Mortar Mixer	1	80	50%	15	0
Paving Equipment	1	77	50%	35	0
Roller	1	80	20%	35	0
Skid Steer Loaders	1	79	40%	55	0

Receptor: 4
R1

Results:
1-hour Leq: 88.3

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1000 Seward Project EIR

Construction Phase: *Demolition*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Excavator	1	81	40%	70	0
Rubber Tired Loader	1	79	40%	70	0
Tractor/Loader/Backhoe	1	84	40%	90	0
Rubber Tired Loader	1	79	40%	90	0

4
Receptor: R2

Results:
1-hour Leq: 79.2

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1000 Seward Project EIR

Construction Phase: *Grading/Excavation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Bore/Drill Rig	1	84	20%	70	0
Crane	1	81	16%	70	0
Excavator	1	81	40%	90	0
Grader	1	85	40%	90	0
Plate Compactor	1	83	20%	115	0
Rubber Tired Loader	1	79	40%	115	0

6

Receptor: **R2**

Results:
1-hour Leq: **80.2**

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1000 Seward Project EIR

Construction Phase: *Foundation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Pump	1	81	20%	70	0
Crane	1	81	16%	70	0
Welders	1	74	40%	90	0
Concrete Pump	1	81	20%	90	0
Welders	1	74	40%	115	0
Concrete Pump	1	81	20%	115	0
Concrete Pump	1	81	20%	140	0

7

Receptor: **R2**

Results:
1-hour Leq: **76.4**

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1000 Seward Project EIR

Construction Phase: *Foundation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Cement and Mortar Mixer	1	80	50%	70	0
Crane	1	81	16%	70	0
Fork Lift	1	75	20%	90	0
Concrete Pump	1	81	20%	90	0
Welders	1	74	40%	115	0
Cement and Mortar Mixer	1	80	50%	115	0
Fork Lift	1	75	20%	140	0
Welders	1	74	40%	140	0

8

Receptor: **R2**

Results:
1-hour Leq: **77.7**

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1000 Seward Project EIR

Construction Phase: *Building Construction*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Crane	1	81	16%	70	0
Tractor/Loader/Backhoe	1	84	40%	70	0
Air Compressor	1	78	40%	90	0
Aerial Lift	1	75	20%	90	0
Fork Lift	1	75	20%	115	0
Concrete Pump	1	81	20%	115	0
Plate Compactor	1	83	20%	140	0
Welders	2	74	40%	140	0
Air Compressor	1	78	40%	165	0
Aerial Lift	1	75	20%	165	0
Fork Lift	1	75	20%	190	0
Welders	1	74	40%	190	0

13

Receptor: R2

Results:

1-hour Leq: 79.5

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1000 Seward Project EIR

Construction Phase: Paving

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Cement and Mortar Mixer	1	80	50%	70	0
Paving Equipment	1	77	50%	70	0
Roller	1	80	20%	90	0
Skid Steer Loaders	1	79	40%	90	0

Receptor: 4
R2

Results:
1-hour Leq: 77.3

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1000 Seward Project EIR

Construction Phase: *Demolition*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Excavator	1	81	40%	210	0
Rubber Tired Loader	1	79	40%	210	0
Tractor/Loader/Backhoe	1	84	40%	230	0
Rubber Tired Loader	1	79	40%	230	0

Receptor: 4
R3

Results:
1-hour Leq: 70.4

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1000 Seward Project EIR

Construction Phase: *Grading/Excavation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Bore/Drill Rig	1	84	20%	210	0
Crane	1	81	16%	210	0
Excavator	1	81	40%	230	0
Grader	1	85	40%	230	0
Plate Compactor	1	83	20%	250	0
Rubber Tired Loader	1	79	40%	250	0

6

Receptor: **R3**

Results:
1-hour Leq: 71.8

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1000 Seward Project EIR

Construction Phase: *Foundation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Pump	1	81	20%	210	0
Crane	1	81	16%	210	0
Welders	1	74	40%	230	0
Concrete Pump	1	81	20%	230	0
Welders	1	74	40%	250	0
Concrete Pump	1	81	20%	250	0
Concrete Pump	1	81	20%	270	0

7

Receptor: **R3**

Results:
1-hour Leq: 68.1

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1000 Seward Project EIR

Construction Phase: *Foundation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Cement and Mortar Mixer	1	80	50%	210	0
Crane	1	81	16%	210	0
Fork Lift	1	75	20%	230	0
Concrete Pump	1	81	20%	230	0
Welders	1	74	40%	250	0
Cement and Mortar Mixer	1	80	50%	250	0
Fork Lift	1	75	20%	270	0
Welders	1	74	40%	270	0

8

Receptor: **R3**

Results:
1-hour Leq: **69.3**

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1000 Seward Project EIR

Construction Phase: *Building Construction*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Crane	1	81	16%	210	0
Tractor/Loader/Backhoe	1	84	40%	210	0
Air Compressor	1	78	40%	230	0
Aerial Lift	1	75	20%	230	0
Fork Lift	1	75	20%	250	0
Concrete Pump	1	81	20%	250	0
Plate Compactor	1	83	20%	270	0
Welders	2	74	40%	270	0
Air Compressor	1	78	40%	290	0
Aerial Lift	1	75	20%	290	0
Fork Lift	1	75	20%	310	0
Welders	1	74	40%	310	0

13

Receptor: R3

Results:
1-hour Leq: 71.1

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1000 Seward Project EIR

Construction Phase: Paving

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Cement and Mortar Mixer	1	80	50%	210	0
Paving Equipment	1	77	50%	210	0
Roller	1	80	20%	230	0
Skid Steer Loaders	1	79	40%	230	0

Receptor: 4
R3

Results:
1-hour Leq: 68.3

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1000 Seward Project EIR

Construction Phase: *Demolition*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Excavator	1	81	40%	500	10
Rubber Tired Loader	1	79	40%	500	10
Tractor/Loader/Backhoe	1	84	40%	520	10
Rubber Tired Loader	1	79	40%	520	10

4
Receptor: *R4*

Results:
1-hour Leq: 53.1

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1000 Seward Project EIR

Construction Phase: *Grading/Excavation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Bore/Drill Rig	1	84	20%	500	10
Crane	1	81	16%	500	10
Excavator	1	81	40%	520	10
Grader	1	85	40%	520	10
Plate Compactor	1	83	20%	540	10
Rubber Tired Loader	1	79	40%	540	10

6

Receptor: *R4*

Results:
1-hour Leq: 54.7

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1000 Seward Project EIR

Construction Phase: *Foundation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Pump	1	81	20%	500	10
Crane	1	81	16%	500	10
Welders	1	74	40%	520	10
Concrete Pump	1	81	20%	520	10
Welders	1	74	40%	540	10
Concrete Pump	1	81	20%	540	10
Concrete Pump	1	81	20%	560	10

7

Receptor: *R4*

Results:
1-hour Leq: 51.1

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1000 Seward Project EIR

Construction Phase: *Foundation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Cement and Mortar Mixer	1	80	50%	500	10
Crane	1	81	16%	500	10
Fork Lift	1	75	20%	520	10
Concrete Pump	1	81	20%	520	10
Welders	1	74	40%	540	10
Cement and Mortar Mixer	1	80	50%	540	10
Fork Lift	1	75	20%	560	10
Welders	1	74	40%	560	10

8

Receptor: *R4*

Results:
1-hour Leq: 52.1

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1000 Seward Project EIR

Construction Phase: *Building Construction*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Crane	1	81	16%	500	10
Tractor/Loader/Backhoe	1	84	40%	500	10
Air Compressor	1	78	40%	520	10
Aerial Lift	1	75	20%	520	10
Fork Lift	1	75	20%	540	10
Concrete Pump	1	81	20%	540	10
Plate Compactor	1	83	20%	560	10
Welders	2	74	40%	560	10
Air Compressor	1	78	40%	580	10
Aerial Lift	1	75	20%	580	10
Fork Lift	1	75	20%	600	10
Welders	1	74	40%	600	10

13

Receptor: *R4*

Results:

1-hour Leq: 54.1

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1000 Seward Project EIR

Construction Phase: Paving

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Cement and Mortar Mixer	1	80	50%	500	10
Paving Equipment	1	77	50%	500	10
Roller	1	80	20%	520	10
Skid Steer Loaders	1	79	40%	520	10

Receptor: 4
R4

Results:
1-hour Leq: 50.9

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1000 Seward Project EIR

Construction Phase: *Demolition*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Excavator	1	81	40%	160	15
Rubber Tired Loader	1	79	40%	160	15
Tractor/Loader/Backhoe	1	84	40%	180	15
Rubber Tired Loader	1	79	40%	180	15

4
Receptor: R5

Results:
1-hour Leq: 57.6

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1000 Seward Project EIR

Construction Phase: *Grading/Excavation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Bore/Drill Rig	1	84	20%	160	15
Crane	1	81	16%	160	15
Excavator	1	81	40%	180	15
Grader	1	85	40%	180	15
Plate Compactor	1	83	20%	200	15
Rubber Tired Loader	1	79	40%	200	15

6

Receptor: *R5*

Results:
1-hour Leq: 59.0

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1000 Seward Project EIR

Construction Phase: *Foundation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Pump	1	81	20%	160	15
Crane	1	81	16%	160	15
Welders	1	74	40%	180	15
Concrete Pump	1	81	20%	180	15
Welders	1	74	40%	200	15
Concrete Pump	1	81	20%	200	15
Concrete Pump	1	81	20%	220	15

7

Receptor: **R5**

Results:
1-hour Leq: **55.3**

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1000 Seward Project EIR

Construction Phase: *Foundation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Cement and Mortar Mixer	1	80	50%	160	15
Crane	1	81	16%	160	15
Fork Lift	1	75	20%	180	15
Concrete Pump	1	81	20%	180	15
Welders	1	74	40%	200	15
Cement and Mortar Mixer	1	80	50%	200	15
Fork Lift	1	75	20%	220	15
Welders	1	74	40%	220	15

8

Receptor: **R5**

Results:
1-hour Leq: **56.4**

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1000 Seward Project EIR

Construction Phase: *Building Construction*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Crane	1	81	16%	160	15
Tractor/Loader/Backhoe	1	84	40%	160	15
Air Compressor	1	78	40%	180	15
Aerial Lift	1	75	20%	180	15
Fork Lift	1	75	20%	200	15
Concrete Pump	1	81	20%	200	15
Plate Compactor	1	83	20%	220	15
Welders	2	74	40%	220	15
Air Compressor	1	78	40%	240	15
Aerial Lift	1	75	20%	240	15
Fork Lift	1	75	20%	260	15
Welders	1	74	40%	260	15

13

Receptor: *R5*

Results:

1-hour Leq: 58.3

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1000 Seward Project EIR

Construction Phase: Paving

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Cement and Mortar Mixer	1	80	50%	160	15
Paving Equipment	1	77	50%	160	15
Roller	1	80	20%	180	15
Skid Steer Loaders	1	79	40%	180	15

Receptor: 4
R5

Results:
1-hour Leq: 55.5

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1000 Seward Project EIR

Off-Site Haul Trucks

Phase	Maximum Number of Truck One				Estimated Project Noise Levels (From TNM Outputs), Leq(hr)				
	Way Trips (delivery/haul)		Worker Trips		Ardmore	Melrose	Seward	Santa Monica	Western
	Per Day	Per Hour (8-hr day)	Daily Trips	Trips during Pk Hr.	(30ft)	(30ft)	(25ft)	(30ft)	(30ft)
1. Demolition	50	9	25	10	58.9	58.9	59.6	58.9	58.9
2. Grading/Excavation (6hrs)	230	39	75	30	64.8	64.8	65.5	64.8	64.8
3. Mat Foundation	360	45	100	40	65.4	65.4	66.2	65.4	65.4
4. Building Construction	190	24	350	140	64.2	64.2	64.9	64.2	64.2
5. Building Finishes	30	4	75	30	56.8	56.8	57.6	56.8	56.8
6. Paving/Landscape	30	4	20	8	55.2	55.2	56	55.2	55.2
<i>Hauls: 6 hours, applicable to Demolition and Grading phases</i>				Ambient	68.1	70.8	52.0	70.8	70.8
<i>Trucks are one-way, modeled 1/2 hourly trips</i>				Threshold, Ambient + 5 dBA	73.1	75.8	57.0	75.8	75.8

	Estimated Noise Levels - Project + Ambient, Leq(hr)				
	Ardmore	Melrose	Seward	Santa Monica	Western
1. Demolition	68.6	71.1	60.3	71.1	71.1
2. Grading/Excavation (6hrs)	69.8	71.8	65.7	71.8	71.8
3. Mat Foundation	70.0	71.9	66.4	71.9	71.9
4. Building Construction	69.6	71.7	65.1	71.7	71.7
5. Building Finishes	68.4	71.0	58.7	71	71.0
6. Paving/Landscape	68.3	70.9	57.5	70.9	70.9

INPUT: ROADWAYS

1000 Seward

Eyestone Environmental Sean Bui					12 November 2020 TNM 2.5						
INPUT: ROADWAYS					Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA						
PROJECT/CONTRACT:		1000 Seward									
RUN:		Off-site Construction - Demo Phase									
Roadway		Points									
Name	Width	Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
Haul Route	12.0	point1	1	0.0	0.0	0.00	Signal	0.00	50	Average	
		point2	2	1,000.0	0.0	0.00					

INPUT: TRAFFIC FOR LAeq1h Volumes

1000 Seward

Eyestone Environmental		12 November 2020											
Sean Bui		TNM 2.5											
INPUT: TRAFFIC FOR LAeq1h Volumes													
PROJECT/CONTRACT:		1000 Seward											
RUN:		Off-site Construction - Demo Phase											
Roadway	Points												
Name	Name	No.	Segment		MTrucks		HTrucks		Buses		Motorcycles		
			Autos		V	S	V	S	V	S	V	S	
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	
Haul Route	point1	1	10	35	0	0	5	35	0	0	0	0	
	point2	2											

INPUT: RECEIVERS

1000 Seward

							12 November 2020					
Eyestone Environmental												
Sean Bui							TNM 2.5					
INPUT: RECEIVERS												
PROJECT/CONTRACT:		1000 Seward										
RUN:		Off-site Construction - Demo Phase										
Receiver												
Name	No.	#DUs	Coordinates (ground)			Height	Input Sound Levels and Criteria				Active	
			X	Y	Z	above	Existing	Impact Criteria		NR	in	
						Ground	LAeq1h	LAeq1h	Sub'l	Goal	Calc.	
			ft	ft	ft	ft	dBA	dBA	dB	dB		
At 25 feet from Roadway CL	1	1	250.0	25.0	0.00	4.92	0.00	71	5.0	0.0	Y	
At 30 feet from Roadway CL	8	1	250.0	30.0	0.00	4.92	0.00	66	10.0	8.0	Y	

RESULTS: SOUND LEVELS

1000 Seward

Eyestone Environmental													
Sean Bui													
12 November 2020													
TNM 2.5													
Calculated with TNM 2.5													
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT: 1000 Seward													
RUN: Off-site Construction - Demo Phase													
BARRIER DESIGN: INPUT HEIGHTS													
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.													
ATMOSPHERICS: 68 deg F, 50% RH													
Receiver													
Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h	Increase over existing			Type	With Barrier	Noise Reduction			
				Calculated	Crit'n	Calculated	Crit'n	Impact	Calculated LAeq1h	Calculated	Goal	Calculated	
							Sub'l Inc					minus Goal	
			dB	dB	dB	dB	dB		dB	dB	dB	dB	
At 25 feet from Roadway CL	1	1	0.0	59.6	71	59.6	5	----	59.6	0.0	0	0.0	
At 30 feet from Roadway CL	8	1	0.0	58.9	66	58.9	10	----	58.9	0.0	8	-8.0	
Dwelling Units		# DUs	Noise Reduction										
			Min	Avg	Max								
			dB	dB	dB								
All Selected		2	0.0	0.0	0.0								
All Impacted		0	0.0	0.0	0.0								
All that meet NR Goal		1	0.0	0.0	0.0								

INPUT: ROADWAYS

1000 Seward

Eyestone Environmental Sean Bui		12 November 2020 TNM 2.5										
INPUT: ROADWAYS							Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA					
PROJECT/CONTRACT:		1000 Seward										
RUN:		Off-site Construction - Grading										
Roadway		Points										
Name	Width	Name	No.	Coordinates (pavement)			Flow Control			Segment		
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?	
	ft			ft	ft	ft		mph	%			
Haul Route	12.0	point1	1	0.0	0.0	0.00	Signal	0.00	50	Average		
		point2	2	1,000.0	0.0	0.00						

INPUT: TRAFFIC FOR LAeq1h Volumes

1000 Seward

Eyestone Environmental		12 November 2020											
Sean Bui		TNM 2.5											
INPUT: TRAFFIC FOR LAeq1h Volumes													
PROJECT/CONTRACT:		1000 Seward											
RUN:		Off-site Construction - Grading											
Roadway	Points												
Name	Name	No.	Segment		MTrucks		HTrucks		Buses		Motorcycles		
			Autos		V	S	V	S	V	S	V	S	
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	
Haul Route	point1	1	30	35	0	0	20	35	0	0	0	0	
	point2	2											

INPUT: RECEIVERS

1000 Seward

Eyestone Environmental							12 November 2020				
Sean Bui							TNM 2.5				
INPUT: RECEIVERS											
PROJECT/CONTRACT:		1000 Seward									
RUN:		Off-site Construction - Grading									
Receiver											
Name	No.	#DUs	Coordinates (ground)			Height	Input Sound Levels and Criteria				Active
			X	Y	Z		above	Existing	Impact Criteria	NR	
						Ground	L _{Aeq} 1h	L _{Aeq} 1h	Sub'l	Goal	Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
At 25 feet from Roadway CL	1	1	250.0	25.0	0.00	4.92	0.00	71	5.0	0.0	Y
At 30 feet from Roadway CL	8	1	250.0	30.0	0.00	4.92	0.00	66	10.0	8.0	Y

RESULTS: SOUND LEVELS

1000 Seward

Eyestone Environmental													
Sean Bui													
12 November 2020													
TNM 2.5													
Calculated with TNM 2.5													
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT: 1000 Seward													
RUN: Off-site Construction - Grading													
BARRIER DESIGN: INPUT HEIGHTS													
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.													
ATMOSPHERICS: 68 deg F, 50% RH													
Receiver													
Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h	Increase over existing			Type	With Barrier	Noise Reduction			
				Calculated	Crit'n	Calculated	Crit'n	Impact	Calculated LAeq1h	Calculated	Goal	Calculated	
							Sub'l Inc					minus Goal	
			dB	dB	dB	dB	dB		dB	dB	dB	dB	
At 25 feet from Roadway CL	1	1	0.0	65.5	71	65.5	5	----	65.5	0.0	0	0.0	
At 30 feet from Roadway CL	8	1	0.0	64.8	66	64.8	10	----	64.8	0.0	8	-8.0	
Dwelling Units		# DUs	Noise Reduction										
			Min	Avg	Max								
			dB	dB	dB								
All Selected		2	0.0	0.0	0.0								
All Impacted		0	0.0	0.0	0.0								
All that meet NR Goal		1	0.0	0.0	0.0								

INPUT: ROADWAYS

1000 Seward

Eyestone Environmental Sean Bui				12 November 2020 TNM 2.5							
INPUT: ROADWAYS						Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA					
PROJECT/CONTRACT:		1000 Seward									
RUN:		Off-site Construction - Mat Foundation									
Roadway		Points									
Name	Width	Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
Haul Route	12.0	point1	1	0.0	0.0	0.00	Signal	0.00	50	Average	
		point2	2	1,000.0	0.0	0.00					

INPUT: TRAFFIC FOR LAeq1h Volumes

1000 Seward

Eyestone Environmental		12 November 2020											
Sean Bui		TNM 2.5											
INPUT: TRAFFIC FOR LAeq1h Volumes													
PROJECT/CONTRACT:		1000 Seward											
RUN:		Off-site Construction - Mat Foundation											
Roadway	Points												
Name	Name	No.	Segment		MTrucks		HTrucks		Buses		Motorcycles		
			Autos		V	S	V	S	V	S	V	S	
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	
Haul Route	point1	1	40	35	0	0	23	35	0	0	0	0	
	point2	2											

INPUT: RECEIVERS

1000 Seward

							12 November 2020					
Eyestone Environmental												
Sean Bui							TNM 2.5					
INPUT: RECEIVERS												
PROJECT/CONTRACT:		1000 Seward										
RUN:		Off-site Construction - Mat Foundation										
Receiver												
Name	No.	#DUs	Coordinates (ground)			Height	Input Sound Levels and Criteria				Active	
			X	Y	Z	above	Existing	Impact Criteria		NR	in	
						Ground	LAeq1h	LAeq1h	Sub'l	Goal	Calc.	
			ft	ft	ft	ft	dBA	dBA	dB	dB		
At 25 feet from Roadway CL	1	1	250.0	25.0	0.00	4.92	0.00	71	5.0	0.0	Y	
At 30 feet from Roadway CL	8	1	250.0	30.0	0.00	4.92	0.00	66	10.0	8.0	Y	

RESULTS: SOUND LEVELS

1000 Seward

Eyestone Environmental		12 November 2020											
Sean Bui		TNM 2.5											
		Calculated with TNM 2.5											
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:		1000 Seward											
RUN:		Off-site Construction - Mat Foundation											
BARRIER DESIGN:		INPUT HEIGHTS											
		Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.											
ATMOSPHERICS:		68 deg F, 50% RH											
Receiver													
Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h	Increase over existing			Type	With Barrier Calculated LAeq1h	Noise Reduction			
				Calculated	Crit'n	Calculated	Crit'n	Impact		Calculated	Calculated	Goal	Calculated minus Goal
			dB	dB	dB	dB	dB		dB	dB	dB	dB	dB
At 25 feet from Roadway CL	1	1	0.0	66.2	71	66.2	5	----	66.2	0.0	0	0.0	
At 30 feet from Roadway CL	8	1	0.0	65.4	66	65.4	10	----	65.4	0.0	8	-8.0	
Dwelling Units		# DUs	Noise Reduction										
			Min	Avg	Max								
			dB	dB	dB								
All Selected		2	0.0	0.0	0.0								
All Impacted		0	0.0	0.0	0.0								
All that meet NR Goal		1	0.0	0.0	0.0								

INPUT: ROADWAYS

1000 Seward

Eyestone Environmental Sean Bui				12 November 2020 TNM 2.5							
INPUT: ROADWAYS						Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA					
PROJECT/CONTRACT:		1000 Seward									
RUN:		Off-site Construction - Building Constructi									
Roadway		Points									
Name	Width	Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
Haul Route	12.0	point1	1	0.0	0.0	0.00	Signal	0.00	50	Average	
		point2	2	1,000.0	0.0	0.00					

INPUT: TRAFFIC FOR LAeq1h Volumes

1000 Seward

Eyestone Environmental													
Sean Bui													
INPUT: TRAFFIC FOR LAeq1h Volumes													
PROJECT/CONTRACT:	1000 Seward												
RUN:	Off-site Construction - Building Constructi												
Roadway	Points												
Name	Name	No.	Segment										
			Autos		MTrucks		HTrucks		Buses		Motorcycles		
			V	S	V	S	V	S	V	S	V	S	
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	
Haul Route	point1	1	140	35	0	0	12	35	0	0	0	0	
	point2	2											

INPUT: RECEIVERS

1000 Seward

Eyestone Environmental							12 November 2020				
Sean Bui							TNM 2.5				
INPUT: RECEIVERS											
PROJECT/CONTRACT:		1000 Seward									
RUN:		Off-site Construction - Building Constructi									
Receiver											
Name	No.	#DUs	Coordinates (ground)			Height	Input Sound Levels and Criteria				Active
			X	Y	Z		above	Existing	Impact Criteria	NR	
						Ground	LAeq1h	LAeq1h	Sub'l	Goal	Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
At 25 feet from Roadway CL	1	1	250.0	25.0	0.00	4.92	0.00	71	5.0	0.0	Y
At 30 feet from Roadway CL	8	1	250.0	30.0	0.00	4.92	0.00	66	10.0	8.0	Y

RESULTS: SOUND LEVELS

1000 Seward

Eyestone Environmental													
Sean Bui													
12 November 2020													
TNM 2.5													
Calculated with TNM 2.5													
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT: 1000 Seward													
RUN: Off-site Construction - Building Constructi													
BARRIER DESIGN: INPUT HEIGHTS													
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.													
ATMOSPHERICS: 68 deg F, 50% RH													
Receiver													
Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h	Increase over existing			Type	With Barrier	Noise Reduction			
				Calculated	Crit'n	Calculated	Crit'n	Impact	Calculated LAeq1h	Calculated	Goal	Calculated minus Goal	
			dB	dB	dB	dB	dB		dB	dB	dB	dB	
At 25 feet from Roadway CL	1	1	0.0	64.9	71	64.9	5	----	64.9	0.0	0	0.0	
At 30 feet from Roadway CL	8	1	0.0	64.2	66	64.2	10	----	64.2	0.0	8	-8.0	
Dwelling Units		# DUs	Noise Reduction										
			Min	Avg	Max								
			dB	dB	dB								
All Selected		2	0.0	0.0	0.0								
All Impacted		0	0.0	0.0	0.0								
All that meet NR Goal		1	0.0	0.0	0.0								

INPUT: ROADWAYS

1000 Seward

Eyestone Environmental Sean Bui		12 November 2020 TNM 2.5										
INPUT: ROADWAYS							Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA					
PROJECT/CONTRACT:		1000 Seward										
RUN:		Off-site Construction - Finishes										
Roadway		Points										
Name	Width	Name	No.	Coordinates (pavement)			Flow Control			Segment		
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?	
	ft			ft	ft	ft		mph	%			
Haul Route	12.0	point1	1	0.0	0.0	0.00	Signal	0.00	50	Average		
		point2	2	1,000.0	0.0	0.00						

INPUT: TRAFFIC FOR LAeq1h Volumes

1000 Seward

Eyestone Environmental		12 November 2020											
Sean Bui		TNM 2.5											
INPUT: TRAFFIC FOR LAeq1h Volumes													
PROJECT/CONTRACT:		1000 Seward											
RUN:		Off-site Construction - Finishes											
Roadway	Points												
Name	Name	No.	Segment		MTrucks		HTrucks		Buses		Motorcycles		
			Autos		V	S	V	S	V	S	V	S	
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	
Haul Route	point1	1	30	35	0	0	2	35	0	0	0	0	
	point2	2											

INPUT: RECEIVERS

1000 Seward

							12 November 2020					
Eyestone Environmental												
Sean Bui							TNM 2.5					
INPUT: RECEIVERS												
PROJECT/CONTRACT:		1000 Seward										
RUN:		Off-site Construction - Finishes										
Receiver												
Name	No.	#DUs	Coordinates (ground)			Height	Input Sound Levels and Criteria				Active	
			X	Y	Z	above	Existing	Impact Criteria		NR	in	
						Ground	LAeq1h	LAeq1h	Sub'l	Goal	Calc.	
			ft	ft	ft	ft	dBA	dBA	dB	dB		
At 25 feet from Roadway CL	1	1	250.0	25.0	0.00	4.92	0.00	71	5.0	0.0	Y	
At 30 feet from Roadway CL	8	1	250.0	30.0	0.00	4.92	0.00	66	10.0	8.0	Y	

RESULTS: SOUND LEVELS

1000 Seward

Eyestone Environmental		12 November 2020										
Sean Bui		TNM 2.5										
		Calculated with TNM 2.5										
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:		1000 Seward										
RUN:		Off-site Construction - Finishes										
BARRIER DESIGN:		INPUT HEIGHTS										
		Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.										
ATMOSPHERICS:		68 deg F, 50% RH										
Receiver												
Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h	Increase over existing		Type	With Barrier	Noise Reduction			
				Calculated	Crit'n	Calculated	Crit'n	Impact	Calculated LAeq1h	Calculated	Goal	Calculated minus Goal
			dB	dB	dB	dB	dB		dB	dB	dB	dB
At 25 feet from Roadway CL	1	1	0.0	57.6	71	57.6	5	----	57.6	0.0	0	0.0
At 30 feet from Roadway CL	8	1	0.0	56.8	66	56.8	10	----	56.8	0.0	8	-8.0
Dwelling Units		# DUs	Noise Reduction									
			Min	Avg	Max							
			dB	dB	dB							
All Selected		2	0.0	0.0	0.0							
All Impacted		0	0.0	0.0	0.0							
All that meet NR Goal		1	0.0	0.0	0.0							

INPUT: ROADWAYS

1000 Seward

Eyestone Environmental Sean Bui		12 November 2020 TNM 2.5										
INPUT: ROADWAYS							Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA					
PROJECT/CONTRACT:		1000 Seward										
RUN:		Off-site Construction - Paving										
Roadway		Points										
Name	Width	Name	No.	Coordinates (pavement)			Flow Control			Segment		
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?	
	ft			ft	ft	ft		mph	%			
Haul Route	12.0	point1	1	0.0	0.0	0.00	Signal	0.00	50	Average		
		point2	2	1,000.0	0.0	0.00						

INPUT: TRAFFIC FOR LAeq1h Volumes

1000 Seward

Eyestone Environmental		12 November 2020											
Sean Bui		TNM 2.5											
INPUT: TRAFFIC FOR LAeq1h Volumes													
PROJECT/CONTRACT:		1000 Seward											
RUN:		Off-site Construction - Paving											
Roadway	Points												
Name	Name	No.	Segment		MTrucks		HTrucks		Buses		Motorcycles		
			Autos		V	S	V	S	V	S	V	S	
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	
Haul Route	point1	1	8	35	0	0	2	35	0	0	0	0	
	point2	2											

INPUT: RECEIVERS

1000 Seward

							12 November 2020					
Eyestone Environmental												
Sean Bui							TNM 2.5					
INPUT: RECEIVERS												
PROJECT/CONTRACT:		1000 Seward										
RUN:		Off-site Construction - Paving										
Receiver												
Name	No.	#DUs	Coordinates (ground)			Height	Input Sound Levels and Criteria				Active in	
			X	Y	Z		above Ground	Existing LAeq1h	Impact Criteria LAeq1h	Sub'l		NR Goal
			ft	ft	ft	ft	dBA	dBA	dB	dB		
At 25 feet from Roadway CL	1	1	250.0	25.0	0.00	4.92	0.00	71	5.0	0.0	Y	
At 30 feet from Roadway CL	8	1	250.0	30.0	0.00	4.92	0.00	66	10.0	8.0	Y	

RESULTS: SOUND LEVELS

1000 Seward

Eyestone Environmental		12 November 2020										
Sean Bui		TNM 2.5										
		Calculated with TNM 2.5										
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:		1000 Seward										
RUN:		Off-site Construction - Paving										
BARRIER DESIGN:		INPUT HEIGHTS										
		Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.										
ATMOSPHERICS:		68 deg F, 50% RH										
Receiver												
Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h	Increase over existing		Type	With Barrier	Noise Reduction			
				Calculated	Crit'n	Calculated	Crit'n	Impact	Calculated LAeq1h	Calculated	Goal	Calculated minus Goal
			dB	dB	dB	dB	dB		dB	dB	dB	dB
At 25 feet from Roadway CL	1	1	0.0	56.0	71	56.0	5	----	56.0	0.0	0	0.0
At 30 feet from Roadway CL	8	1	0.0	55.2	66	55.2	10	----	55.2	0.0	8	-8.0
Dwelling Units		# DUs	Noise Reduction									
			Min	Avg	Max							
			dB	dB	dB							
All Selected		2	0.0	0.0	0.0							
All Impacted		0	0.0	0.0	0.0							
All that meet NR Goal		1	0.0	0.0	0.0							

Project: 1000 Seward Project EIR

Construction Vibration Impacts

Reference Levels at 25 feet are based on FTA, 2006 (Transit Noise and Vibration Impact Assessment)

Calculations using FTA procedure with n= 1.5 (for receptors 25 feet or greater)
n= 1.1 (for receptors less than 25 feet, per Caltrans procedure)

ON-SITE CONSTRUCTION ACTIVITIES

Table 1: Construction Equipment Vibration Levels (PPV) - Building Damages

Equipment	Reference Vibration Levels at 25 ft., PPV	Estimated Vibration Levels at nearest off-site building structures (distance in feet), PPV						
		Two-story Apartment building to the north	Multi-story Parking structure to the north	Two-story Apartment building to the east	Single-Story Residential building to the southeast	Single-Story Commercial building to the south	Multi-story Office building to the west	Seaward Film Vault to the north
		15	9	70	100	150	50	9
Large Bulldozer	0.089	0.156	0.274	0.019	0.011	0.006	0.032	0.274
Caisson Drilling	0.089	0.156	0.274	0.019	0.011	0.006	0.032	0.274
Loaded Trucks	0.076	0.133	0.234	0.016	0.010	0.005	0.027	0.234
Jackhammer	0.035	0.061	0.108	0.008	0.004	0.002	0.012	0.108
Small bulldozer	0.003	0.005	0.009	0.001	0.000	0.000	0.001	0.009
Significance Threshold, PPV		0.3	0.5	0.3	0.2	0.3	0.5	0.12

Table 2: Construction Equipment Vibration Levels (VdB) - Human Annoyance

Equipment	Reference Vibration Levels at 25 ft., VdB	Estimated Vibration Levels at Off-Site Receptors (at note distance in feet), VdB						
		R1	R2	R3	R4	R5		
		15	70	210	500	160		
Large Bulldozer	87	94	74	59	48	63		
Caisson Drilling	87	94	74	59	48	63		
Loaded Trucks	86	93	73	58	47	62		
Jackhammer	79	86	66	51	40	55		
Small bulldozer	58	65	45	30	19	34		
Significance Threshold, VdB		72	72	72	72	65		

OFF-SITE CONSTRUCTION HAUL TRUCKS

Table 3: Off-Site Haul Trucks - Building Damage

Equipment	Reference Vibration Levels at 50 ft., PPV	Estimated Vibration Levels at noted distance in feet, PPV						
		20						
Typical road surface	0.00565	0.022						
Significance Threshold, PPV		0.12						

Ref. Levels based on FTA Figure 7-3 (converted from VdB to PPV)

Table 4: Off-Site Haul Trucks - Human Annoyance

Equipment	Reference Vibration Levels at 50 ft., VdB	Estimated Vibration Levels at noted distance in feet, VdB						
		20	25	30	45			
Typical road surface	63	75	72	70	64			
Significance Threshold, VdB		72	72	72	72			

Ref. Levels based on FTA Figure 7-3

Operation Noise Calculations

Project Composite Noise Calculations (CNEL)

Project: 1000 Seward Project

Receptor	Ambient	Traffic ^a	Mechanical	Loading		Outdoor		Project Composite	Ambient + Project	Increase
R1	59.4	52.6	31.2	44.8		46.1		54.0	60.5	1.1
R1U	59.4	52.3	36.1	39.1		46.6		53.6	60.4	1.0
R2	56.1	53.0	32.3	37.8		47.9		54.3	58.3	2.2
R2U	56.1	51.7	37.2	25.3		55.3		56.9	59.5	3.4
R3	55.0	42.9	37.9	15.0		49.7		50.8	56.4	1.4
R3U	55.0	42.0	39.0	15.3		51.0		51.7	56.7	1.7
R4	56.0	43.6	38.6	8.5		52.6		53.3	57.9	1.9
R4U	56.0	42.9	38.9	8.1		52.8		53.4	57.9	1.9
R5	60.9	40.6	30.7	9.0		36.7		42.4	60.9	0.0

^a - Project traffic noise levels at each receptor is based on the traffic noise analysis for the roadway segment in front of the receptor, adjusted for distance and barrier (if present), as provided in the table below.

U - Represents upper levels.

Receptor	Roadway Segment	Traffic Noise Levels, CNEL			distance to roadway, ft	Existing	Existing + Project	barrier	distance to Center Line	adj. for distance
		Existing	Existing + Project	Project Only						
R1	Hudson	56.4	57.9	52.6	30	58.2	59.7	0	40	-1.8
R1U	Hudson	56.2	57.7	52.3	34	58.2	59.7	0	40	-2.0
R2	Hudson	56.8	58.3	53.0	25	58.2	59.7	0	40	-1.4
R2U	Hudson	55.6	57.1	51.7	43	58.2	59.7	0	40	-2.6
R3	Hudson	56.6	56.8	42.9	20	57.6	57.7	0	40	-1.0
R3U	Hudson	55.7	55.8	42.0	32	57.6	57.7	0	40	-1.9
R4	Seward	60.0	60.1	43.6	15	60.7	60.7	0	30	-0.7
R4U	Seward	59.3	59.4	42.9	21	60.7	60.7	0	30	-1.4
R5	Seward	57.0	57.1	40.6	50	60.7	60.7	0	30	-3.7

For report, base on the worst-case (highest noise impacts)

Receptor	Ambient	Traffic	Mechanical	Loading		Outdoor		Project Composite	Ambient + Project	Increase
R1	59.4	52.6	31.2	44.8		46.1		54.0	60.5	1.1
R2	56.1	51.7	37.2	25.3		55.3		56.9	59.5	3.4
R3	55.0	42.0	39.0	15.3		51.0		51.7	56.7	1.7
R4	56.0	43.6	38.6	8.5		52.6		53.3	57.9	1.9
R5	60.9	40.6	30.7	9.0		36.7		42.4	60.9	0.0

Outdoor Mechanical Equipment Noise Calculations

Project: 1000 Seward Project

Receptor	Estimated Noise Levels, Leq from SOUNDPLAN		Hours of Operations		
	Leq	CNEL	Ld (7am to 7pm)	Le (7pm to 10pm)	Ln (10pm to 7am)
			12	3	6
R1	31.7	31.2	31.7	31.7	0.0
R1U	30.8	36.1	30.8	30.8	29.0
R2	27.0	32.3	27.0	27.0	25.2
R2U	31.9	37.2	31.9	31.9	30.1
R3	32.6	37.9	32.6	32.6	30.8
R3U	33.7	39.0	33.7	33.7	31.9
R4	33.3	38.6	33.3	33.3	31.5
R4U	33.6	38.9	33.6	33.6	31.8
R5	25.4	30.7	25.4	25.4	23.6

Receptor	Ambient CNEL	Ambient + Project (CNEL)	Increase (CNEL)	ambient (Leq)	Ambient + Project (Leq)	Increase (Leq)
R1	59.4	59.4	0.0	51.5	51.5	0.0
R1U	59.4	59.4	0.0	51.5	51.5	0.0
R2	56.1	56.1	0.0	48.1	48.1	0.0
R2U	56.1	56.1	0.1	48.1	48.2	0.1
R3	55.0	55.1	0.1	46.8	47.0	0.2
R3U	55.0	55.1	0.1	46.8	47.0	0.2
R4	56.0	56.1	0.1	48.4	48.5	0.1
R4U	56.0	56.1	0.1	48.4	48.5	0.1
R5	60.9	60.9	0.0	52.8	52.8	0.0

Receptor	Ambient	Project	Amb+Project	Criteria	Exceedance
R1	51.5	31.7	51.5	56.5	0.0
R2	48.1	31.9	48.2	53.1	0.0
R3	46.8	33.7	47.0	51.8	0.0
R4	48.4	33.6	48.5	53.4	0.0
R5	52.8	25.4	52.8	57.8	0.0

Outdoor Noise Calculations

Project: 1000 Seward Project

Daytime Hours					Hours of Operations		
Estimated noise levels, Leq (FROM SOUNDPLAN)					Ld (7am to 7pm)	Le (7pm to 10pm)	Ln (10pm to 7am)
Receptor	System	Occupants	Total, Leq	CNEL			
					12	2	0
R1	41.0	41.9	44.5	43.3	44.5	42.7	0.0
R1U	41.8	42.4	45.1	43.9	45.1	43.3	0.0
R2	41.5	45.7	47.1	45.9	47.1	45.3	0.0
R2U	53.2	51.6	55.5	54.3	55.5	53.7	0.0
R3	45.6	44.5	48.1	46.9	48.1	46.3	0.0
R3U	47.6	44.8	49.4	48.2	49.4	47.6	0.0
R4	50.4	39.8	50.8	49.6	50.8	49.0	0.0
R4U	50.7	39.7	51.0	49.8	51.0	49.2	0.0
R5	32.7	30.9	34.9	33.7	34.9	33.1	0.0

Nighttime Hours					Hours of Operations		
Estimated noise levels, Leq (FROM SOUNDPLAN)					Ld (7am to 7pm)	Le (7pm to 10pm)	Ln (10pm to 7am)
Receptor	Sound System	Occupants	Total, Leq	CNEL			
					0	0	4
R1	41.0	41.0	44.0	42.8	44.0	42.2	0.0
R1U	41.8	41.2	44.5	43.3	44.5	42.7	0.0
R2	39.0	43.3	44.7	43.5	44.7	42.9	0.0
R2U	45.6	47.2	49.5	48.3	49.5	47.7	0.0
R3	45.6	43.6	47.7	46.5	47.7	45.9	0.0
R3U	47.6	43.3	49.0	47.8	49.0	47.2	0.0
R4	50.4	39.3	50.7	49.5	50.7	48.9	0.0
R4U	50.7	38.8	51.0	49.8	51.0	49.2	0.0
R5	32.7	30.6	34.8	33.6	34.8	33.0	0.0

Receptor	Daytime Hours					Nighttime Hours				
	Project (CNEL)	Project Noise, (Leq)	Ambient (Leq)	Ambient + Project (Leq)	Increase (Leq)	Project Noise, (Leq)	Ambient (Leq)	Ambient + Project (Leq)	Increase (Leq)	
R1	46.1	44.5	56.6	56.9	0.3	44.0	51.5	52.2	0.7	
R1U	46.6	45.1	56.6	56.9	0.3	44.5	51.5	52.3	0.8	
R2	47.9	47.1	52.6	53.7	1.1	44.7	48.1	49.7	1.6	
R2U	55.3	55.5	52.6	57.3	4.7	49.5	48.1	51.9	3.8	
R3	49.7	48.1	51.9	53.4	1.5	47.7	46.8	50.3	3.5	
R3U	51.0	49.4	51.9	53.8	1.9	49.0	46.8	51.0	4.2	
R4	52.6	50.8	52.0	54.5	2.5	50.7	48.4	52.7	4.3	
R4U	52.8	51.0	52.0	54.5	2.5	51.0	48.4	52.9	4.5	
R5	36.7	34.9	57.5	57.5	0.0	34.8	52.8	52.9	0.1	

Receptor	Daytime Hours					Nighttime Hours				
	Ambient	Project	Amb+Project	Criteria	Exceedance	Ambient	Project	Amb+Project	Criteria	Exceedance
R1	56.6	45.1	56.9	61.6	0.0	51.5	44.5	52.3	56.5	0.0
R2	52.6	55.5	57.3	57.6	0.0	48.1	49.5	51.9	53.1	0.0
R3	51.9	49.4	53.8	56.9	0.0	46.8	49.0	51.0	51.8	0.0
R4	52.0	51.0	54.5	57.0	0.0	48.4	51.0	52.9	53.4	0.0
R5	57.5	34.9	57.5	62.5	0.0	52.8	34.8	52.9	57.8	0.0

Loading and Trash Compactor Noise Calculations

Project: 1000 Seward Project

Receptor	Estimated Noise Levels, Leq from SOUNDPLAN		Hours of Operations		
	Leq	CNEL	Ld (7am to 7pm)	Le (7pm to 10pm)	Ln (10pm to 7am)
			3	3	
R1	47.6	44.8	41.6	47.6	0.0
R1U	41.9	39.1	35.9	41.9	0.0
R2	40.6	37.8	34.6	40.6	0.0
R2U	28.1	25.3	22.1	28.1	0.0
R3	17.3	15.0	11.3	17.3	0.0
R3U	17.6	15.3	11.6	17.6	0.0
R4	8.0	8.5	2.0	8.0	0.0
R4U	7.1	8.1	1.1	7.1	0.0
R5	9.1	9.0	3.1	9.1	0.0

Receptor	Ambient CNEL	Ambient + Project (CNEL)	Increase (CNEL)	ambient (Leq)	Ambient + Project (Leq)	Increase (Leq)
R1	59.4	59.5	0.1	56.6	57.1	0.5
R1U	59.4	59.4	0.0	56.6	56.7	0.1
R2	56.1	56.1	0.1	52.6	52.9	0.3
R2U	56.1	56.1	0.0	52.6	52.6	0.0
R3	55.0	55.0	0.0	51.9	51.9	0.0
R3U	55.0	55.0	0.0	51.9	51.9	0.0
R4	56.0	56.0	0.0	52.0	52.0	0.0
R4U	56.0	56.0	0.0	52.0	52.0	0.0
R5	60.9	60.9	0.0	57.5	57.5	0.0

Receptor	Ambient	Project	Amb+Project	Criteria	Exceedance
R1	56.6	47.6	57.1	61.6	0.0
R2	52.6	40.6	52.9	57.6	0.0
R3	51.9	17.6	51.9	56.9	0.0
R4	52.0	8.0	52.0	57.0	0.0
R5	57.5	9.1	57.5	62.5	0.0

1000 Seward
Source Levels in dB(A) - Mechanical A

3

Name	Source type	Lw dB(A)	
Mechanical 1	Point	90.0	
Mechanical 2	Point	90.0	
Mechanical 3	Point	90.0	
Mechanical 4	Point	90.0	
Mechanical 5	Point	90.0	
Mechanical 6	Point	90.0	

AES 22801 Crespi St Woodland Hills, CA 91364 USA

1

1000 Seward Contribution level - Mechanical A

Source	Source type	Leq,d dB(A)	
Receiver R1 Leq,d 31.7 dB(A)			
Mechanical 1	Point	23.8	
Mechanical 2	Point	23.2	
Mechanical 3	Point	23.1	
Mechanical 4	Point	21.5	
Mechanical 5	Point	25.9	
Mechanical 6	Point	24.9	
Receiver R1 Leq,d 30.8 dB(A)			
Mechanical 1	Point	22.5	
Mechanical 2	Point	21.9	
Mechanical 3	Point	21.7	
Mechanical 4	Point	20.3	
Mechanical 5	Point	25.4	
Mechanical 6	Point	24.4	
Receiver R2 Leq,d 27.0 dB(A)			
Mechanical 1	Point	21.1	
Mechanical 2	Point	19.4	
Mechanical 3	Point	18.2	
Mechanical 4	Point	17.2	
Mechanical 5	Point	18.7	
Mechanical 6	Point	19.8	
Receiver R2 Leq,d 31.9 dB(A)			
Mechanical 1	Point	27.2	
Mechanical 2	Point	25.2	
Mechanical 3	Point	24.0	
Mechanical 4	Point	22.8	
Mechanical 5	Point	20.9	
Mechanical 6	Point	21.5	
Receiver R3 Leq,d 32.6 dB(A)			
Mechanical 1	Point	26.2	
Mechanical 2	Point	26.0	
Mechanical 3	Point	25.1	
Mechanical 4	Point	25.0	
Mechanical 5	Point	22.3	
Mechanical 6	Point	22.6	
Receiver R3 Leq,d 33.7 dB(A)			
Mechanical 1	Point	27.5	
Mechanical 2	Point	27.2	
Mechanical 3	Point	26.3	

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**1000 Seward
Contribution level - Mechanical A**

Source	Source type	Leq,d dB(A)	
Mechanical 4	Point	26.1	
Mechanical 5	Point	23.3	
Mechanical 6	Point	23.6	
Receiver R4 Leq,d 33.3 dB(A)			
Mechanical 1	Point	26.7	
Mechanical 2	Point	25.9	
Mechanical 3	Point	26.0	
Mechanical 4	Point	26.0	
Mechanical 5	Point	23.7	
Mechanical 6	Point	23.6	
Receiver R4 Leq,d 33.6 dB(A)			
Mechanical 1	Point	27.0	
Mechanical 2	Point	26.1	
Mechanical 3	Point	26.2	
Mechanical 4	Point	26.3	
Mechanical 5	Point	24.1	
Mechanical 6	Point	24.0	
Receiver R5 Leq,d 25.4 dB(A)			
Mechanical 1	Point	16.4	
Mechanical 2	Point	16.8	
Mechanical 3	Point	17.3	
Mechanical 4	Point	17.5	
Mechanical 5	Point	18.9	
Mechanical 6	Point	18.2	

**1000 Seward
Source Levels in dB(A) - Loading**

3

Name	Source type	Lw dB(A)	
Loading	Point	101.9	

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1

1000 Seward Contribution level - Loading

9

Source	Source type	Leq,d dB(A)	
Receiver R1 FI 1.FL Leq,d 47.6 dB(A)			
Loading	Point	47.6	
Receiver R1 FI 2.FL Leq,d 41.9 dB(A)			
Loading	Point	41.9	
Receiver R2 FI 1.FL Leq,d 40.6 dB(A)			
Loading	Point	40.6	
Receiver R2 FI 2.FL Leq,d 28.1 dB(A)			
Loading	Point	28.1	
Receiver R3 FI 1.FL Leq,d 17.3 dB(A)			
Loading	Point	17.3	
Receiver R3 FI 2.FL Leq,d 17.6 dB(A)			
Loading	Point	17.6	
Receiver R4 FI 1.FL Leq,d 8.0 dB(A)			
Loading	Point	8.0	
Receiver R4 FI 2.FL Leq,d 7.1 dB(A)			
Loading	Point	7.1	
Receiver R5 FI 1.FL Leq,d 9.1 dB(A)			
Loading	Point	9.1	

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1000 Seward
Source Levels in dB(A) - People (D & N) 2022

3

Name	Source type	Lw dB(A)	
People Level 01	Area	80.1	
People Level 01 Tierred Seating	Area	84.3	
People Level 02	Area	82.6	
People Level 04	Area	91.6	
People Level 05	Area	89.7	
People Level 08	Area	93.3	
People Level 09	Area	85.0	
People Level 10	Area	82.9	
People Level Roof	Area	92.6	

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1000 Seward Contribution level - People (D & N) 2022

9

Source	Source type	Leq,d dB(A)	Leq,n dB(A)	
Receiver R1 FI 1.FL Leq,d 41.9 dB(A) Leq,n 41.0 dB(A)				
People Level 01	Area	11.7	11.7	
People Level 01 Tierred Seating	Area	16.2	16.2	
People Level 02	Area	15.4	15.4	
People Level 04	Area	34.3		
People Level 05	Area	40.1	40.1	
People Level 08	Area	32.3	32.3	
People Level 09	Area	16.7	16.7	
People Level 10	Area	16.4	16.4	
People Level Roof	Area	26.4	26.4	
Receiver R1 FI 2.FL Leq,d 42.4 dB(A) Leq,n 41.2 dB(A)				
People Level 01	Area	19.0	19.0	
People Level 01 Tierred Seating	Area	20.8	20.8	
People Level 02	Area	14.2	14.2	
People Level 04	Area	36.2		
People Level 05	Area	40.1	40.1	
People Level 08	Area	33.4	33.4	
People Level 09	Area	14.1	14.1	
People Level 10	Area	14.2	14.2	
People Level Roof	Area	25.6	25.6	
Receiver R2 FI 1.FL Leq,d 45.7 dB(A) Leq,n 43.3 dB(A)				
People Level 01	Area	18.3	18.3	
People Level 01 Tierred Seating	Area	15.8	15.8	
People Level 02	Area	9.2	9.2	
People Level 04	Area	42.1		
People Level 05	Area	28.6	28.6	
People Level 08	Area	43.1	43.1	
People Level 09	Area	10.9	10.9	
People Level 10	Area	8.6	8.6	
People Level Roof	Area	25.1	25.1	
Receiver R2 FI 2.FL Leq,d 51.6 dB(A) Leq,n 47.2 dB(A)				
People Level 01	Area	20.4	20.4	
People Level 01 Tierred Seating	Area	16.5	16.5	
People Level 02	Area	9.8	9.8	
People Level 04	Area	49.7		
People Level 05	Area	37.9	37.9	
People Level 08	Area	46.5	46.5	
People Level 09	Area	11.0	11.0	
People Level 10	Area	9.7	9.7	
People Level Roof	Area	32.2	32.2	

1000 Seward Contribution level - People (D & N) 2022

9

Source	Source type	Leq,d dB(A)	Leq,n dB(A)	
Receiver R3 FI 1.FL Leq,d 44.5 dB(A) Leq,n 43.6 dB(A)				
People Level 01	Area	26.1	26.1	
People Level 01 Tierred Seating	Area	17.9	17.9	
People Level 02	Area	9.9	9.9	
People Level 04	Area	37.5		
People Level 05	Area	16.9	16.9	
People Level 08	Area	43.2	43.2	
People Level 09	Area	20.5	20.5	
People Level 10	Area	9.7	9.7	
People Level Roof	Area	31.1	31.1	
Receiver R3 FI 2.FL Leq,d 44.8 dB(A) Leq,n 43.3 dB(A)				
People Level 01	Area	26.3	26.3	
People Level 01 Tierred Seating	Area	18.5	18.5	
People Level 02	Area	10.6	10.6	
People Level 04	Area	39.5		
People Level 05	Area	17.7	17.7	
People Level 08	Area	42.7	42.7	
People Level 09	Area	19.8	19.8	
People Level 10	Area	10.0	10.0	
People Level Roof	Area	32.5	32.5	
Receiver R4 FI 1.FL Leq,d 39.8 dB(A) Leq,n 39.3 dB(A)				
People Level 01	Area	28.4	28.4	
People Level 01 Tierred Seating	Area	32.1	32.1	
People Level 02	Area	27.6	27.6	
People Level 04	Area	30.4		
People Level 05	Area	10.4	10.4	
People Level 08	Area	36.0	36.0	
People Level 09	Area	23.5	23.5	
People Level 10	Area	21.9	21.9	
People Level Roof	Area	30.9	30.9	
Receiver R4 FI 2.FL Leq,d 39.7 dB(A) Leq,n 38.8 dB(A)				
People Level 01	Area	27.9	27.9	
People Level 01 Tierred Seating	Area	32.7	32.7	
People Level 02	Area	28.7	28.7	
People Level 04	Area	32.2		
People Level 05	Area	9.8	9.8	
People Level 08	Area	34.6	34.6	
People Level 09	Area	22.5	22.5	
People Level 10	Area	22.0	22.0	
People Level Roof	Area	30.7	30.7	

**1000 Seward
Contribution level - People (D & N) 2022**

9

Source	Source type	Leq,d dB(A)	Leq,n dB(A)
Receiver R5 FI 1.FL Leq,d 30.9 dB(A) Leq,n 30.6 dB(A)			
People Level 01	Area	14.5	14.5
People Level 01 Tierred Seating	Area	22.5	22.5
People Level 02	Area	25.0	25.0
People Level 04	Area	20.0	
People Level 05	Area	23.1	23.1
People Level 08	Area	22.1	22.1
People Level 09	Area	18.7	18.7
People Level 10	Area	18.9	18.9
People Level Roof	Area	19.7	19.7

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AES 22801 Crespi St Woodland Hills, CA 91364 USA

1000 Seward
Octave spectra of the sources in dB(A) - Speakers (D & N)

3

Name	Source type	Lw dB(A)	Time histogram	
Speakers Level 01	Point	99.2	Day & Night	
Speakers Level 02	Point	99.2	Day & Night	
Speakers Level 04	Point	94.2	Day Only	
Speakers Level 04	Point	94.2	Day Only	
Speakers Level 04	Point	94.2	Day Only	
Speakers Level 05	Point	99.2	Day & Night	
Speakers Level 05	Point	99.2	Day & Night	
Speakers Level 08	Point	99.2	Day & Night	
Speakers Level 08	Point	99.2	Day & Night	
Speakers Level 08	Point	99.2	Day & Night	
Speakers Level 08	Point	99.2	Day & Night	
Speakers Level 08	Point	99.2	Day & Night	
Speakers Level 08	Point	99.2	Day & Night	
Speakers Level 08	Point	99.2	Day & Night	
Speakers Level 08	Point	99.2	Day & Night	
Speakers Level 08	Point	99.2	Day & Night	
Speakers Level 09	Point	99.2	Day & Night	
Speakers Level 09	Point	99.2	Day & Night	
Speakers Level 09	Point	99.2	Day & Night	
Speakers Level 10	Point	99.2	Day & Night	
Speakers Level 10	Point	99.2	Day & Night	
Speakers Roof Level	Point	108.6	Day & Night	
Speakers Roof Level	Point	108.6	Day & Night	
Speakers Roof Level	Point	108.6	Day & Night	
Speakers Roof Level	Point	108.6	Day & Night	
Speakers Roof Level	Point	108.6	Day & Night	
Speakers Roof Level	Point	108.6	Day & Night	
Speakers Roof Level	Point	108.6	Day & Night	

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**1000 Seward
Contribution level - Speakers (D & N)**

9

Source	Source ty	Leq,d dB(A)	Leq,n dB(A)
Receiver R1 FI 1.FL	Leq,d	41.0 dB(A)	Leq,n 41.0 dB(A)
Speakers Roof Level	Point	34.6	34.6
Speakers Roof Level	Point	33.2	33.2
Speakers Roof Level	Point	18.3	18.3
Speakers Roof Level	Point	29.0	29.0
Speakers Roof Level	Point	20.5	20.5
Speakers Roof Level	Point	19.4	19.4
Speakers Roof Level	Point	19.9	19.9
Speakers Level 10	Point	10.0	10.0
Speakers Level 10	Point	11.2	11.2
Speakers Level 09	Point	8.9	8.9
Speakers Level 09	Point	7.9	7.9
Speakers Level 09	Point	7.7	7.7
Speakers Level 08	Point	9.8	9.8
Speakers Level 08	Point	8.1	8.1
Speakers Level 08	Point	9.7	9.7
Speakers Level 08	Point	10.2	10.2
Speakers Level 08	Point	25.9	25.9
Speakers Level 08	Point	32.1	32.1
Speakers Level 08	Point	8.4	8.4
Speakers Level 08	Point	22.5	22.5
Speakers Level 05	Point	31.0	31.0
Speakers Level 05	Point	34.5	34.5
Speakers Level 04	Point	20.4	
Speakers Level 04	Point	12.5	
Speakers Level 04	Point	14.2	
Speakers Level 02	Point	11.7	11.7
Speakers Level 01	Point	10.6	10.6
Receiver R1 FI 2.FL	Leq,d	41.8 dB(A)	Leq,n 41.8 dB(A)
Speakers Roof Level	Point	38.3	38.3
Speakers Roof Level	Point	32.1	32.1
Speakers Roof Level	Point	17.1	17.1
Speakers Roof Level	Point	28.1	28.1
Speakers Roof Level	Point	20.2	20.2
Speakers Roof Level	Point	18.1	18.1
Speakers Roof Level	Point	18.4	18.4
Speakers Level 10	Point	7.8	7.8
Speakers Level 10	Point	11.0	11.0
Speakers Level 09	Point	7.3	7.3
Speakers Level 09	Point	5.6	5.6
Speakers Level 09	Point	5.2	5.2
Speakers Level 08	Point	8.6	8.6
Speakers Level 08	Point	5.6	5.6
Speakers Level 08	Point	8.2	8.2

AES 22801 Crespi St Woodland Hills, CA 91364 USA

1

**1000 Seward
Contribution level - Speakers (D & N)**

9

Source	Source ty	Leq,d dB(A)	Leq,n dB(A)
Speakers Level 08	Point	9.0	9.0
Speakers Level 08	Point	26.9	26.9
Speakers Level 08	Point	30.9	30.9
Speakers Level 08	Point	6.1	6.1
Speakers Level 08	Point	21.8	21.8
Speakers Level 05	Point	30.5	30.5
Speakers Level 05	Point	34.4	34.4
Speakers Level 04	Point	19.7	
Speakers Level 04	Point	11.0	
Speakers Level 04	Point	12.9	
Speakers Level 02	Point	10.0	10.0
Speakers Level 01	Point	9.3	9.3
Receiver R2 FI 1.FL Leq,d 41.5 dB(A) Leq,n 39.0 dB(A)			
Speakers Roof Level	Point	30.2	30.2
Speakers Roof Level	Point	28.4	28.4
Speakers Roof Level	Point	14.3	14.3
Speakers Roof Level	Point	33.5	33.5
Speakers Roof Level	Point	13.5	13.5
Speakers Roof Level	Point	19.5	19.5
Speakers Roof Level	Point	21.6	21.6
Speakers Level 10	Point	3.3	3.3
Speakers Level 10	Point	3.6	3.6
Speakers Level 09	Point	3.7	3.7
Speakers Level 09	Point	2.9	2.9
Speakers Level 09	Point	2.6	2.6
Speakers Level 08	Point	11.1	11.1
Speakers Level 08	Point	4.3	4.3
Speakers Level 08	Point	9.7	9.7
Speakers Level 08	Point	12.3	12.3
Speakers Level 08	Point	27.7	27.7
Speakers Level 08	Point	26.8	26.8
Speakers Level 08	Point	3.0	3.0
Speakers Level 08	Point	31.2	31.2
Speakers Level 05	Point	30.6	30.6
Speakers Level 05	Point	11.9	11.9
Speakers Level 04	Point	30.2	
Speakers Level 04	Point	34.6	
Speakers Level 04	Point	33.5	
Speakers Level 02	Point	6.2	6.2
Speakers Level 01	Point	8.4	8.4
Receiver R2 FI 2.FL Leq,d 53.2 dB(A) Leq,n 45.6 dB(A)			
Speakers Roof Level	Point	38.5	38.5
Speakers Roof Level	Point	37.9	37.9
Speakers Roof Level	Point	20.0	20.0

**1000 Seward
Contribution level - Speakers (D & N)**

9

Source	Source ty	Leq,d dB(A)	Leq,n dB(A)
Speakers Roof Level	Point	41.4	41.4
Speakers Roof Level	Point	16.4	16.4
Speakers Roof Level	Point	25.2	25.2
Speakers Roof Level	Point	27.9	27.9
Speakers Level 10	Point	5.3	5.3
Speakers Level 10	Point	6.2	6.2
Speakers Level 09	Point	5.5	5.5
Speakers Level 09	Point	4.9	4.9
Speakers Level 09	Point	4.3	4.3
Speakers Level 08	Point	12.4	12.4
Speakers Level 08	Point	4.5	4.5
Speakers Level 08	Point	11.0	11.0
Speakers Level 08	Point	14.0	14.0
Speakers Level 08	Point	32.2	32.2
Speakers Level 08	Point	31.5	31.5
Speakers Level 08	Point	4.9	4.9
Speakers Level 08	Point	35.4	35.4
Speakers Level 05	Point	32.1	32.1
Speakers Level 05	Point	13.5	13.5
Speakers Level 04	Point	43.1	
Speakers Level 04	Point	49.5	
Speakers Level 04	Point	48.1	
Speakers Level 02	Point	7.3	7.3
Speakers Level 01	Point	7.2	7.2
Receiver R3 FI 1.FL	Leq,d 45.6 dB(A)	Leq,n 45.6 dB(A)	
Speakers Roof Level	Point	34.9	34.9
Speakers Roof Level	Point	37.4	37.4
Speakers Roof Level	Point	27.1	27.1
Speakers Roof Level	Point	29.5	29.5
Speakers Roof Level	Point	17.4	17.4
Speakers Roof Level	Point	38.0	38.0
Speakers Roof Level	Point	38.9	38.9
Speakers Level 10	Point	8.8	8.8
Speakers Level 10	Point	5.1	5.1
Speakers Level 09	Point	11.2	11.2
Speakers Level 09	Point	3.1	3.1
Speakers Level 09	Point	3.6	3.6
Speakers Level 08	Point	34.9	34.9
Speakers Level 08	Point	5.0	5.0
Speakers Level 08	Point	33.9	33.9
Speakers Level 08	Point	36.2	36.2
Speakers Level 08	Point	28.5	28.5
Speakers Level 08	Point	30.6	30.6
Speakers Level 08	Point	3.3	3.3
Speakers Level 08	Point	23.5	23.5

**1000 Seward
Contribution level - Speakers (D & N)**

9

Source	Source ty	Leq,d dB(A)	Leq,n dB(A)
Speakers Level 05	Point	14.9	14.9
Speakers Level 05	Point	5.0	5.0
Speakers Level 04	Point	18.2	
Speakers Level 04	Point	23.0	
Speakers Level 04	Point	20.8	
Speakers Level 02	Point	5.7	5.7
Speakers Level 01	Point	16.3	16.3
Receiver R3 FI 2.FL Leq,d 47.6 dB(A) Leq,n 47.6 dB(A)			
Speakers Roof Level	Point	37.1	37.1
Speakers Roof Level	Point	38.6	38.6
Speakers Roof Level	Point	29.0	29.0
Speakers Roof Level	Point	31.6	31.6
Speakers Roof Level	Point	19.0	19.0
Speakers Roof Level	Point	40.0	40.0
Speakers Roof Level	Point	41.0	41.0
Speakers Level 10	Point	9.7	9.7
Speakers Level 10	Point	5.9	5.9
Speakers Level 09	Point	12.8	12.8
Speakers Level 09	Point	2.4	2.4
Speakers Level 09	Point	3.0	3.0
Speakers Level 08	Point	37.4	37.4
Speakers Level 08	Point	4.4	4.4
Speakers Level 08	Point	36.2	36.2
Speakers Level 08	Point	38.8	38.8
Speakers Level 08	Point	29.9	29.9
Speakers Level 08	Point	31.7	31.7
Speakers Level 08	Point	2.6	2.6
Speakers Level 08	Point	25.7	25.7
Speakers Level 05	Point	15.8	15.8
Speakers Level 05	Point	7.1	7.1
Speakers Level 04	Point	21.4	
Speakers Level 04	Point	25.8	
Speakers Level 04	Point	24.2	
Speakers Level 02	Point	6.4	6.4
Speakers Level 01	Point	16.9	16.9
Receiver R4 FI 1.FL Leq,d 50.4 dB(A) Leq,n 50.4 dB(A)			
Speakers Roof Level	Point	35.8	35.8
Speakers Roof Level	Point	34.1	34.1
Speakers Roof Level	Point	34.7	34.7
Speakers Roof Level	Point	26.9	26.9
Speakers Roof Level	Point	29.6	29.6
Speakers Roof Level	Point	46.0	46.0
Speakers Roof Level	Point	45.0	45.0
Speakers Level 10	Point	26.3	26.3

AES 22801 Crespi St Woodland Hills, CA 91364 USA

4

**1000 Seward
Contribution level - Speakers (D & N)**

9

Source	Source ty	Leq,d dB(A)	Leq,n dB(A)
Speakers Level 10	Point	23.9	23.9
Speakers Level 09	Point	25.6	25.6
Speakers Level 09	Point	16.8	16.8
Speakers Level 09	Point	16.7	16.7
Speakers Level 08	Point	38.8	38.8
Speakers Level 08	Point	17.8	17.8
Speakers Level 08	Point	39.9	39.9
Speakers Level 08	Point	37.6	37.6
Speakers Level 08	Point	21.3	21.3
Speakers Level 08	Point	24.7	24.7
Speakers Level 08	Point	18.4	18.4
Speakers Level 08	Point	6.8	6.8
Speakers Level 05	Point	8.3	8.3
Speakers Level 05	Point	0.9	0.9
Speakers Level 04	Point	-4.4	
Speakers Level 04	Point	-1.5	
Speakers Level 04	Point	-3.8	
Speakers Level 02	Point	27.8	27.8
Speakers Level 01	Point	32.8	32.8
Receiver R4 FI 2.FL Leq,d 50.7 dB(A) Leq,n 50.7 dB(A)			
Speakers Roof Level	Point	36.6	36.6
Speakers Roof Level	Point	34.1	34.1
Speakers Roof Level	Point	34.9	34.9
Speakers Roof Level	Point	27.6	27.6
Speakers Roof Level	Point	30.5	30.5
Speakers Roof Level	Point	45.9	45.9
Speakers Roof Level	Point	45.0	45.0
Speakers Level 10	Point	27.3	27.3
Speakers Level 10	Point	24.3	24.3
Speakers Level 09	Point	25.8	25.8
Speakers Level 09	Point	16.3	16.3
Speakers Level 09	Point	16.0	16.0
Speakers Level 08	Point	40.0	40.0
Speakers Level 08	Point	17.4	17.4
Speakers Level 08	Point	41.0	41.0
Speakers Level 08	Point	38.8	38.8
Speakers Level 08	Point	21.8	21.8
Speakers Level 08	Point	24.8	24.8
Speakers Level 08	Point	18.0	18.0
Speakers Level 08	Point	7.0	7.0
Speakers Level 05	Point	7.8	7.8
Speakers Level 05	Point	0.8	0.8
Speakers Level 04	Point	-4.7	
Speakers Level 04	Point	1.0	
Speakers Level 04	Point	-3.7	

**1000 Seward
Contribution level - Speakers (D & N)**

9

Source	Source ty	Leq,d dB(A)	Leq,n dB(A)
Speakers Level 02	Point	29.1	29.1
Speakers Level 01	Point	32.5	32.5
Receiver R5 FI 1.FL Leq,d 32.7 dB(A) Leq,n 32.7 dB(A)			
Speakers Roof Level	Point	21.1	21.1
Speakers Roof Level	Point	26.1	26.1
Speakers Roof Level	Point	21.2	21.2
Speakers Roof Level	Point	15.6	15.6
Speakers Roof Level	Point	22.9	22.9
Speakers Roof Level	Point	14.4	14.4
Speakers Roof Level	Point	13.8	13.8
Speakers Level 10	Point	16.6	16.6
Speakers Level 10	Point	17.5	17.5
Speakers Level 09	Point	16.2	16.2
Speakers Level 09	Point	12.0	12.0
Speakers Level 09	Point	16.4	16.4
Speakers Level 08	Point	4.7	4.7
Speakers Level 08	Point	10.8	10.8
Speakers Level 08	Point	6.0	6.0
Speakers Level 08	Point	3.8	3.8
Speakers Level 08	Point	10.9	10.9
Speakers Level 08	Point	16.0	16.0
Speakers Level 08	Point	12.2	12.2
Speakers Level 08	Point	5.1	5.1
Speakers Level 05	Point	22.3	22.3
Speakers Level 05	Point	24.2	24.2
Speakers Level 04	Point	4.5	
Speakers Level 04	Point	-0.5	
Speakers Level 04	Point	-0.2	
Speakers Level 02	Point	21.4	21.4
Speakers Level 01	Point	15.4	15.4

Off-Site Traffic Noise Calculations
Project: 1000 Seward Project

Traffic Distribution as % of ADT				
Vehicle Type	Day	Eve	Night	Sub total
Auto	77.6%	9.7%	9.7%	97.0%
Medium Truck	1.6%	0.2%	0.2%	2.0%
Heavy Truck	0.8%	0.1%	0.1%	1.0%
	80.0%	10.0%	10.0%	100.0%

PHV to
ADT factor
10%

EXISTING CONDITIONS

Roadway Segment	Roadway Width*, ft	Distance to Edge of Roadway, ft	Distance to Centerline, feet	Speed mph	Traffic Volume PHV	ADT	PHV to ADT factor	Barrier Atten.	Site Adjust., dBA	24-Hour CNEL
Seward Street										
- Between Santa Monica Blvd. and Romaine St.	30	10	25	25	321	3,210	10%	0	0	59.3
- Between Romaine St. and Melrose Ave.	30	10	25	25	436	4,360	10%	0	0	60.7
Hudson Avenue										
- Between Santa Monica Blvd. and Romaine St.	40	10	30	25	297	2,970	10%	0	0	58.1
- Between Romaine St. and Melrose Ave.	40	10	30	25	257	2,570	10%	0	0	57.5
Wilcox Avenue										
- Between Fountain Ave. and Santa Monica Blvd.	40	10	30	25	611	6,110	10%	0	0	61.2
- Between Santa Monica Blvd. and Romaine St.	40	10	30	25	447	4,470	10%	0	0	59.9
Santa Monica Boulevard										
- Between Las Palmas and Seward St.	50	10	35	35	2,843	28,430	10%	0	0	70.4
- Between Seward St. and Wilcox Ave.	50	10	35	35	2,873	28,730	10%	0	0	70.4
- Between Wilcox Ave. and Cahuenga Blvd.	50	10	35	35	2,834	28,340	10%	0	0	70.4
Romaine Street										
- Between Las Palmas and Seward St.	30	10	25	25	207	2,070	10%	0	0	57.4
- Between Seward St. and Wilcox Ave.	30	10	25	25	196	1,960	10%	0	0	57.2
- Between Wilcox Ave. and Cahuenga Blvd.	30	10	25	25	186	1,860	10%	0	0	57.0

* Estimated based on Google Earth map.

** Calculated using FHWA's TNM Version 2.5 Computer Noise Model.

Off-Site Traffic Noise Calculations
Project: 1000 Seward Project

Traffic Distribution as % of ADT				
Vehicle Type	Day	Eve	Night	Sub total
Auto	77.6%	9.7%	9.7%	97.0%
Medium Truck	1.6%	0.2%	0.2%	2.0%
Heavy Truck	0.8%	0.1%	0.1%	1.0%
	80.0%	10.0%	10.0%	100.0%

PHV to
ADT factor
10%

EXISTING + PROJECT CONDITIONS

Roadway Segment	Roadway Width*, ft	Distance to Edge of Roadway, ft	Distance to Centerline, feet	Speed mph	Traffic Volume PHV	ADT	PHV to ADT factor	Barrier Atten.	Site Adjust., dBA	24-Hour CNEL
Seward Street										
- Between Santa Monica Blvd. and Romaine St.	30	10	25	25	321	3,210	10%	0	0	59.3
- Between Romaine St. and Melrose Ave.	30	10	25	25	446	4,460	10%	0	0	60.7
Hudson Avenue										
- Between Santa Monica Blvd. and Romaine St.	40	10	30	25	418	4,180	10%	0	0	59.6
- Between Romaine St. and Melrose Ave.	40	10	30	25	266	2,660	10%	0	0	57.6
Wilcox Avenue										
- Between Fountain Ave. and Santa Monica Blvd.	40	10	30	25	621	6,210	10%	0	0	61.3
- Between Santa Monica Blvd. and Romaine St.	40	10	30	25	465	4,650	10%	0	0	60.0
Santa Monica Boulevard										
- Between Las Palmas and Seward St.	50	10	35	35	2,863	28,630	10%	0	0	70.4
- Between Seward St. and Wilcox Ave.	50	10	35	35	2,909	29,090	10%	0	0	70.5
- Between Wilcox Ave. and Cahuenga Blvd.	50	10	35	35	2,896	28,960	10%	0	0	70.5
Romaine Street										
- Between Las Palmas and Seward St.	30	10	25	25	246	2,460	10%	0	0	58.2
- Between Seward St. and Wilcox Ave.	30	10	25	25	251	2,510	10%	0	0	58.3
- Between Wilcox Ave. and Cahuenga Blvd.	30	10	25	25	230	2,300	10%	0	0	57.9

* Estimated based on Google Earth map.

** Calculated using FHWA's TNM Version 2.5 Computer Noise Model.

Off-Site Traffic Noise Calculations
Project: 1000 Seward Project

Traffic Distribution as % of ADT				
Vehicle Type	Day	Eve	Night	Sub total
Auto	77.6%	9.7%	9.7%	97.0%
Medium Truck	1.6%	0.2%	0.2%	2.0%
Heavy Truck	0.8%	0.1%	0.1%	1.0%
	80.0%	10.0%	10.0%	100.0%

PHV to
ADT factor
10%

FUTURE NO PROJECT CONDITIONS

Roadway Segment	Roadway Width*, ft	Distance to Edge of Roadway, ft	Distance to Centerline, feet	Speed mph	Traffic Volume PHV	ADT	PHV to ADT factor	Barrier Atten.	Site Adjust., dBA	24-Hour CNEL
Seward Street										
- Between Santa Monica Blvd. and Romaine St.	30	10	25	25	359	3,590	10%	0	0	59.8
- Between Romaine St. and Melrose Ave.	30	10	25	25	453	4,530	10%	0	0	60.8
Hudson Avenue										
- Between Santa Monica Blvd. and Romaine St.	40	10	30	25	309	3,090	10%	0	0	58.3
- Between Romaine St. and Melrose Ave.	40	10	30	25	268	2,680	10%	0	0	57.6
Wilcox Avenue										
- Between Fountain Ave. and Santa Monica Blvd.	40	10	30	25	637	6,370	10%	0	0	61.4
- Between Santa Monica Blvd. and Romaine St.	40	10	30	25	466	4,660	10%	0	0	60.0
Santa Monica Boulevard										
- Between Las Palmas and Seward St.	50	10	35	35	3,516	35,160	10%	0	0	71.3
- Between Seward St. and Wilcox Ave.	50	10	35	35	3,556	35,560	10%	0	0	71.4
- Between Wilcox Ave. and Cahuenga Blvd.	50	10	35	35	3,523	35,230	10%	0	0	71.3
Romaine Street										
- Between Las Palmas and Seward St.	30	10	25	25	242	2,420	10%	0	0	58.1
- Between Seward St. and Wilcox Ave.	30	10	25	25	212	2,120	10%	0	0	57.5
- Between Wilcox Ave. and Cahuenga Blvd.	30	10	25	25	202	2,020	10%	0	0	57.3

* Estimated based on Google Earth map.

** Calculated using FHWA's TNM Version 2.5 Computer Noise Model.

Off-Site Traffic Noise Calculations
Project: 1000 Seward Project

Traffic Distribution as % of ADT				
Vehicle Type	Day	Eve	Night	Sub total
Auto	77.6%	9.7%	9.7%	97.0%
Medium Truck	1.6%	0.2%	0.2%	2.0%
Heavy Truck	0.8%	0.1%	0.1%	1.0%
	80.0%	10.0%	10.0%	100.0%

PHV to
ADT factor
10%

FUTURE + PROJECT CONDITIONS

Roadway Segment	Roadway Width*, ft	Distance to Edge of Roadway, ft	Distance to Centerline, feet	Speed mph	Traffic Volume PHV	ADT	PHV to ADT factor	Barrier Atten.	Site Adjust., dBA	24-Hour CNEL
Seward Street										
- Between Santa Monica Blvd. and Romaine St.	30	10	25	25	359	3,590	10%	0	0	59.8
- Between Romaine St. and Melrose Ave.	30	10	25	25	463	4,630	10%	0	0	60.9
Hudson Avenue										
- Between Santa Monica Blvd. and Romaine St.	40	10	30	25	430	4,300	10%	0	0	59.7
- Between Romaine St. and Melrose Ave.	40	10	30	25	277	2,770	10%	0	0	57.8
Wilcox Avenue										
- Between Fountain Ave. and Santa Monica Blvd.	40	10	30	25	647	6,470	10%	0	0	61.5
- Between Santa Monica Blvd. and Romaine St.	40	10	30	25	483	4,830	10%	0	0	60.2
Santa Monica Boulevard										
- Between Las Palmas and Seward St.	50	10	35	35	3,536	35,360	10%	0	0	71.3
- Between Seward St. and Wilcox Ave.	50	10	35	35	3,593	35,930	10%	0	0	71.4
- Between Wilcox Ave. and Cahuenga Blvd.	50	10	35	35	3,585	35,850	10%	0	0	71.4
Romaine Street										
- Between Las Palmas and Seward St.	30	10	25	25	281	2,810	10%	0	0	58.7
- Between Seward St. and Wilcox Ave.	30	10	25	25	267	2,670	10%	0	0	58.5
- Between Wilcox Ave. and Cahuenga Blvd.	30	10	25	25	246	2,460	10%	0	0	58.2

* Estimated based on Google Earth map.

** Calculated using FHWA's TNM Version 2.5 Computer Noise Model.

Summary

L01: 1,500 SF
 L02: 750 SF
 L04: 6,000 SF
 L05: 3,850 SF
 L08: 8,800 SF
 L09: 1,300 SF
 L10: 800 SF
 Roof: 7,500 SF
TOTAL GROSS TERRACE AREA: 30,500 SF

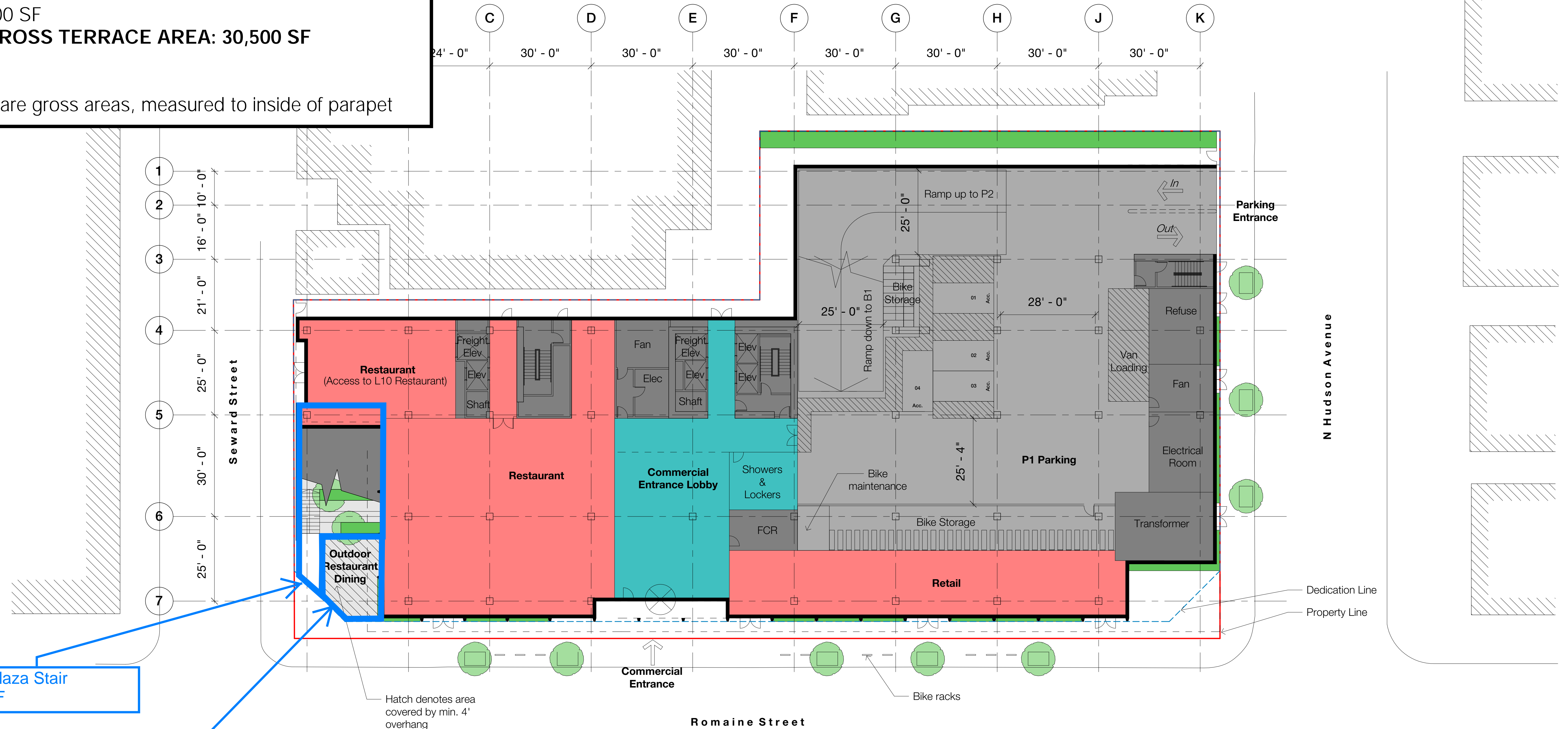
Note

All figures are gross areas, measured to inside of parapet

**EXHIBIT A -
 OUTDOOR AREAS FOR NOISE
 CALCULATIONS**

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No.	Description	Date
1	Entitlements Progress	01/15/20
2	Entitlements Progress	01/22/20
3	Entitlements Package	02/14/20



Public Plaza Stair
1,100 SF

Restaurant dining
400 SF

1 1st Floor Plan
1/16" = 1'-0"

Key

- Property Line
- Dedication Line

Scale: 1/16" = 1'-0"

Parking schedule	
Standard spaces	0
Compact spaces	0
Accessible spaces	2
Van spaces	2
Total spaces	4

FAR schedule	
Retail	
Restaurant/ Hospital	
Commercial	
External terraces (c)	
Total FAR	

Entitlements scheme - Gross terrace areas
 1000 Seward St
 Sep 8th 2021
HB_190176_SK_096

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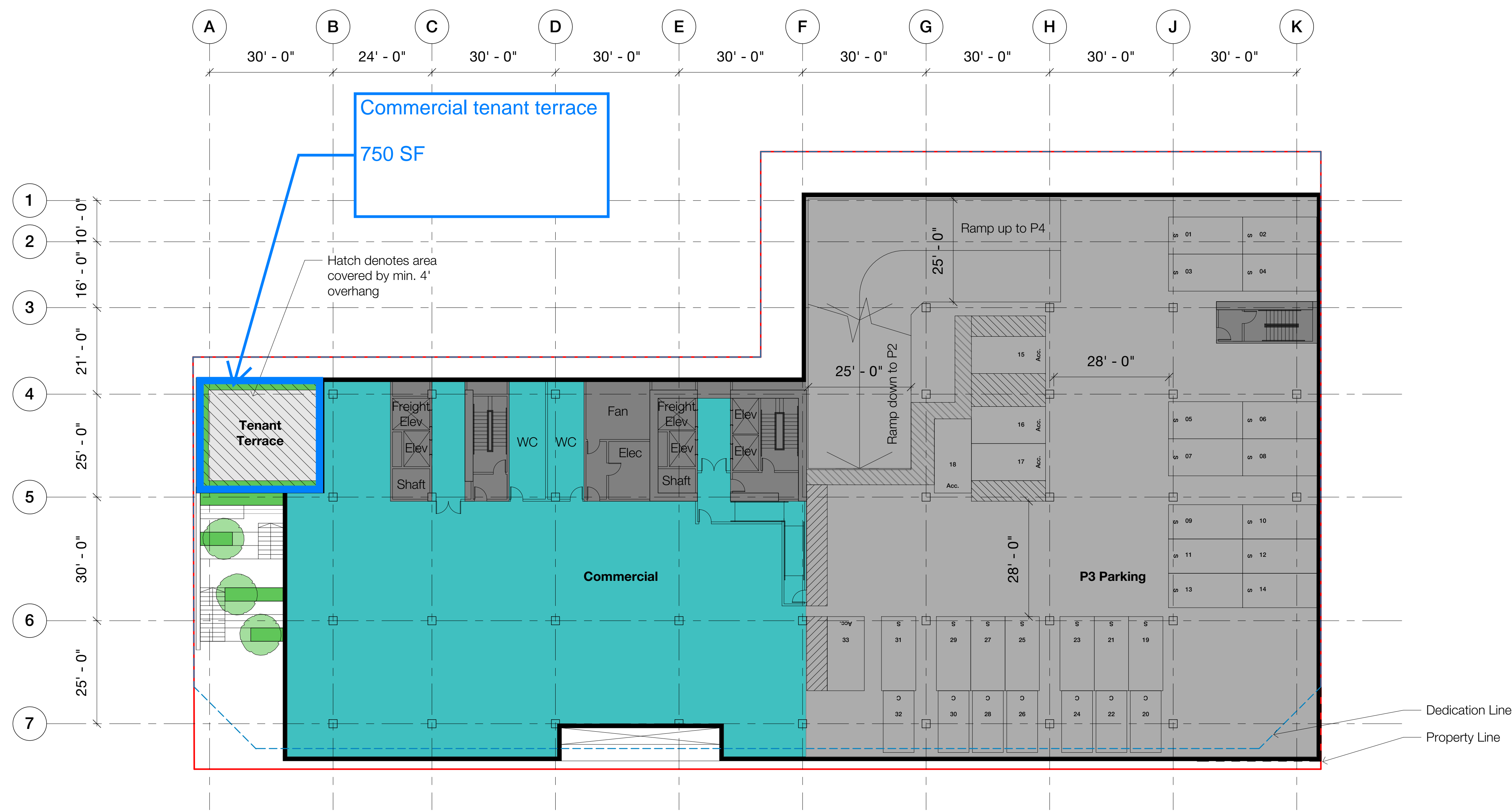
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Drawing
 1st Floor Plan

Scale @ Arch D Date

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No.	Description	Date
1	Entitlements Progress	01/15/20
2	Entitlements Progress	01/22/20
3	Entitlements Package	02/14/20



1 2nd Floor Plan
1/16" = 1'-0"

Key

- Property Line
- Dedication Line

Scale: 1/16" = 1'-0"

Parking schedule	
Standard spaces	21
Compact spaces	7
Accessible spaces	4
Van spaces	1
Total spaces	33

FAR schedule	
Retail	
Restaurant/ Hospital	
Commercial	
External terraces (c	
Total FAR	

Entitlements scheme - Gross terrace areas
 1000 Seward St
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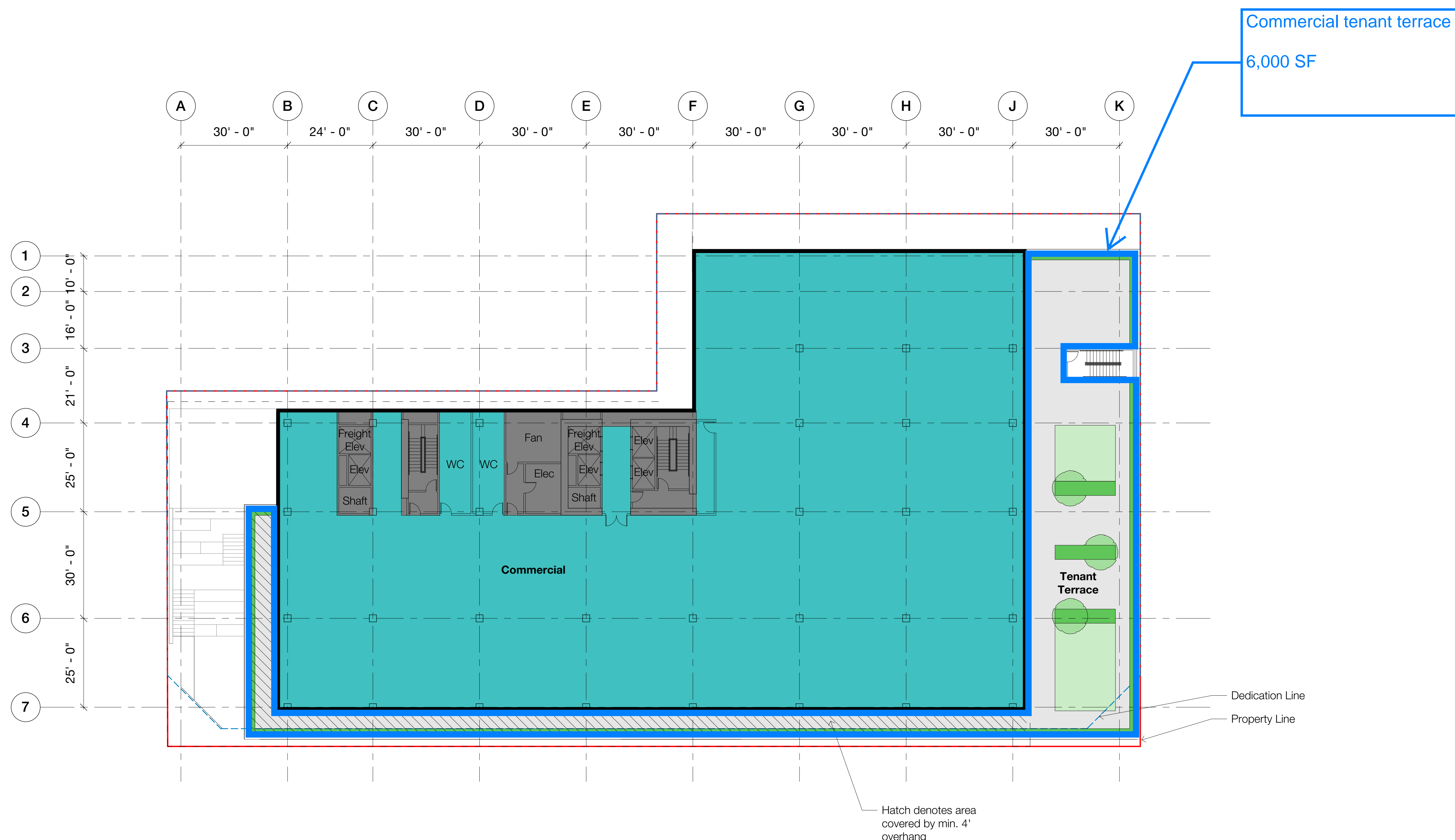
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Drawing
 2nd Floor Plan

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No.	Description	Date
Entitlements Progress		01/15/20
Entitlements Progress		01/22/20
Entitlements Package		02/14/20



1 4th Floor Plan
1/16" = 1'-0"

Key

- Property Line
- Dedication Line

Scale: 1/16" = 1'-0"

FAR schedule	
Retail	
Restaurant/ Hospit	
Commercial	
External terraces (o	
Total FAR	

Entitlements scheme - Gross terrace areas
 1000 Seward St
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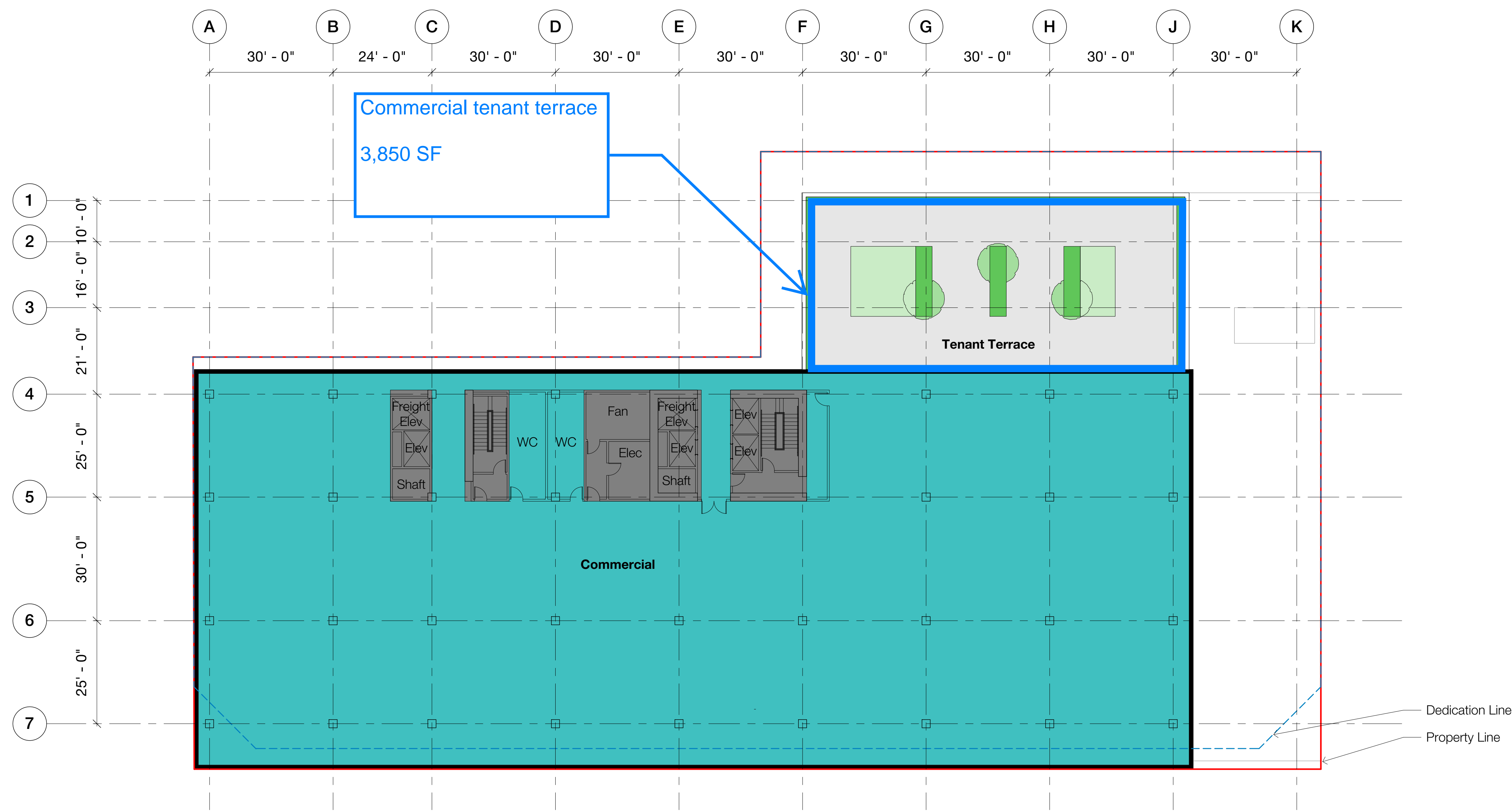
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Drawing
 4th Floor Plan

Scale @ Arch D	Date

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No.	Description	Date
Entitlements Progress		01/15/20
Entitlements Progress		01/22/20
Entitlements Package		02/14/20



1 5th Floor Plan
1/16" = 1'-0"

Key

- Property Line
- Dedication Line

Scale: 1/16" = 1'-0"

FAR schedule	
Retail	
Restaurant/ Hospital	
Commercial	
External terraces (o	
Total FAR	

Entitlements scheme - Gross terrace areas
 1000 Seward St
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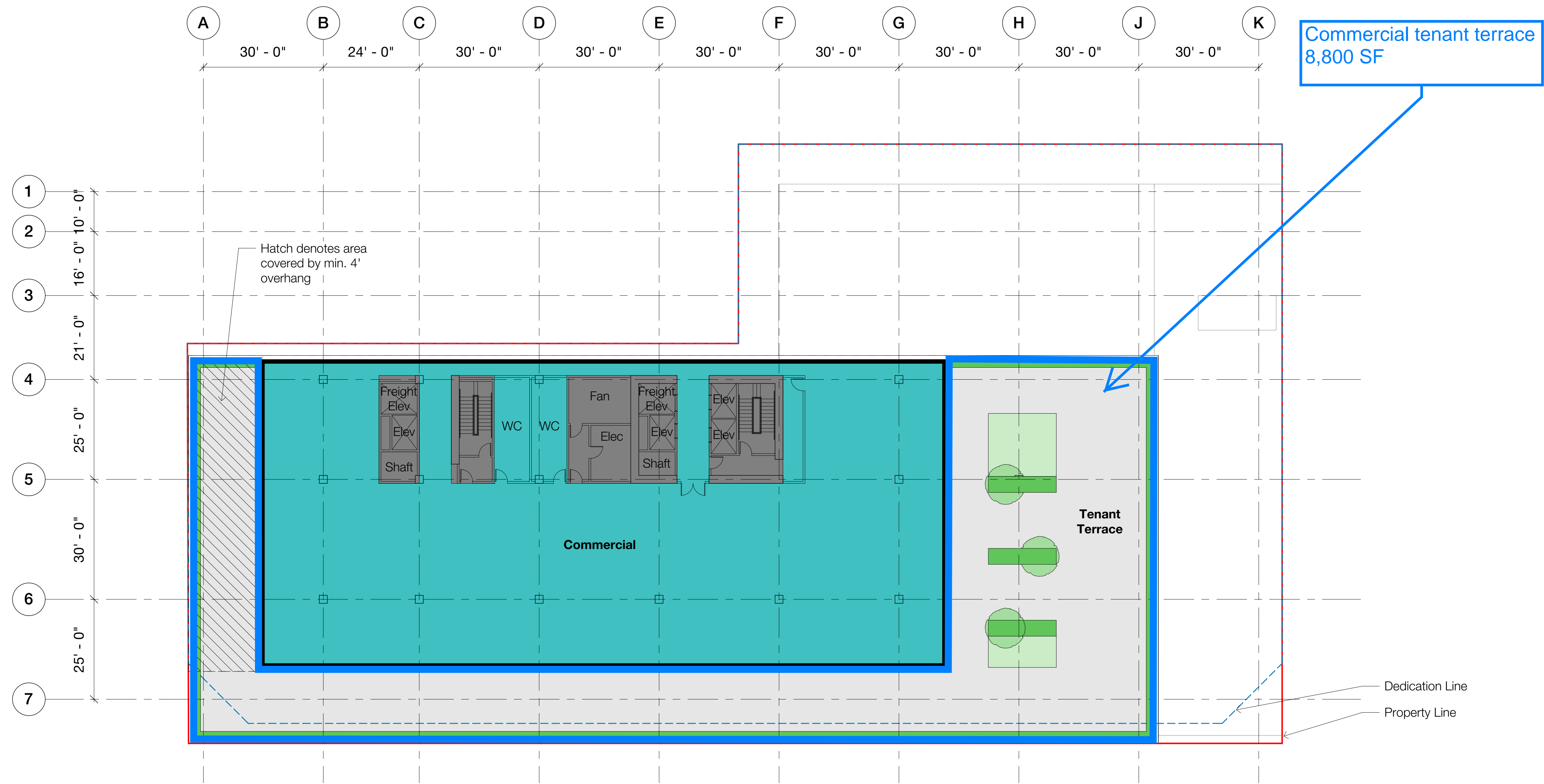
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Drawing
 5th Floor Plan

Scale @ Arch D Date

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No.	Description	Date
1	Entitlements Progress	01/15/20
2	Entitlements Progress	01/22/20
3	Entitlements Package	02/14/20



1 8th Floor Plan
1/16" = 1'-0"

Key

- Property Line
- Dedication Line

Scale: 1/16" = 1'-0"

FAR schedule	
Retail	
Restaurant/ Hospital	
Commercial	
External terraces (c)	
Total FAR	

Entitlements scheme - Gross terrace areas
 1000 Seward St
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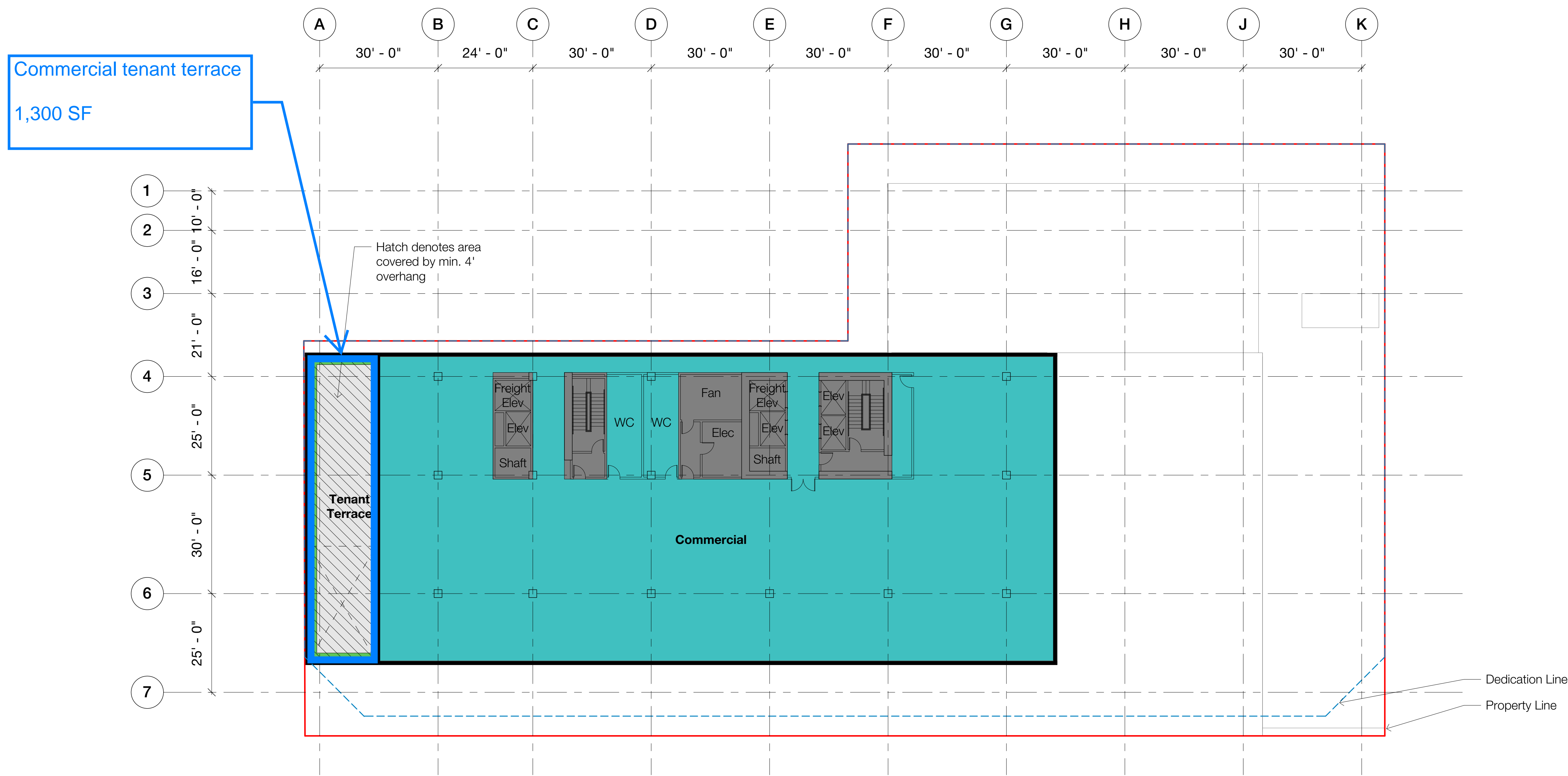
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Drawing
 8th Floor Plan

Scale @ Arch D	Date

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No.	Description	Date
Entitlements Progress		01/15/20
Entitlements Progress		01/22/20
Entitlements Package		02/14/20



1 9th Floor Plan
1/16" = 1'-0"

Key

- Property Line
- Dedication Line

Scale: 1/16" = 1'-0"

FAR schedule	
Retail	
Restaurant/ Hospital	
Commercial	
External terraces (c	
Total FAR	

Entitlements scheme - Gross terrace areas
 1000 Seward St
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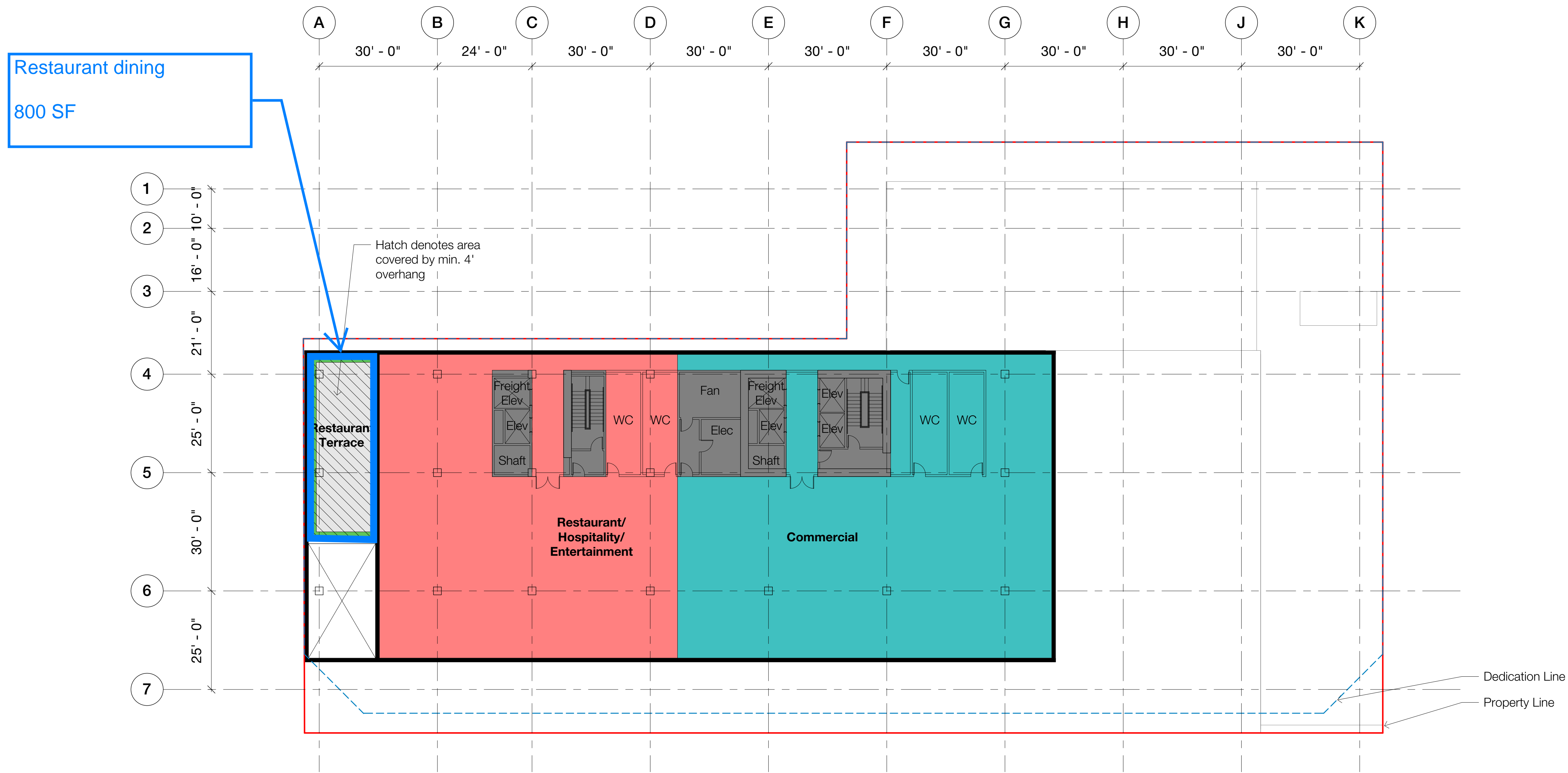
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Drawing
 9th Floor Plan

Scale @ Arch D Date

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No.	Description	Date
Entitlements Progress		01/15/20
Entitlements Progress		01/22/20
Entitlements Package		02/14/20



1 10th Floor Plan
1/16" = 1'-0"

Key

- Property Line
- Dedication Line

Scale: 1/16" = 1'-0"

FAR schedule	
Retail	
Restaurant/ Hospitality	
Commercial	
External terraces (c)	
Total FAR	

Entitlements scheme - Gross terrace areas
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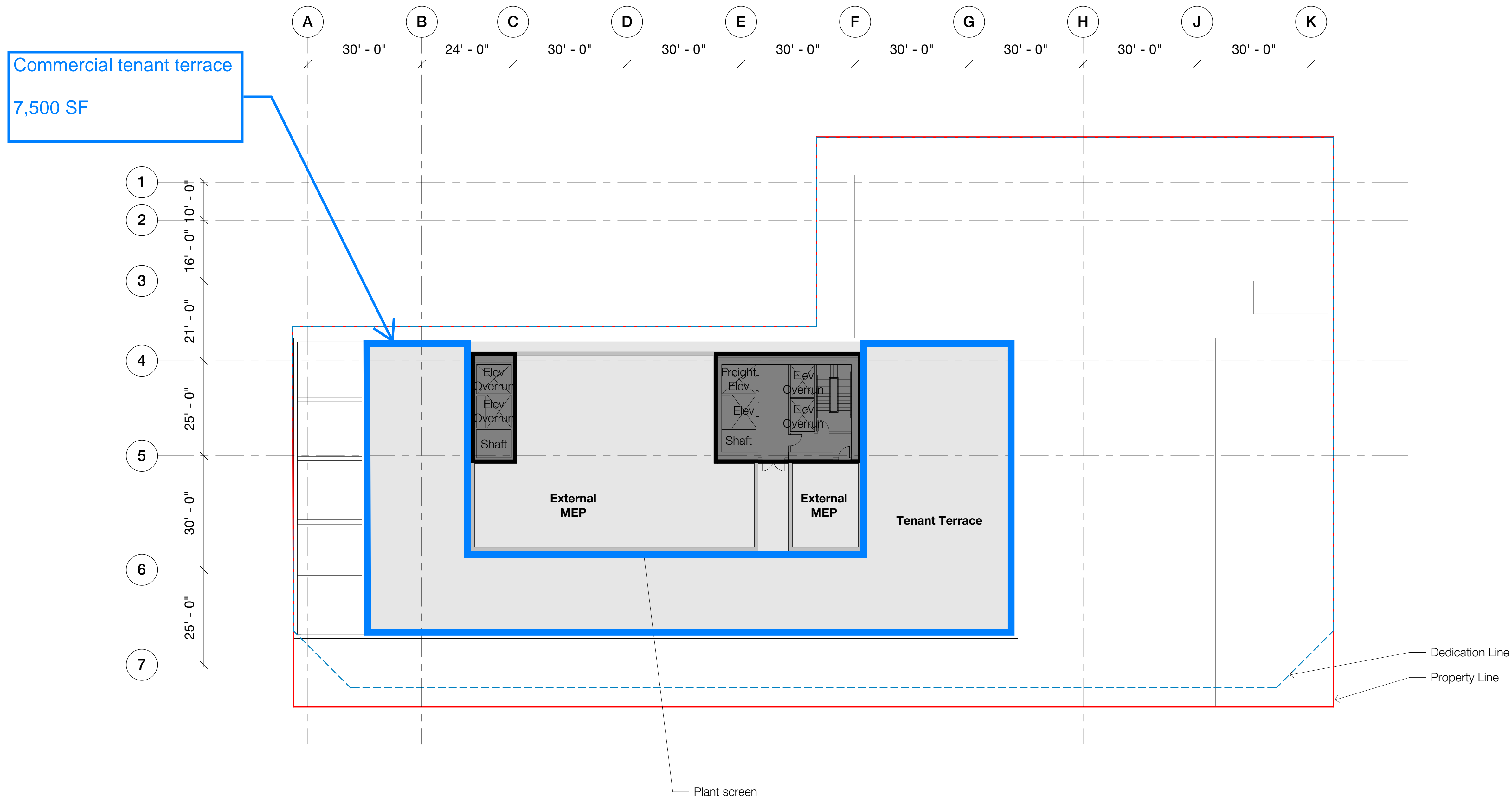
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Drawing
 10th Floor Plan

Scale @ Arch D	Date

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No.	Description	Date
Entitlements Progress		01/15/20
Entitlements Progress		01/22/20
Entitlements Package		02/14/20



1 Roof Plan
1/16" = 1'-0"

Key

- Property Line
- Dedication Line

Scale: 1/16" = 1'-0"

FAR schedule	
Retail	
Restaurant/ Hospital	
Commercial	
External terraces (c	
Total FAR	

Entitlements scheme - Gross terrace areas
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Drawing
 Roof Plan

Scale @ Arch D	Date