

Appendix H

Noise and Vibration Calculation Worksheets

130 College Project

Noise and Vibration Calculations Worksheets

Provided by Acoustical Engineering Services

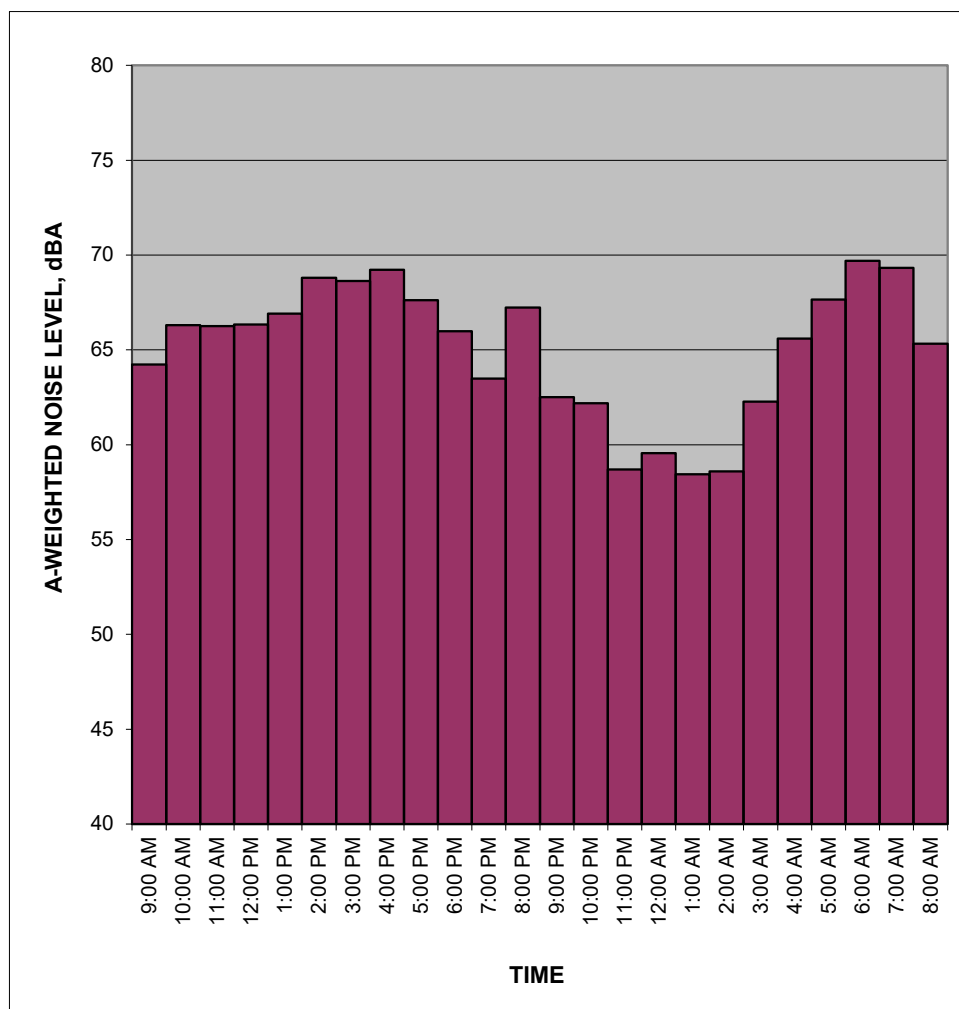
Ambient Noise Measurements

Measured Ambient Noise Levels

Project: 130 W College
Location: R2
Sources: Ambient

Date: 5/28 - 5/29/2024

TIME	HNL, dB(A)
9:00 AM	64.2
10:00 AM	66.3
11:00 AM	66.2
12:00 PM	66.3
1:00 PM	66.9
2:00 PM	68.8
3:00 PM	68.6
4:00 PM	69.2
5:00 PM	67.6
6:00 PM	66.0
7:00 PM	63.5
8:00 PM	67.2
9:00 PM	62.5
10:00 PM	62.2
11:00 PM	58.7
12:00 AM	59.6
1:00 AM	58.4
2:00 AM	58.6
3:00 AM	62.3
4:00 AM	65.6
5:00 AM	67.7
6:00 AM	69.7
7:00 AM	69.3
8:00 AM	65.3
CNEL, dB(A):	71.6



NOTES:

Daytime average 67.0 dBA Leq
Nighttime average 64.5 dBA Leq

Location: R1
 Date: 3/13/2024

Time	Leq
10:01:24 AM	57.7
10:01:34 AM	64.8
10:01:44 AM	63.8
10:01:54 AM	60.1
10:02:04 AM	57.9
10:02:14 AM	62.9
10:02:24 AM	64.4
10:02:34 AM	61.9
10:02:44 AM	59.5
10:02:54 AM	60.7
10:03:04 AM	63.7
10:03:14 AM	63.5
10:03:24 AM	60.5
10:03:34 AM	61.4
10:03:44 AM	63.1
10:03:54 AM	64.0
10:04:04 AM	62.5
10:04:14 AM	62.5
10:04:24 AM	62.8
10:04:34 AM	71.8
10:04:44 AM	71.5
10:04:54 AM	60.7
10:05:04 AM	62.0
10:05:14 AM	60.1
10:05:24 AM	64.5
10:05:34 AM	70.3
10:05:44 AM	65.0
10:05:54 AM	61.7
10:06:04 AM	61.1
10:06:14 AM	60.0
10:06:24 AM	71.6
10:06:34 AM	75.9
10:06:44 AM	67.0
10:06:54 AM	68.1
10:07:04 AM	68.9
10:07:14 AM	66.7
10:07:24 AM	65.7
10:07:34 AM	64.9
10:07:44 AM	65.5
10:07:54 AM	64.3
10:08:04 AM	66.4
10:08:14 AM	67.5
10:08:24 AM	67.7
10:08:34 AM	65.6

10:08:44 AM	66.5
10:08:54 AM	66.5
10:09:04 AM	66.6
10:09:14 AM	65.4
10:09:24 AM	76.3
10:09:34 AM	71.8
10:09:44 AM	64.2
10:09:54 AM	68.5
10:10:04 AM	68.2
10:10:14 AM	72.4
10:10:24 AM	69.6
10:10:34 AM	69.5
10:10:44 AM	71.3
10:10:54 AM	70.1
10:11:04 AM	72.7
10:11:14 AM	68.5
10:11:24 AM	66.6
10:11:34 AM	64.3
10:11:44 AM	65.1
10:11:54 AM	65.1
10:12:04 AM	64.3
10:12:14 AM	60.1
10:12:24 AM	62.5
10:12:34 AM	65.9
10:12:44 AM	70.5
10:12:54 AM	77.5
10:13:04 AM	77.6
10:13:14 AM	70.2
10:13:24 AM	65.3
10:13:34 AM	59.7
10:13:44 AM	59.8
10:13:54 AM	59.3
10:14:04 AM	57.6
10:14:14 AM	59.5
10:14:24 AM	64.1
10:14:34 AM	64.3
10:14:44 AM	59.8
10:14:54 AM	63.9
10:15:04 AM	68.2
10:15:14 AM	70.5
10:15:24 AM	66.3
10:15:34 AM	65.6
10:15:44 AM	67.3
10:15:54 AM	62.0
10:16:04 AM	57.3
10:16:14 AM	59.8

68.1

Time	Leq
10:01:51 PM	55.2
10:02:01 PM	53.6
10:02:11 PM	55.0
10:02:21 PM	53.6
10:02:31 PM	51.3
10:02:41 PM	56.5
10:02:51 PM	52.8
10:03:01 PM	53.7
10:03:11 PM	56.8
10:03:21 PM	57.5
10:03:31 PM	57.8
10:03:41 PM	55.0
10:03:51 PM	58.7
10:04:01 PM	54.0
10:04:11 PM	51.2
10:04:21 PM	54.0
10:04:31 PM	63.6
10:04:41 PM	61.2
10:04:51 PM	58.9
10:05:01 PM	53.4
10:05:11 PM	60.4
10:05:21 PM	57.1
10:05:31 PM	54.7
10:05:41 PM	51.3
10:05:51 PM	55.2
10:06:01 PM	52.8
10:06:11 PM	57.4
10:06:21 PM	58.3
10:06:31 PM	52.5
10:06:41 PM	53.5
10:06:51 PM	61.4
10:07:01 PM	53.4
10:07:11 PM	54.7
10:07:21 PM	55.9
10:07:31 PM	54.0
10:07:41 PM	54.3
10:07:51 PM	61.5
10:08:01 PM	53.2
10:08:11 PM	54.8
10:08:21 PM	56.5
10:08:31 PM	60.7
10:08:41 PM	62.1
10:08:51 PM	52.6
10:09:01 PM	59.1
10:09:11 PM	65.3
10:09:21 PM	62.9
10:09:31 PM	61.5

10:09:41 PM	57.5
10:09:51 PM	55.0
10:10:01 PM	55.7
10:10:11 PM	60.6
10:10:21 PM	55.2
10:10:31 PM	59.5
10:10:41 PM	57.8
10:10:51 PM	59.8
10:11:01 PM	54.7
10:11:11 PM	59.9
10:11:21 PM	61.7
10:11:31 PM	54.7
10:11:41 PM	52.6
10:11:51 PM	55.0
10:12:01 PM	57.3
10:12:11 PM	58.7
10:12:21 PM	62.3
10:12:31 PM	63.0
10:12:41 PM	56.0
10:12:51 PM	54.4
10:13:01 PM	57.4
10:13:11 PM	53.9
10:13:21 PM	59.7
10:13:31 PM	55.1
10:13:41 PM	54.0
10:13:51 PM	62.0
10:14:01 PM	59.6
10:14:11 PM	54.8
10:14:21 PM	53.2
10:14:31 PM	54.1
10:14:41 PM	61.6
10:14:51 PM	53.2
10:15:01 PM	55.3
10:15:11 PM	55.5
10:15:21 PM	59.5
10:15:31 PM	60.5
10:15:41 PM	61.5
10:15:51 PM	57.3
10:16:01 PM	73.5
10:16:11 PM	72.4
10:16:21 PM	63.1
10:16:31 PM	60.2
10:16:41 PM	57.4

60.4

Project: 130 W College Project
 Location: R3
 Date: 3/13/2024

Time	Leq
11:18:51 AM	53.0
11:19:01 AM	53.5
11:19:11 AM	60.9
11:19:21 AM	53.6
11:19:31 AM	51.5
11:19:41 AM	57.7
11:19:51 AM	58.7
11:20:01 AM	54.3
11:20:11 AM	61.5
11:20:21 AM	61.3
11:20:31 AM	56.0
11:20:41 AM	56.8
11:20:51 AM	57.2
11:21:01 AM	60.9
11:21:11 AM	67.7
11:21:21 AM	57.7
11:21:31 AM	57.0
11:21:41 AM	58.1
11:21:51 AM	53.8
11:22:01 AM	53.5
11:22:11 AM	56.5
11:22:21 AM	57.0
11:22:31 AM	57.5
11:22:41 AM	50.9
11:22:51 AM	53.7
11:23:01 AM	48.3
11:23:11 AM	55.4
11:23:21 AM	53.8
11:23:31 AM	56.5
11:23:41 AM	57.7
11:23:51 AM	63.6
11:24:01 AM	61.2
11:24:11 AM	68.4
11:24:21 AM	59.4
11:24:31 AM	52.5
11:24:41 AM	53.6
11:24:51 AM	59.6
11:25:01 AM	60.6
11:25:11 AM	58.1
11:25:21 AM	57.7
11:25:31 AM	61.5
11:25:41 AM	61.7
11:25:51 AM	54.8

11:26:01 AM	56.4
11:26:11 AM	55.3
11:26:21 AM	53.2
11:26:31 AM	51.3
11:26:41 AM	52.4
11:26:51 AM	63.6
11:27:01 AM	57.2
11:27:11 AM	56.8
11:27:21 AM	51.0
11:27:31 AM	53.7
11:27:41 AM	56.6
11:27:51 AM	55.7
11:28:01 AM	55.3
11:28:11 AM	53.9
11:28:21 AM	55.6
11:28:31 AM	58.8
11:28:41 AM	58.0
11:28:51 AM	60.5
11:29:01 AM	55.1
11:29:11 AM	62.6
11:29:21 AM	56.1
11:29:31 AM	51.6
11:29:41 AM	51.1
11:29:51 AM	57.3
11:30:01 AM	51.9
11:30:11 AM	50.6
11:30:21 AM	54.1
11:30:31 AM	55.0
11:30:41 AM	57.0
11:30:51 AM	62.3
11:31:01 AM	59.3
11:31:11 AM	58.8
11:31:21 AM	62.2
11:31:31 AM	58.6
11:31:41 AM	57.4
11:31:51 AM	54.8
11:32:01 AM	51.8
11:32:11 AM	48.8
11:32:21 AM	50.0
11:32:31 AM	50.3
11:32:41 AM	50.0
11:32:51 AM	49.7
11:33:01 AM	52.7
11:33:11 AM	54.1
11:33:21 AM	58.5
11:33:31 AM	61.3
11:33:41 AM	54.8
	58.5

Time	Leq
11:19:28 PM	51.4
11:19:38 PM	50.5
11:19:48 PM	54.1
11:19:58 PM	54.7
11:20:08 PM	56.8
11:20:18 PM	61.2
11:20:28 PM	57.0
11:20:38 PM	60.4
11:20:48 PM	56.5
11:20:58 PM	63.1
11:21:08 PM	61.0
11:21:18 PM	54.9
11:21:28 PM	51.7
11:21:38 PM	53.8
11:21:48 PM	56.7
11:21:58 PM	63.7
11:22:08 PM	68.4
11:22:18 PM	69.0
11:22:28 PM	61.0
11:22:38 PM	56.5
11:22:48 PM	54.7
11:22:58 PM	56.8
11:23:08 PM	52.7
11:23:18 PM	54.5
11:23:28 PM	55.2
11:23:38 PM	53.1
11:23:48 PM	52.1
11:23:58 PM	53.5
11:24:08 PM	53.5
11:24:18 PM	52.4
11:24:28 PM	52.4
11:24:38 PM	54.3
11:24:48 PM	54.5
11:24:58 PM	52.6
11:25:08 PM	52.8
11:25:18 PM	53.0
11:25:28 PM	53.1
11:25:38 PM	55.0
11:25:48 PM	55.6
11:25:58 PM	55.1
11:26:08 PM	66.4
11:26:18 PM	62.7
11:26:28 PM	56.7
11:26:38 PM	54.5
11:26:48 PM	54.1
11:26:58 PM	54.5

11:27:08 PM	53.1
11:27:18 PM	53.2
11:27:28 PM	53.5
11:27:38 PM	53.8
11:27:48 PM	52.5
11:27:58 PM	52.8
11:28:08 PM	55.5
11:28:18 PM	55.4
11:28:28 PM	54.4
11:28:38 PM	57.9
11:28:48 PM	54.1
11:28:58 PM	56.1
11:29:08 PM	53.8
11:29:18 PM	53.6
11:29:28 PM	52.7
11:29:38 PM	52.3
11:29:48 PM	54.3
11:29:58 PM	59.1
11:30:08 PM	58.3
11:30:18 PM	52.8
11:30:28 PM	53.5
11:30:38 PM	54.7
11:30:48 PM	53.8
11:30:58 PM	51.9
11:31:08 PM	53.2
11:31:18 PM	54.3
11:31:28 PM	52.1
11:31:38 PM	53.7
11:31:48 PM	52.0
11:31:58 PM	54.2
11:32:08 PM	67.2
11:32:18 PM	63.3
11:32:28 PM	63.0
11:32:38 PM	60.5
11:32:48 PM	58.5
11:32:58 PM	59.5
11:33:08 PM	59.7
11:33:18 PM	60.0
11:33:28 PM	58.9
11:33:38 PM	58.6
11:33:48 PM	53.0
11:33:58 PM	52.3
11:34:08 PM	54.3
11:34:18 PM	50.3

56.5

Project: 130 W College Project
 Location: R4
 Date: 3/13/2024

Time	Leq
10:41:27 AM	60.2
10:41:37 AM	63.2
10:41:47 AM	61.8
10:41:57 AM	60.6
10:42:07 AM	60.1
10:42:17 AM	64.8
10:42:27 AM	63.7
10:42:37 AM	61.7
10:42:47 AM	66.0
10:42:57 AM	74.6
10:43:07 AM	62.5
10:43:17 AM	62.2
10:43:27 AM	57.8
10:43:37 AM	63.8
10:43:47 AM	66.0
10:43:57 AM	61.2
10:44:07 AM	64.9
10:44:17 AM	67.1
10:44:27 AM	63.9
10:44:37 AM	67.0
10:44:47 AM	69.0
10:44:57 AM	62.6
10:45:07 AM	61.6
10:45:17 AM	62.2
10:45:27 AM	62.7
10:45:37 AM	61.5
10:45:47 AM	72.1
10:45:57 AM	75.7
10:46:07 AM	62.7
10:46:17 AM	63.3
10:46:27 AM	64.2
10:46:37 AM	75.1
10:46:47 AM	64.4
10:46:57 AM	62.6
10:47:07 AM	62.7
10:47:17 AM	61.8
10:47:27 AM	65.2
10:47:37 AM	62.7
10:47:47 AM	61.5
10:47:57 AM	70.6
10:48:07 AM	64.5
10:48:17 AM	64.5
10:48:27 AM	60.4

10:48:37 AM	61.6
10:48:47 AM	59.6
10:48:57 AM	60.8
10:49:07 AM	63.7
10:49:17 AM	61.2
10:49:27 AM	62.6
10:49:37 AM	64.1
10:49:47 AM	65.0
10:49:57 AM	60.1
10:50:07 AM	58.8
10:50:17 AM	64.2
10:50:27 AM	63.8
10:50:37 AM	64.6
10:50:47 AM	62.4
10:50:57 AM	60.5
10:51:07 AM	66.3
10:51:17 AM	67.9
10:51:27 AM	64.5
10:51:37 AM	61.8
10:51:47 AM	69.2
10:51:57 AM	63.0
10:52:07 AM	65.9
10:52:17 AM	64.7
10:52:27 AM	61.6
10:52:37 AM	64.1
10:52:47 AM	70.0
10:52:57 AM	64.9
10:53:07 AM	58.7
10:53:17 AM	60.4
10:53:27 AM	60.7
10:53:37 AM	61.3
10:53:47 AM	63.0
10:53:57 AM	65.2
10:54:07 AM	66.8
10:54:17 AM	73.5
10:54:27 AM	60.1
10:54:37 AM	65.6
10:54:47 AM	59.8
10:54:57 AM	62.2
10:55:07 AM	63.2
10:55:17 AM	73.1
10:55:27 AM	64.8
10:55:37 AM	64.2
10:55:47 AM	68.4
10:55:57 AM	67.9
10:56:07 AM	64.3
10:56:17 AM	62.5

66.3

Time	Leq
10:41:39 PM	57.3
10:41:49 PM	58.5
10:41:59 PM	49.4
10:42:09 PM	49.0
10:42:19 PM	60.7
10:42:29 PM	56.2
10:42:39 PM	60.4
10:42:49 PM	58.5
10:42:59 PM	57.0
10:43:09 PM	56.7
10:43:19 PM	56.2
10:43:29 PM	56.3
10:43:39 PM	67.2
10:43:49 PM	72.0
10:43:59 PM	60.2
10:44:09 PM	53.8
10:44:19 PM	56.0
10:44:29 PM	61.3
10:44:39 PM	61.2
10:44:49 PM	54.8
10:44:59 PM	51.9
10:45:09 PM	56.8
10:45:19 PM	52.5
10:45:29 PM	50.7
10:45:39 PM	53.9
10:45:49 PM	54.2
10:45:59 PM	48.9
10:46:09 PM	53.2
10:46:19 PM	62.3
10:46:29 PM	48.4
10:46:39 PM	54.0
10:46:49 PM	49.2
10:46:59 PM	47.7
10:47:09 PM	48.3
10:47:19 PM	57.9
10:47:29 PM	61.5
10:47:39 PM	58.0
10:47:49 PM	57.5
10:47:59 PM	56.0
10:48:09 PM	54.9
10:48:19 PM	50.4
10:48:29 PM	53.3
10:48:39 PM	52.9
10:48:49 PM	57.8
10:48:59 PM	65.2
10:49:09 PM	58.6

10:49:19 PM	58.3
10:49:29 PM	55.6
10:49:39 PM	64.7
10:49:49 PM	72.3
10:49:59 PM	61.7
10:50:09 PM	53.2
10:50:19 PM	50.4
10:50:29 PM	48.0
10:50:39 PM	48.4
10:50:49 PM	49.0
10:50:59 PM	59.7
10:51:09 PM	59.2
10:51:19 PM	48.0
10:51:29 PM	48.5
10:51:39 PM	51.7
10:51:49 PM	54.8
10:51:59 PM	51.0
10:52:09 PM	59.9
10:52:19 PM	51.3
10:52:29 PM	48.3
10:52:39 PM	55.7
10:52:49 PM	56.9
10:52:59 PM	49.6
10:53:09 PM	48.2
10:53:19 PM	50.0
10:53:29 PM	48.5
10:53:39 PM	55.9
10:53:49 PM	63.5
10:53:59 PM	61.0
10:54:09 PM	53.8
10:54:19 PM	59.6
10:54:29 PM	56.5
10:54:39 PM	48.5
10:54:49 PM	56.7
10:54:59 PM	64.8
10:55:09 PM	60.5
10:55:19 PM	66.5
10:55:29 PM	69.3
10:55:39 PM	59.9
10:55:49 PM	51.8
10:55:59 PM	49.3
10:56:09 PM	49.9
10:56:19 PM	51.5
10:56:29 PM	53.5

60.4

Project: 130 W College Project
 Location: R5
 Date: 3/13/2024

Time	Leq
10:20:36 AM	70.7
10:20:46 AM	66.6
10:20:56 AM	72.3
10:21:06 AM	77.0
10:21:16 AM	69.3
10:21:26 AM	67.0
10:21:36 AM	60.7
10:21:46 AM	61.4
10:21:56 AM	68.1
10:22:06 AM	69.0
10:22:16 AM	61.3
10:22:26 AM	60.6
10:22:36 AM	53.2
10:22:46 AM	59.1
10:22:56 AM	63.9
10:23:06 AM	58.6
10:23:16 AM	61.2
10:23:26 AM	70.6
10:23:36 AM	67.8
10:23:46 AM	61.6
10:23:56 AM	66.1
10:24:06 AM	67.0
10:24:16 AM	66.3
10:24:26 AM	63.6
10:24:36 AM	64.1
10:24:46 AM	65.7
10:24:56 AM	65.8
10:25:06 AM	68.8
10:25:16 AM	70.3
10:25:26 AM	68.1
10:25:36 AM	68.8
10:25:46 AM	62.5
10:25:56 AM	63.5
10:26:06 AM	64.8
10:26:16 AM	63.9
10:26:26 AM	63.9
10:26:36 AM	66.8
10:26:46 AM	72.6
10:26:56 AM	68.2
10:27:06 AM	70.6
10:27:16 AM	64.6
10:27:26 AM	61.5
10:27:36 AM	58.5

10:27:46 AM	65.7
10:27:56 AM	70.7
10:28:06 AM	66.8
10:28:16 AM	61.9
10:28:26 AM	59.4
10:28:36 AM	58.7
10:28:46 AM	61.5
10:28:56 AM	61.2
10:29:06 AM	62.2
10:29:16 AM	65.7
10:29:26 AM	64.2
10:29:36 AM	69.3
10:29:46 AM	71.4
10:29:56 AM	73.0
10:30:06 AM	69.4
10:30:16 AM	59.3
10:30:26 AM	61.2
10:30:36 AM	60.1
10:30:46 AM	62.6
10:30:56 AM	60.4
10:31:06 AM	68.2
10:31:16 AM	72.8
10:31:26 AM	67.8
10:31:36 AM	64.3
10:31:46 AM	64.2
10:31:56 AM	62.0
10:32:06 AM	63.6
10:32:16 AM	62.2
10:32:26 AM	68.8
10:32:36 AM	70.1
10:32:46 AM	63.5
10:32:56 AM	66.0
10:33:06 AM	63.2
10:33:16 AM	62.3
10:33:26 AM	60.1
10:33:36 AM	62.8
10:33:46 AM	63.4
10:33:56 AM	64.7
10:34:06 AM	66.7
10:34:16 AM	71.5
10:34:26 AM	70.7
10:34:36 AM	64.3
10:34:46 AM	60.9
10:34:56 AM	63.6
10:35:06 AM	59.1
10:35:16 AM	60.7
10:35:26 AM	67.2

67.2

Time	Leq
10:20:53 PM	48.7
10:21:03 PM	50.4
10:21:13 PM	59.4
10:21:23 PM	63.8
10:21:33 PM	54.7
10:21:43 PM	52.6
10:21:53 PM	62.6
10:22:03 PM	62.3
10:22:13 PM	55.0
10:22:23 PM	55.2
10:22:33 PM	55.9
10:22:43 PM	66.0
10:22:53 PM	57.9
10:23:03 PM	52.9
10:23:13 PM	57.7
10:23:23 PM	53.6
10:23:33 PM	48.7
10:23:43 PM	51.6
10:23:53 PM	64.5
10:24:03 PM	63.3
10:24:13 PM	55.3
10:24:23 PM	58.7
10:24:33 PM	58.0
10:24:43 PM	53.7
10:24:53 PM	59.8
10:25:03 PM	60.9
10:25:13 PM	68.7
10:25:23 PM	61.7
10:25:33 PM	68.0
10:25:43 PM	65.5
10:25:53 PM	56.1
10:26:03 PM	57.4
10:26:13 PM	61.8
10:26:23 PM	64.9
10:26:33 PM	64.1
10:26:43 PM	59.6
10:26:53 PM	56.2
10:27:03 PM	52.2
10:27:13 PM	66.1
10:27:23 PM	66.2
10:27:33 PM	67.6
10:27:43 PM	65.4
10:27:53 PM	55.2
10:28:03 PM	51.9
10:28:13 PM	58.5
10:28:23 PM	57.1

10:28:33 PM	67.0
10:28:43 PM	68.3
10:28:53 PM	60.7
10:29:03 PM	60.0
10:29:13 PM	59.0
10:29:23 PM	61.3
10:29:33 PM	60.5
10:29:43 PM	64.9
10:29:53 PM	68.6
10:30:03 PM	58.6
10:30:13 PM	54.9
10:30:23 PM	56.4
10:30:33 PM	54.5
10:30:43 PM	53.5
10:30:53 PM	65.5
10:31:03 PM	62.3
10:31:13 PM	56.8
10:31:23 PM	59.8
10:31:33 PM	54.2
10:31:43 PM	49.2
10:31:53 PM	54.3
10:32:03 PM	66.1
10:32:13 PM	64.5
10:32:23 PM	56.0
10:32:33 PM	52.5
10:32:43 PM	61.2
10:32:53 PM	52.2
10:33:03 PM	54.6
10:33:13 PM	61.5
10:33:23 PM	60.2
10:33:33 PM	53.3
10:33:43 PM	55.9
10:33:53 PM	65.8
10:34:03 PM	57.7
10:34:13 PM	55.2
10:34:23 PM	53.6
10:34:33 PM	57.7
10:34:43 PM	56.1
10:34:53 PM	61.3
10:35:03 PM	58.8
10:35:13 PM	65.8
10:35:23 PM	63.7
10:35:33 PM	64.4
10:35:43 PM	57.6

61.8

Project: 130 W College Project
 Location: R6
 Date: 3/13/2024

Time	Leq
10:59:39 AM	53.6
10:59:49 AM	59.1
10:59:59 AM	60.9
11:00:09 AM	59.2
11:00:19 AM	56.5
11:00:29 AM	57.8
11:00:39 AM	56.8
11:00:49 AM	57.5
11:00:59 AM	63.6
11:01:09 AM	63.9
11:01:19 AM	63.2
11:01:29 AM	57.0
11:01:39 AM	55.5
11:01:49 AM	49.0
11:01:59 AM	52.3
11:02:09 AM	50.4
11:02:19 AM	52.3
11:02:29 AM	54.8
11:02:39 AM	57.3
11:02:49 AM	60.4
11:02:59 AM	59.6
11:03:09 AM	56.4
11:03:19 AM	55.4
11:03:29 AM	51.1
11:03:39 AM	48.9
11:03:49 AM	49.3
11:03:59 AM	51.1
11:04:09 AM	55.3
11:04:19 AM	55.9
11:04:29 AM	59.1
11:04:39 AM	59.4
11:04:49 AM	59.2
11:04:59 AM	52.8
11:05:09 AM	53.0
11:05:19 AM	55.0
11:05:29 AM	59.4
11:05:39 AM	57.0
11:05:49 AM	55.3
11:05:59 AM	58.2
11:06:09 AM	65.3
11:06:19 AM	60.5
11:06:29 AM	60.3
11:06:39 AM	57.1

11:06:49 AM	58.3
11:06:59 AM	62.2
11:07:09 AM	64.4
11:07:19 AM	53.2
11:07:29 AM	50.6
11:07:39 AM	49.7
11:07:49 AM	58.3
11:07:59 AM	58.2
11:08:09 AM	51.5
11:08:19 AM	54.3
11:08:29 AM	59.7
11:08:39 AM	61.7
11:08:49 AM	66.0
11:08:59 AM	59.5
11:09:09 AM	58.5
11:09:19 AM	56.7
11:09:29 AM	67.5
11:09:39 AM	62.4
11:09:49 AM	69.5
11:09:59 AM	72.6
11:10:09 AM	58.9
11:10:19 AM	57.1
11:10:29 AM	51.5
11:10:39 AM	57.6
11:10:49 AM	54.9
11:10:59 AM	52.8
11:11:09 AM	56.5
11:11:19 AM	57.3
11:11:29 AM	61.2
11:11:39 AM	57.8
11:11:49 AM	57.1
11:11:59 AM	58.2
11:12:09 AM	55.9
11:12:19 AM	55.9
11:12:29 AM	52.9
11:12:39 AM	53.8
11:12:49 AM	56.3
11:12:59 AM	64.1
11:13:09 AM	59.6
11:13:19 AM	57.8
11:13:29 AM	62.3
11:13:39 AM	56.6
11:13:49 AM	59.9
11:13:59 AM	62.1
11:14:09 AM	60.3
11:14:19 AM	60.8
11:14:29 AM	61.2

60.5

Time	Leq
11:00:33 PM	52.5
11:00:43 PM	55.5
11:00:53 PM	57.4
11:01:03 PM	59.7
11:01:13 PM	52.7
11:01:23 PM	50.6
11:01:33 PM	55.0
11:01:43 PM	59.1
11:01:53 PM	58.0
11:02:03 PM	54.2
11:02:13 PM	51.6
11:02:23 PM	52.6
11:02:33 PM	53.4
11:02:43 PM	57.7
11:02:53 PM	72.5
11:03:03 PM	62.2
11:03:13 PM	54.9
11:03:23 PM	51.6
11:03:33 PM	49.5
11:03:43 PM	49.0
11:03:53 PM	49.1
11:04:03 PM	53.6
11:04:13 PM	62.5
11:04:23 PM	57.1
11:04:33 PM	52.3
11:04:43 PM	50.0
11:04:53 PM	49.3
11:05:03 PM	48.8
11:05:13 PM	49.8
11:05:23 PM	49.9
11:05:33 PM	57.6
11:05:43 PM	59.6
11:05:53 PM	53.1
11:06:03 PM	50.1
11:06:13 PM	50.5
11:06:23 PM	57.5
11:06:33 PM	51.6
11:06:43 PM	48.9
11:06:53 PM	51.3
11:07:03 PM	53.2
11:07:13 PM	48.6
11:07:23 PM	52.7
11:07:33 PM	57.2
11:07:43 PM	54.8
11:07:53 PM	59.2
11:08:03 PM	57.6

11:08:13 PM	56.7
11:08:23 PM	51.5
11:08:33 PM	49.8
11:08:43 PM	58.2
11:08:53 PM	59.0
11:09:03 PM	53.3
11:09:13 PM	50.6
11:09:23 PM	49.9
11:09:33 PM	59.2
11:09:43 PM	54.3
11:09:53 PM	57.3
11:10:03 PM	56.9
11:10:13 PM	52.5
11:10:23 PM	52.2
11:10:33 PM	50.1
11:10:43 PM	48.7
11:10:53 PM	49.7
11:11:03 PM	49.9
11:11:13 PM	53.7
11:11:23 PM	56.3
11:11:33 PM	57.2
11:11:43 PM	58.6
11:11:53 PM	55.8
11:12:03 PM	57.8
11:12:13 PM	54.4
11:12:23 PM	50.9
11:12:33 PM	51.4
11:12:43 PM	51.8
11:12:53 PM	57.6
11:13:03 PM	61.8
11:13:13 PM	57.9
11:13:23 PM	52.2
11:13:33 PM	51.0
11:13:43 PM	50.5
11:13:53 PM	50.2
11:14:03 PM	49.0
11:14:13 PM	50.8
11:14:23 PM	54.6
11:14:33 PM	58.1
11:14:43 PM	49.0
11:14:53 PM	49.9
11:15:03 PM	55.8
11:15:13 PM	51.4
11:15:23 PM	50.2

57.3

Construction Noise & Vibration Calculations

Project: 130 W College

On-Site Constructin Noise Analysis

WITHOUT MITIGATION MEASURES

Estimated Construction Noise Levels, dBA Leq
(from SoundPLAN Model)

Receptor	Site Prep/ Demolition (A)	Grading (B)	Foundation (C)	Basement (D)	Building Construction (E)	Architectura l Façade (F)	Interior (G)	Paving/ Landscaping (H)	Off-Site Fire Hydrant (I)
R1	63.9	61.0	61.4	61.6	62.8	55.8	59.6	62.2	62.7
R2	65.6	62.6	63.0	63.3	64.4	57.4	61.2	63.8	58.1
R3	75.0	72.2	72.4	72.5	73.6	66.7	70.6	73.2	61.2
R4	64.2	61.2	61.6	61.9	63.1	56.0	59.8	62.5	54.5
R5	65.5	62.6	62.9	63.2	64.4	57.3	61.1	63.8	58.5
R6	59.8	56.8	57.3	57.5	58.7	51.7	55.4	58.1	51.7

Overlapping Construction

Receptor	Building Construction + Architectural Façade (E + F)	Architectura l Façade + Interior (F + G)	Interior + Paving/ Landscapin g (G + H)
R1	63.6	61.1	64.1
R2	65.2	62.7	65.7
R3	74.4	72.1	75.1
R4	63.9	61.3	64.4
R5	65.2	62.6	65.7
R6	59.5	56.9	60.0

WITH MITIGATION MEASURES

Estimated Construction Noise Levels, dBA Leq
(from SoundPLAN Model)

Receptor	Mitigation Measures	Site Prep/ Demolition (A)	Grading (B)	Foundation (C)	Basement (D)	Building Construction (E)	Architectura l Façade (F)	Interior (G)	Paving/ Landscaping (H)	Off-Site Fire Hydrant (I)
R1	0	63.9	61.0	61.4	61.6	62.8	55.8	59.6	62.2	62.7
R2	0	65.6	62.6	63.0	63.3	64.4	57.4	61.2	63.8	58.1
R3	-12	63.0	60.2	60.4	60.5	61.6	54.7	58.6	61.2	61.2
R4	0	64.2	61.2	61.6	61.9	63.1	56.0	59.8	62.5	54.5
R5	0	65.5	62.6	62.9	63.2	64.4	57.3	61.1	63.8	58.5
R6	0	59.8	56.8	57.3	57.5	58.7	51.7	55.4	58.1	51.7

Overlapping Construction

Receptor	Mitigation Measures	Building Construction + Architectural Façade (E + F)	Architectura l Façade + Interior (F + G)	Interior + Paving/ Landscapin g (G + H)
R1	0	63.6	61.1	64.1
R2	0	65.2	62.7	65.7
R3	-12	62.4	60.1	63.1
R4	0	63.9	61.3	64.4
R5	0	65.2	62.6	65.7
R6	0	59.5	56.9	60.0

Project: 130 W College

Construction Equipment Noise Levels

Description	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Sound Pressure Levels (SPL),	Sound Power Levels (Lw),
			Leq	Leq
Air Compressor	78	40%	74.0	105.7
Aerial Lift	75	20%	68.0	99.7
Bore Drill Rig	84	20%	77.0	108.7
Cement and Mortar Mixers	80	50%	77.0	108.6
Concrete/Industrial Saw	90	20%	83.0	114.7
Crane	81	16%	73.0	104.7
Crushing/Proc. Equipment	85	50%	82.0	113.6
Excavator	81	40%	77.0	108.7
Forklifts	75	20%	68.0	99.7
Generator Sets	81	50%	78.0	109.6
Grader	85	40%	81.0	112.7
Paver	77	50%	74.0	105.6
Paving Equipment	77	50%	74.0	105.6
Pump	81	50%	78.0	109.6
Plate Compactor	83	20%	76.0	107.7
Roller	80	20%	73.0	104.7
Rubber Tired Dozer	82	40%	78.0	109.7
Rubber Tired Loader	79	40%	75.0	106.7
Scraper	84	40%	80.0	111.7
Signal Boards	73	50%	70.0	101.6
Skid Steer Loader	79	40%	75.0	106.7
Tractors/Loaders/Backhoes	84	40%	80.0	111.7
Trencher	80	50%	77.0	108.6
Water Truck	82	10%	72.0	103.7
Welders	74	40%	70.0	101.7

Source for Ref. Noise Levels: FHWA RCNM, 2006

130 West College **Source Levels in dB(A) - 01a Site Prep/Demo**

Name	Source type	Lw dB(A)	
Air Compressor 1	Area	105.7	
Concrete Saw 1	Area	114.7	
Crushing/Proc Equipment 1	Area	113.6	
Excavator 1	Area	108.7	
Generator Set 1	Area	109.6	
Rubber Tired Dozer	Area	109.7	
Rubber Tired Loader 1	Area	106.7	
Skid Steer Loader	Area	106.7	
Tractor/Loader/Backhoe 1	Area	111.7	
Tractor/Loader/Backhoe 2	Area	111.7	
Trencher 1	Area	108.6	
Water Truck 1	Area	103.7	

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Calculated Noise Levels - 01a Site Prep/Demo

Source	Source type	Leq,d dB(A)	
Receiver R1 Leq,d 63.9 dB(A)			
Air Compressor 1	Area	48.4	
Concrete Saw 1	Area	57.4	
Crushing/Proc Equipment 1	Area	56.4	
Excavator 1	Area	51.5	
Generator Set 1	Area	52.3	
Rubber Tired Dozer	Area	52.5	
Rubber Tired Loader 1	Area	49.5	
Skid Steer Loader	Area	49.5	
Tractor/Loader/Backhoe 1	Area	54.5	
Tractor/Loader/Backhoe 2	Area	54.5	
Trencher 1	Area	51.4	
Water Truck 1	Area	46.5	
Receiver R2 Leq,d 65.6 dB(A)			
Air Compressor 1	Area	50.0	
Concrete Saw 1	Area	59.0	
Crushing/Proc Equipment 1	Area	58.0	
Excavator 1	Area	53.1	
Generator Set 1	Area	53.9	
Rubber Tired Dozer	Area	54.1	
Rubber Tired Loader 1	Area	51.1	
Skid Steer Loader	Area	51.1	
Tractor/Loader/Backhoe 1	Area	56.1	
Tractor/Loader/Backhoe 2	Area	56.1	
Trencher 1	Area	53.0	
Water Truck 1	Area	48.1	
Receiver R3 Leq,d 75.0 dB(A)			
Air Compressor 1	Area	59.1	
Concrete Saw 1	Area	68.1	
Crushing/Proc Equipment 1	Area	67.7	
Excavator 1	Area	62.8	
Generator Set 1	Area	63.0	
Rubber Tired Dozer	Area	63.8	
Rubber Tired Loader 1	Area	60.8	
Skid Steer Loader	Area	60.8	
Tractor/Loader/Backhoe 1	Area	65.8	
Tractor/Loader/Backhoe 2	Area	65.8	
Trencher 1	Area	62.7	
Water Truck 1	Area	57.8	
Receiver R4 Leq,d 64.2 dB(A)			
Air Compressor 1	Area	48.7	
Concrete Saw 1	Area	57.7	
Crushing/Proc Equipment 1	Area	56.7	

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Calculated Noise Levels - 01a Site Prep/Demo

Source	Source type	Leq,d dB(A)	
Excavator 1	Area	51.8	
Generator Set 1	Area	52.6	
Rubber Tired Dozer	Area	52.8	
Rubber Tired Loader 1	Area	49.8	
Skid Steer Loader	Area	49.8	
Tractor/Loader/Backhoe 1	Area	54.8	
Tractor/Loader/Backhoe 2	Area	54.8	
Trencher 1	Area	51.7	
Water Truck 1	Area	46.8	
Receiver R5 Leq,d 65.5 dB(A)			
Air Compressor 1	Area	50.0	
Concrete Saw 1	Area	59.0	
Crushing/Proc Equipment 1	Area	58.0	
Excavator 1	Area	53.1	
Generator Set 1	Area	53.9	
Rubber Tired Dozer	Area	54.1	
Rubber Tired Loader 1	Area	51.1	
Skid Steer Loader	Area	51.1	
Tractor/Loader/Backhoe 1	Area	56.1	
Tractor/Loader/Backhoe 2	Area	56.1	
Trencher 1	Area	53.0	
Water Truck 1	Area	48.1	
Receiver R6 Leq,d 59.8 dB(A)			
Air Compressor 1	Area	44.3	
Concrete Saw 1	Area	53.3	
Crushing/Proc Equipment 1	Area	52.3	
Excavator 1	Area	47.4	
Generator Set 1	Area	48.2	
Rubber Tired Dozer	Area	48.4	
Rubber Tired Loader 1	Area	45.4	
Skid Steer Loader	Area	45.4	
Tractor/Loader/Backhoe 1	Area	50.4	
Tractor/Loader/Backhoe 2	Area	50.4	
Trencher 1	Area	47.3	
Water Truck 1	Area	42.4	

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130 West College **Source Levels in dB(A) - 01b Grading**

Name	Source type	Lw dB(A)	
Bore Drill Rig 1	Area	108.7	
Bore Drill Rig 2	Area	108.7	
Crane 1	Area	104.7	
Excavator 1	Area	108.7	
Excavator 2	Area	108.7	
Forklift 1	Area	99.7	
Rubber Tired Loader 1	Area	106.7	
Tractor/Loader/Backhoe 1	Area	111.7	
Trencher 1	Area	108.6	
Water Truck 1	Area	103.7	
Welder 1	Area	101.7	
Welder 2	Area	101.7	

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130 West College Calculated Noise Levels - 01b Grading

Source	Source type	Leq,d dB(A)	
Receiver R1 Leq,d 61.0 dB(A)			
Bore Drill Rig 1	Area	51.5	
Bore Drill Rig 2	Area	51.5	
Crane 1	Area	47.5	
Excavator 1	Area	51.5	
Excavator 2	Area	51.5	
Forklift 1	Area	42.5	
Rubber Tired Loader 1	Area	49.5	
Tractor/Loader/Backhoe 1	Area	54.5	
Trencher 1	Area	51.4	
Water Truck 1	Area	46.5	
Welder 1	Area	44.4	
Welder 2	Area	44.4	
Receiver R2 Leq,d 62.6 dB(A)			
Bore Drill Rig 1	Area	53.1	
Bore Drill Rig 2	Area	53.1	
Crane 1	Area	49.1	
Excavator 1	Area	53.1	
Excavator 2	Area	53.1	
Forklift 1	Area	44.1	
Rubber Tired Loader 1	Area	51.1	
Tractor/Loader/Backhoe 1	Area	56.1	
Trencher 1	Area	53.0	
Water Truck 1	Area	48.1	
Welder 1	Area	46.0	
Welder 2	Area	46.0	
Receiver R3 Leq,d 72.2 dB(A)			
Bore Drill Rig 1	Area	62.8	
Bore Drill Rig 2	Area	62.8	
Crane 1	Area	58.8	
Excavator 1	Area	62.8	
Excavator 2	Area	62.8	
Forklift 1	Area	53.8	
Rubber Tired Loader 1	Area	60.8	
Tractor/Loader/Backhoe 1	Area	65.8	
Trencher 1	Area	62.7	
Water Truck 1	Area	57.8	
Welder 1	Area	55.1	
Welder 2	Area	55.1	
Receiver R4 Leq,d 61.2 dB(A)			
Bore Drill Rig 1	Area	51.8	
Bore Drill Rig 2	Area	51.8	
Crane 1	Area	47.8	

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Calculated Noise Levels - 01b Grading

Source	Source type	Leq,d dB(A)	
Excavator 1	Area	51.8	
Excavator 2	Area	51.8	
Forklift 1	Area	42.8	
Rubber Tired Loader 1	Area	49.8	
Tractor/Loader/Backhoe 1	Area	54.8	
Trencher 1	Area	51.7	
Water Truck 1	Area	46.8	
Welder 1	Area	44.7	
Welder 2	Area	44.7	
Receiver R5 Leq,d 62.6 dB(A)			
Bore Drill Rig 1	Area	53.1	
Bore Drill Rig 2	Area	53.1	
Crane 1	Area	49.1	
Excavator 1	Area	53.1	
Excavator 2	Area	53.1	
Forklift 1	Area	44.1	
Rubber Tired Loader 1	Area	51.1	
Tractor/Loader/Backhoe 1	Area	56.1	
Trencher 1	Area	53.0	
Water Truck 1	Area	48.1	
Welder 1	Area	46.0	
Welder 2	Area	46.0	
Receiver R6 Leq,d 56.8 dB(A)			
Bore Drill Rig 1	Area	47.4	
Bore Drill Rig 2	Area	47.4	
Crane 1	Area	43.4	
Excavator 1	Area	47.4	
Excavator 2	Area	47.4	
Forklift 1	Area	38.4	
Rubber Tired Loader 1	Area	45.4	
Tractor/Loader/Backhoe 1	Area	50.4	
Trencher 1	Area	47.3	
Water Truck 1	Area	42.4	
Welder 1	Area	40.3	
Welder 2	Area	40.3	

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Source Levels in dB(A) - 01c Foundation

Name	Source type	Lw dB(A)	
Bore Drill Rig 1	Area	108.7	
Crane 1	Area	104.7	
Generator Set 1	Area	109.6	
Pump 1	Area	109.6	
Pump 2	Area	109.6	
Pump 3	Area	109.6	
Tractor/Loader/Backhoe 1	Area	111.7	
Trencher 1	Area	108.6	
Water Truck 1	Area	103.7	
Welder 1	Area	101.7	

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130 West College Calculated Noise Levels - 01c Foundation

Source	Source type	Leq,d dB(A)	
Receiver R1 Leq,d 61.4 dB(A)			
Bore Drill Rig 1	Area	51.5	
Crane 1	Area	47.5	
Generator Set 1	Area	52.3	
Pump 1	Area	52.3	
Pump 2	Area	52.3	
Pump 3	Area	52.3	
Tractor/Loader/Backhoe 1	Area	54.5	
Trencher 1	Area	51.4	
Water Truck 1	Area	46.5	
Welder 1	Area	44.4	
Receiver R2 Leq,d 63.0 dB(A)			
Bore Drill Rig 1	Area	53.1	
Crane 1	Area	49.1	
Generator Set 1	Area	53.9	
Pump 1	Area	53.9	
Pump 2	Area	53.9	
Pump 3	Area	53.9	
Tractor/Loader/Backhoe 1	Area	56.1	
Trencher 1	Area	53.0	
Water Truck 1	Area	48.1	
Welder 1	Area	46.0	
Receiver R3 Leq,d 72.4 dB(A)			
Bore Drill Rig 1	Area	62.8	
Crane 1	Area	58.8	
Generator Set 1	Area	63.0	
Pump 1	Area	63.0	
Pump 2	Area	63.0	
Pump 3	Area	63.0	
Tractor/Loader/Backhoe 1	Area	65.8	
Trencher 1	Area	62.7	
Water Truck 1	Area	57.8	
Welder 1	Area	55.1	
Receiver R4 Leq,d 61.6 dB(A)			
Bore Drill Rig 1	Area	51.8	
Crane 1	Area	47.8	
Generator Set 1	Area	52.6	
Pump 1	Area	52.6	
Pump 2	Area	52.6	
Pump 3	Area	52.6	
Tractor/Loader/Backhoe 1	Area	54.8	
Trencher 1	Area	51.7	
Water Truck 1	Area	46.8	

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130 West College

Calculated Noise Levels - 01c Foundation

Source	Source type	Leq,d dB(A)	
Welder 1	Area	44.7	
Receiver R5 Leq,d 62.9 dB(A)			
Bore Drill Rig 1	Area	53.1	
Crane 1	Area	49.1	
Generator Set 1	Area	53.9	
Pump 1	Area	53.9	
Pump 2	Area	53.9	
Pump 3	Area	53.9	
Tractor/Loader/Backhoe 1	Area	56.1	
Trencher 1	Area	53.0	
Water Truck 1	Area	48.1	
Welder 1	Area	46.0	
Receiver R6 Leq,d 57.3 dB(A)			
Bore Drill Rig 1	Area	47.4	
Crane 1	Area	43.4	
Generator Set 1	Area	48.2	
Pump 1	Area	48.2	
Pump 2	Area	48.2	
Pump 3	Area	48.2	
Tractor/Loader/Backhoe 1	Area	50.4	
Trencher 1	Area	47.3	
Water Truck 1	Area	42.4	
Welder 1	Area	40.3	

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130 West College
Source Levels in dB(A) - 01d Basement

Name	Source type	Lw dB(A)	
Concrete Saw 1	Area	114.7	
Crane 1	Area	104.7	
Forklift 1	Area	99.7	
Forklift 2	Area	99.7	
Generator Set 1	Area	109.6	
Pump 1	Area	109.6	
Pump 2	Area	109.6	
Tractor/Loader/Backhoe 1	Area	111.7	
Welder 1	Area	101.7	

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130 West College

Calculated Noise Levels - 01d Basement

Source	Source type	Leq,d dB(A)	
Receiver R1 Leq,d 61.6 dB(A)			
Concrete Saw 1	Area	57.4	
Crane 1	Area	47.5	
Forklift 1	Area	42.5	
Forklift 2	Area	42.5	
Generator Set 1	Area	52.3	
Pump 1	Area	52.3	
Pump 2	Area	52.3	
Tractor/Loader/Backhoe 1	Area	54.5	
Welder 1	Area	44.4	
Receiver R2 Leq,d 63.3 dB(A)			
Concrete Saw 1	Area	59.0	
Crane 1	Area	49.1	
Forklift 1	Area	44.1	
Forklift 2	Area	44.1	
Generator Set 1	Area	53.9	
Pump 1	Area	53.9	
Pump 2	Area	53.9	
Tractor/Loader/Backhoe 1	Area	56.1	
Welder 1	Area	46.0	
Receiver R3 Leq,d 72.5 dB(A)			
Concrete Saw 1	Area	68.1	
Crane 1	Area	58.8	
Forklift 1	Area	53.8	
Forklift 2	Area	53.8	
Generator Set 1	Area	63.0	
Pump 1	Area	63.0	
Pump 2	Area	63.0	
Tractor/Loader/Backhoe 1	Area	65.8	
Welder 1	Area	55.1	
Receiver R4 Leq,d 61.9 dB(A)			
Concrete Saw 1	Area	57.7	
Crane 1	Area	47.8	
Forklift 1	Area	42.8	
Forklift 2	Area	42.8	
Generator Set 1	Area	52.6	
Pump 1	Area	52.6	
Pump 2	Area	52.6	
Tractor/Loader/Backhoe 1	Area	54.8	
Welder 1	Area	44.7	
Receiver R5 Leq,d 63.2 dB(A)			
Concrete Saw 1	Area	59.0	

AES 22801 Crespi St Woodland Hills, CA 91364 USA

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130 West College

Calculated Noise Levels - 01d Basement

Source	Source type	Leq,d dB(A)	
Crane 1	Area	49.1	
Forklift 1	Area	44.1	
Forklift 2	Area	44.1	
Generator Set 1	Area	53.9	
Pump 1	Area	53.9	
Pump 2	Area	53.9	
Tractor/Loader/Backhoe 1	Area	56.1	
Welder 1	Area	46.0	
Receiver R6 Leq,d 57.5 dB(A)			
Concrete Saw 1	Area	53.3	
Crane 1	Area	43.4	
Forklift 1	Area	38.4	
Forklift 2	Area	38.4	
Generator Set 1	Area	48.2	
Pump 1	Area	48.2	
Pump 2	Area	48.2	
Tractor/Loader/Backhoe 1	Area	50.4	
Welder 1	Area	40.3	

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130 West College

Source Levels in dB(A) - 01e Building Construction

Name	Source type	Lw dB(A)	
Aerial Lift 1	Area	99.7	
Aerial Lift 2	Area	99.7	
Air Compressor 1	Area	105.7	
Concrete Saw 1	Area	114.7	
Concrete Saw 2	Area	114.7	
Crane 1	Area	104.7	
Forklift 1	Area	99.7	
Forklift 2	Area	99.7	
Generator Set 1	Area	109.6	
Pump 1	Area	109.6	
Pump 2	Area	109.6	
Skid Steer Loader	Area	106.7	
Welder 1	Area	101.7	

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130 West College Calculated Noise Levels - 01e Building Construction

Source	Source type	Leq,d dB(A)	
Receiver R1 Leq,d 62.8 dB(A)			
Aerial Lift 1	Area	42.5	
Aerial Lift 2	Area	42.5	
Air Compressor 1	Area	48.4	
Concrete Saw 1	Area	57.4	
Concrete Saw 2	Area	57.4	
Crane 1	Area	47.5	
Forklift 1	Area	42.5	
Forklift 2	Area	42.5	
Generator Set 1	Area	52.3	
Pump 1	Area	52.3	
Pump 2	Area	52.3	
Skid Steer Loader	Area	49.5	
Welder 1	Area	44.4	
Receiver R2 Leq,d 64.4 dB(A)			
Aerial Lift 1	Area	44.1	
Aerial Lift 2	Area	44.1	
Air Compressor 1	Area	50.0	
Concrete Saw 1	Area	59.0	
Concrete Saw 2	Area	59.0	
Crane 1	Area	49.1	
Forklift 1	Area	44.1	
Forklift 2	Area	44.1	
Generator Set 1	Area	53.9	
Pump 1	Area	53.9	
Pump 2	Area	53.9	
Skid Steer Loader	Area	51.1	
Welder 1	Area	46.0	
Receiver R3 Leq,d 73.6 dB(A)			
Aerial Lift 1	Area	53.8	
Aerial Lift 2	Area	53.8	
Air Compressor 1	Area	59.1	
Concrete Saw 1	Area	68.1	
Concrete Saw 2	Area	68.1	
Crane 1	Area	58.8	
Forklift 1	Area	53.8	
Forklift 2	Area	53.8	
Generator Set 1	Area	63.0	
Pump 1	Area	63.0	
Pump 2	Area	63.0	
Skid Steer Loader	Area	60.8	
Welder 1	Area	55.1	
Receiver R4 Leq,d 63.1 dB(A)			

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130 West College Calculated Noise Levels - 01e Building Construction

Source	Source type	Leq,d dB(A)	
Aerial Lift 1	Area	42.8	
Aerial Lift 2	Area	42.8	
Air Compressor 1	Area	48.7	
Concrete Saw 1	Area	57.7	
Concrete Saw 2	Area	57.7	
Crane 1	Area	47.8	
Forklift 1	Area	42.8	
Forklift 2	Area	42.8	
Generator Set 1	Area	52.6	
Pump 1	Area	52.6	
Pump 2	Area	52.6	
Skid Steer Loader	Area	49.8	
Welder 1	Area	44.7	
Receiver R5 Leq,d 64.4 dB(A)			
Aerial Lift 1	Area	44.1	
Aerial Lift 2	Area	44.1	
Air Compressor 1	Area	50.0	
Concrete Saw 1	Area	59.0	
Concrete Saw 2	Area	59.0	
Crane 1	Area	49.1	
Forklift 1	Area	44.1	
Forklift 2	Area	44.1	
Generator Set 1	Area	53.9	
Pump 1	Area	53.9	
Pump 2	Area	53.9	
Skid Steer Loader	Area	51.1	
Welder 1	Area	46.0	
Receiver R6 Leq,d 58.7 dB(A)			
Aerial Lift 1	Area	38.4	
Aerial Lift 2	Area	38.4	
Air Compressor 1	Area	44.3	
Concrete Saw 1	Area	53.3	
Concrete Saw 2	Area	53.3	
Crane 1	Area	43.4	
Forklift 1	Area	38.4	
Forklift 2	Area	38.4	
Generator Set 1	Area	48.2	
Pump 1	Area	48.2	
Pump 2	Area	48.2	
Skid Steer Loader	Area	45.4	
Welder 1	Area	40.3	

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130 West College
Source Levels in dB(A) - 01f Architectural Facade

Name	Source type	Lw dB(A)	
Aerial Lift 1	Area	99.7	
Air Compressor 1	Area	105.7	
Crane 1	Area	104.7	
Forklift 1	Area	99.7	
Forklift 2	Area	99.7	
Generator Set 1	Area	109.6	
Welder 1	Area	101.7	

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130 West College

Calculated Noise Levels - 01f Architectural Facade

Source	Source type	Leq,d dB(A)	
Receiver R1 Leq,d 55.8 dB(A)			
Aerial Lift 1	Area	42.5	
Air Compressor 1	Area	48.4	
Crane 1	Area	47.5	
Forklift 1	Area	42.5	
Forklift 2	Area	42.5	
Generator Set 1	Area	52.3	
Welder 1	Area	44.4	
Receiver R2 Leq,d 57.4 dB(A)			
Aerial Lift 1	Area	44.1	
Air Compressor 1	Area	50.0	
Crane 1	Area	49.1	
Forklift 1	Area	44.1	
Forklift 2	Area	44.1	
Generator Set 1	Area	53.9	
Welder 1	Area	46.0	
Receiver R3 Leq,d 66.7 dB(A)			
Aerial Lift 1	Area	53.8	
Air Compressor 1	Area	59.1	
Crane 1	Area	58.8	
Forklift 1	Area	53.8	
Forklift 2	Area	53.8	
Generator Set 1	Area	63.0	
Welder 1	Area	55.1	
Receiver R4 Leq,d 56.0 dB(A)			
Aerial Lift 1	Area	42.8	
Air Compressor 1	Area	48.7	
Crane 1	Area	47.8	
Forklift 1	Area	42.8	
Forklift 2	Area	42.8	
Generator Set 1	Area	52.6	
Welder 1	Area	44.7	
Receiver R5 Leq,d 57.3 dB(A)			
Aerial Lift 1	Area	44.1	
Air Compressor 1	Area	50.0	
Crane 1	Area	49.1	
Forklift 1	Area	44.1	
Forklift 2	Area	44.1	
Generator Set 1	Area	53.9	
Welder 1	Area	46.0	
Receiver R6 Leq,d 51.7 dB(A)			
Aerial Lift 1	Area	38.4	

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130 West College Calculated Noise Levels - 01f Architectural Facade

Source	Source type	Leq,d dB(A)	
Air Compressor 1	Area	44.3	
Crane 1	Area	43.4	
Forklift 1	Area	38.4	
Forklift 2	Area	38.4	
Generator Set 1	Area	48.2	
Welder 1	Area	40.3	

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130 West College Source Levels in dB(A) - 01g Interior

This image shows a completely blank white rectangular area enclosed within a thin black border. There are no markings, text, or illustrations present on the page.

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130 West College **Calculated Noise Levels - 01g Interior**

Source	Source type	Leq,d dB(A)	
Receiver R1 Leq,d 59.6 dB(A)			
Air Compressor 1	Area	48.4	
Cement and Mortar Mixer 1	Area	51.3	
Forklift 1	Area	42.5	
Forklift 2	Area	42.5	
Generator Set 1	Area	52.3	
Paving Equipment	Area	48.4	
Plate Compactor 1	Area	50.5	
Tractor/Loader/Backhoe 1	Area	54.5	
Welder 1	Area	44.4	
Receiver R2 Leq,d 61.2 dB(A)			
Air Compressor 1	Area	50.0	
Cement and Mortar Mixer 1	Area	52.9	
Forklift 1	Area	44.1	
Forklift 2	Area	44.1	
Generator Set 1	Area	53.9	
Paving Equipment	Area	50.0	
Plate Compactor 1	Area	52.1	
Tractor/Loader/Backhoe 1	Area	56.1	
Welder 1	Area	46.0	
Receiver R3 Leq,d 70.6 dB(A)			
Air Compressor 1	Area	59.1	
Cement and Mortar Mixer 1	Area	62.0	
Forklift 1	Area	53.8	
Forklift 2	Area	53.8	
Generator Set 1	Area	63.0	
Paving Equipment	Area	59.7	
Plate Compactor 1	Area	61.8	
Tractor/Loader/Backhoe 1	Area	65.8	
Welder 1	Area	55.1	
Receiver R4 Leq,d 59.8 dB(A)			
Air Compressor 1	Area	48.7	
Cement and Mortar Mixer 1	Area	51.6	
Forklift 1	Area	42.8	
Forklift 2	Area	42.8	
Generator Set 1	Area	52.6	
Paving Equipment	Area	48.7	
Plate Compactor 1	Area	50.8	
Tractor/Loader/Backhoe 1	Area	54.8	
Welder 1	Area	44.7	
Receiver R5 Leq,d 61.1 dB(A)			
Air Compressor 1	Area	50.0	

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130 West College

Calculated Noise Levels - 01g Interior

Source	Source type	Leq,d dB(A)	
Cement and Mortar Mixer 1	Area	52.9	
Forklift 1	Area	44.1	
Forklift 2	Area	44.1	
Generator Set 1	Area	53.9	
Paving Equipment	Area	50.0	
Plate Compactor 1	Area	52.1	
Tractor/Loader/Backhoe 1	Area	56.1	
Welder 1	Area	46.0	
Receiver R6 Leq,d 55.4 dB(A)			
Air Compressor 1	Area	44.3	
Cement and Mortar Mixer 1	Area	47.2	
Forklift 1	Area	38.4	
Forklift 2	Area	38.4	
Generator Set 1	Area	48.2	
Paving Equipment	Area	44.3	
Plate Compactor 1	Area	46.4	
Tractor/Loader/Backhoe 1	Area	50.4	
Welder 1	Area	40.3	

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130 West College

Source Levels in dB(A) - 01h Paving/Landscapeing

Name	Source type	Lw dB(A)	
Cement and Mortar Mixer 1	Area	108.6	
Concrete Saw 1	Area	114.7	
Generator Set 1	Area	109.6	
Paver 1	Area	105.6	
Paving Equipment	Area	105.6	
Plate Compactor 1	Area	107.7	
Skid Steer Loader	Area	106.7	
Tractor/Loader/Backhoe 1	Area	111.7	
Trencher 1	Area	108.6	
Water Truck 1	Area	103.7	

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130 West College

Calculated Noise Levels - 01h Paving/Landscaping

Source	Source type	Leq,d dB(A)	
Receiver R1 Leq,d 62.2 dB(A)			
Cement and Mortar Mixer 1	Area	51.3	
Concrete Saw 1	Area	57.4	
Generator Set 1	Area	52.3	
Paver 1	Area	48.4	
Paving Equipment	Area	48.4	
Plate Compactor 1	Area	50.5	
Skid Steer Loader	Area	49.5	
Tractor/Loader/Backhoe 1	Area	54.5	
Trencher 1	Area	51.4	
Water Truck 1	Area	46.5	
Receiver R2 Leq,d 63.8 dB(A)			
Cement and Mortar Mixer 1	Area	52.9	
Concrete Saw 1	Area	59.0	
Generator Set 1	Area	53.9	
Paver 1	Area	50.0	
Paving Equipment	Area	50.0	
Plate Compactor 1	Area	52.1	
Skid Steer Loader	Area	51.1	
Tractor/Loader/Backhoe 1	Area	56.1	
Trencher 1	Area	53.0	
Water Truck 1	Area	48.1	
Receiver R3 Leq,d 73.2 dB(A)			
Cement and Mortar Mixer 1	Area	62.0	
Concrete Saw 1	Area	68.1	
Generator Set 1	Area	63.0	
Paver 1	Area	59.7	
Paving Equipment	Area	59.7	
Plate Compactor 1	Area	61.8	
Skid Steer Loader	Area	60.8	
Tractor/Loader/Backhoe 1	Area	65.8	
Trencher 1	Area	62.7	
Water Truck 1	Area	57.8	
Receiver R4 Leq,d 62.5 dB(A)			
Cement and Mortar Mixer 1	Area	51.6	
Concrete Saw 1	Area	57.7	
Generator Set 1	Area	52.6	
Paver 1	Area	48.7	
Paving Equipment	Area	48.7	
Plate Compactor 1	Area	50.8	
Skid Steer Loader	Area	49.8	
Tractor/Loader/Backhoe 1	Area	54.8	
Trencher 1	Area	51.7	

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130 West College **Calculated Noise Levels - 01h Paving/Landscaping**

Source	Source type	Leq,d dB(A)	
Water Truck 1	Area	46.8	
Receiver R5 Leq,d 63.8 dB(A)			
Cement and Mortar Mixer 1	Area	52.9	
Concrete Saw 1	Area	59.0	
Generator Set 1	Area	53.9	
Paver 1	Area	50.0	
Paving Equipment	Area	50.0	
Plate Compactor 1	Area	52.1	
Skid Steer Loader	Area	51.1	
Tractor/Loader/Backhoe 1	Area	56.1	
Trencher 1	Area	53.0	
Water Truck 1	Area	48.1	
Receiver R6 Leq,d 58.1 dB(A)			
Cement and Mortar Mixer 1	Area	47.2	
Concrete Saw 1	Area	53.3	
Generator Set 1	Area	48.2	
Paver 1	Area	44.3	
Paving Equipment	Area	44.3	
Plate Compactor 1	Area	46.4	
Skid Steer Loader	Area	45.4	
Tractor/Loader/Backhoe 1	Area	50.4	
Trencher 1	Area	47.3	
Water Truck 1	Area	42.4	

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130 West College **Source Levels in dB(A) - 01i Fire Hydrant**

Name	Source type	Lw dB(A)	
Const. Fire Hydrant - Concrete Saw 1	Area	114.7	
Const. Fire Hydrant - Loader 1	Area	106.7	

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130 West College **Calculated Noise Levels - 01i Fire Hydrant**

Source	Source type	Leq,d dB(A)	
Receiver R1 Leq,d 62.7 dB(A)			
Const. Fire Hydrant - Loader 1	Area	54.2	
Const. Fire Hydrant - Concrete Saw 1	Area	62.0	
Receiver R2 Leq,d 58.1 dB(A)			
Const. Fire Hydrant - Loader 1	Area	49.5	
Const. Fire Hydrant - Concrete Saw 1	Area	57.4	
Receiver R3 Leq,d 61.2 dB(A)			
Const. Fire Hydrant - Loader 1	Area	52.7	
Const. Fire Hydrant - Concrete Saw 1	Area	60.5	
Receiver R4 Leq,d 54.5 dB(A)			
Const. Fire Hydrant - Loader 1	Area	45.9	
Const. Fire Hydrant - Concrete Saw 1	Area	53.9	
Receiver R5 Leq,d 58.5 dB(A)			
Const. Fire Hydrant - Loader 1	Area	50.0	
Const. Fire Hydrant - Concrete Saw 1	Area	57.9	
Receiver R6 Leq,d 51.7 dB(A)			
Const. Fire Hydrant - Loader 1	Area	43.1	
Const. Fire Hydrant - Concrete Saw 1	Area	51.1	

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Project: 130 W College

Off-Site Haul Trucks

Phase	Maximum Number of Truck One Way Trips (delivery/haul) Per Hour (8- Per Day		Estimated Noise Levels, dBA Leq	
	Per Day	hr day)	Alameda St.	College St.
TNM noise level for 1 trucks		1	40.2	50.0
1. Site Prep/Demo (6hrs)	50	9	49.7	59.5
2. Grading (6hrs)	260	44	56.6	66.4
3. Foundation	140	18	52.8	62.6
4. Basement	80	10	50.2	60.0
5. Building Construction	40	5	47.2	57.0
6. Architectural Façade	20	3	45.0	54.8
7. Interior	80	10	50.2	60.0
8. Paving/Landscaping	40	5	47.2	57.0
<u>Overlapping Construction</u>				
9. Building Construction + Architectural Façade	60	8	49.2	59.0
10. Architectural Façade + Interior	100	13	51.3	61.1
11. Interior + Paving/Landscaping	120	15	52.0	61.8
		Ambient	67.2	58.5
		Threshold	72.2	63.5
			Construction + Ambient, dBA Leq	
			Alameda St.	College St.
1. Site Prep/Demo (6hrs)			67.3	62.0
2. Grading (6hrs)			67.6	67.1
3. Foundation			67.4	64.0
4. Basement			67.3	62.3
5. Building Construction			67.2	60.8
6. Architectural Façade			67.2	60.0
7. Interior			67.3	62.3
8. Paving/Landscaping			67.2	60.8
<u>Overlapping Construction</u>				
9. Building Construction + Architectural Façade			67.3	61.8
10. Architectural Façade + Interior			67.3	63.0
11. Interior + Paving/Landscaping			67.3	63.5
			Noise Increase above Ambient, dBA Leq	
			Alameda St.	College St.
1. Site Prep/Demo (6hrs)			0.1	3.5
2. Grading (6hrs)			0.4	8.6
3. Foundation			0.2	5.5
4. Basement			0.1	3.8
5. Building Construction			0.0	2.3
6. Architectural Façade			0.0	1.5
7. Interior			0.1	3.8
8. Paving/Landscaping			0.0	2.3
<u>Overlapping Construction</u>				
9. Building Construction + Architectural Façade			0.1	3.3
10. Architectural Façade + Interior			0.1	4.5
11. Interior + Paving/Landscaping			0.1	5.0

Cumulative Analysis

	Alameda St.	College St.
Cumulative truck trips per hour	160	44
Cumulative trucks noise	70.4	66.4
Ambient	67.2	58.5
Cumulative + Ambient	72.1	67.1
Noise increase	4.9	8.6
Threshold (ambient + 5 dB)	72.2	63.5

INPUT: ROADWAYS
130 College Project

Eyestone Environmental											
Sean Bui											
INPUT: ROADWAYS				2 August 2024							
PROJECT/CONTRACT:				TNM 2.5							
RUN:											
130 College Project								Average pavement type shall be used unless			
Construction - 1 truck trip								a State highway agency substantiates the use			
								of a different type with the approval of FHWA			
Roadway		Points									
Name	Width	Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control	Speed	Percent	Pvmt	On
							Device	Constraint	Vehicles	Type	Struct?
									Affected		
	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

130 College Project

Eyestone Environmental				2 August 2024								
Sean Bui				TNM 2.5								
INPUT: TRAFFIC FOR LAeq1h Volumes												
PROJECT/CONTRACT:	130 College Project											
RUN:	Construction - 1 truck trip											
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	0	0	0	0	1	35	0	0	0	0
	point2	2										

INPUT: RECEIVERS

130 College Project

Eyestone Environmental											
Sean Bui											
INPUT: RECEIVERS											
PROJECT/CONTRACT:	130 College Project										
RUN:	Construction - 1 truck trip										
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	
College St.	8	1	500.0	35.0	0.00	4.92	0.00	66	10.0	8.0	Y
Main St. Daly St. Vignes St.	14	1	500.0	50.0	0.00	4.92	0.00	66	10.0	8.0	Y
Alameda St.	15	1	500.0	270.0	0.00	4.92	0.00	66	10.0	8.0	Y

RESULTS: SOUND LEVELS

130 College Project

Eyestone Environmental												
Sean Bui												
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:												
RUN:												
BARRIER DESIGN:												
ATMOSPHERICS:												
Receiver												
Name	No.	#DUs	Existing	No Barrier					With Barrier			
			LAeq1h	LAeq1h		Increase over existing		Type	Calculated	Noise Reduction		
				Calculated	Crit'n	Calculated	Crit'n	Impact	LAeq1h	Calculated	Goal	Calculated
							Sub'l Inc					minus
												Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
College St.	8	1	0.0	50.0	66	50.0	10	----	50.0	0.0	8	-8.0
Main St. Daly St. Vignes St.	14	1	0.0	48.4	66	48.4	10	----	48.4	0.0	8	-8.0
Alameda St.	15	1	0.0	40.2	66	40.2	10	----	40.2	0.0	8	-8.0
Dwelling Units		# DUs	Noise Reduction									
			Min	Avg	Max							
			dB	dB	dB							
All Selected		3	0.0	0.0	0.0							
All Impacted		0	0.0	0.0	0.0							
All that meet NR Goal		0	0.0	0.0	0.0							

Project: 130 W College

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= 1.1 (for receptors 25 feet or greater)

n= 1.1 (for receptors less than 25 feet, per Caltrans procedure)

ON-SITE CONSTRUCTION ACTIVITIES

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

Equipment	Reference Vibration Levels at 25 ft., PPV	Estimated Vibration Levels at nearest off-site building structures, distance in feet, PPV							
		Commercial Building to the North		Commercial Building to the South		Commercial Building to the East		Commercial Building to the West	
		Distance	Level	Distance	Level	Distance	Level	Distance	Level
Large Bulldozer	0.089	60	0.034	50	0.042	80	0.025	230	0.008
Caisson Drilling	0.089	60	0.034	50	0.042	80	0.025	230	0.008
Loaded Trucks	0.076	60	0.029	50	0.036	80	0.021	230	0.007
Jackhammer	0.035	60	0.013	50	0.016	80	0.010	230	0.003
Small bulldozer	0.003	60	0.001	50	0.001	80	0.001	230	0.000

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

Equipment	Reference Vibration Levels at 25 ft., PPV	Estimated Vibration Levels at nearest off-site building structures, distance in feet, PPV							
		Granite Block Paving							
		Distance	Level	Distance	Level	Distance	Level	Distance	Level
Large Bulldozer	0.089	5	0.523						
Caisson Drilling	0.089	5	0.523						
Loaded Trucks	0.076	5	0.446						
Jackhammer	0.035	5	0.206						
Small bulldozer	0.003	5	0.018						

Table 2a: 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	
		Distance	Level	Distance	Level	Distance	Level	Distance	Level
Large Bulldozer	87	340	53	290	55	60	76	320	54
Caisson Drilling	87	340	53	290	55	60	76	320	54
Loaded Trucks	86	340	52	290	54	60	75	320	53
Jackhammer	79	340	45	290	47	60	68	320	46
Small bulldozer	58	340	24	290	26	60	47	320	25

Table 2b: 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							
		R5		R6					
		Distance	Level	Distance	Level	Distance	Level	Distance	Level
Large Bulldozer	87	290	55	660	44				
Caisson Drilling	87	290	55	660	44				
Loaded Trucks	86	290	54	660	43				
Jackhammer	79	290	47	660	36				
Small bulldozer	58	290	26	660	15				

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	25						
Typical road surface	0.00565	0.016	0.012						

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	26						
Typical road surface	63	74.9	71.5						

Ref. Levels based on FTA Figure 7-3

Operation Noise Calculations

Project Composite Noise Calculations (CNEL)

Project: 130 W College Project

Receptor	Ambient	Traffic ^a	Mechanical	Outdoor	Parking	Loading & Trash Compactor	Project Composite	Ambient + Project	Increase
R1	68.0	46.9	42.7	57.1	37.9	17.3	57.7	68.4	0.4
R1U	68.0	46.9	46.0	58.5	38.4	16.3	59.0	68.5	0.5
R2	71.6	53.8	48.1	50.7	45.9	30.4	56.6	71.7	0.1
R2U	71.6	50.4	50.3	52.9	41.8	29.5	56.3	71.7	0.1
R3	61.6	60.4	46.6	56.8	55.8	43.7	63.1	65.4	3.8
R3U	61.6	56.6	57.7	61.8	43.6	15.1	64.1	66.0	4.4
R4	67.0	59.0	42.0	51.0	35.0	36.3	59.7	67.7	0.7
R4U	67.0	56.1	48.2	52.0	35.8	38.9	58.1	67.5	0.5
R5	68.2	57.0	42.5	60.1	40.5	20.6	61.9	69.1	0.9
R5U	68.2	52.0	52.3	64.4	36.0	19.1	64.9	69.9	1.7
R6	62.8	53.3	44.6	44.8	38.9	28.9	54.5	63.4	0.6

^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 - Represent receptor 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	Main St.	63.2	63.3	46.9	175	70.8	70.9	0	35	-7.6
R1U	Main St.	63.2	63.3	46.9	177	70.8	70.9	0	35	-7.6
R2	Main St.	70.1	70.2	53.8	20	71.2	71.3	0	35	-1.1
R2U	Main St.	66.7	66.8	50.4	73	71.2	71.3	0	35	-4.5
R3	College St.	63.6	65.3	60.4	15	64.2	65.9	0	35	-0.6
R3U	College St.	59.8	61.5	56.6	72	64.2	65.9	0	35	-4.4
R4	College St.	68.1	68.6	59.0	15	68.7	69.2	0	35	-0.6
R4U	College St.	65.3	65.8	56.1	52	68.7	69.2	0	35	-3.4
R5	Alameda St.	70.2	70.4	57.0	15	70.8	71.0	0	35	-0.6
R5U	Alameda St.	65.2	65.4	52.0	101	70.8	71.0	0	35	-5.6
R6	Spring St.	70.8	70.9	53.3	15	71.4	71.4	0	35	-0.6

Receptor	Ambient	Traffic ^a	Mechanical	Outdoor	Parking	Loading & Trash Compactor	Project Composite	Ambient + Project	Increase
R1	68.0	46.9	46.0	58.5	38.4	16.3	59.0	68.5	0.5
R2	71.6	53.8	48.1	50.7	45.9	30.4	56.6	71.7	0.1
R3	61.6	56.6	57.7	61.8	43.6	15.1	64.1	66.0	4.4
R4	67.0	59.0	42.0	51.0	35.0	36.3	59.7	67.7	0.7
R5	68.2	52.0	52.3	64.4	36.0	19.1	64.9	69.9	1.7
R6	62.8	53.3	44.6	44.8	38.9	28.9	54.5	63.4	0.6

Outdoor Mechanical Equipment Noise Calculations

Project: 130 W College Project

Estimated Noise Levels, Leq from SOUNDPLAN			Hours of Operations		
			Ld (7am to 7pm)	Le (7pm to 10pm)	Ln (10pm to 7am)
Receptor	Leq	CNEL	12	3	9
R1	36.0	42.7	36.0	36.0	36.0
R1U	39.3	46.0	39.3	39.3	39.3
R2	41.4	48.1	41.4	41.4	41.4
R2U	43.6	50.3	43.6	43.6	43.6
R3	39.9	46.6	39.9	39.9	39.9
R3U	51.0	57.7	51.0	51.0	51.0
R4	35.3	42.0	35.3	35.3	35.3
R4U	41.5	48.2	41.5	41.5	41.5
R5	35.8	42.5	35.8	35.8	35.8
R5U	45.6	52.3	45.6	45.6	45.6
R6	37.9	44.6	37.9	37.9	37.9

Receptor	Ambient CNEL	Ambient + Project (CNEL)	Increase (CNEL)	ambient (Leq)	Ambient + Project (Leq)	Increase (Leq)	Project Leq	Threshold
R1	68.0	68.0	0.0	60.4	60.4	0.0	36.0	65.4
R1U	68.0	68.0	0.0	60.4	60.4	0.0	39.3	65.4
R2	71.6	71.6	0.0	64.5	64.5	0.0	41.4	69.5
R2U	71.6	71.6	0.0	64.5	64.5	0.0	43.6	69.5
R3	61.6	61.7	0.1	56.5	56.6	0.1	39.9	61.5
R3U	61.6	63.1	1.5	56.5	57.6	1.1	51.0	61.5
R4	67.0	67.0	0.0	60.4	60.4	0.0	35.3	65.4
R4U	67.0	67.1	0.1	60.4	60.5	0.1	41.5	65.4
R5	68.2	68.2	0.0	61.8	61.8	0.0	35.8	66.8
R5U	68.2	68.3	0.1	61.8	61.9	0.1	45.6	66.8
R6	62.8	62.9	0.1	57.3	57.3	0.0	37.9	62.3

For Report

Receptor	ambient (Leq)	Project (Leq)	Ambient + Project (Leq)	Increase (Leq)	Threshold
R1	60.4	39.3	60.4	0.0	65.4
R2	64.5	43.6	64.5	0.0	69.5
R3	56.5	51.0	57.6	1.1	61.5
R4	60.4	41.5	60.5	0.1	65.4
R5	61.8	45.6	61.9	0.1	66.8
R6	57.3	37.9	57.3	0.0	62.3

Outdoor Noise Calculations

Project: 130 W College Project

Estimated noise levels, Leq (FROM SOUNDPLAN)					Hours of Operations		
					Ld (7am to 7pm)	Le (7pm to 10pm)	Ln (10pm to 7am)
Receptor	Sound System	Occupants	Total, Leq	CNEL	12	3	2
R1	53.7	48.0	54.7	57.1	54.7	54.7	48.2
R1U	55.2	48.9	56.1	58.5	56.1	56.1	49.6
R2	44.9	45.6	48.3	50.7	48.3	48.3	41.8
R2U	45.0	49.1	50.5	52.9	50.5	50.5	44.0
R3	49.0	52.9	54.4	56.8	54.4	54.4	47.9
R3U	51.8	58.6	59.4	61.8	59.4	59.4	52.9
R4	46.6	44.2	48.6	51.0	48.6	48.6	42.1
R4U	46.4	46.8	49.6	52.0	49.6	49.6	43.1
R5	56.9	50.0	57.7	60.1	57.7	57.7	51.2
R5U	61.2	54.0	62.0	64.4	62.0	62.0	55.5
R6	38.7	39.9	42.4	44.8	42.4	42.4	35.9

Receptor	Ambient CNEL	Ambient + Project (CNEL)	Increase (CNEL)	ambient (Leq)	Project (Leq)	Ambient + Project (Leq)	Increase (Leq)	Threshold (Leq)
R1	68.0	68.0	0.0	60.4	54.7	61.4	1.0	65.4
R1U	68.0	68.1	0.1	60.4	56.1	61.8	1.4	65.4
R2	71.6	71.6	0.0	64.5	48.3	64.6	0.1	69.5
R2U	71.6	71.6	0.0	64.5	50.5	64.7	0.2	69.5
R3	61.6	62.8	1.2	56.5	54.4	58.6	2.1	61.5
R3U	61.6	63.4	1.8	56.5	59.4	61.2	4.7	61.5
R4	67.0	67.1	0.1	60.4	48.6	60.7	0.3	65.4
R4U	67.0	67.0	0.0	60.4	49.6	60.7	0.3	65.4
R5	68.2	68.8	0.6	61.8	57.7	63.2	1.4	66.8
R5U	68.2	68.4	0.2	61.8	62.0	64.9	3.1	66.8
R6	62.8	62.9	0.1	57.3	42.4	57.4	0.1	62.3

For Report

Receptor	ambient (Leq)	Project (Leq)	Ambient + Project (Leq)	Increase (Leq)	Threshold (Leq)
R1	60.4	56.1	61.8	1.4	65.4
R2	64.5	50.5	64.7	0.2	69.5
R3	56.5	59.4	61.2	4.7	61.5
R4	60.4	49.6	60.7	0.3	65.4
R5	61.8	62.0	64.9	3.1	66.8
R6	57.3	38.7	57.4	0.1	62.3

Parking Noise Calculations

Project: 130 W College Project

Hours of Operations

Estimated Noise Levels, Leq from SOUNDPLAN			Hours of Operations		
Receptor	Leq	CNEL	Ld (7am to 7pm)	Le (7pm to 10pm)	Ln (10pm to 7am)
R1	31.2	37.9	31.2	31.2	31.2
R1U	31.7	38.4	31.7	31.7	31.7
R2	39.2	45.9	39.2	39.2	39.2
R2U	35.1	41.8	35.1	35.1	35.1
R3	49.1	55.8	49.1	49.1	49.1
R3U	36.9	43.6	36.9	36.9	36.9
R4	28.3	35.0	28.3	28.3	28.3
R4U	29.1	35.8	29.1	29.1	29.1
R5	33.8	40.5	33.8	33.8	33.8
R5U	29.3	36.0	29.3	29.3	29.3
R6	32.2	38.9	32.2	32.2	32.2

Receptor	Ambient CNEL	Ambient + Project (CNEL)	Increase (CNEL)	ambient (Leq)	Ambient + Project (Leq)	Increase (Leq)	Project Leq	Threshold
R1	68.0	68.0	0.0	60.4	60.4	0.0	31.2	65.4
R1U	68.0	68.0	0.0	60.4	60.4	0.0	31.7	65.4
R2	71.6	71.6	0.0	64.5	64.5	0.0	39.2	69.5
R2U	71.6	71.6	0.0	64.5	64.5	0.0	35.1	69.5
R3	61.6	62.6	1.0	56.5	57.2	0.7	49.1	61.5
R3U	61.6	61.7	0.1	56.5	56.5	0.0	36.9	61.5
R4	67.0	67.0	0.0	60.4	60.4	0.0	28.3	65.4
R4U	67.0	67.0	0.0	60.4	60.4	0.0	29.1	65.4
R5	68.2	68.2	0.0	61.8	61.8	0.0	33.8	66.8
R5U	68.2	68.2	0.0	61.8	61.8	0.0	29.3	66.8
R6	62.8	62.8	0.0	57.3	57.3	0.0	32.2	62.3

For Report

Receptor	ambient (Leq)	Project (Leq)	Ambient + Project (Leq)	Increase (Leq)	Threshold
R1	60.4	31.7	60.4	0.0	65.4
R2	64.5	39.2	64.5	0.0	69.5
R3	56.5	49.1	57.2	0.7	61.5
R4	60.4	29.1	60.4	0.0	65.4
R5	61.8	33.8	61.8	0.0	66.8
R6	57.3	32.2	57.3	0.0	62.3

Loading & Trash Compactor Noise Calculations

Project: 130 W College Project

			Hours of Operations		
Estimated Noise Levels, Leq from SOUNDPLAN			Ld (7am to 7pm)	Le (7pm to 10pm)	Ln (10pm to 7am)
Receptor	Leq	CNEL	3	3	0
R1	19.8	17.3	13.8	19.8	0.0
R1U	18.7	16.3	12.7	18.7	0.0
R2	33.2	30.4	27.2	33.2	0.0
R2U	32.3	29.5	26.3	32.3	0.0
R3	46.5	43.7	40.5	46.5	0.0
R3U	17.4	15.1	11.4	17.4	0.0
R4	39.1	36.3	33.1	39.1	0.0
R4U	41.7	38.9	35.7	41.7	0.0
R5	23.3	20.6	17.3	23.3	0.0
R5U	21.7	19.1	15.7	21.7	0.0
R6	31.7	28.9	25.7	31.7	0.0

Receptor	Ambient CNEL	Ambient + Project (CNEL)	Increase (CNEL)	ambient (Leq)	Ambient + Project (Leq)	Increase (Leq)	Project Leq	Threshold
R1	68.0	68.0	0.0	60.4	60.4	0.0	19.8	65.4
R1U	68.0	68.0	0.0	60.4	60.4	0.0	18.7	65.4
R2	71.6	71.6	0.0	64.5	64.5	0.0	33.2	69.5
R2U	71.6	71.6	0.0	64.5	64.5	0.0	32.3	69.5
R3	61.6	61.7	0.1	56.5	56.9	0.4	46.5	61.5
R3U	61.6	61.6	0.0	56.5	56.5	0.0	17.4	61.5
R4	67.0	67.0	0.0	60.4	60.4	0.0	39.1	65.4
R4U	67.0	67.0	0.0	60.4	60.5	0.1	41.7	65.4
R5	68.2	68.2	0.0	61.8	61.8	0.0	23.3	66.8
R5U	68.2	68.2	0.0	61.8	61.8	0.0	21.7	66.8
R6	62.8	62.8	0.0	57.3	57.3	0.0	31.7	62.3

For Report

Receptor	ambient (Leq)	Project (Leq)	Ambient + Project (Leq)	Increase (Leq)	Threshold
R1	60.4	19.8	60.4	0.0	65.4
R2	64.5	33.2	64.5	0.0	69.5
R3	56.5	46.5	56.9	0.4	61.5
R4	60.4	41.7	60.5	0.1	65.4
R5	61.8	23.3	61.8	0.0	66.8
R6	57.3	31.7	57.3	0.0	62.3

130 West College

Source Levels in dB(A) - 02a Mechanical

Name	Source type	Lw dB(A)	
Mechanical	Point	90.0	
Mechanical	Point	90.0	
Mechanical	Point	90.0	
Mechanical	Point	90.0	
Mechanical	Point	90.0	
Mechanical	Point	90.0	
Mechanical	Point	90.0	
Mechanical	Point	90.0	

AES 22801 Crespi St Woodland Hills, CA 91364 USA

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130 West College Calculated Noise Levels - 02a Mechanical

Source	Source type	Leq,d dB(A)	
Receiver R1 FI GF Leq,d 36.0 dB(A)			
Mechanical	Point	27.1	
Mechanical	Point	24.6	
Mechanical	Point	27.2	
Mechanical	Point	26.3	
Mechanical	Point	27.1	
Mechanical	Point	27.4	
Mechanical	Point	27.7	
Mechanical	Point	27.7	
Receiver R1 FI 1.FL Leq,d 39.3 dB(A)			
Mechanical	Point	29.4	
Mechanical	Point	29.2	
Mechanical	Point	29.5	
Mechanical	Point	29.2	
Mechanical	Point	30.7	
Mechanical	Point	31.0	
Mechanical	Point	31.1	
Mechanical	Point	31.3	
Receiver R2 FI GF Leq,d 41.4 dB(A)			
Mechanical	Point	31.9	
Mechanical	Point	32.2	
Mechanical	Point	30.9	
Mechanical	Point	31.0	
Mechanical	Point	33.6	
Mechanical	Point	33.7	
Mechanical	Point	32.2	
Mechanical	Point	32.3	
Receiver R2 FI 1.FL Leq,d 43.6 dB(A)			
Mechanical	Point	33.2	
Mechanical	Point	33.5	
Mechanical	Point	33.0	
Mechanical	Point	33.3	
Mechanical	Point	35.6	
Mechanical	Point	35.7	
Mechanical	Point	35.3	
Mechanical	Point	35.5	
Receiver R3 FI GF Leq,d 39.9 dB(A)			
Mechanical	Point	31.9	
Mechanical	Point	32.2	
Mechanical	Point	30.1	
Mechanical	Point	30.4	
Mechanical	Point	31.3	

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130 West College Calculated Noise Levels - 02a Mechanical

Source	Source type	Leq,d dB(A)	
Mechanical	Point	30.9	
Mechanical	Point	29.6	
Mechanical	Point	29.2	
Receiver R3 FI 1.FL Leq,d 51.0 dB(A)			
Mechanical	Point	42.7	
Mechanical	Point	43.2	
Mechanical	Point	42.3	
Mechanical	Point	42.7	
Mechanical	Point	41.6	
Mechanical	Point	40.8	
Mechanical	Point	41.5	
Mechanical	Point	40.5	
Receiver R4 FI GF Leq,d 35.3 dB(A)			
Mechanical	Point	29.3	
Mechanical	Point	28.0	
Mechanical	Point	29.3	
Mechanical	Point	28.0	
Mechanical	Point	21.2	
Mechanical	Point	21.3	
Mechanical	Point	19.3	
Mechanical	Point	19.3	
Receiver R4 FI 1.FL Leq,d 41.5 dB(A)			
Mechanical	Point	34.4	
Mechanical	Point	33.8	
Mechanical	Point	34.4	
Mechanical	Point	33.8	
Mechanical	Point	30.4	
Mechanical	Point	30.1	
Mechanical	Point	29.5	
Mechanical	Point	29.3	
Receiver R5 FI GF Leq,d 35.8 dB(A)			
Mechanical	Point	27.9	
Mechanical	Point	20.2	
Mechanical	Point	28.5	
Mechanical	Point	20.4	
Mechanical	Point	26.8	
Mechanical	Point	27.3	
Mechanical	Point	27.9	
Mechanical	Point	27.8	
Receiver R5 FI 1.FL Leq,d 45.6 dB(A)			
Mechanical	Point	38.0	
Mechanical	Point	34.2	

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130 West College **Calculated Noise Levels - 02a Mechanical**

Source	Source type	Leq,d dB(A)	
Mechanical	Point	38.3	
Mechanical	Point	34.1	
Mechanical	Point	36.6	
Mechanical	Point	36.3	
Mechanical	Point	36.7	
Mechanical	Point	36.5	
Receiver R6 FI GF Leq,d 37.9 dB(A)			
Mechanical	Point	29.7	
Mechanical	Point	29.6	
Mechanical	Point	29.5	
Mechanical	Point	29.3	
Mechanical	Point	28.3	
Mechanical	Point	28.2	
Mechanical	Point	28.2	
Mechanical	Point	28.0	

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130 West College
Source Levels in dB(A) - 02b Loading and Trash Compactor

Name	Source type	Lw dB(A)	
Loading	Point	101.9	
Trash Compactor	Point	77.7	

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Calculated Noise Levels - 02b Loading and Trash Compactor

Source	Source type	Leq,d dB(A)	
Receiver R1 FI GF Leq,d 19.8 dB(A)			
Loading	Point	19.8	
Trash Compactor	Point	-1.6	
Receiver R1 FI 1.FL Leq,d 18.7 dB(A)			
Loading	Point	18.6	
Trash Compactor	Point	-2.8	
Receiver R2 FI GF Leq,d 33.2 dB(A)			
Loading	Point	32.3	
Trash Compactor	Point	25.5	
Receiver R2 FI 1.FL Leq,d 32.3 dB(A)			
Loading	Point	31.8	
Trash Compactor	Point	23.1	
Receiver R3 FI GF Leq,d 46.5 dB(A)			
Loading	Point	46.0	
Trash Compactor	Point	36.5	
Receiver R3 FI 1.FL Leq,d 17.4 dB(A)			
Loading	Point		
Trash Compactor	Point	17.4	
Receiver R4 FI GF Leq,d 39.1 dB(A)			
Loading	Point	39.1	
Trash Compactor	Point	14.9	
Receiver R4 FI 1.FL Leq,d 41.7 dB(A)			
Loading	Point	41.7	
Trash Compactor	Point	18.3	
Receiver R5 FI GF Leq,d 23.3 dB(A)			
Loading	Point	23.3	
Trash Compactor	Point	-8.8	
Receiver R5 FI 1.FL Leq,d 21.7 dB(A)			
Loading	Point	21.7	
Trash Compactor	Point		
Receiver R6 FI GF Leq,d 31.7 dB(A)			
Loading	Point	30.8	
Trash Compactor	Point	24.1	

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130 West College Input data parking lots - 02c Parking

This image shows a completely blank white rectangular area. It is surrounded by a thick, solid black border that frames the entire composition. There are no markings, text, or illustrations within the white space.

SoundPLAN 8.2
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130 West College Calculated Noise Levels - 02c Parking

Source	Source type	Leq,d dB(A)	
Receiver R1 FI GF Leq,d 31.2 dB(A)			
Parking Level 1	PLot	31.1	
Parking Level P2	PLot	11.7	
Receiver R1 FI 1.FL Leq,d 31.7 dB(A)			
Parking Level 1	PLot	31.7	
Parking Level P2	PLot	10.8	
Receiver R2 FI GF Leq,d 39.2 dB(A)			
Parking Level 1	PLot	39.2	
Parking Level P2	PLot	1.8	
Receiver R2 FI 1.FL Leq,d 35.1 dB(A)			
Parking Level 1	PLot	35.1	
Parking Level P2	PLot	-20.8	
Receiver R3 FI GF Leq,d 49.1 dB(A)			
Parking Level 1	PLot	49.1	
Parking Level P2	PLot	8.5	
Receiver R3 FI 1.FL Leq,d 36.9 dB(A)			
Parking Level 1	PLot	36.9	
Parking Level P2	PLot	1.8	
Receiver R4 FI GF Leq,d 28.3 dB(A)			
Parking Level 1	PLot	23.6	
Parking Level P2	PLot	26.6	
Receiver R4 FI 1.FL Leq,d 29.1 dB(A)			
Parking Level 1	PLot	21.4	
Parking Level P2	PLot	28.3	
Receiver R5 FI GF Leq,d 33.8 dB(A)			
Parking Level 1	PLot	32.7	
Parking Level P2	PLot	27.2	
Receiver R5 FI 1.FL Leq,d 29.3 dB(A)			
Parking Level 1	PLot	27.9	
Parking Level P2	PLot	23.6	
Receiver R6 FI GF Leq,d 32.2 dB(A)			
Parking Level 1	PLot	32.0	
Parking Level P2	PLot	18.3	

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130 West College

Source Levels in dB(A) - 02d People

Name	Source type	Lw dB(A)	
People Level 1 (East)	Area	92.0	
People Level 1 (South)	Area	96.8	
People Level 1 (West)	Area	93.5	
People Level 2 (Central)	Area	96.1	
People Level 2 (North)	Area	93.8	
People Level 2 (Southeast)	Area	95.8	
People Level 2 (Southwest)	Area	95.5	
People Level 4 (Southeast)	Area	93.2	
People Level 4 (Southwest)	Area	93.2	

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130 West College Calculated Noise Levels - 02d People

Source	Source type	Leq,d dB(A)	
Receiver R1 FI GF Leq,d 48.0 dB(A)			
People Level 1 (West)	Area	16.7	
People Level 1 (South)	Area	41.8	
People Level 1 (East)	Area	39.3	
People Level 2 (Southwest)	Area	38.2	
People Level 2 (Southeast)	Area	42.3	
People Level 2 (North)	Area	18.1	
People Level 2 (Central)	Area	33.0	
People Level 4 (Southwest)	Area	37.0	
People Level 4 (Southeast)	Area	39.6	
Receiver R1 FI 1.FL Leq,d 48.9 dB(A)			
People Level 1 (West)	Area	17.3	
People Level 1 (South)	Area	43.0	
People Level 1 (East)	Area	40.6	
People Level 2 (Southwest)	Area	38.6	
People Level 2 (Southeast)	Area	42.9	
People Level 2 (North)	Area	19.6	
People Level 2 (Central)	Area	34.4	
People Level 4 (Southwest)	Area	37.2	
People Level 4 (Southeast)	Area	40.2	
Receiver R2 FI GF Leq,d 45.6 dB(A)			
People Level 1 (West)	Area	34.2	
People Level 1 (South)	Area	35.2	
People Level 1 (East)	Area	38.1	
People Level 2 (Southwest)	Area	21.8	
People Level 2 (Southeast)	Area	21.4	
People Level 2 (North)	Area	42.1	
People Level 2 (Central)	Area	38.3	
People Level 4 (Southwest)	Area	20.2	
People Level 4 (Southeast)	Area	17.8	
Receiver R2 FI 1.FL Leq,d 49.1 dB(A)			
People Level 1 (West)	Area	36.4	
People Level 1 (South)	Area	30.3	
People Level 1 (East)	Area	41.4	
People Level 2 (Southwest)	Area	25.2	
People Level 2 (Southeast)	Area	23.4	
People Level 2 (North)	Area	46.3	
People Level 2 (Central)	Area	42.8	
People Level 4 (Southwest)	Area	18.3	
People Level 4 (Southeast)	Area	19.3	
Receiver R3 FI GF Leq,d 52.9 dB(A)			
People Level 1 (West)	Area	44.4	

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130 West College

Calculated Noise Levels - 02d People

Source	Source type	Leq,d dB(A)	
People Level 1 (South)	Area	41.8	
People Level 1 (East)	Area	34.6	
People Level 2 (Southwest)	Area	24.0	
People Level 2 (Southeast)	Area	24.4	
People Level 2 (North)	Area	50.9	
People Level 2 (Central)	Area	44.0	
People Level 4 (Southwest)	Area	22.5	
People Level 4 (Southeast)	Area	22.1	
Receiver R3 FI 1.FL Leq,d 58.6 dB(A)			
People Level 1 (West)	Area	47.2	
People Level 1 (South)	Area	30.8	
People Level 1 (East)	Area	38.2	
People Level 2 (Southwest)	Area	27.3	
People Level 2 (Southeast)	Area	32.6	
People Level 2 (North)	Area	55.9	
People Level 2 (Central)	Area	54.2	
People Level 4 (Southwest)	Area	23.9	
People Level 4 (Southeast)	Area	28.1	
Receiver R4 FI GF Leq,d 44.2 dB(A)			
People Level 1 (West)	Area	42.2	
People Level 1 (South)	Area	25.9	
People Level 1 (East)	Area	21.9	
People Level 2 (Southwest)	Area	32.1	
People Level 2 (Southeast)	Area	28.2	
People Level 2 (North)	Area	37.0	
People Level 2 (Central)	Area	29.9	
People Level 4 (Southwest)	Area	28.7	
People Level 4 (Southeast)	Area	21.6	
Receiver R4 FI 1.FL Leq,d 46.8 dB(A)			
People Level 1 (West)	Area	44.7	
People Level 1 (South)	Area	26.9	
People Level 1 (East)	Area	23.1	
People Level 2 (Southwest)	Area	35.7	
People Level 2 (Southeast)	Area	27.6	
People Level 2 (North)	Area	39.3	
People Level 2 (Central)	Area	34.4	
People Level 4 (Southwest)	Area	31.4	
People Level 4 (Southeast)	Area	25.9	
Receiver R5 FI GF Leq,d 50.0 dB(A)			
People Level 1 (West)	Area	38.5	
People Level 1 (South)	Area	44.3	
People Level 1 (East)	Area	25.2	
People Level 2 (Southwest)	Area	44.1	

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Calculated Noise Levels - 02d People

Source	Source type	Leq,d dB(A)	
People Level 2 (Southeast)	Area	41.4	
People Level 2 (North)	Area	18.1	
People Level 2 (Central)	Area	37.0	
People Level 4 (Southwest)	Area	41.0	
People Level 4 (Southeast)	Area	39.0	
Receiver R5 FI 1.FL Leq,d 54.0 dB(A)			
People Level 1 (West)	Area	42.4	
People Level 1 (South)	Area	47.9	
People Level 1 (East)	Area	26.2	
People Level 2 (Southwest)	Area	47.9	
People Level 2 (Southeast)	Area	45.3	
People Level 2 (North)	Area	21.6	
People Level 2 (Central)	Area	41.4	
People Level 4 (Southwest)	Area	45.9	
People Level 4 (Southeast)	Area	43.6	
Receiver R6 FI GF Leq,d 39.9 dB(A)			
People Level 1 (West)	Area	35.2	
People Level 1 (South)	Area	23.9	
People Level 1 (East)	Area	25.0	
People Level 2 (Southwest)	Area	18.8	
People Level 2 (Southeast)	Area	19.2	
People Level 2 (North)	Area	35.8	
People Level 2 (Central)	Area	32.5	
People Level 4 (Southwest)	Area	14.9	
People Level 4 (Southeast)	Area	17.1	

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130 West College
Source Levels in dB(A) - 02e Speakers

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130 West College Calculated Noise Levels - 02e Speakers

Source	Source type	Leq,d dB(A)	
Receiver R1 FI GF Leq,d 53.7 dB(A)			
Speakers Level 4	Point	46.6	
Speakers Level 4	Point	46.3	
Speakers Level 4	Point	44.9	
Speakers Level 4	Point	44.6	
Speakers Level 4	Point	42.1	
Speakers Level 4	Point	41.5	
Speakers Level 4	Point	40.3	
Speakers Level 4	Point	40.0	
Speakers Level 1	Point	35.5	
Speakers Level 1	Point	35.3	
Speakers Level 1	Point	34.8	
Speakers Level 1	Point	34.8	
Speakers Level 1	Point	33.8	
Speakers Level 1	Point	33.0	
Speakers Level 1	Point	32.9	
Speakers Level 1	Point	32.3	
Speakers Level 1	Point	31.5	
Speakers Level 2	Point	30.8	
Speakers Level 1	Point	30.8	
Speakers Level 1	Point	30.6	
Speakers Level 1	Point	30.2	
Speakers Level 1	Point	30.1	
Speakers Level 2	Point	30.1	
Speakers Level 1	Point	30.0	
Speakers Level 1	Point	29.5	
Speakers Level 1	Point	29.0	
Speakers Level 2	Point	28.1	
Speakers Level 2	Point	28.0	
Speakers Level 2	Point	23.7	
Speakers Level 2	Point	23.0	
Speakers Level 2	Point	20.7	
Speakers Level 2	Point	17.2	
Speakers Level 2	Point	12.9	
Speakers Level 1	Point	6.0	
Speakers Level 2	Point	5.9	
Speakers Level 1	Point	1.7	
Speakers Level 2	Point	0.0	
Speakers Level 2	Point	-0.8	
Speakers Level 2	Point	-4.0	
Speakers Level 1	Point	-4.1	
Speakers Level 2	Point	-4.4	
Speakers Level 1	Point	-5.0	

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130 West College Calculated Noise Levels - 02e Speakers

Source	Source type	Leq,d dB(A)	
Speakers Level 1	Point	-5.3	
Speakers Level 1	Point	-5.4	
Speakers Level 1	Point	-5.6	
Receiver R1 FI 1.FL Leq,d 55.2 dB(A)			
Speakers Level 4	Point	48.9	
Speakers Level 4	Point	48.5	
Speakers Level 4	Point	46.6	
Speakers Level 4	Point	46.2	
Speakers Level 4	Point	42.5	
Speakers Level 4	Point	42.1	
Speakers Level 4	Point	40.6	
Speakers Level 4	Point	40.3	
Speakers Level 1	Point	35.6	
Speakers Level 1	Point	35.3	
Speakers Level 2	Point	35.3	
Speakers Level 1	Point	34.9	
Speakers Level 1	Point	33.9	
Speakers Level 1	Point	33.9	
Speakers Level 2	Point	33.8	
Speakers Level 1	Point	33.1	
Speakers Level 1	Point	32.7	
Speakers Level 2	Point	32.7	
Speakers Level 1	Point	32.2	
Speakers Level 1	Point	31.3	
Speakers Level 1	Point	30.5	
Speakers Level 1	Point	30.4	
Speakers Level 2	Point	29.9	
Speakers Level 1	Point	29.8	
Speakers Level 1	Point	29.8	
Speakers Level 1	Point	29.8	
Speakers Level 1	Point	28.6	
Speakers Level 2	Point	28.1	
Speakers Level 2	Point	27.9	
Speakers Level 2	Point	27.3	
Speakers Level 1	Point	27.0	
Speakers Level 2	Point	25.1	
Speakers Level 2	Point	17.0	
Speakers Level 2	Point	7.2	
Speakers Level 2	Point	6.3	
Speakers Level 1	Point	5.8	
Speakers Level 1	Point	1.4	
Speakers Level 2	Point	-0.2	
Speakers Level 2	Point	-1.4	

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130 West College Calculated Noise Levels - 02e Speakers

Source	Source type	Leq,d dB(A)	
Speakers Level 2	Point	-3.1	
Speakers Level 1	Point	-4.4	
Speakers Level 1	Point	-5.3	
Speakers Level 1	Point	-5.7	
Speakers Level 1	Point	-5.8	
Speakers Level 1	Point	-6.0	
Receiver R2 FI GF Leq,d 44.9 dB(A)			
Speakers Level 2	Point	40.1	
Speakers Level 2	Point	38.7	
Speakers Level 2	Point	34.3	
Speakers Level 2	Point	33.4	
Speakers Level 2	Point	32.5	
Speakers Level 1	Point	32.2	
Speakers Level 1	Point	29.6	
Speakers Level 1	Point	28.7	
Speakers Level 2	Point	28.1	
Speakers Level 1	Point	27.9	
Speakers Level 1	Point	27.2	
Speakers Level 2	Point	26.8	
Speakers Level 1	Point	23.9	
Speakers Level 1	Point	23.3	
Speakers Level 1	Point	22.8	
Speakers Level 1	Point	22.4	
Speakers Level 1	Point	19.6	
Speakers Level 1	Point	18.1	
Speakers Level 4	Point	15.7	
Speakers Level 4	Point	15.5	
Speakers Level 2	Point	13.4	
Speakers Level 1	Point	13.2	
Speakers Level 4	Point	12.8	
Speakers Level 4	Point	12.5	
Speakers Level 4	Point	12.1	
Speakers Level 4	Point	10.9	
Speakers Level 4	Point	9.9	
Speakers Level 4	Point	9.9	
Speakers Level 1	Point	7.6	
Speakers Level 1	Point	7.0	
Speakers Level 1	Point	5.2	
Speakers Level 1	Point	5.1	
Speakers Level 1	Point	1.4	
Speakers Level 1	Point	0.9	
Speakers Level 1	Point	-0.6	
Speakers Level 2	Point	-1.8	

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130 West College Calculated Noise Levels - 02e Speakers

Source	Source type	Leq,d dB(A)	
Speakers Level 2	Point	-2.4	
Speakers Level 2	Point	-2.5	
Speakers Level 1	Point	-2.8	
Speakers Level 1	Point	-3.4	
Speakers Level 1	Point	-3.6	
Speakers Level 1	Point	-3.6	
Speakers Level 2	Point	-3.8	
Speakers Level 2	Point	-4.2	
Speakers Level 2	Point	-5.5	
Receiver R2 FI 1.FL Leq,d 45.0 dB(A)			
Speakers Level 2	Point	39.2	
Speakers Level 2	Point	38.1	
Speakers Level 2	Point	34.6	
Speakers Level 2	Point	33.7	
Speakers Level 2	Point	32.9	
Speakers Level 2	Point	32.9	
Speakers Level 2	Point	31.8	
Speakers Level 1	Point	31.5	
Speakers Level 1	Point	29.4	
Speakers Level 1	Point	28.6	
Speakers Level 1	Point	27.8	
Speakers Level 4	Point	26.6	
Speakers Level 4	Point	26.5	
Speakers Level 1	Point	26.3	
Speakers Level 2	Point	24.1	
Speakers Level 1	Point	24.1	
Speakers Level 1	Point	22.0	
Speakers Level 1	Point	19.3	
Speakers Level 1	Point	17.1	
Speakers Level 4	Point	14.0	
Speakers Level 4	Point	13.7	
Speakers Level 4	Point	13.1	
Speakers Level 4	Point	11.9	
Speakers Level 4	Point	11.0	
Speakers Level 4	Point	11.0	
Speakers Level 1	Point	10.0	
Speakers Level 1	Point	9.4	
Speakers Level 1	Point	7.0	
Speakers Level 1	Point	6.1	
Speakers Level 1	Point	6.0	
Speakers Level 1	Point	2.3	
Speakers Level 1	Point	1.5	
Speakers Level 1	Point	1.3	

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130 West College Calculated Noise Levels - 02e Speakers

Source	Source type	Leq,d dB(A)	
Speakers Level 2	Point	-0.7	
Speakers Level 1	Point	-0.7	
Speakers Level 2	Point	-1.6	
Speakers Level 2	Point	-1.9	
Speakers Level 2	Point	-2.7	
Speakers Level 2	Point	-2.9	
Speakers Level 1	Point	-3.6	
Speakers Level 1	Point	-3.9	
Speakers Level 1	Point	-4.0	
Speakers Level 1	Point	-4.0	
Speakers Level 1	Point	-4.2	
Speakers Level 2	Point	-4.4	
Receiver R3 FI GF Leq,d 49.0 dB(A)			
Speakers Level 2	Point	45.4	
Speakers Level 1	Point	41.8	
Speakers Level 2	Point	41.5	
Speakers Level 2	Point	37.2	
Speakers Level 2	Point	35.3	
Speakers Level 4	Point	32.3	
Speakers Level 4	Point	31.6	
Speakers Level 4	Point	30.1	
Speakers Level 2	Point	29.7	
Speakers Level 1	Point	26.5	
Speakers Level 2	Point	24.9	
Speakers Level 1	Point	24.2	
Speakers Level 1	Point	23.9	
Speakers Level 2	Point	23.7	
Speakers Level 2	Point	23.0	
Speakers Level 4	Point	16.9	
Speakers Level 4	Point	16.6	
Speakers Level 4	Point	16.2	
Speakers Level 4	Point	15.2	
Speakers Level 4	Point	14.9	
Speakers Level 1	Point	14.3	
Speakers Level 1	Point	12.3	
Speakers Level 1	Point	12.1	
Speakers Level 1	Point	10.9	
Speakers Level 1	Point	10.7	
Speakers Level 1	Point	10.4	
Speakers Level 1	Point	10.3	
Speakers Level 1	Point	9.6	
Speakers Level 1	Point	9.4	
Speakers Level 1	Point	9.4	

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130 West College Calculated Noise Levels - 02e Speakers

Source	Source type	Leq,d dB(A)	
Speakers Level 1	Point	8.6	
Speakers Level 1	Point	8.5	
Speakers Level 1	Point	8.3	
Speakers Level 1	Point	6.3	
Speakers Level 1	Point	5.4	
Speakers Level 1	Point	5.1	
Speakers Level 2	Point	3.5	
Speakers Level 1	Point	3.4	
Speakers Level 2	Point	2.9	
Speakers Level 2	Point	2.7	
Speakers Level 1	Point	2.5	
Speakers Level 1	Point	2.1	
Speakers Level 2	Point	1.4	
Speakers Level 2	Point	1.4	
Speakers Level 2	Point	0.3	
Receiver R3 FI 1.FL Leq,d 51.8 dB(A)			
Speakers Level 2	Point	48.3	
Speakers Level 2	Point	44.8	
Speakers Level 2	Point	40.9	
Speakers Level 2	Point	39.3	
Speakers Level 1	Point	39.2	
Speakers Level 2	Point	37.3	
Speakers Level 2	Point	36.1	
Speakers Level 2	Point	36.1	
Speakers Level 2	Point	34.7	
Speakers Level 4	Point	32.9	
Speakers Level 4	Point	32.2	
Speakers Level 4	Point	30.6	
Speakers Level 4	Point	27.3	
Speakers Level 1	Point	27.0	
Speakers Level 4	Point	18.7	
Speakers Level 4	Point	18.6	
Speakers Level 4	Point	18.4	
Speakers Level 4	Point	18.3	
Speakers Level 1	Point	15.1	
Speakers Level 1	Point	13.7	
Speakers Level 1	Point	9.1	
Speakers Level 1	Point	8.7	
Speakers Level 1	Point	8.3	
Speakers Level 1	Point	7.9	
Speakers Level 1	Point	6.1	
Speakers Level 1	Point	5.8	
Speakers Level 2	Point	4.5	

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130 West College Calculated Noise Levels - 02e Speakers

Source	Source type	Leq,d dB(A)	
Speakers Level 2	Point	4.4	
Speakers Level 2	Point	3.9	
Speakers Level 1	Point	3.6	
Speakers Level 1	Point	3.5	
Speakers Level 2	Point	3.1	
Speakers Level 1	Point	2.8	
Speakers Level 1	Point	2.5	
Speakers Level 2	Point	2.3	
Speakers Level 2	Point	2.3	
Speakers Level 1	Point	2.3	
Speakers Level 1	Point	2.1	
Speakers Level 1	Point	1.9	
Speakers Level 1	Point	1.9	
Speakers Level 1	Point	1.3	
Speakers Level 1	Point	1.3	
Speakers Level 1	Point	0.9	
Speakers Level 1	Point	0.8	
Speakers Level 1	Point	0.6	
Receiver R4 FI GF Leq,d 46.6 dB(A)			
Speakers Level 1	Point	41.2	
Speakers Level 1	Point	40.2	
Speakers Level 1	Point	38.8	
Speakers Level 1	Point	36.8	
Speakers Level 1	Point	35.6	
Speakers Level 1	Point	34.9	
Speakers Level 1	Point	30.2	
Speakers Level 2	Point	26.9	
Speakers Level 2	Point	22.6	
Speakers Level 4	Point	22.0	
Speakers Level 2	Point	20.8	
Speakers Level 2	Point	20.1	
Speakers Level 4	Point	18.6	
Speakers Level 2	Point	16.9	
Speakers Level 2	Point	16.1	
Speakers Level 2	Point	15.9	
Speakers Level 2	Point	15.2	
Speakers Level 1	Point	15.0	
Speakers Level 4	Point	13.2	
Speakers Level 4	Point	13.1	
Speakers Level 1	Point	13.0	
Speakers Level 4	Point	12.1	
Speakers Level 1	Point	12.0	
Speakers Level 4	Point	10.8	

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Calculated Noise Levels - 02e Speakers

Source	Source type	Leq,d dB(A)	
Speakers Level 4	Point	9.9	
Speakers Level 4	Point	9.8	
Speakers Level 2	Point	7.5	
Speakers Level 1	Point	7.2	
Speakers Level 1	Point	3.2	
Speakers Level 1	Point	1.7	
Speakers Level 1	Point	1.4	
Speakers Level 1	Point	1.2	
Speakers Level 2	Point	0.4	
Speakers Level 1	Point	0.1	
Speakers Level 2	Point	0.1	
Speakers Level 1	Point	-2.7	
Speakers Level 2	Point	-3.2	
Speakers Level 2	Point	-3.8	
Speakers Level 1	Point	-4.5	
Speakers Level 1	Point	-4.8	
Speakers Level 2	Point	-4.9	
Speakers Level 1	Point	-5.3	
Speakers Level 1	Point	-5.5	
Speakers Level 1	Point	-5.5	
Speakers Level 1	Point	-5.6	
Receiver R4 FI 1.FL Leq,d 46.4 dB(A)			
Speakers Level 1	Point	40.9	
Speakers Level 1	Point	39.9	
Speakers Level 1	Point	38.5	
Speakers Level 1	Point	36.5	
Speakers Level 1	Point	35.3	
Speakers Level 1	Point	34.5	
Speakers Level 1	Point	30.3	
Speakers Level 2	Point	27.9	
Speakers Level 2	Point	27.2	
Speakers Level 2	Point	25.1	
Speakers Level 2	Point	24.4	
Speakers Level 4	Point	22.9	
Speakers Level 2	Point	22.8	
Speakers Level 2	Point	22.2	
Speakers Level 4	Point	21.9	
Speakers Level 2	Point	21.5	
Speakers Level 2	Point	21.1	
Speakers Level 4	Point	18.3	
Speakers Level 4	Point	17.9	
Speakers Level 4	Point	17.5	
Speakers Level 4	Point	17.3	

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130 West College Calculated Noise Levels - 02e Speakers

Source	Source type	Leq,d dB(A)	
Speakers Level 1	Point	14.9	
Speakers Level 1	Point	13.4	
Speakers Level 4	Point	13.3	
Speakers Level 4	Point	13.1	
Speakers Level 1	Point	11.9	
Speakers Level 2	Point	8.4	
Speakers Level 1	Point	4.6	
Speakers Level 2	Point	4.2	
Speakers Level 1	Point	2.3	
Speakers Level 1	Point	2.0	
Speakers Level 1	Point	1.2	
Speakers Level 2	Point	1.2	
Speakers Level 2	Point	1.2	
Speakers Level 1	Point	-0.4	
Speakers Level 1	Point	-0.8	
Speakers Level 2	Point	-2.0	
Speakers Level 1	Point	-2.9	
Speakers Level 2	Point	-3.3	
Speakers Level 1	Point	-4.9	
Speakers Level 1	Point	-5.3	
Speakers Level 1	Point	-5.8	
Speakers Level 1	Point	-5.9	
Speakers Level 1	Point	-6.0	
Speakers Level 1	Point	-6.0	
Receiver R5 FI GF Leq,d 56.9 dB(A)			
Speakers Level 4	Point	51.0	
Speakers Level 4	Point	50.6	
Speakers Level 4	Point	48.4	
Speakers Level 4	Point	47.9	
Speakers Level 4	Point	43.8	
Speakers Level 4	Point	43.4	
Speakers Level 4	Point	41.9	
Speakers Level 4	Point	41.6	
Speakers Level 1	Point	38.1	
Speakers Level 2	Point	37.5	
Speakers Level 1	Point	35.5	
Speakers Level 1	Point	35.3	
Speakers Level 2	Point	34.8	
Speakers Level 1	Point	34.7	
Speakers Level 1	Point	34.3	
Speakers Level 2	Point	33.8	
Speakers Level 1	Point	31.9	
Speakers Level 1	Point	31.6	

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130 West College Calculated Noise Levels - 02e Speakers

Source	Source type	Leq,d dB(A)	
Speakers Level 1	Point	30.3	
Speakers Level 2	Point	29.6	
Speakers Level 1	Point	29.1	
Speakers Level 2	Point	27.8	
Speakers Level 2	Point	27.1	
Speakers Level 1	Point	26.8	
Speakers Level 1	Point	26.7	
Speakers Level 1	Point	26.2	
Speakers Level 1	Point	24.9	
Speakers Level 2	Point	22.9	
Speakers Level 2	Point	21.6	
Speakers Level 1	Point	17.7	
Speakers Level 1	Point	11.3	
Speakers Level 1	Point	10.7	
Speakers Level 1	Point	7.7	
Speakers Level 1	Point	6.1	
Speakers Level 1	Point	5.4	
Speakers Level 2	Point	5.2	
Speakers Level 2	Point	5.2	
Speakers Level 2	Point	5.0	
Speakers Level 1	Point	4.9	
Speakers Level 1	Point	3.9	
Speakers Level 1	Point	3.4	
Speakers Level 1	Point	-0.3	
Speakers Level 2	Point	-1.4	
Speakers Level 2	Point	-2.0	
Speakers Level 2	Point	-3.3	
Receiver R5 FI 1.FL Leq,d 61.2 dB(A)			
Speakers Level 4	Point	55.5	
Speakers Level 4	Point	55.1	
Speakers Level 4	Point	52.9	
Speakers Level 4	Point	52.5	
Speakers Level 4	Point	48.5	
Speakers Level 4	Point	48.2	
Speakers Level 4	Point	46.8	
Speakers Level 4	Point	46.5	
Speakers Level 2	Point	40.2	
Speakers Level 2	Point	38.6	
Speakers Level 2	Point	36.9	
Speakers Level 1	Point	36.5	
Speakers Level 1	Point	34.3	
Speakers Level 1	Point	33.7	
Speakers Level 2	Point	33.4	

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130 West College Calculated Noise Levels - 02e Speakers

Source	Source type	Leq,d dB(A)	
Speakers Level 1	Point	33.1	
Speakers Level 1	Point	33.0	
Speakers Level 2	Point	31.2	
Speakers Level 1	Point	30.7	
Speakers Level 1	Point	30.6	
Speakers Level 1	Point	29.4	
Speakers Level 2	Point	27.5	
Speakers Level 1	Point	26.2	
Speakers Level 1	Point	26.1	
Speakers Level 1	Point	25.0	
Speakers Level 1	Point	24.7	
Speakers Level 2	Point	24.3	
Speakers Level 2	Point	23.6	
Speakers Level 1	Point	21.2	
Speakers Level 1	Point	17.7	
Speakers Level 1	Point	11.8	
Speakers Level 1	Point	6.9	
Speakers Level 1	Point	4.7	
Speakers Level 1	Point	3.3	
Speakers Level 2	Point	3.2	
Speakers Level 2	Point	2.9	
Speakers Level 2	Point	2.4	
Speakers Level 2	Point	0.8	
Speakers Level 2	Point	0.7	
Speakers Level 1	Point	0.3	
Speakers Level 1	Point	-0.9	
Speakers Level 1	Point	-1.0	
Speakers Level 1	Point	-1.6	
Speakers Level 2	Point	-1.6	
Speakers Level 1	Point	-1.9	
Receiver R6 FI GF Leq,d 38.7 dB(A)			
Speakers Level 1	Point	32.8	
Speakers Level 2	Point	29.9	
Speakers Level 2	Point	29.4	
Speakers Level 2	Point	27.4	
Speakers Level 2	Point	27.0	
Speakers Level 1	Point	27.0	
Speakers Level 1	Point	26.5	
Speakers Level 1	Point	26.0	
Speakers Level 1	Point	24.3	
Speakers Level 1	Point	24.0	
Speakers Level 1	Point	23.7	
Speakers Level 2	Point	18.5	

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130 West College Calculated Noise Levels - 02e Speakers

Source	Source type	Leq,d dB(A)	
Speakers Level 2	Point	18.1	
Speakers Level 2	Point	18.0	
Speakers Level 1	Point	17.7	
Speakers Level 1	Point	16.6	
Speakers Level 4	Point	16.5	
Speakers Level 4	Point	16.4	
Speakers Level 4	Point	10.4	
Speakers Level 4	Point	10.3	
Speakers Level 4	Point	7.9	
Speakers Level 4	Point	7.8	
Speakers Level 1	Point	6.6	
Speakers Level 4	Point	5.1	
Speakers Level 4	Point	5.1	
Speakers Level 1	Point	3.2	
Speakers Level 2	Point	2.9	
Speakers Level 1	Point	2.2	
Speakers Level 1	Point	1.8	
Speakers Level 1	Point	1.1	
Speakers Level 1	Point	1.0	
Speakers Level 1	Point	1.0	
Speakers Level 1	Point	0.9	
Speakers Level 1	Point	0.7	
Speakers Level 1	Point	0.7	
Speakers Level 1	Point	0.3	
Speakers Level 2	Point	-4.0	
Speakers Level 1	Point	-5.2	
Speakers Level 1	Point	-5.9	
Speakers Level 2	Point	-6.8	
Speakers Level 2	Point	-7.1	
Speakers Level 1	Point	-7.5	
Speakers Level 2	Point	-7.5	
Speakers Level 2	Point	-8.9	
Speakers Level 2	Point	-9.0	

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Off-Site Traffic Noise Calculations
Project: 130 West College 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
Hill Street										
- Between Bamboo Ln. and College St.	50	10	35	35	2,281	22,810	10%	0	0	73.0
- Between College St. and Alpine St.	50	10	35	35	2,199	21,990	10%	0	0	72.9
Broadway										
- Between Bamboo Ln. and College St.	60	10	35	35	2,101	21,010	10%	0	0	72.7
- Between College St. and Alpine St.	60	10	35	35	1,888	18,880	10%	0	0	72.2
Spring Street										
- Between Elmyra St. and College St.	70	10	35	35	1,550	15,500	10%	0	0	71.4
- Between College St. and Alpine St.	40	10	35	35	1,668	16,680	10%	0	0	71.7
Alameda Street										
- Between College St. and Alpine St.	90	10	35	35	1,378	13,780	10%	0	0	70.8
Main Street										
- Between Elmyra St. and College St.	50	10	35	35	1,508	15,080	10%	0	0	71.2
- Between College St. and Vignes St.	50	10	35	35	1,355	13,550	10%	0	0	70.8
College Street										
- Between Yale St. and Hill St.	40	10	35	35	792	7,920	10%	0	0	68.4
- Between Hill St. and Broadway	40	10	35	35	875	8,750	10%	0	0	68.9
- Between Broadway and Spring St.	40	10	35	35	843	8,430	10%	0	0	68.7
- Between Spring St. and Main St.	40	10	35	35	296	2,960	10%	0	0	64.2

* Estimated based on Google Earth map.

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

Off-Site Traffic Noise Calculations

Project: Angel Food 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
Hill Street										
- Between Bamboo Ln. and College St.	50	10	35	35	2,340	23,400	10%	0	0	73.1
- Between College St. and Alpine St.	50	10	35	35	2,213	22,130	10%	0	0	72.9
Broadway										
- Between Bamboo Ln. and College St.	60	10	35	35	2,107	21,070	10%	0	0	72.7
- Between College St. and Alpine St.	60	10	35	35	1,916	19,160	10%	0	0	72.3
Spring Street										
- Between Elmyra St. and College St.	70	10	35	35	1,578	15,780	10%	0	0	71.4
- Between College St. and Alpine St.	40	10	35	35	1,745	17,450	10%	0	0	71.9
Alameda Street										
- Between College St. and Alpine St.	90	10	35	35	1,441	14,410	10%	0	0	71.0
Main Street										
- Between Elmyra St. and College St.	50	10	35	35	1,537	15,370	10%	0	0	71.3
- Between College St. and Vignes St.	50	10	35	35	1,397	13,970	10%	0	0	70.9
College Street										
- Between Yale St. and Hill St.	40	10	35	35	792	7,920	10%	0	0	68.4
- Between Hill St. and Broadway	40	10	35	35	948	9,480	10%	0	0	69.2
- Between Broadway and Spring St.	40	10	35	35	952	9,520	10%	0	0	69.2
- Between Spring St. and Main St.	40	10	35	35	438	4,380	10%	0	0	65.9

* Estimated based on Google Earth map.

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

Off-Site Traffic Noise Calculations

Project: Angel Food 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
Hill Street										
- Between Bamboo Ln. and College St.	50	10	35	35	2,660	26,600	10%	0	0	73.7
- Between College St. and Alpine St.	50	10	35	35	2,475	24,750	10%	0	0	73.4
Broadway										
- Between Bamboo Ln. and College St.	60	10	35	35	2,565	25,650	10%	0	0	73.5
- Between College St. and Alpine St.	60	10	35	35	2,325	23,250	10%	0	0	73.1
Spring Street										
- Between Elmyra St. and College St.	70	10	35	35	2,330	23,300	10%	0	0	73.1
- Between College St. and Alpine St.	40	10	35	35	2,245	22,450	10%	0	0	73.0
Alameda Street										
- Between College St. and Alpine St.	90	10	35	35	1,942	19,420	10%	0	0	72.3
Main Street										
- Between Elmyra St. and College St.	50	10	35	35	1,885	18,850	10%	0	0	72.2
- Between College St. and Vignes St.	50	10	35	35	1,593	15,930	10%	0	0	71.5
College Street										
- Between Yale St. and Hill St.	40	10	35	35	882	8,820	10%	0	0	68.9
- Between Hill St. and Broadway	40	10	35	35	1,241	12,410	10%	0	0	70.4
- Between Broadway and Spring St.	40	10	35	35	1,273	12,730	10%	0	0	70.5
- Between Spring St. and Main St.	40	10	35	35	440	4,400	10%	0	0	65.9

* Estimated based on Google Earth map.

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

Off-Site Traffic Noise Calculations

Project: Angel Food 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 PLUS 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
Hill Street										
- Between Bamboo Ln. and College St.	50	10	35	35	2,719	27,190	10%	0	0	73.8
- Between College St. and Alpine St.	50	10	35	35	2,489	24,890	10%	0	0	73.4
Broadway										
- Between Bamboo Ln. and College St.	60	10	35	35	2,572	25,720	10%	0	0	73.6
- Between College St. and Alpine St.	60	10	35	35	2,353	23,530	10%	0	0	73.2
Spring Street										
- Between Elmyra St. and College St.	70	10	35	35	2,358	23,580	10%	0	0	73.2
- Between College St. and Alpine St.	40	10	35	35	2,321	23,210	10%	0	0	73.1
Alameda Street										
- Between College St. and Alpine St.	90	10	35	35	2,004	20,040	10%	0	0	72.5
Main Street										
- Between Elmyra St. and College St.	50	10	35	35	1,913	19,130	10%	0	0	72.3
- Between College St. and Vignes St.	50	10	35	35	1,636	16,360	10%	0	0	71.6
College Street										
- Between Yale St. and Hill St.	40	10	35	35	882	8,820	10%	0	0	68.9
- Between Hill St. and Broadway	40	10	35	35	1,314	13,140	10%	0	0	70.6
- Between Broadway and Spring St.	40	10	35	35	1,381	13,810	10%	0	0	70.9
- Between Spring St. and Main St.	40	10	35	35	582	5,820	10%	0	0	67.1

* Estimated based on Google Earth map.

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