

Metro TCN (AllVision) Project

Noise Calculations Worksheets

Provided by Acoustical Engineering Services

Ambient Noise Measurements



Location: R5

 Time	Leq	
 12:12:33 PM	58.2	
12:12:43 PM	57.1	
12:12:53 PM	58.3	
12:13:03 PM	59.7	
12:13:13 PM	63.8	
12:13:23 PM	62.4	
12:13:33 PM	56.5	
12:13:43 PM	60	
12:13:53 PM	54.3	
12:14:03 PM	51.1	
12:14:13 PM	49.4	
12:14:23 PM	51.9	
12:14:33 PM	51.3	
12:14:43 PM	53	
12:14:53 PM	57.1	
12:15:03 PM	59.8	
12:15:13 PM	60.3	
12:15:23 PM	58.1	
12:15:33 PM	57.9	
12:15:43 PM	62.6	
12:15:53 PM	59.7	
12:16:03 PM	64.3	
12:16:13 PM	64.5	
12:16:23 PM	68.2	
12:16:33 PM	67.2	
12:16:43 PM	57	
12:16:53 PM	53.9	
12:17:03 PM	59.4	
12:17:13 PM	55.5	
12:17:23 PM	57.5	
12:17:33 PM	58.9	
12:17:43 PM	63.8	
12:17:53 PM	59	
12:18:03 PM	55.5	
12:18:13 PM	56	
12:18:23 PM	51.6	
12:18:33 PM	58.6	
12:18:43 PM	56.7	
12:18:53 PM	53.8	
12:19:03 PM	61.3	



12:19:13 PM	51.1
12:19:23 PM	62.6
12:19:33 PM	62
12:19:43 PM	56.3
12:19:53 PM	54.7
12:20:03 PM	50.1
12:20:13 PM	52.2
12:20:23 PM	50.5
12:20:33 PM	52
12:20:43 PM	57.4
12:20:53 PM	53.8
12:21:03 PM	63.8
12:21:13 PM	64.8
12:21:23 PM	63.7
12:21:33 PM	60.4
12:21:43 PM	57
12:21:53 PM	59.3
12:22:03 PM	51.5
12:22:13 PM	52.6
12:22:23 PM	55.4
12:22:33 PM	54.6
12:22:43 PM	62.1
12:22:53 PM	58.8
12:23:03 PM	59.7
12:23:13 PM	62.1
12:23:23 PM	61.1
12:23:33 PM	61
12:23:43 PM	60.6
12:23:53 PM	68.6
12:24:03 PM	62.5
12:24:13 PM	58.6
12:24:23 PM	57.9
12:24:33 PM	52.6
12:24:43 PM	57.9
12:24:53 PM	54.4
12:25:03 PM	60.7
12:25:13 PM	56.5
12:25:23 PM	60
12:25:33 PM	64.6
12:25:43 PM	53
12:25:53 PM	50.9
12:26:03 PM	52.8
12:26:13 PM	58.2
12:26:23 PM	63.2
12:26:33 PM	58.1



	CO F	
12:27:23 PM	63.1	
12:27:13 PM	62.5	
12:27:03 PM	66.6	
12:26:53 PM	62	
12:26:43 PM	58	



Location: R7, also applied to R8, R25 and R26

Time	Leq	
11:28:24 PM	56	
11:28:34 PM	56.8	
11:28:44 PM	53.9	
11:28:54 PM	56.4	
11:29:04 PM	56.4	
11:29:14 PM	57.7	
11:29:24 PM	57.5	
11:29:34 PM	58.9	
11:29:44 PM	63.4	
11:29:54 PM	69.6	
11:30:04 PM	59.3	
11:30:14 PM	57.4	
11:30:24 PM	55.4	
11:30:34 PM	57.4	
11:30:44 PM	56.9	
11:30:54 PM	53.2	
11:31:04 PM	56.4	
11:31:14 PM	61.7	
11:31:24 PM	61.7	
11:31:34 PM	59.2	
11:31:44 PM	58.9	
11:31:54 PM	58.7	
11:32:04 PM	56.2	
11:32:14 PM	56.2	
11:32:24 PM	56.5	
11:32:34 PM	58.1	
11:32:44 PM	57.3	
11:32:54 PM	60.7	
11:33:04 PM	59.4	
11:33:14 PM	56.4	
11:33:24 PM	55.7	
11:33:34 PM	57.2	
11:33:44 PM	60.2	
11:33:54 PM	55.8	
11:34:04 PM	57.2	
11:34:14 PM	59.2	
11:34:24 PM	59.4	
11:34:34 PM	56.6	
11:34:44 PM	56.8	
11:34:54 PM	62.7	
11:35:04 PM	64.6	



11:35:14 PM	58.8
11:35:24 PM	59.1
11:35:34 PM	57.7
11:35:44 PM	61.4
11:35:54 PM	60.2
11:36:04 PM	58.5
11:36:14 PM	57.8
11:36:24 PM	59.2
11:36:34 PM	58.3
11:36:44 PM	55.5
11:36:54 PM	59.9
11:37:04 PM	59.2
11:37:14 PM	58.6
11:37:24 PM	62.3
11:37:34 PM	63.7
11:37:44 PM	57.3
11:37:54 PM	57.9
11:38:04 PM	56.9
11:38:14 PM	56.3
11:38:24 PM	59.8
11:38:34 PM	62.1
11:38:44 PM	59.9
11:38:54 PM	57.5
11:39:04 PM	56.1
11:39:14 PM	55.9
11:39:24 PM	57.5
11:39:34 PM	59.4
11:39:44 PM	58.4
11:39:54 PM	55.9
11:40:04 PM	57.5
11:40:14 PM	56.3
11:40:24 PM	53.5
11:40:34 PM	53.6
11:40:44 PM	57.2
11:40:54 PM	58.5
11:41:04 PM	59.4
11:41:14 PM	60.9
11:41:24 PM	56.7
11:41:34 PM	55.1
11:41:44 PM	58
11:41:54 PM	56.7
11:42:04 PM	58.2
11:42:14 PM	60.9
11:42:24 PM	61.8
11:42:34 PM	58.4



11:42:44 PM	57.4	
11:42:54 PM	56.2	
11:43:04 PM	57.4	
11:43:14 PM	56.2	
	59.3	
Time	Leq	
1:23:50 PM	59.4	
1:24:00 PM	60.4	
1:24:10 PM	61.2	
1:24:20 PM	63.5	
1:24:30 PM	62.5	
1:24:40 PM	63.6	
1:24:50 PM	65.1	
1:25:00 PM	63	
1:25:10 PM	63.8	
1:25:20 PM	64.4	
1:25:30 PM	63.2	
1:25:40 PM	63.7	
1:25:50 PM	61.9	
1:26:00 PM	62.2	
1:26:10 PM	60.9	
1:26:20 PM	59.6	
1:26:30 PM	59.5	
1:26:40 PM	64.3	
1:26:50 PM	61.9	
1:27:00 PM	61.5	
1:27:10 PM	63.9	
1:27:20 PM	61.6	
1:27:30 PM	64	
1:27:40 PM	62.8	
1:27:50 PM	59.4	
1:28:00 PM	58.6	
1:28:10 PM	60.9	
1:28:20 PM	63.7	
1:28:30 PM	60.5	
1:28:40 PM	60.9	
1:28:50 PM	62.2	
1:29:00 PM	60.9	
1:29:10 PM	63.8	
1:29:20 PM	62.7	
1:29:30 PM	59.9	
1:29:40 PM	59.1	
1:29:50 PM	58.9	
1:30:00 PM	59.4	



1:30:10 PM	60.4
1:30:20 PM	59.9
1:30:30 PM	65.7
1:30:40 PM	63.9
1:30:50 PM	68
1:31:00 PM	78.7
1:31:10 PM	65.4
1:31:20 PM	64.7
1:31:30 PM	64.5
1:31:40 PM	62.9
1:31:50 PM	62.2
1:32:00 PM	60.7
1:32:10 PM	61.7
1:32:20 PM	64.2
1:32:30 PM	64.1
1:32:40 PM	60.4
1:32:50 PM	62.2
1:33:00 PM	62.7
1:33:10 PM	63.6
1:33:20 PM	62.1
1:33:30 PM	60.8
1:33:40 PM	59.8
1:33:50 PM	61
1:34:00 PM	62.1
1:34:10 PM	59.8
1:34:20 PM	59.6
1:34:30 PM	65.9
1:34:40 PM	70.3
1:34:50 PM	69.7
1:35:00 PM	61.9
1:35:10 PM	62.3
1:35:20 PM	65.8
1:35:30 PM	61
1:35:40 PM	61.9
1:35:50 PM	61.4
	-
1:36:00 PM	59.5
1:36:10 PM	57.4
1:36:20 PM	58.4
1:36:30 PM	62
1:36:40 PM	65.6
1:36:50 PM	63.6
1:37:00 PM	63
1:37:10 PM	63.8
1:37:20 PM	73.9
1:37:30 PM	65.9
57.551.141	55.5



1:37:40 PM	64.6
1:37:50 PM	62.3
1:38:00 PM	62.9
1:38:10 PM	61.4
1:38:20 PM	58.5
1:38:30 PM	58.7
1:38:40 PM	60.9



Location: R10

Time	Leq	
11:15:41 AM	59.3	
11:15:51 AM	59.7	
11:16:01 AM	60.1	
11:16:11 AM	54.9	
11:16:21 AM	55.7	
11:16:31 AM	59.4	
11:16:41 AM	58	
11:16:51 AM	58.1	
11:17:01 AM	57.7	
11:17:11 AM	58.4	
11:17:21 AM	59.8	
11:17:31 AM	61.1	
11:17:41 AM	61.2	
11:17:51 AM	60.6	
11:18:01 AM	60.8	
11:18:11 AM	60.8	
11:18:21 AM	60.6	
11:18:31 AM	62.8	
11:18:41 AM	63.6	
11:18:51 AM	62.8	
11:19:01 AM	62.5	
11:19:11 AM	62.9	
11:19:21 AM	64.1	
11:19:31 AM	63.2	
11:19:41 AM	64.3	
11:19:51 AM	65.6	
11:20:01 AM	63.9	
11:20:11 AM	61.8	
11:20:21 AM	63.1	
11:20:31 AM	65.5	
11:20:41 AM	65.8	
11:20:51 AM	65.2	
11:21:01 AM	65.4	
11:21:11 AM	68.3	
11:21:21 AM	66.9	
11:21:31 AM	67.6	
11:21:41 AM	64	
11:21:51 AM	58.2	
11:22:01 AM	59.2	
11:22:11 AM	57.6	



11:22:21 AM	57.7
11:22:31 AM	58.7
11:22:41 AM	58.9
11:22:51 AM	65.1
11:23:01 AM	76.1
11:23:11 AM	64.2
11:23:21 AM	61.3
11:23:31 AM	61.5
11:23:41 AM	61.2
11:23:51 AM	62.4
11:24:01 AM	60.9
11:24:11 AM	59.4
11:24:21 AM	58.9
11:24:31 AM	57.7
11:24:41 AM	56.7
11:24:51 AM	60
11:25:01 AM	57.8
11:25:11 AM	57
11:25:21 AM	57.8
11:25:31 AM	58.6
11:25:41 AM	56.1
11:25:51 AM	56.5
11:26:01 AM	59
11:26:11 AM	57.5
11:26:21 AM	56.9
11:26:31 AM	56
11:26:41 AM	54.6
11:26:51 AM	59
11:27:01 AM	58.5
11:27:11 AM	57.7
11:27:21 AM	57.1
11:27:31 AM	56.2
11:27:41 AM	53.8
11:27:51 AM	55.1
11:28:01 AM	55
11:28:11 AM	56.4
11:28:21 AM	57.4
11:28:31 AM	54.9
11:28:41 AM	58.4
11:28:51 AM	57.8
11:29:01 AM	57.4
11:29:11 AM	58.1
11:29:21 AM	58.6
11:29:31 AM	58.8
11:29:41 AM	58



•	C2 4	
11:30:31 AM	58.9	
11:30:21 AM	58.2	
11:30:11 AM	59.4	
11:30:01 AM	56.7	
11:29:51 AM	57.9	



Location: R11

Time	Leg	
11:35:42 AM	82.7	
11:35:52 AM	74.6	
11:36:02 AM	71.7	
11:36:12 AM	73.1	
11:36:22 AM	74.1	
11:36:32 AM	64.8	
11:36:42 AM	63.3	
11:36:52 AM	61.8	
11:37:02 AM	65.3	
11:37:12 AM	69.3	
11:37:22 AM	68.7	
11:37:32 AM	71.9	
11:37:42 AM	74.4	
11:37:52 AM	71.4	
11:38:02 AM	67.2	
11:38:12 AM	61.6	
11:38:22 AM	60.9	
11:38:32 AM	65.9	
11:38:42 AM	71.3	
11:38:52 AM	73	
11:39:02 AM	69.2	
11:39:12 AM	68.7	
11:39:22 AM	68.9	
11:39:32 AM	67.9	
11:39:42 AM	62.9	
11:39:52 AM	61.1	
11:40:02 AM	67.5	
11:40:12 AM	70.4	
11:40:22 AM	72.2	
11:40:32 AM	74.7	
11:40:42 AM	75.2	
11:40:52 AM	73.7	
11:41:02 AM	68.1	
11:41:12 AM	65.1	
11:41:22 AM	60.6	
11:41:32 AM	67.6	
11:41:42 AM	68.7	
11:41:52 AM	72.6	
11:42:02 AM	73.5	
11:42:12 AM	73.5	



11:42:22 AM	71.2
11:42:32 AM	68
11:42:42 AM	66.1
11:42:52 AM	65.3
11:43:02 AM	63.8
11:43:12 AM	70.3
11:43:22 AM	70.8
11:43:32 AM	71.2
11:43:42 AM	71.4
11:43:52 AM	71.4
11:44:02 AM	69.3
11:44:12 AM	73.3
11:44:22 AM	75.2
11:44:32 AM	80.9
11:44:42 AM	78.7
11:44:52 AM	79.3
11:45:02 AM	78.5
11:45:12 AM	79.9
11:45:22 AM	74.6
11:45:32 AM	67.9
11:45:42 AM	62
11:45:52 AM	60.5
11:46:02 AM	62.8
11:46:12 AM	72.6
11:46:22 AM	74.8
11:46:32 AM	73.7
11:46:42 AM	72.2
11:46:52 AM	74.5
11:47:02 AM	69.9
11:47:12 AM	64.6
11:47:22 AM	60.1
11:47:32 AM	62.2
11:47:42 AM	67.7
11:47:52 AM	68.7
11:48:02 AM	71.8
11:48:12 AM	71.8
	73.3
11:48:22 AM	73.3 70.2
11:48:32 AM	_
11:48:42 AM	68.7
11:48:52 AM	67.2
11:49:02 AM	68.2
11:49:12 AM	70.8
11:49:22 AM	74
11:49:32 AM	73.4
11:49:42 AM	72.8



	72.6	
11:50:32 AM	66.5	
11:50:22 AM	61.5	
11:50:12 AM	61.1	
11:50:02 AM	66.6	
11:49:52 AM	74.7	



Location: R12

Time	Leq	
10:47:09 AM	56.7	
10:47:19 AM	57.3	
10:47:29 AM	57.7	
10:47:39 AM	58.3	
10:47:49 AM	58.9	
10:47:59 AM	60.9	
10:48:09 AM	60.9	
10:48:19 AM	61.2	
10:48:29 AM	57.9	
10:48:39 AM	60	
10:48:49 AM	63.6	
10:48:59 AM	60.2	
10:49:09 AM	63.1	
10:49:19 AM	60.4	
10:49:29 AM	58.9	
10:49:39 AM	60.9	
10:49:49 AM	62.2	
10:49:59 AM	65.3	
10:50:09 AM	60.2	
10:50:19 AM	63.4	
10:50:29 AM	61.9	
10:50:39 AM	59.6	
10:50:49 AM	61.8	
10:50:59 AM	61.6	
10:51:09 AM	61.6	
10:51:19 AM	64.7	
10:51:29 AM	57.8	
10:51:39 AM	54.7	
10:51:49 AM	63.9	
10:51:59 AM	55	
10:52:09 AM	53.2	
10:52:19 AM	54.1	
10:52:29 AM	57.8	
10:52:39 AM	55.3	
10:52:49 AM	60	
10:52:59 AM	57.3	
10:53:09 AM	54.5	
10:53:19 AM	63.9	
10:53:29 AM	59	
10:53:39 AM	52.4	



10:53:49 AM	54.9
10:53:59 AM	60.5
10:54:09 AM	63.2
10:54:19 AM	61.2
10:54:29 AM	67.8
10:54:39 AM	67.4
10:54:49 AM	54.4
10:54:59 AM	55.8
10:55:09 AM	54.2
10:55:19 AM	56.7
10:55:29 AM	59.8
10:55:39 AM	63.7
10:55:49 AM	64
10:55:59 AM	61.2
10:56:09 AM	59.9
10:56:19 AM	62.5
10:56:29 AM	64.6
10:56:39 AM	62
10:56:49 AM	61.5
10:56:59 AM	62
10:57:09 AM	59.4
10:57:19 AM	58.4
10:57:29 AM	61.9
10:57:39 AM	56.8
10:57:49 AM	62.4
10:57:59 AM	53.3
10:58:09 AM	54.8
10:58:19 AM	53.5
10:58:29 AM	59.8
10:58:39 AM	61.9
10:58:49 AM	64.1
10:58:59 AM	60.6
10:59:09 AM	54.4
10:59:19 AM	54.7
10:59:29 AM	59.3
10:59:39 AM	56.4
10:59:49 AM	50.4 57.3
10:59:59 AM	60.9
11:00:09 AM	63.1
11:00:19 AM	62.5
11:00:29 AM	61.3
11:00:39 AM	56.9
11:00:49 AM	55.1
11:00:59 AM	64.3
11:01:09 AM	61.4



_	60.9	
11:01:59 AM	59.9	
11:01:49 AM	61.5	
11:01:39 AM	60.7	
11:01:29 AM	59.7	
11:01:19 AM	55.1	



Location: R18

Time	Leg	
12:14:12 PM	63.5	
12:14:22 PM	64.8	
12:14:32 PM	62.8	
12:14:42 PM	63.4	
12:14:52 PM	64.7	
12:15:02 PM	64.1	
12:15:12 PM	63.9	
12:15:22 PM	63.4	
12:15:32 PM	63.1	
12:15:42 PM	62.1	
12:15:52 PM	62.4	
12:16:02 PM	63.2	
12:16:12 PM	63.7	
12:16:22 PM	62.9	
12:16:32 PM	63	
12:16:42 PM	64.3	
12:16:52 PM	63.5	
12:17:02 PM	64.3	
12:17:12 PM	64.3	
12:17:22 PM	65.3	
12:17:32 PM	63.9	
12:17:42 PM	63.3	
12:17:52 PM	61.9	
12:18:02 PM	63.4	
12:18:12 PM	65.2	
12:18:22 PM	63.4	
12:18:32 PM	63.8	
12:18:42 PM	62.8	
12:18:52 PM	63.4	
12:19:02 PM	65	
12:19:12 PM	64	
12:19:22 PM	63.6	
12:19:32 PM	64.6	
12:19:42 PM	66.5	
12:19:52 PM	63.8	
12:20:02 PM	63.6	
12:20:12 PM	63.1	
12:20:22 PM	64.3	
12:20:32 PM	65.1	
12:20:42 PM	65.9	



12:20:52 PM	64.1
12:21:02 PM	62.1
12:21:12 PM	63.2
12:21:22 PM	68.9
12:21:32 PM	62.9
12:21:42 PM	64.2
12:21:52 PM	65.1
12:22:02 PM	64.2
12:22:12 PM	65.4
12:22:22 PM	62.7
12:22:32 PM	62.3
12:22:42 PM	61.2
12:22:52 PM	60.9
12:23:02 PM	61.4
12:23:12 PM	62.3
12:23:22 PM	67.2
12:23:32 PM	63.6
12:23:42 PM	63.1
12:23:52 PM	61.4
12:24:02 PM	63
12:24:12 PM	62.9
12:24:22 PM	63.8
12:24:32 PM	64.8
12:24:42 PM	62.7
12:24:52 PM	63.8
12:25:02 PM	71.3
12:25:12 PM	69.7
12:25:22 PM	66.2
12:25:32 PM	64.4
12:25:42 PM	64.4
12:25:52 PM	64.7
12:26:02 PM	63.4
12:26:12 PM	64.2
12:26:22 PM	64.8
12:26:32 PM	63
12:26:42 PM	63.5
12:26:52 PM	62.2
12:27:02 PM	63
12:27:12 PM	63.7
12:27:22 PM	63.5
12:27:32 PM	62.5
12:27:42 PM	64.7
12:27:52 PM	62.3
12:28:02 PM	60.7
12:28:12 PM	61.9



	64.3	
12:29:02 PM	63.4	
12:28:52 PM	63.7	
12:28:42 PM	63.4	
12:28:32 PM	62.4	
12:28:22 PM	60.8	



Location: R19

	Time	Leq	
12:37:4	44 PM	59.9	
12:37:	54 PM	60.2	
12:38:0	04 PM	61	
12:38:	14 PM	60.9	
12:38:2	24 PM	57.7	
12:38:3	34 PM	58.9	
12:38:4	44 PM	62.6	
12:38:	54 PM	62.1	
12:39:0	04 PM	62.7	
12:39:	14 PM	62	
12:39:2	24 PM	62.7	
12:39:3	34 PM	59	
12:39:4	44 PM	61.5	
12:39:	54 PM	61	
12:40:0	04 PM	62.2	
12:40:	14 PM	62.1	
12:40:2	24 PM	62.1	
12:40:3	34 PM	64.4	
12:40:4	44 PM	63.7	
12:40:	54 PM	62.6	
12:41:0	04 PM	59.2	
12:41:	14 PM	59.8	
12:41:2	24 PM	62.1	
12:41:3	34 PM	62.7	
12:41:4	44 PM	59.5	
12:41:	54 PM	62.6	
12:42:0	04 PM	61.8	
12:42:	14 PM	63.5	
12:42:2	24 PM	63.6	
12:42:3	34 PM	61.3	
12:42:4	44 PM	63	
12:42:	54 PM	61.7	
12:43:0	04 PM	63.7	
12:43:	14 PM	61.4	
12:43:2	24 PM	60.2	
12:43:	34 PM	63	
12:43:4	44 PM	59.8	
12:43:	54 PM	60.9	
12:44:0	04 PM	62.6	
12:44:	14 PM	63.3	



12:44:24 PM	62.5
12:44:34 PM	63.7
12:44:44 PM	62.5
12:44:54 PM	61.9
12:45:04 PM	64.3
12:45:14 PM	59.8
12:45:24 PM	61.2
12:45:34 PM	60.4
12:45:44 PM	64.3
12:45:54 PM	62.9
12:46:04 PM	61.5
12:46:14 PM	62.4
12:46:24 PM	62.3
12:46:34 PM 12:46:44 PM	63.9
	61.5
12:46:54 PM	61.4
12:47:04 PM	62.8
12:47:14 PM	61.9
12:47:24 PM	62.8
12:47:34 PM	62.7
12:47:44 PM	62
12:47:54 PM	64.3
12:48:04 PM	61.3
12:48:14 PM	60.7
12:48:24 PM	64.9
12:48:34 PM	62.4
12:48:44 PM	60.5
12:48:54 PM	62.3
12:49:04 PM	64.8
12:49:14 PM	63.7
12:49:24 PM	62.4
12:49:34 PM	60.5
12:49:44 PM	60
12:49:54 PM	61.1
12:50:04 PM	63
12:50:14 PM	62.1
12:50:24 PM	60.4
12:50:34 PM	61.5
12:50:44 PM	61.4
12:50:54 PM	59.5
12:51:04 PM	62.4
12:51:14 PM	61.7
12:51:24 PM	62.5
12:51:34 PM	63.6
12:51:44 PM	61.2



	62.2	
12:52:34 PM	59.9	
12:52:24 PM	62.6	
12:52:14 PM	63.2	
12:52:04 PM	63.7	
12:51:54 PM	63.3	



Location: R20, also applied to R21

Time	Leq	
10:11:58 AM	61.2	
10:12:08 AM	61.3	
10:12:18 AM	61.3	
10:12:28 AM	62.1	
10:12:38 AM	61.8	
10:12:48 AM	61.5	
10:12:58 AM	62	
10:13:08 AM	60.9	
10:13:18 AM	60.3	
10:13:28 AM	61.9	
10:13:38 AM	62.3	
10:13:48 AM	62.7	
10:13:58 AM	61.3	
10:14:08 AM	61	
10:14:18 AM	62.9	
10:14:28 AM	59.9	
10:14:38 AM	76.5	
10:14:48 AM	77.8	
10:14:58 AM	62.2	
10:15:08 AM	62.2	
10:15:18 AM	60.9	
10:15:28 AM	62.9	
10:15:38 AM	63.8	
10:15:48 AM	60.8	
10:15:58 AM	62.1	
10:16:08 AM	60.6	
10:16:18 AM	60.7	
10:16:28 AM	63.4	
10:16:38 AM	63.5	
10:16:48 AM	61.2	
10:16:58 AM	62.1	
10:17:08 AM	60.3	
10:17:18 AM	61.2	
10:17:28 AM	59.8	
10:17:38 AM	60	
10:17:48 AM	60.3	
10:17:58 AM	61.4	
10:18:08 AM	60.8	
10:18:18 AM	61.1	
10:18:28 AM	60.5	
10:18:38 AM	59.1	



10:18:48 AM	59.5
10:18:58 AM	59.9
10:19:08 AM	60.4
10:19:18 AM	61.2
10:19:28 AM	64.5
10:19:38 AM	63.4
10:19:48 AM	60.8
10:19:58 AM	61.4
10:20:08 AM	60.6
10:20:18 AM	62.6
10:20:28 AM	63
10:20:38 AM	61.4
10:20:48 AM	62
10:20:58 AM	62.2
10:21:08 AM	61.2
10:21:18 AM	64.6
10:21:28 AM	62.8
10:21:38 AM	62.2
10:21:48 AM	62.1
10:21:58 AM	60.2
10:22:08 AM	60.6
10:22:18 AM	60.8
10:22:28 AM	60.5
10:22:38 AM	61.1
10:22:48 AM	61.2
10:22:58 AM	61
10:23:08 AM	61.3
10:23:18 AM	58.7
10:23:28 AM	60.6
10:23:38 AM	60.6
10:23:48 AM	70.6
10:23:58 AM	71.3
10:24:08 AM	61.8
10:24:18 AM	63.4
10:24:28 AM	61.5
10:24:38 AM	62.1
10:24:48 AM	63
10:24:58 AM	60.9
10:25:08 AM	66.6
10:25:18 AM	61.2
10:25:28 AM	60.4
10:25:38 AM	61.3
10:25:48 AM	61.3
10:25:58 AM	60.5
10:26:08 AM	61.5
10.20.00 AIVI	51.5



10:26:18 AM	60.8	
10:26:28 AM	60.7	
10:26:38 AM	61.9	
10:26:48 AM	72.9	
	64.9	
Time	Leq	
10:15:08 PM	58.8	
10:15:18 PM	57.2	
10:15:28 PM	57.8	
10:15:38 PM	57.7	
10:15:48 PM	58.1	
10:15:58 PM	61.4	
10:16:08 PM	59.8	
10:16:18 PM	60.1	
10:16:28 PM	59.9	
10:16:38 PM	59.5	
10:16:48 PM	59.3	
10:16:58 PM	59.3	
10:17:08 PM	61	
10:17:18 PM	58.7	
10:17:28 PM	58.7	
10:17:38 PM	59.2	
10:17:48 PM	57.7	
10:17:58 PM	57.2	
10:18:08 PM	58.1	
10:18:18 PM	61	
10:18:28 PM	62.2	
10:18:38 PM	64.9	
10:18:48 PM	63.7	
10:18:58 PM	60.2	
10:19:08 PM	56.3	
10:19:18 PM	58.8	
10:19:28 PM	60.7	
10:19:38 PM	61.4	
10:19:48 PM	60.2	
10:19:58 PM	60.7	
10:20:08 PM	59.9	
10:20:18 PM	59.3	
10:20:28 PM	61.2	
10:20:38 PM	60	
10:20:48 PM	60.7	
10:20:58 PM	61.6	
10:21:08 PM	59.4	
10:21:18 PM	60.7	



10:21:28 PM	61.6
10:21:38 PM	62
10:21:48 PM	61.8
10:21:58 PM	60.9
10:22:08 PM	60.6
10:22:18 PM	60.2
10:22:28 PM	60.3
10:22:38 PM	60.4
10:22:48 PM	61.6
10:22:58 PM	61.5
10:23:08 PM	59.9
10:23:18 PM	57.8
10:23:28 PM	60
10:23:38 PM	60
10:23:48 PM	59.4
10:23:58 PM	59.6
10:24:08 PM	59.9
10:24:18 PM	60
10:24:28 PM	62.3
10:24:38 PM	61.4
10:24:48 PM	59.8
10:24:58 PM	60.9
10:25:08 PM	62.5
10:25:18 PM	56.4
10:25:28 PM	55.1
10:25:38 PM	58.7
10:25:48 PM	58.2
10:25:58 PM	57.6
10:26:08 PM	58.8
10:26:18 PM	57.3
10:26:28 PM	58.4
10:26:38 PM	61.4
10:26:48 PM	60
10:26:58 PM	58.7
10:27:08 PM	59.8
10:27:18 PM	57.6
10:27:28 PM	57.9
10:27:38 PM	56.8
10:27:48 PM	59.1
10:27:58 PM	57.5
10:28:08 PM	59.5
10:28:18 PM	60.2
10:28:28 PM	60.2
10:28:38 PM	61.2
10:28:48 PM	56.6



10:28:58 PM	59.5
10:29:08 PM	58.3
10:29:18 PM	58.4
10:29:28 PM	60.4
10:29:38 PM	61.4
10:29:48 PM	62.8
10:29:58 PM	59.5



Location: R22

Time	Log	
11:37:32 AM	Leq 62.7	
11:37:42 AM	62.7	
11:37:42 AW 11:37:52 AM	63.1	
11:37:32 AW 11:38:02 AM	64.1	
11:38:02 AW 11:38:12 AM	64.1	
11:38:22 AM	68.7	
11:38:32 AM	66	
11:38:42 AM	63.2	
11:38:52 AM	65.8	
11:39:02 AM	68.4	
11:39:02 AW	62.8	
11:39:12 AM	63.2	
11:39:32 AM	62.4	
11:39:42 AM	62.4	
11:39:52 AM	62.9	
11:40:02 AM	61	
11:40:12 AM	63.9	
11:40:22 AM	68.5	
11:40:32 AM	63.3	
11:40:42 AM	66.5	
11:40:52 AM	66.3	
11:41:02 AM	68.4	
11:41:12 AM	65	
11:41:22 AM	64.8	
11:41:32 AM	63.2	
11:41:42 AM	62.3	
11:41:52 AM	61.4	
11:42:02 AM	66.5	
11:42:12 AM	67.5	
11:42:22 AM	67.3	
11:42:32 AM	63.9	
11:42:42 AM	65.7	
11:42:52 AM	65.8	
11:43:02 AM	62.9	
11:43:12 AM	62.4	
11:43:22 AM	62.5	
11:43:32 AM	65	
11:43:42 AM	62.9	
11:43:52 AM	63.1	
11:44:02 AM	62.1	



44 44 42 484	62.0
11:44:12 AM	62.9
11:44:22 AM	62.3
11:44:32 AM	64
11:44:42 AM	68.3
11:44:52 AM	64.7
11:45:02 AM	66.7
11:45:12 AM	65.9
11:45:22 AM	66.6
11:45:32 AM	64.7
11:45:42 AM	64.9
11:45:52 AM	63.2
11:46:02 AM	63.9
11:46:12 AM	64.5
11:46:22 AM	66.2
11:46:32 AM	65.5
11:46:42 AM	67.7
11:46:52 AM	62.8
11:47:02 AM	65.4
11:47:12 AM	67.1
11:47:22 AM	72.3
11:47:32 AM	70.4
11:47:42 AM	67
11:47:52 AM	64.8
11:48:02 AM	65
11:48:12 AM	65.5
11:48:22 AM	65.6
11:48:32 AM	65.6
11:48:42 AM	68.5
11:48:52 AM	62.6
11:49:02 AM	64.5
11:49:12 AM	68.3
11:49:22 AM	63.1
11:49:32 AM	63.7
11:49:42 AM	63.4
11:49:52 AM	63.1
11:50:02 AM	63.3
11:50:12 AM	64.4
11:50:22 AM	62.8
11:50:32 AM	65.2
11:50:42 AM	68.1
11:50:52 AM	62.5
11:51:02 AM	68.6
11:51:02 AM	69.6
11:51:12 AM	67.3
11:51:32 AM	65.9
11.J1.J2 AIVI	05.5



	65.6	
11:52:22 AM	64.4	
11:52:12 AM	64.6	
11:52:02 AM	64.4	
11:51:52 AM	65.8	
11:51:42 AM	63.5	



Location: R24

Time	Leq	
9:21:11 AM	59.6	
9:21:21 AM	58.4	
9:21:31 AM	60.7	
9:21:41 AM	60.2	
9:21:51 AM	61.3	
9:22:01 AM	59.9	
9:22:11 AM	61.2	
9:22:21 AM	61.4	
9:22:31 AM	62.1	
9:22:41 AM	60.7	
9:22:51 AM	60.6	
9:23:01 AM	60.6	
9:23:11 AM	61.7	
9:23:21 AM	61.8	
9:23:31 AM	60.7	
9:23:41 AM	61.7	
9:23:51 AM	60.7	
9:24:01 AM	61.8	
9:24:11 AM	62.4	
9:24:21 AM	62.6	
9:24:31 AM	59.9	
9:24:41 AM	61.6	
9:24:51 AM	59	
9:25:01 AM	60	
9:25:11 AM	60.6	
9:25:21 AM	61.9	
9:25:31 AM	61.5	
9:25:41 AM	59.9	
9:25:51 AM	60	
9:26:01 AM	59.2	
9:26:11 AM	60.7	
9:26:21 AM	62.6	
9:26:31 AM	62.5	
9:26:41 AM	62.1	
9:26:51 AM	59.7	
9:27:01 AM	60.9	
9:27:11 AM	62	
9:27:21 AM	60.8	
9:27:31 AM	60.4	
9:27:41 AM	61.1	



9:27:51 AM	61.2
9:28:01 AM	59.8
9:28:11 AM	61.3
9:28:21 AM	60.4
9:28:31 AM	60.7
9:28:41 AM	60.9
9:28:51 AM	60.4
9:29:01 AM	60.2
9:29:11 AM	61.4
9:29:21 AM	60.4
9:29:31 AM	60.8
9:29:41 AM	60.6
9:29:51 AM	60.3
9:30:01 AM	60.8
9:30:11 AM	60.7
9:30:21 AM	60.9
9:30:31 AM	59.9
9:30:41 AM	57.4
9:30:51 AM	59.4
9:31:01 AM	60
9:31:11 AM	63.3
9:31:21 AM	62.2
9:31:31 AM	63.9
9:31:41 AM	69.5
9:31:51 AM	65.1
9:32:01 AM	60.6
9:32:11 AM	60
9:32:21 AM	61.5
9:32:31 AM	61.6
9:32:41 AM	61.6
9:32:51 AM	60.2
9:33:01 AM	60.5
9:33:11 AM	60.6
9:33:21 AM	60.4
9:33:31 AM	60.7
9:33:41 AM	67.5
9:33:51 AM	61.4
9:34:01 AM	60.7
9:34:11 AM	61.2
9:34:21 AM	60.5
9:34:31 AM	62
9:34:41 AM	61.7
9:34:51 AM	60.5
9:35:01 AM	60.3
9:35:11 AM	59.1



	C1 F	
9:36:01 AM	61.8	
9:35:51 AM	62.6	
9:35:41 AM	61.4	
9:35:31 AM	61.5	
9:35:21 AM	59.4	



Location: R27

Date: 7/13/2022

Time	Leq	
10:58:35 PM	59.3	
10:58:45 PM	59.9	
10:58:55 PM	61.2	
10:59:05 PM	61.9	
10:59:15 PM	60.4	
10:59:25 PM	65.4	
10:59:35 PM	62.4	
10:59:45 PM	61.6	
10:59:55 PM	59.8	
11:00:05 PM	64.8	
11:00:15 PM	59.5	
11:00:25 PM	60	
11:00:35 PM	60.9	
11:00:45 PM	59.8	
11:00:55 PM	60.8	
11:01:05 PM	61	
11:01:15 PM	61.1	
11:01:25 PM	61	
11:01:35 PM	74.8	
11:01:45 PM	64.9	
11:01:55 PM	62.5	
11:02:05 PM	60.9	
11:02:15 PM	62.1	
11:02:25 PM	61.7	
11:02:35 PM	60	
11:02:45 PM	64.2	
11:02:55 PM	61.3	
11:03:05 PM	60.6	
11:03:15 PM	59.8	
11:03:25 PM	63.1	
11:03:35 PM	60.8	
11:03:45 PM	57.8	
11:03:55 PM	59.7	
11:04:05 PM	63.7	
11:04:15 PM	62.5	
11:04:25 PM	58.8	
11:04:35 PM	59.5	
11:04:45 PM	59.7	
11:04:55 PM	61.3	
11:05:05 PM	61.9	
11:05:15 PM	60.7	



11:05:25 PM	59.9
11:05:35 PM	60.6
11:05:45 PM	59.3
11:05:55 PM	60.3
11:06:05 PM	60.2
11:06:15 PM	62.2
11:06:25 PM	59.1
11:06:35 PM	58.5
11:06:45 PM	59.5
11:06:55 PM	59.6
11:07:05 PM	61.4
11:07:15 PM	60.2
11:07:25 PM	59
11:07:35 PM	61.2
11:07:45 PM	60.2
11:07:55 PM	60.3
11:08:05 PM	62.6
11:08:15 PM	63.6
11:08:25 PM	59.3
11:08:35 PM	62.9
11:08:45 PM	59.6
11:08:55 PM	61.3
11:09:05 PM	60.8
11:09:15 PM	59.9
11:09:25 PM	59.2
11:09:35 PM	60.9
11:09:45 PM	60.4
11:09:55 PM	59.9
11:10:05 PM	59.9
11:10:15 PM	59.8
11:10:25 PM	60.9
11:10:35 PM	60.6
11:10:45 PM	60.9
11:10:55 PM	60.6
11:11:05 PM	60.4
11:11:15 PM	59.4
11:11:25 PM	58.6
11:11:35 PM	59.8
11:11:45 PM	61.9
11:11:55 PM	60.3
11:12:05 PM	61.8
11:12:05 FM	59.9
11:12:15 PM	64.5
11:12:35 PM	61.2
	61.7
11:12:45 PM	01./



11:12:55 PM	67.4	
11:13:05 PM	61.3	
11:13:15 PM	71.1	
11:13:25 PM	79.2	
	64.3	
Time	Leq	
12:54:04 PM	59.1	
12:54:14 PM	63.5	
12:54:24 PM	60.8	
12:54:34 PM	60.3	
12:54:44 PM	65.8	
12:54:54 PM	67.6	
12:55:04 PM	66.1	
12:55:14 PM	64	
12:55:24 PM	64.6	
12:55:34 PM	61.2	
12:55:44 PM	61.2	
12:55:54 PM	61.4	
12:56:04 PM	61.5	
12:56:14 PM	61	
12:56:24 PM	62.1	
12:56:34 PM	63.1	
12:56:44 PM	61	
12:56:54 PM	69.7	
12:57:04 PM	66.1	
12:57:14 PM	63.2	
12:57:24 PM	66.9	
12:57:34 PM	59.1	
12:57:44 PM	59.2	
12:57:54 PM	60.9	
12:58:04 PM	59.5	
12:58:14 PM	61.7	
12:58:24 PM	70.8	
12:58:34 PM	72.8	
12:58:44 PM	65.4	
12:58:54 PM	61.9	
12:59:04 PM	62.6	
12:59:14 PM	64	
12:59:24 PM	64.5	
12:59:34 PM	62.1	
12:59:44 PM	62.9	
12:59:54 PM	62.4	
1:00:04 PM	63.5	
1:00:14 PM	64.7	



1:00:24 PM	63.7
1:00:34 PM	62
1:00:44 PM	64.8
1:00:54 PM	64.5
1:01:04 PM	71.6
1:01:14 PM	62.8
1:01:24 PM	64.3
1:01:34 PM	61.3
1:01:44 PM	63
1:01:54 PM	64.1
1:02:04 PM	61.7
1:02:14 PM	61.3
1:02:24 PM	62.2
1:02:34 PM	61.2
1:02:44 PM	63.2
1:02:54 PM	63.4
1:03:04 PM	61.3
1:03:14 PM	65.7
1:03:24 PM	61.9
1:03:34 PM	64.5
1:03:44 PM	60.8
1:03:54 PM	63.5
1:04:04 PM	61.5
1:04:14 PM	60.5
1:04:24 PM	61.7
1:04:34 PM	58.1
1:04:44 PM	58.4
1:04:54 PM	65.1
1:05:04 PM	63.2
1:05:14 PM	65.9
1:05:24 PM	65.5
1:05:34 PM	76.5
1:05:44 PM	80.8
1:05:54 PM	73.6
1:06:04 PM	62.7
1:06:14 PM	59.4
1:06:24 PM	65.1
1:06:34 PM	60.5
1:06:44 PM	61
1:06:54 PM	59.5
1:07:04 PM	63.9
1:07:14 PM	66.7
1:07:24 PM	60
1:07:34 PM	60.5
1:07:44 PM	59.9



		_
1:08:54 P	M 63	.9
1:08:44 P	M 73	.7
1:08:34 P	M 67	.6
1:08:24 P	M 66	.4
1:08:14 P	M 62	.9
1:08:04 P	M 59	.6
1:07:54 P	M 59	.6

66.9

Construction Noise Calculations



Construction Phase: Grading/Excavation

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Tractor/Loader/Backhoe	1	79	40%	250	15
	1				

Receptor: 1 (Receptor R1)

Results:

1-hour Leq: 46.0



Construction Phase: Building Foundations

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Bore/Drill Rig	1	84	20%	250	15
Cement and Mortar Mixer	1	80	50%	250	15
Concrete/Industrial Saws	1	90	20%	275	15
Water Truck	1	82	10%	275	15

4

Receptor: 1 (Receptor R1)

Results:

1-hour Leq: 55.5



Construction Phase: Construction

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Trenchers	1	80	50%	250	15
Cranes (mobile)	1	81	16%	250	15
Rubber Tired Loaders	1	79	40%	275	15
Welders	1	74	40%	275	15
Welders	1	74	40%	300	15
Aerial Lift	1	75	20%	300	15
Tractor/Loader/Backhoe	1	79	40%	325	15

7

Receptor: 1 (Receptor R1)

Results:

1-hour Leq: 52.3



Construction Phase: Paving

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Paving Equipment	1	77	50%	250	15

Receptor: 1 (Receptor R1)

Results:

1-hour Leq: 45.0



Construction Phase: Grading/Excavation

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Tractor/Loader/Backhoe	1	79	40%	245	0
	4				

Receptor: 2 (Receptor R2)

Results:

1-hour Leq: 61.2



Construction Phase: Building Foundations

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Bore/Drill Rig	1	84	20%	245	0
Cement and Mortar Mixer	1	80	50%	245	0
Concrete/Industrial Saws	1	90	20%	270	0
Water Truck	1	82	10%	270	0
	Bore/Drill Rig Cement and Mortar Mixer Concrete/Industrial Saws	DescriptionEquip.Bore/Drill Rig1Cement and Mortar Mixer1Concrete/Industrial Saws1	DescriptionEquip.50ft, LmaxBore/Drill Rig184Cement and Mortar Mixer180Concrete/Industrial Saws190	DescriptionNo. of Equip.Noise Level at 50ft, LmaxAcoustical Usage FactorBore/Drill Rig18420%Cement and Mortar Mixer18050%Concrete/Industrial Saws19020%	DescriptionNo. of Equip.Noise Level at 50ft, LmaxAcoustical Usage FactorDistance to Receptor, ftBore/Drill Rig18420%245Cement and Mortar Mixer18050%245Concrete/Industrial Saws19020%270

4

Receptor: 2 (Receptor R2)

Results:

1-hour Leq: 70.6



Construction Phase: Construction

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Trenchers	1	80	50%	245	0
Cranes (mobile)	1	81	16%	245	0
Rubber Tired Loaders	1	79	40%	270	0
Welders	1	74	40%	270	0
Welders	1	74	40%	295	0
Aerial Lift	1	75	20%	295	0
Tractor/Loader/Backhoe	1	79	40%	320	0

7

Receptor: 2 (Receptor R2)

Results:

1-hour Leq: 67.5



Construction Phase: Paving

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Paving Equipment	1	77	50%	245	0

Receptor: 2 (Receptor R2)

Results:

1-hour Leq: 60.2



Construction Phase: Grading/Excavation

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Tractor/Loader/Backhoe	1	79	40%	300	0

Receptor: 3 (Receptor R3)

Results:

1-hour Leq: 59.5



Construction Phase: Building Foundations

Equipment

	No. of	Reference Noise Level at	Acoustical	Distance to	Estimated Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Bore/Drill Rig	1	84	20%	300	0
Cement and Mortar Mixer	1	80	50%	300	0
Concrete/Industrial Saws	1	90	20%	325	0
Water Truck	1	82	10%	325	0

4

Receptor: 3 (Receptor R3)

Results:

1-hour Leq: 69.0



Construction Phase: Construction

Equipment

	No. of	Reference Noise Level at	Acoustical	Distance to	Estimated Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Trenchers	1	80	50%	300	0
Cranes (mobile)	1	81	16%	300	0
Rubber Tired Loaders	1	79	40%	325	0
Welders	1	74	40%	325	0
Welders	1	74	40%	350	0
Aerial Lift	1	75	20%	350	0
Tractor/Loader/Backhoe	1	79	40%	375	0

Receptor: 3 (Receptor R3)

Results:

1-hour Leq: 65.8



Construction Phase: Paving

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Paving Equipment	1	77	50%	300	0

Receptor: 3 (Receptor R3)

Results:

1-hour Leq: 58.4



Construction Phase: Grading/Excavation

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Tractor/Loader/Backhoe	1	79	40%	220	0
	4				

Receptor: 4 (Receptor R4)

Results:

1-hour Leq: 62.2



Construction Phase: Building Foundations

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Bore/Drill Rig	1	84	20%	220	0
Cement and Mortar Mixer	1	80	50%	220	0
Concrete/Industrial Saws	1	90	20%	245	0
Water Truck	1	82	10%	245	0

4

Receptor: 4 (Receptor R4)

Results:

1-hour Leq: 71.5



Construction Phase: Construction

Equipment

	No. of	Reference Noise Level at	Acoustical	Distance to	Estimated Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Trenchers	1	80	50%	220	0
Cranes (mobile)	1	81	16%	220	0
Rubber Tired Loaders	1	79	40%	245	0
Welders	1	74	40%	245	0
Welders	1	74	40%	270	0
Aerial Lift	1	75	20%	270	0
Tractor/Loader/Backhoe	1	79	40%	295	0

4 (Receptor R4)

Results:

Receptor:

1-hour Leq: 68.3



Construction Phase: Paving

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Paving Equipment	1	77	50%	220	0

Receptor: 4 (Receptor R4)

Results:

1-hour Leq: 61.1



Construction Phase: Grading/Excavation

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Tractor/Loader/Backhoe	1	79	40%	260	0
	1				

Receptor: 5 (Receptor R5)

Results:

1-hour Leq: 60.7



Construction Phase: Building Foundations

Equipment

	No. of	Reference Noise Level at	Acoustical	Distance to	Estimated Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Bore/Drill Rig	1	84	20%	260	0
Cement and Mortar Mixer	1	80	50%	260	0
Concrete/Industrial Saws	1	90	20%	285	0
Water Truck	1	82	10%	285	0

4

Receptor: 5 (Receptor R5)

Results:

1-hour Leq: 70.1



Construction Phase: Construction

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Trenchers	1	80	50%	260	0
Cranes (mobile)	1	81	16%	260	0
Rubber Tired Loaders	1	79	40%	285	0
Welders	1	74	40%	285	0
Welders	1	74	40%	310	0
Aerial Lift	1	75	20%	310	0
Tractor/Loader/Backhoe	1	79	40%	335	0

7

Receptor: 5 (Receptor R5)

Results:

1-hour Leq: 67.0



Construction Phase: Paving

Equipment

	Reference			Estimated
No. of	Noise Level at	Acoustical	Distance to	Noise
Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
1	77	50%	260	0
	Equip.	No. of Noise Level at Equip. 50ft, Lmax	No. of Noise Level at Acoustical Equip. 50ft, Lmax Usage Factor	No. of Noise Level at Acoustical Distance to Equip. 50ft, Lmax Usage Factor Receptor, ft

Receptor: 5 (Receptor R5)

Results:

1-hour Leq: 59.7



Construction Phase: Grading/Excavation

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Tractor/Loader/Backhoe	1	79	40%	485	0

Receptor: 6 (Receptor R6)

Results:

1-hour Leq: 55.3



Construction Phase: Building Foundations

Equipment

		No. of	Reference Noise Level at	Acoustical	Distance to	Estimated Noise
	Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
E	Bore/Drill Rig	1	84	20%	485	0
(Cement and Mortar Mixer	1	80	50%	485	0
(Concrete/Industrial Saws	1	90	20%	510	0
٧	Water Truck	1	82	10%	510	0

4

Receptor: 6 (Receptor R6)

Results:

1-hour Leq: 65.0



Construction Phase: Construction

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Trenchers	1	80	50%	485	0
Cranes (mobile)	1	81	16%	485	0
Rubber Tired Loaders	1	79	40%	510	0
Welders	1	74	40%	510	0
Welders	1	74	40%	535	0
Aerial Lift	1	75	20%	535	0
Tractor/Loader/Backhoe	1	79	40%	560	0

7

Receptor: 6 (Receptor R6)

Results:

1-hour Leq: 61.9



Construction Phase: Paving

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Paving Equipment	1	77	50%	485	0

Receptor: 6 (Receptor R6)

Results:

1-hour Leq: 54.3



Construction Phase: Grading/Excavation

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Tractor/Loader/Backhoe	1	79	40%	300	0

Receptor: 7 (Receptor R7)

Results:

1-hour Leq: 59.5



Construction Phase: Building Foundations

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%	300	0
Cement and Mortar Mixer	1	80	50%	300	0
Concrete/Industrial Saws	1	90	20%	325	0
Water Truck	1	82	10%	325	0

4

Receptor: 7 (Receptor R7)

Results:

1-hour Leq: 69.0



Construction Phase: Construction

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Trenchers	1	80	50%	300	0
Cranes (mobile)	1	81	16%	300	0
Rubber Tired Loaders	1	79	40%	325	0
Welders	1	74	40%	325	0
Welders	1	74	40%	350	0
Aerial Lift	1	75	20%	350	0
Tractor/Loader/Backhoe	1	79	40%	375	0

7

Receptor: 7 (Receptor R7)

Results:

1-hour Leq: 65.8



Construction Phase: Paving

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Paving Equipment	1	77	50%	300	0

Receptor: 7 (Receptor R7)

Results:

1-hour Leq: 58.4



Construction Phase: Grading/Excavation

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Tractor/Loader/Backhoe	1	79	40%	140	15
	4				

Receptor: 8 (Receptor R8)

Results:

1-hour Leq: 51.1



Construction Phase: Building Foundations

Equipment

	No. of	Reference Noise Level at	Acoustical	Distance to	Estimated Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Bore/Drill Rig	1	84	20%	140	15
Cement and Mortar Mixer	1	80	50%	140	15
Concrete/Industrial Saws	1	90	20%	165	15
Water Truck	1	82	10%	165	15

4

Receptor: 8 (Receptor R8)

Results:

1-hour Leq: 60.1



Construction Phase: Construction

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Trenchers	1	80	50%	140	15
Cranes (mobile)	1	81	16%	140	15
Rubber Tired Loaders	1	79	40%	165	15
Welders	1	74	40%	165	15
Welders	1	74	40%	190	15
Aerial Lift	1	75	20%	190	15
Tractor/Loader/Backhoe	1	79	40%	215	15

7

Receptor: 8 (Receptor R8)

Results:

1-hour Leq: 56.9



Construction Phase: Paving

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Paving Equipment	1	77	50%	140	15

Receptor: 8 (Receptor R8)

Results:

1-hour Leq: 50.0



Construction Phase: Grading/Excavation

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Tractor/Loader/Backhoe	1	79	40%	355	0
	4				

Receptor: 9 (Receptor R9)

Results:

1-hour Leq: 58.0



Construction Phase: Building Foundations

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Bore/Drill Rig	1	84	20%	355	0
Cement and Mortar Mixer	1	80	50%	355	0
Concrete/Industrial Saws	1	90	20%	380	0
Water Truck	1	82	10%	380	0

4

Receptor: 9 (Receptor R9)

Results:

1-hour Leq: 67.6



Construction Phase: Construction

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Trenchers	1	80	50%	355	0
Cranes (mobile)	1	81	16%	355	0
Rubber Tired Loaders	1	79	40%	380	0
Welders	1	74	40%	380	0
Welders	1	74	40%	405	0
Aerial Lift	1	75	20%	405	0
Tractor/Loader/Backhoe	1	79	40%	430	0

Receptor: 9 (Receptor R9)

Results:

1-hour Leq: 64.5



Construction Phase: Paving

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Paving Equipment	1	77	50%	355	0
	4				

Receptor: 9 (Receptor R9)

Results:

1-hour Leq: 57.0



Construction Phase: Grading/Excavation

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Tractor/Loader/Backhoe	1	79	40%	275	0

Receptor: 10 (Receptor R10)

Results:

1-hour Leq: 60.2



Construction Phase: Building Foundations

Equipment

	No. of	Reference Noise Level at	Acoustical	Distance to	Estimated Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Bore/Drill Rig	1	84	20%	275	0
Cement and Mortar Mixer	1	80	50%	275	0
Concrete/Industrial Saws	1	90	20%	300	0
Water Truck	1	82	10%	300	0

4

Receptor: 10 (Receptor R10)

Results:

1-hour Leq: 69.7



Construction Phase: Construction

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Trenchers	1	80	50%	275	0
Cranes (mobile)	1	81	16%	275	0
Rubber Tired Loaders	1	79	40%	300	0
Welders	1	74	40%	300	0
Welders	1	74	40%	325	0
Aerial Lift	1	75	20%	325	0
Tractor/Loader/Backhoe	1	79	40%	350	0

7

Receptor: 10 (Receptor R10)

Results:

1-hour Leq: 66.5



Construction Phase: Paving

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Paving Equipment	1	77	50%	275	0

Receptor: 10 (Receptor R10)

Results:

1-hour Leq: 59.2



Construction Phase: Grading/Excavation

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Tractor/Loader/Backhoe	1	79	40%	240	0

Receptor: 11 (Receptor R11)

Results:

1-hour Leq: 61.4



Construction Phase: Building Foundations

Equipment

	No. of	Reference Noise Level at	Acoustical	Distance to	Estimated Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Bore/Drill Rig	1	84	20%	240	0
Cement and Mortar Mixer	1	80	50%	240	0
Concrete/Industrial Saws	1	90	20%	265	0
Water Truck	1	82	10%	265	0

4

Receptor: 11 (Receptor R11)

Results:

1-hour Leq: 70.8



Construction Phase: Construction

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Trenchers	1	80	50%	240	0
Cranes (mobile)	1	81	16%	240	0
Rubber Tired Loaders	1	79	40%	265	0
Welders	1	74	40%	265	0
Welders	1	74	40%	290	0
Aerial Lift	1	75	20%	290	0
Tractor/Loader/Backhoe	1	79	40%	315	0

7

Receptor: 11 (Receptor R11)

Results:

1-hour Leq: 67.6



Construction Phase: Paving

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Paving Equipment	1	77	50%	240	0

Receptor: 11 (Receptor R11)

Results:

1-hour Leq: 60.4



Construction Phase: Grading/Excavation

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Tractor/Loader/Backhoe	1	79	40%	205	0

Receptor: 12 (Receptor R12)

Results:

1-hour Leq: 62.8



Construction Phase: Building Foundations

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Bore/Drill Rig	1	84	20%	205	0
Cement and Mortar Mixer	1	80	50%	205	0
Concrete/Industrial Saws	1	90	20%	230	0
Water Truck	1	82	10%	230	0

4

Receptor: 12 (Receptor R12)

Results:

1-hour Leq: 72.1



Construction Phase: Construction

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Trenchers	1	80	50%	205	0
Cranes (mobile)	1	81	16%	205	0
Rubber Tired Loaders	1	79	40%	230	0
Welders	1	74	40%	230	0
Welders	1	74	40%	255	0
Aerial Lift	1	75	20%	255	0
Tractor/Loader/Backhoe	1	79	40%	280	0

7

Receptor: 12 (Receptor R12)

Results:

1-hour Leq: 68.9



Construction Phase: Paving

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Paving Equipment	1	77	50%	205	0

Receptor: 12 (Receptor R12)

Results:

1-hour Leq: 61.7



Construction Phase: Grading/Excavation

Equipment

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

Receptor: 30 (Receptor R12B)

Results:

1-hour Leq: 74.2



Construction Phase: Building Foundations

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Bore/Drill Rig	1	84	20%	55	0
Cement and Mortar Mixer	1	80	50%	55	0
Concrete/Industrial Saws	1	90	20%	80	0
Water Truck	1	82	10%	80	0

4

Receptor: 30 (Receptor R12B)

Results:

1-hour Leq: 82.2



Construction Phase: Construction

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Trenchers	1	80	50%	55	0
Cranes (mobile)	1	81	16%	55	0
Rubber Tired Loaders	1	79	40%	80	0
Welders	1	74	40%	80	0
Welders	1	74	40%	105	0
Aerial Lift	1	75	20%	105	0
Tractor/Loader/Backhoe	1	79	40%	130	0

7

Receptor: 30 (Receptor R12B)

Results:

1-hour Leq: 79.2



Construction Phase: Paving

Equipment

	Reference			Estimated
No. of	Noise Level at	Acoustical	Distance to	Noise
Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
1	77	50%	55	0
	Equip.	No. of Noise Level at Equip. 50ft, Lmax	No. of Noise Level at Acoustical Equip. 50ft, Lmax Usage Factor	No. of Noise Level at Acoustical Distance to Equip. 50ft, Lmax Usage Factor Receptor, ft

Receptor: 30 (Receptor R12B)

Results:

1-hour Leq: 73.2



Construction Phase: Grading/Excavation

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Tractor/Loader/Backhoe	1	79	40%	165	0

Receptor: 13 (Receptor R13)

Results:

1-hour Leq: 64.7



Construction Phase: Building Foundations

Equipment

	No. of	Reference Noise Level at	Acoustical	Distance to	Estimated Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Bore/Drill Rig	1	84	20%	165	0
Cement and Mortar Mixer	1	80	50%	165	0
Concrete/Industrial Saws	1	90	20%	190	0
Water Truck	1	82	10%	190	0

4

Receptor: 13 (Receptor R13)

Results:

1-hour Leq: 73.8



Construction Phase: Construction

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Trenchers	1	80	50%	165	0
Cranes (mobile)	1	81	16%	165	0
Rubber Tired Loaders	1	79	40%	190	0
Welders	1	74	40%	190	0
Welders	1	74	40%	215	0
Aerial Lift	1	75	20%	215	0
Tractor/Loader/Backhoe	1	79	40%	240	0

7

Receptor: 13 (Receptor R13)

Results:

1-hour Leq: 70.6



Construction Phase: Paving

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Paving Equipment	1	77	50%	165	0

Receptor: 13 (Receptor R13)

Results:

1-hour Leq: 63.6



Construction Phase: Grading/Excavation

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Tractor/Loader/Backhoe	1	79	40%	315	0

Receptor: 14 (Receptor R14)

Results:

1-hour Leq: 59.0



Construction Phase: Building Foundations

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Bore/Drill Rig	1	84	20%	315	0
Cement and Mortar Mixer	1	80	50%	315	0
Concrete/Industrial Saws	1	90	20%	340	0
Water Truck	1	82	10%	340	0

4

Receptor: 14 (Receptor R14)

Results:

1-hour Leq: 68.6



Construction Phase: Construction

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Trenchers	1	80	50%	315	0
Cranes (mobile)	1	81	16%	315	0
Rubber Tired Loaders	1	79	40%	340	0
Welders	1	74	40%	340	0
Welders	1	74	40%	365	0
Aerial Lift	1	75	20%	365	0
Tractor/Loader/Backhoe	1	79	40%	390	0

7

Receptor: 14 (Receptor R14)

Results:

1-hour Leq: 65.4



Construction Phase: Paving

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Paving Equipment	1	77	50%	315	0

Receptor: 14 (Receptor R14)

Results:

1-hour Leq: 58.0



Construction Phase: Grading/Excavation

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Tractor/Loader/Backhoe	1	79	40%	150	0

Receptor: 15 (Receptor R15)

Results:

1-hour Leq: 65.5



Construction Phase: Building Foundations

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%	150	0
Cement and Mortar Mixer	1	80	50%	150	0
Concrete/Industrial Saws	1	90	20%	175	0
Water Truck	1	82	10%	175	0

4

Receptor: 15 (Receptor R15)

Results:

1-hour Leq: 74.6



Construction Phase: Construction

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Trenchers	1	80	50%	150	0
Cranes (mobile)	1	81	16%	150	0
Rubber Tired Loaders	1	79	40%	175	0
Welders	1	74	40%	175	0
Welders	1	74	40%	200	0
Aerial Lift	1	75	20%	200	0
Tractor/Loader/Backhoe	1	79	40%	225	0

7

Receptor: 15 (Receptor R15)

Results:

1-hour Leq: 71.4



Construction Phase: Paving

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Paving Equipment	1	77	50%	150	0
	1				

Receptor: 15 (Receptor R15)

Results:

1-hour Leq: 64.4



Construction Phase: Grading/Excavation

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Tractor/Loader/Backhoe	1	79	40%	285	0

Receptor: 16 (Receptor R16)

Results:

1-hour Leq: 59.9



Construction Phase: Building Foundations

Equipment

	No. of	Reference Noise Level at	Acoustical	Distance to	Estimated Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Bore/Drill Rig	1	84	20%	285	0
Cement and Mortar Mixer	1	80	50%	285	0
Concrete/Industrial Saws	1	90	20%	310	0
Water Truck	1	82	10%	310	0

4

Receptor: 16 (Receptor R16)

Results:

1-hour Leq: 69.4



Construction Phase: Construction

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Trenchers	1	80	50%	285	0
Cranes (mobile)	1	81	16%	285	0
Rubber Tired Loaders	1	79	40%	310	0
Welders	1	74	40%	310	0
Welders	1	74	40%	335	0
Aerial Lift	1	75	20%	335	0
Tractor/Loader/Backhoe	1	79	40%	360	0

7

Receptor: 16 (Receptor R16)

Results:

1-hour Leq: 66.3



Construction Phase: Paving

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Paving Equipment	1	77	50%	285	0
	1				

Receptor: 16 (Receptor R16)

Results:

1-hour Leq: 58.9



Construction Phase: Grading/Excavation

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Tractor/Loader/Backhoe	1	79	40%	280	0

Receptor: 17 (Receptor R17)

Results:

1-hour Leq: 60.1



Construction Phase: Building Foundations

Equipment

	No. of	Reference Noise Level at	Acoustical	Distance to	Estimated Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Bore/Drill Rig	1	84	20%	280	0
Cement and Mortar Mixer	1	80	50%	280	0
Concrete/Industrial Saws	1	90	20%	305	0
Water Truck	1	82	10%	305	0

4

Receptor: 17 (Receptor R17)

Results:

1-hour Leq: 69.5



Construction Phase: Construction

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Trenchers	1	80	50%	280	0
Cranes (mobile)	1	81	16%	280	0
Rubber Tired Loaders	1	79	40%	305	0
Welders	1	74	40%	305	0
Welders	1	74	40%	330	0
Aerial Lift	1	75	20%	330	0
Tractor/Loader/Backhoe	1	79	40%	355	0

7

Receptor: 17 (Receptor R17)

Results:

1-hour Leq: 66.4



Construction Phase: Paving

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Paving Equipment	1	77	50%	280	0

Receptor: 17 (Receptor R17)

Results:

1-hour Leq: 59.0



Construction Phase: Grading/Excavation

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Tractor/Loader/Backhoe	1	79	40%	300	0

Receptor: 18 (Receptor R18)

Results:

1-hour Leq: 59.5



Construction Phase: Building Foundations

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%	300	0
Cement and Mortar Mixer	1	80	50%	300	0
Concrete/Industrial Saws	1	90	20%	325	0
Water Truck	1	82	10%	325	0

4

Receptor: 18 (Receptor R18)

Results:

1-hour Leq: 69.0



Construction Phase: Construction

Equipment

	No. of	Reference Noise Level at	Acoustical	Distance to	Estimated Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Trenchers	1	80	50%	300	0
Cranes (mobile)	1	81	16%	300	0
Rubber Tired Loaders	1	79	40%	325	0
Welders	1	74	40%	325	0
Welders	1	74	40%	350	0
Aerial Lift	1	75	20%	350	0
Tractor/Loader/Backhoe	1	79	40%	375	0

7

Receptor: 18 (Receptor R18)

Results:

1-hour Leq: 65.8



Construction Phase: Paving

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Paving Equipment	1	77	50%	300	0

Receptor: 18 (Receptor R18)

Results:

1-hour Leq: 58.4



Construction Phase: Grading/Excavation

Equipment

Noise Level at	Acoustical	D!-1 1-	
	Accusticui	Distance to	Noise
50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
79	40%	395	0
	50ft, Lmax	50ft, Lmax Usage Factor	50ft, Lmax Usage Factor Receptor, ft

Receptor: 19 (Receptor R19)

Results:

1-hour Leq: 57.1



Construction Phase: Building Foundations

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%	395	0
Cement and Mortar Mixer	1	80	50%	395	0
Concrete/Industrial Saws	1	90	20%	420	0
Water Truck	1	82	10%	420	0

4

Receptor: 19 (Receptor R19)

Results:

1-hour Leq: 66.7



Construction Phase: Construction

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Trenchers	1	80	50%	395	0
Cranes (mobile)	1	81	16%	395	0
Rubber Tired Loaders	1	79	40%	420	0
Welders	1	74	40%	420	0
Welders	1	74	40%	445	0
Aerial Lift	1	75	20%	445	0
Tractor/Loader/Backhoe	1	79	40%	470	0

7

Receptor: 19 (Receptor R19)

Results:

1-hour Leq: 63.6



Construction Phase: Paving

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Paving Equipment	1	77	50%	395	0

Receptor: 19 (Receptor R19)

Results:

1-hour Leq: 56.0



Construction Phase: Grading/Excavation

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Tractor/Loader/Backhoe	1	79	40%	270	0

Receptor: 20 (Receptor R20)

Results:

1-hour Leq: 60.4



Construction Phase: Building Foundations

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%	270	0
Cement and Mortar Mixer	1	80	50%	270	0
Concrete/Industrial Saws	1	90	20%	295	0
Water Truck	1	82	10%	295	0

4

Receptor: 20 (Receptor R20)

Results:

1-hour Leq: 69.8



Construction Phase: Construction

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Trenchers	1	80	50%	270	0
Cranes (mobile)	1	81	16%	270	0
Rubber Tired Loaders	1	79	40%	295	0
Welders	1	74	40%	295	0
Welders	1	74	40%	320	0
Aerial Lift	1	75	20%	320	0
Tractor/Loader/Backhoe	1	79	40%	345	0

7

Receptor: 20 (Receptor R20)

Results:

1-hour Leq: 66.7



Construction Phase: Paving

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Paving Equipment	1	77	50%	270	0

Receptor: 20 (Receptor R20)

Results:

1-hour Leq: 59.3



Construction Phase: Grading/Excavation

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Tractor/Loader/Backhoe	1	79	40%	390	5

Receptor: 21 (Receptor R21)

Results:

1-hour Leq: 52.2



Construction Phase: Building Foundations

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Bore/Drill Rig	1	84	20%	390	5
Cement and Mortar Mixer	1	80	50%	390	5
Concrete/Industrial Saws	1	90	20%	415	5
Water Truck	1	82	10%	415	5

4

Receptor: 21 (Receptor R21)

Results:

1-hour Leq: 61.8



Construction Phase: Construction

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Trenchers	1	80	50%	390	5
Cranes (mobile)	1	81	16%	390	5
Rubber Tired Loaders	1	79	40%	415	5
Welders	1	74	40%	415	5
Welders	1	74	40%	440	5
Aerial Lift	1	75	20%	440	5
Tractor/Loader/Backhoe	1	79	40%	465	5

7

Receptor: 21 (Receptor R21)

Results:

1-hour Leq: 58.7



Construction Phase: Paving

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Paving Equipment	1	77	50%	390	5

Receptor: 21 (Receptor R21)

Results:

1-hour Leq: 51.1



Construction Phase: Grading/Excavation

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Tractor/Loader/Backhoe	1	79	40%	280	0

Receptor: 22 (Receptor R22)

Results:

1-hour Leq: 60.1



Construction Phase: Building Foundations

Equipment

	No. of	Reference Noise Level at	Acoustical	Distance to	Estimated Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Bore/Drill Rig	1	84	20%	280	0
Cement and Mortar Mixer	1	80	50%	280	0
Concrete/Industrial Saws	1	90	20%	305	0
Water Truck	1	82	10%	305	0

4

Receptor: 22 (Receptor R22)

Results:

1-hour Leq: 69.5



Construction Phase: Construction

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Trenchers	1	80	50%	280	0
Cranes (mobile)	1	81	16%	280	0
Rubber Tired Loaders	1	79	40%	305	0
Welders	1	74	40%	305	0
Welders	1	74	40%	330	0
Aerial Lift	1	75	20%	330	0
Tractor/Loader/Backhoe	1	79	40%	355	0

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Receptor: 22 (Receptor R22)

Results:

1-hour Leq: 66.4



Construction Phase: Paving

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Paving Equipment	1	77	50%	280	0

Receptor: 22 (Receptor R22)

Results:

1-hour Leq: 59.0



Construction Phase: Grading/Excavation

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Tractor/Loader/Backhoe	1	79	40%	580	0

Receptor: 23 (Receptor R23)

Results:

1-hour Leq: 53.7



Construction Phase: Building Foundations

Equipment

		No. of	Reference Noise Level at	Acoustical	Distance to	Estimated Noise
[Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
E	Bore/Drill Rig	1	84	20%	580	0
(Cement and Mortar Mixer	1	80	50%	580	0
(Concrete/Industrial Saws	1	90	20%	605	0
١	Water Truck	1	82	10%	605	0

4

Receptor: 23 (Receptor R23)

Results:

1-hour Leq: 63.5



Construction Phase: Construction

Equipment

Parasitation.	No. of	Reference Noise Level at	Acoustical	Distance to	Estimated Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Trenchers	1	80	50%	580	0
Cranes (mobile)	1	81	16%	580	0
Rubber Tired Loaders	1	79	40%	605	0
Welders	1	74	40%	605	0
Welders	1	74	40%	630	0
Aerial Lift	1	75	20%	630	0
Tractor/Loader/Backhoe	1	79	40%	655	0

7

Receptor: 23 (Receptor R23)

Results:

1-hour Leq: 60.4



Construction Phase: Paving

Equipment

	Reference			Estimated
No. of	Noise Level at	Acoustical	Distance to	Noise
Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
1	77	50%	580	0
	Equip.	No. of Noise Level at Equip. 50ft, Lmax	No. of Noise Level at Acoustical Equip. 50ft, Lmax Usage Factor	No. of Noise Level at Acoustical Distance to Equip. 50ft, Lmax Usage Factor Receptor, ft

Receptor: 23 (Receptor R23)

Results:

1-hour Leq: 52.7



Construction Phase: Grading/Excavation

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Tractor/Loader/Backhoe	1	79	40%	320	15
	4				

Receptor: 24 (Receptor R24)

Results:

1-hour Leq: 43.9



Construction Phase: Building Foundations

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Bore/Drill Rig	1	84	20%	320	15
Cement and Mortar Mixer	1	80	50%	320	15
Concrete/Industrial Saws	1	90	20%	345	15
Water Truck	1	82	10%	345	15

4

Receptor: 24 (Receptor R24)

Results:

1-hour Leq: 53.4



Construction Phase: Construction

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Trenchers	1	80	50%	320	15
Cranes (mobile)	1	81	16%	320	15
Rubber Tired Loaders	1	79	40%	345	15
Welders	1	74	40%	345	15
Welders	1	74	40%	370	15
Aerial Lift	1	75	20%	370	15
Tractor/Loader/Backhoe	1	79	40%	395	15

7

Receptor: 24 (Receptor R24)

Results:

1-hour Leq: 50.3



Construction Phase: Paving

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Paving Equipment	1	77	50%	320	15

Receptor: 24 (Receptor R24)

Results:

1-hour Leq: 42.9



Construction Phase: Grading/Excavation

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Tractor/Loader/Backhoe	1	79	40%	280	0

Receptor: 25 (Receptor R25)

Results:

1-hour Leq: 60.1



Construction Phase: Building Foundations

Equipment

	No. of	Reference Noise Level at	Acoustical	Distance to	Estimated Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Bore/Drill Rig	1	84	20%	280	0
Cement and Mortar Mixer	1	80	50%	280	0
Concrete/Industrial Saws	1	90	20%	305	0
Water Truck	1	82	10%	305	0

4

Receptor: 25 (Receptor R25)

Results:

1-hour Leq: 69.5



Construction Phase: Construction

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Trenchers	1	80	50%	280	0
Cranes (mobile)	1	81	16%	280	0
Rubber Tired Loaders	1	79	40%	305	0
Welders	1	74	40%	305	0
Welders	1	74	40%	330	0
Aerial Lift	1	75	20%	330	0
Tractor/Loader/Backhoe	1	79	40%	355	0

7

Receptor: 25 (Receptor R25)

Results:

1-hour Leq: 66.4



Construction Phase: Paving

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Paving Equipment	1	77	50%	280	0
	1				

Receptor: 25 (Receptor R25)

Results:

1-hour Leq: 59.0



Construction Phase: Grading/Excavation

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Tractor/Loader/Backhoe	1	79	40%	155	15

Receptor: 26 (Receptor R26)

Results:

1-hour Leq: 50.2



Construction Phase: Building Foundations

Equipment

	No. of	Reference Noise Level at	Acoustical	Distance to	Estimated Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Bore/Drill Rig	1	84	20%	155	15
Cement and Mortar Mixer	1	80	50%	155	15
Concrete/Industrial Saws	1	90	20%	180	15
Water Truck	1	82	10%	180	15

4

Receptor: 26 (Receptor R26)

Results:

1-hour Leq: 59.3



Construction Phase: Construction

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
		<u> </u>			
Trenchers	1	80	50%	155	15
Cranes (mobile)	1	81	16%	155	15
Rubber Tired Loaders	1	79	40%	180	15
Welders	1	74	40%	180	15
Welders	1	74	40%	205	15
Aerial Lift	1	75	20%	205	15
Tractor/Loader/Backhoe	1	79	40%	230	15

7

Receptor: 26 (Receptor R26)

Results:

1-hour Leq: 56.1



Construction Phase: Paving

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Paving Equipment	1	77	50%	155	15

Receptor: 26 (Receptor R26)

Results:

1-hour Leq: 49.2



Construction Phase: Grading/Excavation

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Tractor/Loader/Backhoe	1	79	40%	145	0
	4				

Receptor: 27 (Receptor R27)

Results:

1-hour Leq: 65.8



Construction Phase: Building Foundations

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Bore/Drill Rig	1	84	20%	145	0
Cement and Mortar Mixer	1	80	50%	145	0
Concrete/Industrial Saws	1	90	20%	170	0
Water Truck	1	82	10%	170	0

4

Receptor: 27 (Receptor R27)

Results:

1-hour Leq: 74.9



Construction Phase: Construction

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Trenchers	1	80	50%	145	0
Cranes (mobile)	1	81	16%	145	0
Rubber Tired Loaders	1	79	40%	170	0
Welders	1	74	40%	170	0
Welders	1	74	40%	195	0
Aerial Lift	1	75	20%	195	0
Tractor/Loader/Backhoe	1	79	40%	220	0

7

Receptor: 27 (Receptor R27)

Results:

1-hour Leq: 71.7



Construction Phase: Paving

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Paving Equipment	1	77	50%	145	0

Receptor: 27 (Receptor R27)

Results:

1-hour Leq: 64.7



Construction Phase: Grading/Excavation

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Tractor/Loader/Backhoe	1	79	40%	30	0

Receptor: 28 (Receptor R28)

Results:

1-hour Leq: 79.5



Construction Phase: Building Foundations

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%	30	0
Cement and Mortar Mixer	1	80	50%	30	0
Concrete/Industrial Saws	1	90	20%	55	0
Water Truck	1	82	10%	55	0

4

Receptor: 28 (Receptor R28)

Results:

1-hour Leq: 86.6



Construction Phase: Construction

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Trenchers	1	80	50%	30	0
Cranes (mobile)	1	81	16%	30	0
Rubber Tired Loaders	1	79	40%	55	0
Welders	1	74	40%	55	0
Welders	1	74	40%	80	0
Aerial Lift	1	75	20%	80	0
Tractor/Loader/Backhoe	1	79	40%	105	0

7

Receptor: 28 (Receptor R28)

Results:

1-hour Leq: 83.9



Construction Phase: Paving

Equipment

	Reference			Estimated
No. of	Noise Level at	Acoustical	Distance to	Noise
Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
1	77	50%	30	0
	Equip.	No. of Noise Level at Equip. 50ft, Lmax	No. of Noise Level at Acoustical Equip. 50ft, Lmax Usage Factor	No. of Noise Level at Acoustical Distance to Equip. 50ft, Lmax Usage Factor Receptor, ft

Receptor: 28 (Receptor R28)

Results:

1-hour Leq: 78.4



Construction Phase: Grading/Excavation

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Tractor/Loader/Backhoe	1	79	40%	190	15
	4				

Receptor: 29 (Receptor R29)

Results:

1-hour Leq: 48.4



Construction Phase: Building Foundations

Equipment

	No. of	Reference Noise Level at	Acoustical	Distance to	Estimated Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Bore/Drill Rig	1	84	20%	190	15
Cement and Mortar Mixer	1	80	50%	190	15
Concrete/Industrial Saws	1	90	20%	215	15
Water Truck	1	82	10%	215	15

4

Receptor: 29 (Receptor R29)

Results:

1-hour Leq: 57.7



Construction Phase: Construction

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Trenchers	1	80	50%	190	15
Cranes (mobile)	1	81	16%	190	15
Rubber Tired Loaders	1	79	40%	215	15
Welders	1	74	40%	215	15
Welders	1	74	40%	240	15
Aerial Lift	1	75	20%	240	15
Tractor/Loader/Backhoe	1	79	40%	265	15

1

Receptor: 29 (Receptor R29)

Results:

1-hour Leq: 54.5



Construction Phase: Paving

Equipment

		Reference			Estimated
	No. of	Noise Level at	Acoustical	Distance to	Noise
Description	Equip.	50ft, Lmax	Usage Factor	Receptor, ft	Shielding, dBA
Paving Equipment	1	77	50%	190	15
	4				

Receptor: 29 (Receptor R29)

Results:

1-hour Leq: 47.4



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

Table 1. Construction Equ		Estimated Vibration Levels at nearest off-site building structures (distance in feet), PP						
	Reference Vibration Levels at 25	Historic Building						
Equipment	ft., PPV	25						
Large Bulldozer	0.089	0.089						
Caisson Drilling	0.089	0.089						
Loaded Trucks	0.076	0.076						
Jackhammer	0.035	0.035						
Small bulldozer	0.003	0.003						
Significance	Threshold, PPV	0.12						

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

	Reference	Estimated Vibration Levels at Off-Site Receptors (at note distance i						
	Vibration Levels at 25	R12B	R28	Zyndera Studios				
Equipment	ft., VdB	55	30	140				
Large Bulldozer	87	76.7	84.6	64.6				
Caisson Drilling	87	76.7	84.6	64.6				
Loaded Trucks	86	75.7	83.6	63.6				
Jackhammer	79	68.7	76.6	56.6				
Small bulldozer	58	47.7	55.6	35.6				
Significance	Threshold, VdB	72	72	65				

OFF-SITE CONSTRUCTION HAUL TRUCKS

Table 3: Off-Site Haul Trucks - Building Damage

	Reference Vibration		Estimat	ed Vibration L	evels at noted	distance in fe	et, PPV	
Equipment	Levels at 50 ft., PPV	25						
Typical road surface	0.00565	0.016						
Significance ³	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

	Reference Vibration		Estimat	ed Vibration L	evels at noted	distance in fe	et, VdB	
Equipment	Levels at 50 ft., VdB	25						
Typical road surface	63	72						
Significance Threshold, VdB		72						

Ref. Levels based on FTA Figure 7-3