Appendix G

Noise Calculation Worksheets

East End Studios ADLA Project

Noise Calculations Worksheets

Provided by Acoustical Engineering Services

Ambient Noise Measurements

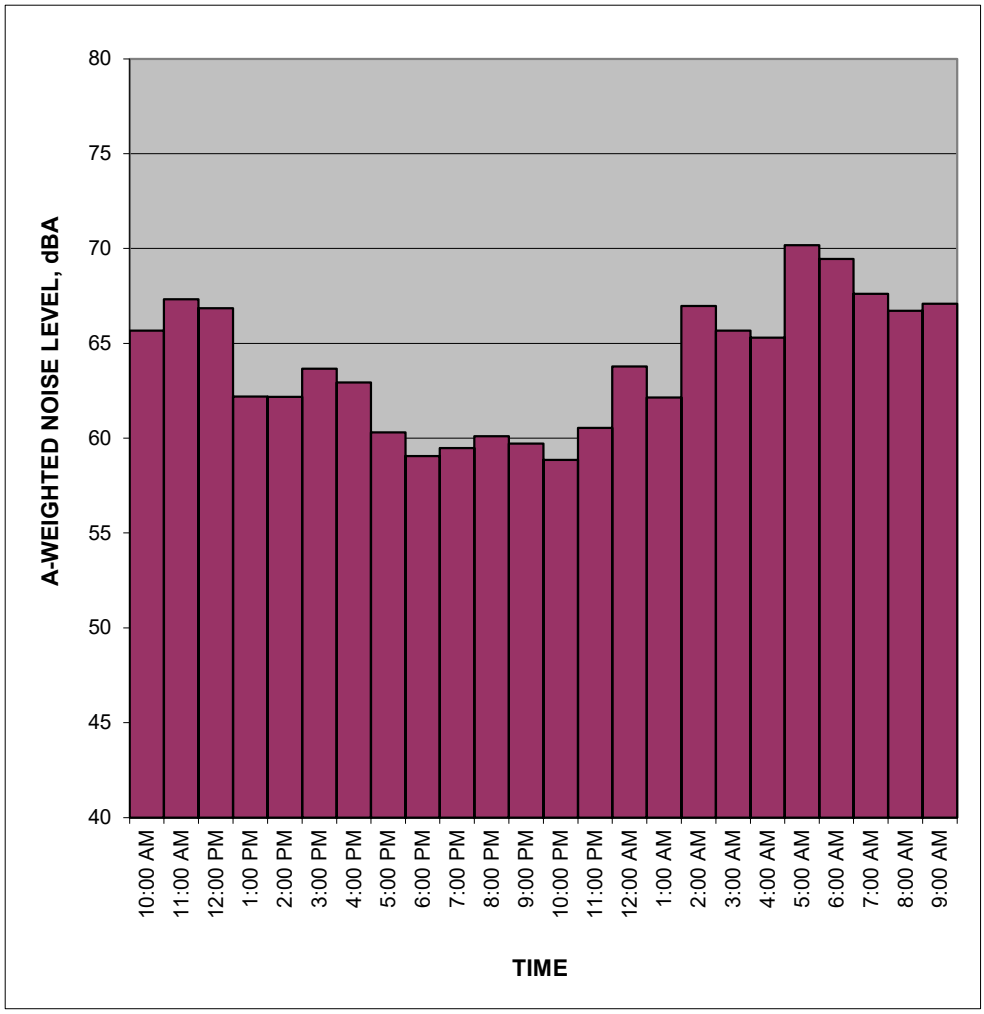
Measured Ambient Noise Levels

AES
Acoustical Engineering Services

Project: East End Studios
Location: R6
Sources: Ambient

Date: 5/31 - 6/01/2023

TIME	HNL, dB(A)
10:00 AM	65.7
11:00 AM	67.3
12:00 PM	66.9
1:00 PM	62.2
2:00 PM	62.2
3:00 PM	63.7
4:00 PM	62.9
5:00 PM	60.3
6:00 PM	59.0
7:00 PM	59.5
8:00 PM	60.1
9:00 PM	59.7
10:00 PM	58.9
11:00 PM	60.5
12:00 AM	63.8
1:00 AM	62.1
2:00 AM	67.0
3:00 AM	65.7
4:00 AM	65.3
5:00 AM	70.2
6:00 AM	69.5
7:00 AM	67.6
8:00 AM	66.7
9:00 AM	67.1
CNEL, dB(A):	**72.4**



NOTES:

Daytime average	64.5	dBA Leq
Nighttime average	66.2	dBA Leq

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project
Location: R1
Date: 5/31/2023

Time	Leq
10:13:52 AM	66.7
10:14:02 AM	67.6
10:14:12 AM	73.7
10:14:22 AM	72.9
10:14:32 AM	66.7
10:14:42 AM	65.7
10:14:52 AM	67.6
10:15:02 AM	77
10:15:12 AM	68.2
10:15:22 AM	67.5
10:15:32 AM	64.6
10:15:42 AM	69.6
10:15:52 AM	68.7
10:16:02 AM	70.1
10:16:12 AM	69.3
10:16:22 AM	70.4
10:16:32 AM	73.3
10:16:42 AM	73.6
10:16:52 AM	72.6
10:17:02 AM	74.7
10:17:12 AM	75.5
10:17:22 AM	70.1
10:17:32 AM	67.6
10:17:42 AM	68.3
10:17:52 AM	62.9
10:18:02 AM	65.6
10:18:12 AM	68.1
10:18:22 AM	69.8
10:18:32 AM	70.2
10:18:42 AM	71.6
10:18:52 AM	76.7
10:19:02 AM	69.6
10:19:12 AM	63.4
10:19:22 AM	64.1
10:19:32 AM	70.7
10:19:42 AM	73.4
10:19:52 AM	68.3
10:20:02 AM	68.4
10:20:12 AM	65
10:20:22 AM	68.6
10:20:32 AM	67.1
10:20:42 AM	64.7
10:20:52 AM	68

10:21:02 AM	66.8
10:21:12 AM	69.1
10:21:22 AM	70.8
10:21:32 AM	67.4
10:21:42 AM	70.1
10:21:52 AM	69.7
10:22:02 AM	65.3
10:22:12 AM	65.7
10:22:22 AM	66.4
10:22:32 AM	71.2
10:22:42 AM	74.1
10:22:52 AM	72.4
10:23:02 AM	70.1
10:23:12 AM	71.1
10:23:22 AM	69.4
10:23:32 AM	65.3
10:23:42 AM	69.6
10:23:52 AM	69.5
10:24:02 AM	66.6
10:24:12 AM	71.8
10:24:22 AM	71.5
10:24:32 AM	75.2
10:24:42 AM	76.8
10:24:52 AM	72.1
10:25:02 AM	67.3
10:25:12 AM	66.8
10:25:22 AM	69.4
10:25:32 AM	76.6
10:25:42 AM	68
10:25:52 AM	76.7
10:26:02 AM	74.9
10:26:12 AM	73.8
10:26:22 AM	69.8
10:26:32 AM	66.8
10:26:42 AM	66
10:26:52 AM	68.7
10:27:02 AM	69.4
10:27:12 AM	73
10:27:22 AM	76.3
10:27:32 AM	64.9
10:27:42 AM	72.9
10:27:52 AM	73.1
10:28:02 AM	70.1
10:28:12 AM	63.8
10:28:22 AM	66.8
10:28:32 AM	72.7
10:28:42 AM	69.2
	71.1

AES
ACOUSTICAL ENGINEERING SERVICES

Time	Leq
10:01:40 PM	59.7
10:01:50 PM	58.6
10:02:00 PM	61.8
10:02:10 PM	62.5
10:02:20 PM	57.7
10:02:30 PM	64.5
10:02:40 PM	68.6
10:02:50 PM	64
10:03:00 PM	62.2
10:03:10 PM	66.8
10:03:20 PM	67.6
10:03:30 PM	68.1
10:03:40 PM	65.3
10:03:50 PM	65.3
10:04:00 PM	62.5
10:04:10 PM	60.9
10:04:20 PM	59
10:04:30 PM	59.6
10:04:40 PM	57.6
10:04:50 PM	64.5
10:05:00 PM	68.2
10:05:10 PM	63.8
10:05:20 PM	56.9
10:05:30 PM	63.4
10:05:40 PM	66.2
10:05:50 PM	63.4
10:06:00 PM	62.6
10:06:10 PM	62.5
10:06:20 PM	63.6
10:06:30 PM	62.5
10:06:40 PM	72.1
10:06:50 PM	67.1
10:07:00 PM	63.3
10:07:10 PM	63.4
10:07:20 PM	58.2
10:07:30 PM	57.2
10:07:40 PM	58
10:07:50 PM	59.5
10:08:00 PM	64.4
10:08:10 PM	62.1
10:08:20 PM	59.9
10:08:30 PM	64.7
10:08:40 PM	72
10:08:50 PM	75.8
10:09:00 PM	*87.3*
10:09:10 PM	*84.4*

10:09:20 PM	67.1
10:09:30 PM	64.1
10:09:40 PM	69.7
10:09:50 PM	69
10:10:00 PM	61.5
10:10:10 PM	70.1
10:10:20 PM	68.1
10:10:30 PM	63.4
10:10:40 PM	70
10:10:50 PM	64.1
10:11:00 PM	59.4
10:11:10 PM	62.5
10:11:20 PM	60.9
10:11:30 PM	61.7
10:11:40 PM	60.9
10:11:50 PM	64.9
10:12:00 PM	65.9
10:12:10 PM	64.8
10:12:20 PM	58.5
10:12:30 PM	57.3
10:12:40 PM	57.1
10:12:50 PM	61.8
10:13:00 PM	58.8
10:13:10 PM	67.8
10:13:20 PM	65.5
10:13:30 PM	60.7
10:13:40 PM	62.4
10:13:50 PM	66.8
10:14:00 PM	61.8
10:14:10 PM	67.4
10:14:20 PM	70.8
10:14:30 PM	64
10:14:40 PM	62.6
10:14:50 PM	64.4
10:15:00 PM	62.9
10:15:10 PM	63.1
10:15:20 PM	60.8
10:15:30 PM	60.2
10:15:40 PM	61.3
10:15:50 PM	63.1
10:16:00 PM	59
10:16:10 PM	57.5
10:16:20 PM	57.5
10:16:30 PM	63.6
	65.4

AES
ACOUSTICAL ENGINEERING SERVICES

Location: R2
Date: 5/31/2023

Time	Leq
10:35:01 AM	75
10:35:11 AM	73.2
10:35:21 AM	60.5
10:35:31 AM	62.9
10:35:41 AM	65.3
10:35:51 AM	70.2
10:36:01 AM	72.4
10:36:11 AM	73.5
10:36:21 AM	*88.1*
10:36:31 AM	*94*
10:36:41 AM	72.4
10:36:51 AM	65.4
10:37:01 AM	67.3
10:37:11 AM	77.5
10:37:21 AM	78.5
10:37:31 AM	76.7
10:37:41 AM	63.9
10:37:51 AM	74.1
10:38:01 AM	77.9
10:38:11 AM	76.1
10:38:21 AM	67.8
10:38:31 AM	72.6
10:38:41 AM	74.5
10:38:51 AM	75.6
10:39:01 AM	75
10:39:11 AM	72.5
10:39:21 AM	65.6
10:39:31 AM	77.6
10:39:41 AM	75
10:39:51 AM	65
10:40:01 AM	68.5
10:40:11 AM	71
10:40:21 AM	68.9
10:40:31 AM	73
10:40:41 AM	72.9
10:40:51 AM	72.3
10:41:01 AM	71.7
10:41:11 AM	72.6
10:41:21 AM	59.4
10:41:31 AM	69.3
10:41:41 AM	62.5
10:41:51 AM	64.3
10:42:01 AM	55.8
10:42:11 AM	68.4

10:42:21 AM	77.6
10:42:31 AM	68.9
10:42:41 AM	64.7
10:42:51 AM	67.7
10:43:01 AM	73.9
10:43:11 AM	70.6
10:43:21 AM	58.2
10:43:31 AM	72.4
10:43:41 AM	73.9
10:43:51 AM	72.2
10:44:01 AM	68.7
10:44:11 AM	69.5
10:44:21 AM	60
10:44:31 AM	71.5
10:44:41 AM	69.3
10:44:51 AM	75.6
10:45:01 AM	71.1
10:45:11 AM	75.8
10:45:21 AM	75.8
10:45:31 AM	75.8
10:45:41 AM	75.6
10:45:51 AM	68.4
10:46:01 AM	65.6
10:46:11 AM	68.9
10:46:21 AM	70.1
10:46:31 AM	69.8
10:46:41 AM	71.4
10:46:51 AM	68.9
10:47:01 AM	72.5
10:47:11 AM	67.4
10:47:21 AM	59.6
10:47:31 AM	54.3
10:47:41 AM	72.7
10:47:51 AM	73.2
10:48:01 AM	71.7
10:48:11 AM	72.7
10:48:21 AM	76.4
10:48:31 AM	71.4
10:48:41 AM	70.4
10:48:51 AM	65.5
10:49:01 AM	59.1
10:49:11 AM	65.4
10:49:21 AM	70.1
10:49:31 AM	72.9
10:49:41 AM	65.4
10:49:51 AM	75.1
	72.4

AES
ACOUSTICAL ENGINEERING SERVICES

Time	Leq
10:22:27 PM	67.8
10:22:37 PM	64.5
10:22:47 PM	54.4
10:22:57 PM	72.3
10:23:07 PM	66.1
10:23:17 PM	63.2
10:23:27 PM	62.5
10:23:37 PM	75.7
10:23:47 PM	68
10:23:57 PM	60.9
10:24:07 PM	56.4
10:24:17 PM	70.2
10:24:27 PM	70.9
10:24:37 PM	64.4
10:24:47 PM	66.4
10:24:57 PM	65.3
10:25:07 PM	59.9
10:25:17 PM	52.9
10:25:27 PM	52.9
10:25:37 PM	62.3
10:25:47 PM	67.4
10:25:57 PM	71.3
10:26:07 PM	65.6
10:26:17 PM	59.6
10:26:27 PM	55.7
10:26:37 PM	54.1
10:26:47 PM	67.2
10:26:57 PM	59.6
10:27:07 PM	53.3
10:27:17 PM	68.6
10:27:27 PM	62.3
10:27:37 PM	63.5
10:27:47 PM	54.7
10:27:57 PM	65.8
10:28:07 PM	67.1
10:28:17 PM	72.2
10:28:27 PM	72.3
10:28:37 PM	66.5
10:28:47 PM	54.3
10:28:57 PM	54.7
10:29:07 PM	61.4
10:29:17 PM	70.2
10:29:27 PM	58.7
10:29:37 PM	57.3
10:29:47 PM	64.7
10:29:57 PM	66.9
10:30:07 PM	70.2

10:30:17 PM	63.9
10:30:27 PM	61.7
10:30:37 PM	67.8
10:30:47 PM	64.8
10:30:57 PM	59.2
10:31:07 PM	60.9
10:31:17 PM	65.1
10:31:27 PM	55.1
10:31:37 PM	55.4
10:31:47 PM	69.7
10:31:57 PM	61.4
10:32:07 PM	54.3
10:32:17 PM	53.6
10:32:27 PM	67.3
10:32:37 PM	71.1
10:32:47 PM	70.5
10:32:57 PM	68.8
10:33:07 PM	68.8
10:33:17 PM	76.5
10:33:27 PM	65.7
10:33:37 PM	56.4
10:33:47 PM	58.4
10:33:57 PM	64.1
10:34:07 PM	65.6
10:34:17 PM	69.9
10:34:27 PM	59.2
10:34:37 PM	71
10:34:47 PM	59.5
10:34:57 PM	60.7
10:35:07 PM	62
10:35:17 PM	67.5
10:35:27 PM	62.5
10:35:37 PM	62.6
10:35:47 PM	68.1
10:35:57 PM	69.5
10:36:07 PM	57.3
10:36:17 PM	54.7
10:36:27 PM	54.4
10:36:37 PM	62.5
10:36:47 PM	68.6
10:36:57 PM	57.3
10:37:07 PM	67.9
10:37:17 PM	62.2
	66.9

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project
Location: R3
Date: 5/31/2023

Time	Leq
10:53:16 AM	65.4
10:53:26 AM	63.7
10:53:36 AM	63.9
10:53:46 AM	69.4
10:53:56 AM	66.8
10:54:06 AM	66.7
10:54:16 AM	64
10:54:26 AM	67.7
10:54:36 AM	67.3
10:54:46 AM	65.8
10:54:56 AM	63.9
10:55:06 AM	66.6
10:55:16 AM	71.2
10:55:26 AM	68.1
10:55:36 AM	63.6
10:55:46 AM	64.6
10:55:56 AM	63.9
10:56:06 AM	63.4
10:56:16 AM	63.4
10:56:26 AM	67.2
10:56:36 AM	64.3
10:56:46 AM	64.1
10:56:56 AM	64.1
10:57:06 AM	65.8
10:57:16 AM	73.8
10:57:26 AM	82
10:57:36 AM	70.2
10:57:46 AM	71.8
10:57:56 AM	72.6
10:58:06 AM	71.3
10:58:16 AM	63.8
10:58:26 AM	65.5
10:58:36 AM	64.4
10:58:46 AM	64.4
10:58:56 AM	63.5
10:59:06 AM	63.8
10:59:16 AM	64.1
10:59:26 AM	63.3
10:59:36 AM	63.4
10:59:46 AM	64.4
10:59:56 AM	64.6
11:00:06 AM	67.7
11:00:16 AM	74.8

11:00:26 AM	68.2
11:00:36 AM	64.7
11:00:46 AM	63.8
11:00:56 AM	66.2
11:01:06 AM	63.7
11:01:16 AM	65.4
11:01:26 AM	65.8
11:01:36 AM	65.8
11:01:46 AM	66.1
11:01:56 AM	68.5
11:02:06 AM	67.8
11:02:16 AM	67.2
11:02:26 AM	67.6
11:02:36 AM	68.2
11:02:46 AM	68.9
11:02:56 AM	70
11:03:06 AM	70
11:03:16 AM	68.6
11:03:26 AM	68.3
11:03:36 AM	69.6
11:03:46 AM	69.2
11:03:56 AM	70.2
11:04:06 AM	69.5
11:04:16 AM	70.5
11:04:26 AM	70
11:04:36 AM	69.8
11:04:46 AM	70.5
11:04:56 AM	71.9
11:05:06 AM	72.9
11:05:16 AM	70.6
11:05:26 AM	69.5
11:05:36 AM	70.6
11:05:46 AM	70.4
11:05:56 AM	70.5
11:06:06 AM	71.1
11:06:16 AM	70.2
11:06:26 AM	71.1
11:06:36 AM	70.3
11:06:46 AM	69.5
11:06:56 AM	72.5
11:07:06 AM	71.9
11:07:16 AM	71.2
11:07:26 AM	71.6
11:07:36 AM	72.3
11:07:46 AM	74.4
11:07:56 AM	72.1
11:08:06 AM	73
	69.9

Time	Leq
10:40:21 PM	*65.5*
10:40:31 PM	*64.6*
10:40:41 PM	*65*
10:40:51 PM	*66.9*
10:41:01 PM	*66.8*
10:41:11 PM	*67.9*
10:41:21 PM	*71.1*
10:41:31 PM	*72.7*
10:41:41 PM	*72.9*
10:41:51 PM	*74.7*
10:42:01 PM	*73.7*
10:42:11 PM	*73.7*
10:42:21 PM	*73.4*
10:42:31 PM	*73.7*
10:42:41 PM	*75.4*
10:42:51 PM	*73.6*
10:43:01 PM	*73.3*
10:43:11 PM	*73.5*
10:43:21 PM	*73.4*
10:43:31 PM	*73.8*
10:43:41 PM	*75*
10:43:51 PM	*73.3*
10:44:01 PM	*73.1*
10:44:11 PM	*72.9*
10:44:21 PM	*73.5*
10:44:31 PM	*73.4*
10:44:41 PM	*73.5*
10:44:51 PM	*73.6*
10:45:01 PM	*73.7*
10:45:11 PM	*73.8*
10:45:21 PM	*73.7*
10:45:31 PM	*75.1*
10:45:41 PM	*73.7*
10:45:51 PM	*73.7*
10:46:01 PM	*74.2*
10:46:11 PM	*75.2*
10:46:21 PM	*73.6*
10:46:31 PM	*74.2*
10:46:41 PM	*74.4*
10:46:51 PM	*74.8*
10:47:01 PM	*74.3*
10:47:11 PM	*74.6*
10:47:21 PM	*74.3*
10:47:31 PM	*73.7*
10:47:41 PM	*73.2*
10:47:51 PM	*71.5*

10:48:01 PM	*71.6*
10:48:11 PM	*72.9*
10:48:21 PM	*71.6*
10:48:31 PM	*70.4*
10:48:41 PM	*70.4*
10:48:51 PM	*71.8*
10:49:01 PM	*70.7*
10:49:11 PM	*71.2*
10:49:21 PM	*71.2*
10:49:31 PM	*71.3*
10:49:41 PM	*71.2*
10:49:51 PM	*69.6*
10:50:01 PM	*68.4*
10:50:11 PM	*67.7*
10:50:21 PM	*66*
10:50:31 PM	61.3
10:50:41 PM	61
10:50:51 PM	61.2
10:51:01 PM	61.2
10:51:11 PM	61
10:51:21 PM	61.3
10:51:31 PM	60.8
10:51:41 PM	61.1
10:51:51 PM	61.2
10:52:01 PM	61.3
10:52:11 PM	63.3
10:52:21 PM	61.4
10:52:31 PM	60.9
10:52:41 PM	64.1
10:52:51 PM	66.1
10:53:01 PM	60.4
10:53:11 PM	60.2
10:53:21 PM	59.9
10:53:31 PM	60.1
10:53:41 PM	68
10:53:51 PM	64.7
10:54:01 PM	65.8
10:54:11 PM	63.2
10:54:21 PM	62.2
10:54:31 PM	63.1
10:54:41 PM	63.5
10:54:51 PM	65.9
10:55:01 PM	62.8
10:55:11 PM	61.9
	62.9

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project
Location: R4
Date: 5/31/2023

Time	Leq
11:13:12 AM	62.6
11:13:22 AM	58.4
11:13:32 AM	57.9
11:13:42 AM	57.8
11:13:52 AM	60.2
11:14:02 AM	63.6
11:14:12 AM	59.7
11:14:22 AM	59.7
11:14:32 AM	59.6
11:14:42 AM	59.6
11:14:52 AM	62.4
11:15:02 AM	59
11:15:12 AM	59.8
11:15:22 AM	72
11:15:32 AM	66.1
11:15:42 AM	59.3
11:15:52 AM	56.4
11:16:02 AM	58.3
11:16:12 AM	52.4
11:16:22 AM	57.2
11:16:32 AM	56.4
11:16:42 AM	53.6
11:16:52 AM	62
11:17:02 AM	52.3
11:17:12 AM	58.2
11:17:22 AM	57.5
11:17:32 AM	52.5
11:17:42 AM	53.8
11:17:52 AM	58.9
11:18:02 AM	52.8
11:18:12 AM	52
11:18:22 AM	52
11:18:32 AM	52.9
11:18:42 AM	53.1
11:18:52 AM	56.1
11:19:02 AM	54
11:19:12 AM	54.2
11:19:22 AM	54.1
11:19:32 AM	56
11:19:42 AM	59.6
11:19:52 AM	54.3
11:20:02 AM	52.4
11:20:12 AM	53.3

11:20:22 AM	52.4
11:20:32 AM	53.9
11:20:42 AM	53.8
11:20:52 AM	57.5
11:21:02 AM	61.9
11:21:12 AM	59
11:21:22 AM	57.6
11:21:32 AM	52.9
11:21:42 AM	51.9
11:21:52 AM	51.6
11:22:02 AM	51.9
11:22:12 AM	52.3
11:22:22 AM	52.5
11:22:32 AM	51.9
11:22:42 AM	54.9
11:22:52 AM	52.6
11:23:02 AM	52.8
11:23:12 AM	54.8
11:23:22 AM	61.4
11:23:32 AM	58.1
11:23:42 AM	54.8
11:23:52 AM	51.8
11:24:02 AM	53.1
11:24:12 AM	58.9
11:24:22 AM	54.5
11:24:32 AM	54.9
11:24:42 AM	54.4
11:24:52 AM	53.7
11:25:02 AM	53
11:25:12 AM	52.3
11:25:22 AM	51.4
11:25:32 AM	57
11:25:42 AM	59.6
11:25:52 AM	54.4
11:26:02 AM	53.8
11:26:12 AM	54.7
11:26:22 AM	59.8
11:26:32 AM	58.1
11:26:42 AM	57.7
11:26:52 AM	52.9
11:27:02 AM	51.7
11:27:12 AM	53.2
11:27:22 AM	54.8
11:27:32 AM	54.2
11:27:42 AM	56.6
11:27:52 AM	64.2
11:28:02 AM	65.7
	58.9

AES
ACOUSTICAL ENGINEERING SERVICES

Time	Leq
10:59:06 PM	52
10:59:16 PM	58.4
10:59:26 PM	59.9
10:59:36 PM	64.7
10:59:46 PM	67.4
10:59:56 PM	52.2
11:00:06 PM	52.7
11:00:16 PM	52.3
11:00:26 PM	51.5
11:00:36 PM	52.1
11:00:46 PM	52.3
11:00:56 PM	52.1
11:01:06 PM	55.7
11:01:16 PM	57.3
11:01:26 PM	59.3
11:01:36 PM	54
11:01:46 PM	52.5
11:01:56 PM	51.6
11:02:06 PM	52.4
11:02:16 PM	53
11:02:26 PM	52
11:02:36 PM	52.3
11:02:46 PM	51.7
11:02:56 PM	53
11:03:06 PM	60.3
11:03:16 PM	52.5
11:03:26 PM	52.2
11:03:36 PM	51.6
11:03:46 PM	52.1
11:03:56 PM	52.3
11:04:06 PM	51.4
11:04:16 PM	52
11:04:26 PM	52
11:04:36 PM	54
11:04:46 PM	51.7
11:04:56 PM	51.4
11:05:06 PM	51.3
11:05:16 PM	51.6
11:05:26 PM	51.7
11:05:36 PM	51.7
11:05:46 PM	51.2
11:05:56 PM	51.6
11:06:06 PM	51.4
11:06:16 PM	51.4
11:06:26 PM	51.6
11:06:36 PM	51

11:06:46 PM	51.9
11:06:56 PM	58.8
11:07:06 PM	53
11:07:16 PM	53.8
11:07:26 PM	51.8
11:07:36 PM	51
11:07:46 PM	51.2
11:07:56 PM	51.1
11:08:06 PM	50.4
11:08:16 PM	50
11:08:26 PM	49.2
11:08:36 PM	50.6
11:08:46 PM	49.5
11:08:56 PM	49.5
11:09:06 PM	49.3
11:09:16 PM	49.4
11:09:26 PM	48.6
11:09:36 PM	48.8
11:09:46 PM	48.3
11:09:56 PM	48.2
11:10:06 PM	49.6
11:10:16 PM	51.5
11:10:26 PM	49
11:10:36 PM	48.9
11:10:46 PM	50.3
11:10:56 PM	49.9
11:11:06 PM	53.8
11:11:16 PM	63.4
11:11:26 PM	50.1
11:11:36 PM	49.2
11:11:46 PM	49.2
11:11:56 PM	49.5
11:12:06 PM	54.7
11:12:16 PM	52.4
11:12:26 PM	49.3
11:12:36 PM	48.8
11:12:46 PM	49
11:12:56 PM	49.9
11:13:06 PM	64
11:13:16 PM	54
11:13:26 PM	50.4
11:13:36 PM	50.4
11:13:46 PM	49.2
11:13:56 PM	48.6
	55.1

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project
Location: R5
Date: 5/31/2023

Time	Leq
11:33:11 AM	69.4
11:33:21 AM	71.8
11:33:31 AM	64.8
11:33:41 AM	69.2
11:33:51 AM	62.3
11:34:01 AM	61.3
11:34:11 AM	64.6
11:34:21 AM	70.6
11:34:31 AM	63.6
11:34:41 AM	62.6
11:34:51 AM	69.7
11:35:01 AM	71.6
11:35:11 AM	64.9
11:35:21 AM	68.9
11:35:31 AM	66.1
11:35:41 AM	80.8
11:35:51 AM	67.2
11:36:01 AM	62.5
11:36:11 AM	76.9
11:36:21 AM	72.7
11:36:31 AM	70.2
11:36:41 AM	64.6
11:36:51 AM	65.6
11:37:01 AM	63.8
11:37:11 AM	67.8
11:37:21 AM	61.4
11:37:31 AM	64
11:37:41 AM	65.5
11:37:51 AM	66.8
11:38:01 AM	66.2
11:38:11 AM	66.9
11:38:21 AM	66.9
11:38:31 AM	64.9
11:38:41 AM	64.5
11:38:51 AM	65.1
11:39:01 AM	67.4
11:39:11 AM	69.8
11:39:21 AM	67
11:39:31 AM	67.6
11:39:41 AM	60
11:39:51 AM	59.4
11:40:01 AM	61.3
11:40:11 AM	67.6

11:40:21 AM	62.9
11:40:31 AM	62
11:40:41 AM	64.6
11:40:51 AM	69.3
11:41:01 AM	65.6
11:41:11 AM	63
11:41:21 AM	63.5
11:41:31 AM	66.4
11:41:41 AM	70.7
11:41:51 AM	69.1
11:42:01 AM	69.1
11:42:11 AM	71.4
11:42:21 AM	73.4
11:42:31 AM	69.7
11:42:41 AM	66.6
11:42:51 AM	62.4
11:43:01 AM	62.1
11:43:11 AM	68.4
11:43:21 AM	72.2
11:43:31 AM	68.1
11:43:41 AM	67.3
11:43:51 AM	66.4
11:44:01 AM	67.9
11:44:11 AM	66.5
11:44:21 AM	66.8
11:44:31 AM	65.2
11:44:41 AM	68.5
11:44:51 AM	70.6
11:45:01 AM	67.3
11:45:11 AM	68.1
11:45:21 AM	68.1
11:45:31 AM	70.2
11:45:41 AM	63.8
11:45:51 AM	62.3
11:46:01 AM	69.1
11:46:11 AM	69.5
11:46:21 AM	68.3
11:46:31 AM	66.1
11:46:41 AM	66.8
11:46:51 AM	68.8
11:47:01 AM	67.8
11:47:11 AM	64.6
11:47:21 AM	60.4
11:47:31 AM	64.3
11:47:41 AM	70.4
11:47:51 AM	68.2
11:48:01 AM	70.1
	68.8

AES
ACOUSTICAL ENGINEERING SERVICES

Time	Leq
11:18:08 PM	54.8
11:18:18 PM	64.8
11:18:28 PM	48.3
11:18:38 PM	50.7
11:18:48 PM	50.2
11:18:58 PM	51
11:19:08 PM	53.6
11:19:18 PM	65.3
11:19:28 PM	64.5
11:19:38 PM	65
11:19:48 PM	59.3
11:19:58 PM	63.5
11:20:08 PM	66
11:20:18 PM	56.2
11:20:28 PM	62.4
11:20:38 PM	57.2
11:20:48 PM	60
11:20:58 PM	53.8
11:21:08 PM	56.4
11:21:18 PM	63.1
11:21:28 PM	57.1
11:21:38 PM	57.9
11:21:48 PM	59.8
11:21:58 PM	65
11:22:08 PM	67.8
11:22:18 PM	71.8
11:22:28 PM	62.9
11:22:38 PM	55.8
11:22:48 PM	63.1
11:22:58 PM	60.7
11:23:08 PM	60.2
11:23:18 PM	49.5
11:23:28 PM	51.9
11:23:38 PM	59.7
11:23:48 PM	62
11:23:58 PM	67.3
11:24:08 PM	60.6
11:24:18 PM	53.8
11:24:28 PM	53.1
11:24:38 PM	62.4
11:24:48 PM	60.2
11:24:58 PM	50.6
11:25:08 PM	56
11:25:18 PM	64.7
11:25:28 PM	52.6
11:25:38 PM	50.1

11:25:48 PM	53.1
11:25:58 PM	55.7
11:26:08 PM	56.6
11:26:18 PM	62.1
11:26:28 PM	63.5
11:26:38 PM	66.1
11:26:48 PM	62.9
11:26:58 PM	59.4
11:27:08 PM	55.7
11:27:18 PM	53.5
11:27:28 PM	54.9
11:27:38 PM	62.4
11:27:48 PM	59
11:27:58 PM	60.2
11:28:08 PM	51.6
11:28:18 PM	53.8
11:28:28 PM	56.7
11:28:38 PM	61.4
11:28:48 PM	66.3
11:28:58 PM	63.1
11:29:08 PM	61.6
11:29:18 PM	67.4
11:29:28 PM	68.3
11:29:38 PM	60.5
11:29:48 PM	64.4
11:29:58 PM	51.9
11:30:08 PM	54.1
11:30:18 PM	58.7
11:30:28 PM	65.6
11:30:38 PM	65.1
11:30:48 PM	64.2
11:30:58 PM	64.8
11:31:08 PM	62.2
11:31:18 PM	52.5
11:31:28 PM	49.6
11:31:38 PM	50.8
11:31:48 PM	52.4
11:31:58 PM	65.3
11:32:08 PM	53.9
11:32:18 PM	49.8
11:32:28 PM	49.4
11:32:38 PM	55.8
11:32:48 PM	56.9
11:32:58 PM	51
	61.9

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project
Location: R7
Date: 5/31/2023

Time	Leq
11:53:52 AM	54.6
11:54:02 AM	60.3
11:54:12 AM	57.9
11:54:22 AM	58
11:54:32 AM	59
11:54:42 AM	57.6
11:54:52 AM	56.7
11:55:02 AM	58.9
11:55:12 AM	66.6
11:55:22 AM	64.5
11:55:32 AM	61.8
11:55:42 AM	60.8
11:55:52 AM	62
11:56:02 AM	56
11:56:12 AM	56.1
11:56:22 AM	54.8
11:56:32 AM	55.7
11:56:42 AM	60
11:56:52 AM	61.4
11:57:02 AM	60.3
11:57:12 AM	61.4
11:57:22 AM	55
11:57:32 AM	57.3
11:57:42 AM	57.7
11:57:52 AM	57.6
11:58:02 AM	56.5
11:58:12 AM	58.7
11:58:22 AM	58.4
11:58:32 AM	60.3
11:58:42 AM	62.1
11:58:52 AM	57.6
11:59:02 AM	56.8
11:59:12 AM	59.1
11:59:22 AM	63.1
11:59:32 AM	61.3
11:59:42 AM	58.4
11:59:52 AM	61.8
12:00:02 PM	58.4
12:00:12 PM	61.2
12:00:22 PM	60.4
12:00:32 PM	60.6
12:00:42 PM	60.7
12:00:52 PM	60.9

12:01:02 PM	55.9
12:01:12 PM	60.5
12:01:22 PM	70.6
12:01:32 PM	65.3
12:01:42 PM	60
12:01:52 PM	63.2
12:02:02 PM	58.4
12:02:12 PM	57.8
12:02:22 PM	59.6
12:02:32 PM	57.6
12:02:42 PM	55.9
12:02:52 PM	55.8
12:03:02 PM	60.1
12:03:12 PM	58.9
12:03:22 PM	57.4
12:03:32 PM	58.5
12:03:42 PM	58
12:03:52 PM	59.4
12:04:02 PM	56.8
12:04:12 PM	56.5
12:04:22 PM	58.6
12:04:32 PM	61.9
12:04:42 PM	62
12:04:52 PM	59.1
12:05:02 PM	60
12:05:12 PM	56.8
12:05:22 PM	58.3
12:05:32 PM	60.5
12:05:42 PM	57.7
12:05:52 PM	58.3
12:06:02 PM	60.6
12:06:12 PM	60.8
12:06:22 PM	62.6
12:06:32 PM	64.3
12:06:42 PM	59.9
12:06:52 PM	55.4
12:07:02 PM	57.6
12:07:12 PM	59.1
12:07:22 PM	60.5
12:07:32 PM	63.6
12:07:42 PM	69.8
12:07:52 PM	66.7
12:08:02 PM	59.2
12:08:12 PM	57.9
12:08:22 PM	55.6
12:08:32 PM	57.4
12:08:42 PM	62.3
	61.0

AES
ACOUSTICAL ENGINEERING SERVICES

Time	Leq
11:38:45 PM	57.1
11:38:55 PM	57.6
11:39:05 PM	55.7
11:39:15 PM	56.1
11:39:25 PM	59.2
11:39:35 PM	60.5
11:39:45 PM	59.4
11:39:55 PM	54.7
11:40:05 PM	53.4
11:40:15 PM	54.1
11:40:25 PM	56
11:40:35 PM	54.9
11:40:45 PM	55.6
11:40:55 PM	53.5
11:41:05 PM	56
11:41:15 PM	57.3
11:41:25 PM	57.5
11:41:35 PM	53.3
11:41:45 PM	54.9
11:41:55 PM	52.9
11:42:05 PM	54.4
11:42:15 PM	53.4
11:42:25 PM	51.8
11:42:35 PM	57.5
11:42:45 PM	56.8
11:42:55 PM	52.9
11:43:05 PM	52.6
11:43:15 PM	52.3
11:43:25 PM	52.9
11:43:35 PM	55.9
11:43:45 PM	53.5
11:43:55 PM	52.4
11:44:05 PM	52.4
11:44:15 PM	57.2
11:44:25 PM	59.1
11:44:35 PM	53.6
11:44:45 PM	53.7
11:44:55 PM	57.9
11:45:05 PM	56.7
11:45:15 PM	53.1
11:45:25 PM	53
11:45:35 PM	57.3
11:45:45 PM	55.5
11:45:55 PM	54.5
11:46:05 PM	55.1
11:46:15 PM	62.5

11:46:25 PM	60.9
11:46:35 PM	59.1
11:46:45 PM	53
11:46:55 PM	59
11:47:05 PM	58
11:47:15 PM	50.1
11:47:25 PM	49.9
11:47:35 PM	55.4
11:47:45 PM	56.2
11:47:55 PM	50.7
11:48:05 PM	51.6
11:48:15 PM	57.5
11:48:25 PM	48.6
11:48:35 PM	47.9
11:48:45 PM	48.1
11:48:55 PM	48.5
11:49:05 PM	51.4
11:49:15 PM	53.3
11:49:25 PM	51.4
11:49:35 PM	52.7
11:49:45 PM	61
11:49:55 PM	57.7
11:50:05 PM	58.4
11:50:15 PM	51.7
11:50:25 PM	54.6
11:50:35 PM	63.9
11:50:45 PM	67.5
11:50:55 PM	62.5
11:51:05 PM	57.5
11:51:15 PM	51.7
11:51:25 PM	48.6
11:51:35 PM	48.6
11:51:45 PM	50.2
11:51:55 PM	49.2
11:52:05 PM	57.3
11:52:15 PM	53.7
11:52:25 PM	53.1
11:52:35 PM	51.1
11:52:45 PM	49.9
11:52:55 PM	49.5
11:53:05 PM	50.8
11:53:15 PM	52.1
11:53:25 PM	49.1
11:53:35 PM	57.4
	56.7

Construction Noise & Vibration Calculations

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: ***Demolition***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	80	0
Air Compressor	1	78	40%	80	0
Excavator	1	81	40%	105	0
Rubber Tired Dozer	1	82	40%	105	0
Rubber Tired Loader	1	79	40%	130	0
Tractor/Loader/Backhoe	1	84	40%	130	0
Crushing/Proc. Equipment	1	85	50%	155	0
Concrete Saw	1	90	20%	155	0
Air Compressor	1	78	40%	180	0
Excavator	1	81	40%	180	0
Concrete Saw	3	90	20%	205	0
Excavator	2	81	40%	205	0
Water Truck	4	82	10%	230	0
Rough Terrain Forklifts	2	83	40%	230	0
Tractor/Loader/Backhoe	3	84	40%	230	0
	24				

Receptor: ***R1***

Results:

1-hour Leq: 83.9

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: *Grading/Excavation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Scrapers	1	84	40%	80	0
Roller	1	81	16%	80	0
Excavator	1	80	2%	105	0
Water Truck	1	82	10%	105	0
Rubber Tired Dozer	1	82	40%	130	0
Rubber Tired Loader	1	79	40%	130	0
Tractor/Loader/Backhoe	1	84	40%	155	0
Scrapers	1	84	40%	155	0
Excavator	1	81	40%	180	0
Water Truck	1	82	10%	180	0
Rubber Tired Dozer	1	82	40%	205	0
Rubber Tired Loader	1	79	40%	205	0
Tractor/Loader/Backhoe	1	84	40%	230	0
Scrapers	1	84	40%	230	0
	14				

Receptor: ***R1***

Results:

1-hour Leq: 80.3

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: ***Foundation***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Tractor/Loader/Backhoe	1	84	40%	80	0
Water Truck	1	82	10%	80	0
Concrete Pump	1	81	50%	105	0
Surfacing Equipment	1	77	50%	105	0
Crane	1	81	16%	130	0
Plate Compactors	1	83	20%	130	0
Skid Steer Loaders	2	79	40%	155	0
Welder	1	74	40%	155	0
Rough Terrain Forklifts	2	83	40%	180	0
Tractor/Loader/Backhoe	1	84	40%	180	0
Water Truck	1	82	10%	205	0
Concrete Pump	1	81	50%	205	0
Surfacing Equipment	3	77	50%	230	0
Crane	1	81	16%	230	0
Plate Compactors	1	83	20%	230	0
	19				

Receptor: ***R1***

Results:

1-hour Leq: 80.5

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: ***Building Construction***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	80	0
Aerial Lifts	1	75	20%	80	0
Air Compressor	2	78	40%	105	0
Crane	1	81	16%	105	0
Water Truck	1	82	10%	130	0
Rough Terrain Forklifts	6	83	40%	130	0
Pump	2	81	20%	155	0
Plate Compactor	2	83	20%	155	0
Welder	4	74	40%	180	0
Tractor/Loader/Backhoe	4	84	40%	180	0
Skid Steer Loaders	2	79	40%	205	0
Others (misc)	5	85	50%	205	0
Concrete Saw	1	90	20%	230	0
Aerial Lifts	15	75	20%	230	0
Crane	3	81	16%	230	0
	50				

Receptor: ***R1***

Results:

1-hour Leq: 84.5

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: ***Paving/Landscape***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	80	0
Rough Terrain Forklifts	1	83	40%	80	0
Air Compressor	2	78	40%	105	0
Crane	2	81	16%	105	0
Water Truck	1	82	10%	130	0
Pump	1	81	20%	130	0
Plate Compactor	2	83	20%	155	0
Trencher	2	80	50%	155	0
Tractor/Loader/Backhoe	2	84	40%	180	0
Loaders (Skid and Tired)	5	79	40%	180	0
Cement and Mortar Mixers	2	80	50%	205	0
Pavers and Paving Equip.	2	77	50%	205	0
Aerial Lifts	4	75	20%	230	0
Concrete Saw	1	90	20%	230	0
Rough Terrain Forklifts	1	83	40%	230	0
	29				

Receptor: ***R1***

Results:

1-hour Leq: 83.1

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: *Demolition*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	65	0
Air Compressor	1	78	40%	65	0
Excavator	1	81	40%	90	0
Rubber Tired Dozer	1	82	40%	90	0
Rubber Tired Loader	1	79	40%	115	0
Tractor/Loader/Backhoe	1	84	40%	115	0
Crushing/Proc. Equipment	1	85	50%	140	0
Concrete Saw	1	90	20%	140	0
Air Compressor	1	78	40%	165	0
Excavator	1	81	40%	165	0
Concrete Saw	3	90	20%	190	0
Excavator	2	81	40%	190	0
Water Truck	4	82	10%	215	0
Rough Terrain Forklifts	2	83	40%	215	0
Tractor/Loader/Backhoe	3	84	40%	215	0
	24				

Receptor: ***R2***

Results:

1-hour Leq: 85.1

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: *Grading/Excavation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Scrapers	1	84	40%	65	0
Roller	1	81	16%	65	0
Excavator	1	80	2%	90	0
Water Truck	1	82	10%	90	0
Rubber Tired Dozer	1	82	40%	115	0
Rubber Tired Loader	1	79	40%	115	0
Tractor/Loader/Backhoe	1	84	40%	140	0
Scrapers	1	84	40%	140	0
Excavator	1	81	40%	165	0
Water Truck	1	82	10%	165	0
Rubber Tired Dozer	1	82	40%	190	0
Rubber Tired Loader	1	79	40%	190	0
Tractor/Loader/Backhoe	1	84	40%	215	0
Scrapers	1	84	40%	215	0
	14				

Receptor: ***R2***

Results:

1-hour Leq: 81.6

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: *Foundation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Tractor/Loader/Backhoe	1	84	40%	65	0
Water Truck	1	82	10%	65	0
Concrete Pump	1	81	50%	90	0
Surfacing Equipment	1	77	50%	90	0
Crane	1	81	16%	115	0
Plate Compactors	1	83	20%	115	0
Skid Steer Loaders	2	79	40%	140	0
Welder	1	74	40%	140	0
Rough Terrain Forklifts	2	83	40%	165	0
Tractor/Loader/Backhoe	1	84	40%	165	0
Water Truck	1	82	10%	190	0
Concrete Pump	1	81	50%	190	0
Surfacing Equipment	3	77	50%	215	0
Crane	1	81	16%	215	0
Plate Compactors	1	83	20%	215	0
	19				

Receptor: ***R2***

Results:

1-hour Leq: 81.9

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: ***Building Construction***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	65	0
Aerial Lifts	1	75	20%	65	0
Air Compressor	2	78	40%	90	0
Crane	1	81	16%	90	0
Water Truck	1	82	10%	115	0
Rough Terrain Forklifts	6	83	40%	115	0
Pump	2	81	20%	140	0
Plate Compactor	2	83	20%	140	0
Welder	4	74	40%	165	0
Tractor/Loader/Backhoe	4	84	40%	165	0
Skid Steer Loaders	2	79	40%	190	0
Others (misc)	5	85	50%	190	0
Concrete Saw	1	90	20%	215	0
Aerial Lifts	15	75	20%	215	0
Crane	3	81	16%	215	0
	50				

Receptor: ***R2***

Results:

1-hour Leq: **85.7**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: ***Paving/Landscape***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	65	0
Rough Terrain Forklifts	1	83	40%	65	0
Air Compressor	2	78	40%	90	0
Crane	2	81	16%	90	0
Water Truck	1	82	10%	115	0
Pump	1	81	20%	115	0
Plate Compactor	2	83	20%	140	0
Trencher	2	80	50%	140	0
Tractor/Loader/Backhoe	2	84	40%	165	0
Loaders (Skid and Tired)	5	79	40%	165	0
Cement and Mortar Mixers	2	80	50%	190	0
Pavers and Paving Equip.	2	77	50%	190	0
Aerial Lifts	4	75	20%	215	0
Concrete Saw	1	90	20%	215	0
Rough Terrain Forklifts	1	83	40%	215	0
	29				

Receptor: ***R2***

Results:

1-hour Leq: 84.5

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: ***Demolition***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	60	0
Air Compressor	1	78	40%	60	0
Excavator	1	81	40%	85	0
Rubber Tired Dozer	1	82	40%	85	0
Rubber Tired Loader	1	79	40%	110	0
Tractor/Loader/Backhoe	1	84	40%	110	0
Crushing/Proc. Equipment	1	85	50%	135	0
Concrete Saw	1	90	20%	135	0
Air Compressor	1	78	40%	160	0
Excavator	1	81	40%	160	0
Concrete Saw	3	90	20%	185	0
Excavator	2	81	40%	185	0
Water Truck	4	82	10%	210	0
Rough Terrain Forklifts	2	83	40%	210	0
Tractor/Loader/Backhoe	3	84	40%	210	0
	24				

Receptor: ***R3***

Results:

1-hour Leq: 85.6

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: *Grading/Excavation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Scrapers	1	84	40%	60	0
Roller	1	81	16%	60	0
Excavator	1	80	2%	85	0
Water Truck	1	82	10%	85	0
Rubber Tired Dozer	1	82	40%	110	0
Rubber Tired Loader	1	79	40%	110	0
Tractor/Loader/Backhoe	1	84	40%	135	0
Scrapers	1	84	40%	135	0
Excavator	1	81	40%	160	0
Water Truck	1	82	10%	160	0
Rubber Tired Dozer	1	82	40%	185	0
Rubber Tired Loader	1	79	40%	185	0
Tractor/Loader/Backhoe	1	84	40%	210	0
Scrapers	1	84	40%	210	0
	14				

Receptor: ***R3***

Results:

1-hour Leq: 82.1

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: *Foundation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Tractor/Loader/Backhoe	1	84	40%	60	0
Water Truck	1	82	10%	60	0
Concrete Pump	1	81	50%	85	0
Surfacing Equipment	1	77	50%	85	0
Crane	1	81	16%	110	0
Plate Compactors	1	83	20%	110	0
Skid Steer Loaders	2	79	40%	135	0
Welder	1	74	40%	135	0
Rough Terrain Forklifts	2	83	40%	160	0
Tractor/Loader/Backhoe	1	84	40%	160	0
Water Truck	1	82	10%	185	0
Concrete Pump	1	81	50%	185	0
Surfacing Equipment	3	77	50%	210	0
Crane	1	81	16%	210	0
Plate Compactors	1	83	20%	210	0
	19				

Receptor: ***R3***

Results:

1-hour Leq: 82.4

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: ***Building Construction***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	60	0
Aerial Lifts	1	75	20%	60	0
Air Compressor	2	78	40%	85	0
Crane	1	81	16%	85	0
Water Truck	1	82	10%	110	0
Rough Terrain Forklifts	6	83	40%	110	0
Pump	2	81	20%	135	0
Plate Compactor	2	83	20%	135	0
Welder	4	74	40%	160	0
Tractor/Loader/Backhoe	4	84	40%	160	0
Skid Steer Loaders	2	79	40%	185	0
Others (misc)	5	85	50%	185	0
Concrete Saw	1	90	20%	210	0
Aerial Lifts	15	75	20%	210	0
Crane	3	81	16%	210	0
	50				

Receptor: ***R3***

Results:

1-hour Leq: 86.2

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: ***Paving/Landscape***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	60	0
Rough Terrain Forklifts	1	83	40%	60	0
Air Compressor	2	78	40%	85	0
Crane	2	81	16%	85	0
Water Truck	1	82	10%	110	0
Pump	1	81	20%	110	0
Plate Compactor	2	83	20%	135	0
Trencher	2	80	50%	135	0
Tractor/Loader/Backhoe	2	84	40%	160	0
Loaders (Skid and Tired)	5	79	40%	160	0
Cement and Mortar Mixers	2	80	50%	185	0
Pavers and Paving Equip.	2	77	50%	185	0
Aerial Lifts	4	75	20%	210	0
Concrete Saw	1	90	20%	210	0
Rough Terrain Forklifts	1	83	40%	210	0
	29				

Receptor: ***R3***

Results:

1-hour Leq: 85.1

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: ***Demolition***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	310	15
Air Compressor	1	78	40%	310	15
Excavator	1	81	40%	335	15
Rubber Tired Dozer	1	82	40%	335	15
Rubber Tired Loader	1	79	40%	360	15
Tractor/Loader/Backhoe	1	84	40%	360	15
Crushing/Proc. Equipment	1	85	50%	385	15
Concrete Saw	1	90	20%	385	15
Air Compressor	1	78	40%	410	15
Excavator	1	81	40%	410	15
Concrete Saw	3	90	20%	435	15
Excavator	2	81	40%	435	15
Water Truck	4	82	10%	460	15
Rough Terrain Forklifts	2	83	40%	460	15
Tractor/Loader/Backhoe	3	84	40%	460	15
	24				

Receptor: ***R4***

Results:

1-hour Leq: 60.3

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: *Grading/Excavation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Scrapers	1	84	40%	310	15
Roller	1	81	16%	310	15
Excavator	1	80	2%	335	15
Water Truck	1	82	10%	335	15
Rubber Tired Dozer	1	82	40%	360	15
Rubber Tired Loader	1	79	40%	360	15
Tractor/Loader/Backhoe	1	84	40%	385	15
Scrapers	1	84	40%	385	15
Excavator	1	81	40%	410	15
Water Truck	1	82	10%	410	15
Rubber Tired Dozer	1	82	40%	435	15
Rubber Tired Loader	1	79	40%	435	15
Tractor/Loader/Backhoe	1	84	40%	460	15
Scrapers	1	84	40%	460	15
	14				

Receptor: ***R4***

Results:

1-hour Leq: 56.3

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: *Foundation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Tractor/Loader/Backhoe	1	84	40%	310	15
Water Truck	1	82	10%	310	15
Concrete Pump	1	81	50%	335	15
Surfacing Equipment	1	77	50%	335	15
Crane	1	81	16%	360	15
Plate Compactors	1	83	20%	360	15
Skid Steer Loaders	2	79	40%	385	15
Welder	1	74	40%	385	15
Rough Terrain Forklifts	2	83	40%	410	15
Tractor/Loader/Backhoe	1	84	40%	410	15
Water Truck	1	82	10%	435	15
Concrete Pump	1	81	50%	435	15
Surfacing Equipment	3	77	50%	460	15
Crane	1	81	16%	460	15
Plate Compactors	1	83	20%	460	15
	19				

Receptor: ***R4***

Results:

1-hour Leq: 56.4

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: ***Building Construction***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	310	15
Aerial Lifts	1	75	20%	310	15
Air Compressor	2	78	40%	335	15
Crane	1	81	16%	335	15
Water Truck	1	82	10%	360	15
Rough Terrain Forklifts	6	83	40%	360	15
Pump	2	81	20%	385	15
Plate Compactor	2	83	20%	385	15
Welder	4	74	40%	410	15
Tractor/Loader/Backhoe	4	84	40%	410	15
Skid Steer Loaders	2	79	40%	435	15
Others (misc)	5	85	50%	435	15
Concrete Saw	1	90	20%	460	15
Aerial Lifts	15	75	20%	460	15
Crane	3	81	16%	460	15
	50				

Receptor: ***R4***

Results:

1-hour Leq: 61.1

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: ***Paving/Landscape***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	310	15
Rough Terrain Forklifts	1	83	40%	310	15
Air Compressor	2	78	40%	335	15
Crane	2	81	16%	335	15
Water Truck	1	82	10%	360	15
Pump	1	81	20%	360	15
Plate Compactor	2	83	20%	385	15
Trencher	2	80	50%	385	15
Tractor/Loader/Backhoe	2	84	40%	410	15
Loaders (Skid and Tired)	5	79	40%	410	15
Cement and Mortar Mixers	2	80	50%	435	15
Pavers and Paving Equip.	2	77	50%	435	15
Aerial Lifts	4	75	20%	460	15
Concrete Saw	1	90	20%	460	15
Rough Terrain Forklifts	1	83	40%	460	15
	29				

Receptor: ***R4***

Results:

1-hour Leq: 58.8

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: ***Demolition***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	430	15
Air Compressor	1	78	40%	430	15
Excavator	1	81	40%	455	15
Rubber Tired Dozer	1	82	40%	455	15
Rubber Tired Loader	1	79	40%	480	15
Tractor/Loader/Backhoe	1	84	40%	480	15
Crushing/Proc. Equipment	1	85	50%	505	15
Concrete Saw	1	90	20%	505	15
Air Compressor	1	78	40%	530	15
Excavator	1	81	40%	530	15
Concrete Saw	3	90	20%	555	15
Excavator	2	81	40%	555	15
Water Truck	4	82	10%	580	15
Rough Terrain Forklifts	2	83	40%	580	15
Tractor/Loader/Backhoe	3	84	40%	580	15
	24				

Receptor: ***R5***

Results:

1-hour Leq: 57.9

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: *Grading/Excavation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Scrapers	1	84	40%	430	15
Roller	1	81	16%	430	15
Excavator	1	80	2%	455	15
Water Truck	1	82	10%	455	15
Rubber Tired Dozer	1	82	40%	480	15
Rubber Tired Loader	1	79	40%	480	15
Tractor/Loader/Backhoe	1	84	40%	505	15
Scrapers	1	84	40%	505	15
Excavator	1	81	40%	530	15
Water Truck	1	82	10%	530	15
Rubber Tired Dozer	1	82	40%	555	15
Rubber Tired Loader	1	79	40%	555	15
Tractor/Loader/Backhoe	1	84	40%	580	15
Scrapers	1	84	40%	580	15
	14				

Receptor: ***R5***

Results:

1-hour Leq: 53.9

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: *Foundation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Tractor/Loader/Backhoe	1	84	40%	430	15
Water Truck	1	82	10%	430	15
Concrete Pump	1	81	50%	455	15
Surfacing Equipment	1	77	50%	455	15
Crane	1	81	16%	480	15
Plate Compactors	1	83	20%	480	15
Skid Steer Loaders	2	79	40%	505	15
Welder	1	74	40%	505	15
Rough Terrain Forklifts	2	83	40%	530	15
Tractor/Loader/Backhoe	1	84	40%	530	15
Water Truck	1	82	10%	555	15
Concrete Pump	1	81	50%	555	15
Surfacing Equipment	3	77	50%	580	15
Crane	1	81	16%	580	15
Plate Compactors	1	83	20%	580	15
	19				

Receptor: ***R5***

Results:

1-hour Leq: 54.0

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: ***Building Construction***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	430	15
Aerial Lifts	1	75	20%	430	15
Air Compressor	2	78	40%	455	15
Crane	1	81	16%	455	15
Water Truck	1	82	10%	480	15
Rough Terrain Forklifts	6	83	40%	480	15
Pump	2	81	20%	505	15
Plate Compactor	2	83	20%	505	15
Welder	4	74	40%	530	15
Tractor/Loader/Backhoe	4	84	40%	530	15
Skid Steer Loaders	2	79	40%	555	15
Others (misc)	5	85	50%	555	15
Concrete Saw	1	90	20%	580	15
Aerial Lifts	15	75	20%	580	15
Crane	3	81	16%	580	15
	50				

Receptor: ***R5***

Results:

1-hour Leq: 58.8

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: ***Paving/Landscape***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	430	15
Rough Terrain Forklifts	1	83	40%	430	15
Air Compressor	2	78	40%	455	15
Crane	2	81	16%	455	15
Water Truck	1	82	10%	480	15
Pump	1	81	20%	480	15
Plate Compactor	2	83	20%	505	15
Trencher	2	80	50%	505	15
Tractor/Loader/Backhoe	2	84	40%	530	15
Loaders (Skid and Tired)	5	79	40%	530	15
Cement and Mortar Mixers	2	80	50%	555	15
Pavers and Paving Equip.	2	77	50%	555	15
Aerial Lifts	4	75	20%	580	15
Concrete Saw	1	90	20%	580	15
Rough Terrain Forklifts	1	83	40%	580	15
	29				

Receptor: ***R5***

Results:

1-hour Leq: 56.4

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: ***Demolition***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	25	0
Air Compressor	1	78	40%	50	0
Excavator	1	81	40%	50	0
Rubber Tired Dozer	1	82	40%	75	0
Rubber Tired Loader	1	79	40%	75	0
Tractor/Loader/Backhoe	1	84	40%	100	0
Crushing/Proc. Equipment	1	85	50%	100	0
Concrete Saw	1	90	20%	125	0
Air Compressor	1	78	40%	125	0
Excavator	1	81	40%	150	0
Concrete Saw	3	90	20%	150	0
Excavator	2	81	40%	175	0
Water Truck	4	82	10%	175	0
Rough Terrain Forklifts	2	83	40%	200	0
Tractor/Loader/Backhoe	3	84	40%	200	0
	24				

Receptor: ***R6***

Results:

1-hour Leq: **90.5**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: *Grading/Excavation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Scrapers	1	84	40%	25	0
Roller	1	81	16%	50	0
Excavator	1	80	2%	50	0
Water Truck	1	82	10%	75	0
Rubber Tired Dozer	1	82	40%	75	0
Rubber Tired Loader	1	79	40%	100	0
Tractor/Loader/Backhoe	1	84	40%	100	0
Scrapers	1	84	40%	125	0
Excavator	1	81	40%	125	0
Water Truck	1	82	10%	150	0
Rubber Tired Dozer	1	82	40%	150	0
Rubber Tired Loader	1	79	40%	175	0
Tractor/Loader/Backhoe	1	84	40%	175	0
Scrapers	1	84	40%	200	0
	14				

Receptor: ***R6***

Results:

1-hour Leq: 87.3

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: *Foundation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Tractor/Loader/Backhoe	1	84	40%	25	0
Water Truck	1	82	10%	50	0
Concrete Pump	1	81	50%	50	0
Surfacing Equipment	1	77	50%	75	0
Crane	1	81	16%	75	0
Plate Compactors	1	83	20%	100	0
Skid Steer Loaders	2	79	40%	100	0
Welder	1	74	40%	125	0
Rough Terrain Forklifts	2	83	40%	125	0
Tractor/Loader/Backhoe	1	84	40%	150	0
Water Truck	1	82	10%	150	0
Concrete Pump	1	81	50%	175	0
Surfacing Equipment	3	77	50%	175	0
Crane	1	81	16%	200	0
Plate Compactors	1	83	20%	200	0
	19				

Receptor: ***R6***

Results:

1-hour Leq: 87.6

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: ***Building Construction***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	25	0
Aerial Lifts	1	75	20%	50	0
Air Compressor	2	78	40%	50	0
Crane	1	81	16%	75	0
Water Truck	1	82	10%	75	0
Rough Terrain Forklifts	6	83	40%	100	0
Pump	2	81	20%	100	0
Plate Compactor	2	83	20%	125	0
Welder	4	74	40%	125	0
Tractor/Loader/Backhoe	4	84	40%	150	0
Skid Steer Loaders	2	79	40%	150	0
Others (misc)	5	85	50%	175	0
Concrete Saw	1	90	20%	175	0
Aerial Lifts	15	75	20%	200	0
Crane	3	81	16%	200	0
	50				

Receptor: ***R6***

Results:

1-hour Leq: 90.7

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: ***Paving/Landscape***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	25	0
Rough Terrain Forklifts	1	83	40%	50	0
Air Compressor	2	78	40%	50	0
Crane	2	81	16%	75	0
Water Truck	1	82	10%	75	0
Pump	1	81	20%	100	0
Plate Compactor	2	83	20%	100	0
Trencher	2	80	50%	125	0
Tractor/Loader/Backhoe	2	84	40%	125	0
Loaders (Skid and Tired)	5	79	40%	150	0
Cement and Mortar Mixers	2	80	50%	150	0
Pavers and Paving Equip.	2	77	50%	175	0
Aerial Lifts	4	75	20%	175	0
Concrete Saw	1	90	20%	200	0
Rough Terrain Forklifts	1	83	40%	200	0
	29				

Receptor: ***R6***

Results:

1-hour Leq: 90.3

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: ***Demolition***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	245	0
Air Compressor	1	78	40%	245	0
Excavator	1	81	40%	270	0
Rubber Tired Dozer	1	82	40%	270	0
Rubber Tired Loader	1	79	40%	295	0
Tractor/Loader/Backhoe	1	84	40%	295	0
Crushing/Proc. Equipment	1	85	50%	320	0
Concrete Saw	1	90	20%	320	0
Air Compressor	1	78	40%	345	0
Excavator	1	81	40%	345	0
Concrete Saw	3	90	20%	370	0
Excavator	2	81	40%	370	0
Water Truck	4	82	10%	395	0
Rough Terrain Forklifts	2	83	40%	395	0
Tractor/Loader/Backhoe	3	84	40%	395	0
	24				

Receptor: ***R6A***

Results:

1-hour Leq: 76.9

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: *Grading/Excavation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Scrapers	1	84	40%	245	0
Roller	1	81	16%	245	0
Excavator	1	80	2%	270	0
Water Truck	1	82	10%	270	0
Rubber Tired Dozer	1	82	40%	295	0
Rubber Tired Loader	1	79	40%	295	0
Tractor/Loader/Backhoe	1	84	40%	320	0
Scrapers	1	84	40%	320	0
Excavator	1	81	40%	345	0
Water Truck	1	82	10%	345	0
Rubber Tired Dozer	1	82	40%	370	0
Rubber Tired Loader	1	79	40%	370	0
Tractor/Loader/Backhoe	1	84	40%	395	0
Scrapers	1	84	40%	395	0
	14				

Receptor: ***R6A***

Results:

1-hour Leq: 72.9

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: *Foundation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Tractor/Loader/Backhoe	1	84	40%	245	0
Water Truck	1	82	10%	245	0
Concrete Pump	1	81	50%	270	0
Surfacing Equipment	1	77	50%	270	0
Crane	1	81	16%	295	0
Plate Compactors	1	83	20%	295	0
Skid Steer Loaders	2	79	40%	320	0
Welder	1	74	40%	320	0
Rough Terrain Forklifts	2	83	40%	345	0
Tractor/Loader/Backhoe	1	84	40%	345	0
Water Truck	1	82	10%	370	0
Concrete Pump	1	81	50%	370	0
Surfacing Equipment	3	77	50%	395	0
Crane	1	81	16%	395	0
Plate Compactors	1	83	20%	395	0
	19				

Receptor: ***R6A***

Results:

1-hour Leq: 73.1

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: ***Building Construction***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	245	0
Aerial Lifts	1	75	20%	245	0
Air Compressor	2	78	40%	270	0
Crane	1	81	16%	270	0
Water Truck	1	82	10%	295	0
Rough Terrain Forklifts	6	83	40%	295	0
Pump	2	81	20%	320	0
Plate Compactor	2	83	20%	320	0
Welder	4	74	40%	345	0
Tractor/Loader/Backhoe	4	84	40%	345	0
Skid Steer Loaders	2	79	40%	370	0
Others (misc)	5	85	50%	370	0
Concrete Saw	1	90	20%	395	0
Aerial Lifts	15	75	20%	395	0
Crane	3	81	16%	395	0
	50				

Receptor: ***R6A***

Results:

1-hour Leq: 77.7

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: ***Paving/Landscape***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	245	0
Rough Terrain Forklifts	1	83	40%	245	0
Air Compressor	2	78	40%	270	0
Crane	2	81	16%	270	0
Water Truck	1	82	10%	295	0
Pump	1	81	20%	295	0
Plate Compactor	2	83	20%	320	0
Trencher	2	80	50%	320	0
Tractor/Loader/Backhoe	2	84	40%	345	0
Loaders (Skid and Tired)	5	79	40%	345	0
Cement and Mortar Mixers	2	80	50%	370	0
Pavers and Paving Equip.	2	77	50%	370	0
Aerial Lifts	4	75	20%	395	0
Concrete Saw	1	90	20%	395	0
Rough Terrain Forklifts	1	83	40%	395	0
	29				

Receptor: ***R6A***

Results:

1-hour Leq: 75.5

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: ***Demolition***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	580	5
Air Compressor	1	78	40%	580	5
Excavator	1	81	40%	605	5
Rubber Tired Dozer	1	82	40%	605	5
Rubber Tired Loader	1	79	40%	630	5
Tractor/Loader/Backhoe	1	84	40%	630	5
Crushing/Proc. Equipment	1	85	50%	655	5
Concrete Saw	1	90	20%	655	5
Air Compressor	1	78	40%	680	5
Excavator	1	81	40%	680	5
Concrete Saw	3	90	20%	705	5
Excavator	2	81	40%	705	5
Water Truck	4	82	10%	730	5
Rough Terrain Forklifts	2	83	40%	730	5
Tractor/Loader/Backhoe	3	84	40%	730	5
	24				

Receptor: ***R7***

Results:

1-hour Leq: **65.7**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: *Grading/Excavation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Scrapers	1	84	40%	580	5
Roller	1	81	16%	580	5
Excavator	1	80	2%	605	5
Water Truck	1	82	10%	605	5
Rubber Tired Dozer	1	82	40%	630	5
Rubber Tired Loader	1	79	40%	630	5
Tractor/Loader/Backhoe	1	84	40%	655	5
Scrapers	1	84	40%	655	5
Excavator	1	81	40%	680	5
Water Truck	1	82	10%	680	5
Rubber Tired Dozer	1	82	40%	705	5
Rubber Tired Loader	1	79	40%	705	5
Tractor/Loader/Backhoe	1	84	40%	730	5
Scrapers	1	84	40%	730	5
	14				

Receptor: ***R7***

Results:

1-hour Leq: 61.6

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: *Foundation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Tractor/Loader/Backhoe	1	84	40%	580	5
Water Truck	1	82	10%	580	5
Concrete Pump	1	81	50%	605	5
Surfacing Equipment	1	77	50%	605	5
Crane	1	81	16%	630	5
Plate Compactors	1	83	20%	630	5
Skid Steer Loaders	2	79	40%	655	5
Welder	1	74	40%	655	5
Rough Terrain Forklifts	2	83	40%	680	5
Tractor/Loader/Backhoe	1	84	40%	680	5
Water Truck	1	82	10%	705	5
Concrete Pump	1	81	50%	705	5
Surfacing Equipment	3	77	50%	730	5
Crane	1	81	16%	730	5
Plate Compactors	1	83	20%	730	5
	19				

Receptor: ***R7***

Results:

1-hour Leq: 61.7

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: ***Building Construction***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	580	5
Aerial Lifts	1	75	20%	580	5
Air Compressor	2	78	40%	605	5
Crane	1	81	16%	605	5
Water Truck	1	82	10%	630	5
Rough Terrain Forklifts	6	83	40%	630	5
Pump	2	81	20%	655	5
Plate Compactor	2	83	20%	655	5
Welder	4	74	40%	680	5
Tractor/Loader/Backhoe	4	84	40%	680	5
Skid Steer Loaders	2	79	40%	705	5
Others (misc)	5	85	50%	705	5
Concrete Saw	1	90	20%	730	5
Aerial Lifts	15	75	20%	730	5
Crane	3	81	16%	730	5
	50				

Receptor: ***R7***

Results:

1-hour Leq: 66.5

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: ***Paving/Landscape***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	580	5
Rough Terrain Forklifts	1	83	40%	580	5
Air Compressor	2	78	40%	605	5
Crane	2	81	16%	605	5
Water Truck	1	82	10%	630	5
Pump	1	81	20%	630	5
Plate Compactor	2	83	20%	655	5
Trencher	2	80	50%	655	5
Tractor/Loader/Backhoe	2	84	40%	680	5
Loaders (Skid and Tired)	5	79	40%	680	5
Cement and Mortar Mixers	2	80	50%	705	5
Pavers and Paving Equip.	2	77	50%	705	5
Aerial Lifts	4	75	20%	730	5
Concrete Saw	1	90	20%	730	5
Rough Terrain Forklifts	1	83	40%	730	5
	29				

Receptor: ***R7***

Results:

1-hour Leq: 64.1

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Off-Site Haul Trucks

Phase	Maximum Number of Truck One Way Trips (delivery/haul) Per Day	Per Hour (8-hr day)	Estimated Noise Levels, dBA Alameda
TNM noise level for 1 trucks			48.4
1. Demolition	112	19	61.2
2. Grading/Excavation	516	86	67.7
3. Foundation	136	17	60.7
4. Building Construction	104	13	59.5
5. Paving/Landscape	40	5	55.4
** 8-hours for delivery trucks*		Ambient, dBA	71.1
*** 6-hours for haul trucks (demo/grading)*		Significance Criteria, dBA	76.1

	Estimated Noise Levels - Project + Ambient, Leq(hr) Alameda
1. Demolition	71.5
2. Grading/Excavation	72.7
3. Foundation	71.5
4. Building Construction	71.4
5. Paving/Landscape	71.2

	Estimated Noise Increase, Leq(hr) Alameda
1. Demolition	0.4
2. Grading/Excavation	1.6
3. Foundation	0.4
4. Building Construction	0.3
5. Paving/Landscape	0.1
Maximum Noise Increase, dBA (Leq)	1.6

Eyestone Environmental 30 January 2024
SKB TNM 2.5

INPUT: ROADWAYS
PROJECT/CONTRACT: East End Studios ADLA
RUN: Construction Truck

Average pavement type shall be used unless 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 Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
Haul Route	12.0	point1	1	0.0	0.0	0.00	Signal	0.00	50	Average	
		point2	2	1,000.0	0.0	0.00					

Eyestone Environmental				**30 January 2024**								
SKB				**TNM 2.5**								
INPUT: TRAFFIC FOR LAeq1h Volumes												
PROJECT/CONTRACT:	**East End Studios ADLA**											
RUN:	**Construction Truck**											
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										

Eyestone Environmental						**30 January 2024**					
SKB						**TNM 2.5**					
INPUT: RECEIVERS											
PROJECT/CONTRACT:	**East End Studios ADLA**										
RUN:	**Construction Truck**										
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	
Receptor along Alameda	1	1	500.0	50.0	0.00	4.92	0.00	71	5.0	0.0	Y

Eyestone Environmental
SKB

30 January 2024
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: East End Studios ADLA
RUN: Construction Truck
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
Receptor along Alameda	1	1	0.0	48.4	71	48.4	5	----	48.4	0.0	0	0.0

Dwelling Units	# DUs	Noise Reduction Min	Avg	Max
		dB	dB	dB
All Selected	1	0.0	0.0	0.0
All Impacted	0	0.0	0.0	0.0
All that meet NR Goal	1	0.0	0.0	0.0

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: ***Off-Site Utility Connections***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	75	0
Loader	1	79	40%	75	0

2

Receptor: ***R1***

Results:

1-hour Leq: 80.1

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: ***Off-Site Utility Connections***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	20	0
Loader	1	79	40%	20	0

2

Receptor: ***R2***

Results:

1-hour Leq: 91.6

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: ***Off-Site Utility Connections***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	25	0
Loader	1	79	40%	25	0

2

Receptor: ***R3***

Results:

1-hour Leq: 89.7

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: ***Off-Site Utility Connections***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	480	15
Loader	1	79	40%	480	15

2

Receptor: ***R4***

Results:

1-hour Leq: 49.0

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: ***Off-Site Utility Connections***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	900	15
Loader	1	79	40%	900	15

2

Receptor: ***R5***

Results:

1-hour Leq: 43.5

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: ***Off-Site Utility Connections***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	230	0
Loader	1	79	40%	255	0

2

Receptor: ***R6***

Results:

1-hour Leq: **70.3**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: ***Off-Site Utility Connections***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	460	5
Loader	1	79	40%	460	5

2

Receptor: ***R6A***

Results:

1-hour Leq: 59.4

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: ***Off-Site Utility Connections***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	565	5
Loader	1	79	40%	565	5

2

Receptor: ***R7***

Results:

1-hour Leq: 57.6

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

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 Damage

Equipment	Reference Vibration Levels at 25 ft., PPV	Estimated Vibration Levels at nearest off-site building structures, distance in feet, PPV									
		1205, 1235, 1269, E. 6th St. (Historic)		1275, 1281, 1291, E 6th St. (Historic)		1309 E 6th St. (Historic)		1340 E 6th St. (Historic)		1567 Industrial St. (Historic)	
		Distance	Level	Distance	Level	Distance	Level	Distance	Level	Distance	Level
Vibratory Roller	0.210	80	0.037	80	0.037	65	0.05010	60	0.0565	45	0.087
Large Bulldozer	0.089	80	0.016	80	0.016	65	0.02120	60	0.0239	45	0.037
Caisson Drilling	0.089	80	0.016	80	0.016	65	0.02120	60	0.0239	45	0.037
Loaded Trucks	0.076	80	0.013	80	0.013	65	0.01810	60	0.0204	45	0.032
Jackhammer	0.035	80	0.006	80	0.006	65	0.00830	60	0.0094	45	0.015
Small bulldozer	0.003	80	0.001	80	0.001	65	0.00070	60	0.0008	45	0.001

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									
		Buildings on North Side of E 6th St.		Building on East side of Mill St.		Multi-Residential Bldg. South of PS		Commercial Bldg. West of PS			
		Distance	Level	Distance	Level	Distance	Level	Distance	Level		
Vibratory Roller	0.210	80	0.037	60	0.057	15	0.368	130	0.018		
Large Bulldozer	0.089	80	0.016	60	0.024	15	0.156	130	0.008		
Caisson Drilling	0.089	80	0.016	60	0.024	15	0.156	130	0.008		
Loaded Trucks	0.076	80	0.013	60	0.020	15	0.133	130	0.006		
Jackhammer	0.035	80	0.006	60	0.009	15	0.061	130	0.003		
Small bulldozer	0.003	80	0.001	60	0.001	15	0.005	130	0.000		

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		R5	
		Distance	Level	Distance	Level	Distance	Level	Distance	Level	Distance	Level
Vibratory Roller	94	80	79	80	79	60	83	310	61	430	57
Large Bulldozer	87	80	72	80	72	60	76	310	54	430	50
Caisson Drilling	87	80	72	80	72	60	76	310	54	430	50
Loaded Truck	86	80	71	80	71	60	75	310	53	430	49
Jackhammer	79	80	64	80	64	60	68	310	46	430	42
Small bulldozer	58	80	43	80	43	60	47	310	25	430	21

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									
		R6		R7		R6A					
		Distance	Level	Distance	Level	Distance	Level	Distance	Level	Distance	Level
Vibratory Roller	94	15	99	580	53	245	64				
Large Bulldozer	87	15	92	580	46	245	57				
Caisson Drilling	87	15	92	580	46	245	57				
Loaded Truck	86	15	91	580	45	245	56				
Jackhammer	79	15	84	580	38	245	49				
Small bulldozer	58	15	63	580	17	245	28				

OFF-SITE CONSTRUCTION HAUL TRUCKS

Table 3: Off-Site Haul Trucks - Building Damage

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

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									
Typical road surface	63	75									

Ref. Levels based on FTA Figure 7-3

Operation Noise Calculations

AES
ACOUSTICAL ENGINEERING SERVICES

Project Composite Noise Calculations (CNEL)

Project: East End Studios ADLA Project

Receptor	Ambient	Traffic[a]	Mechanical	Outdoor Spaces	Parking	Loading	Outdoor Production	Project Composite	Ambient + Project	Increase
R1	71.9	60.2	48.7	53.0	33.7	48.2	38.6	61.5	72.3	0.4
R1U	71.9	58.5	53.2	57.8	34.3	45.8	39.7	61.9	72.3	0.4
R2	73.3	60.2	50.2	52.7	37.1	50.9	41.0	61.7	73.6	0.3
R3	70.1	54.0	47.9	53.2	52.9	67.3	57.3	68.2	72.3	2.2
R3U	70.1	48.7	62.1	67.0	47.1	60.7	52.9	69.1	72.6	2.5
R4	60.8	45.1	48.4	45.8	27.8	38.8	31.7	51.7	61.3	0.5
R4U	60.8	40.1	55.7	56.4	37.6	44.9	41.4	59.4	63.2	2.4
R5	69.0	58.4	32.8	34.1	24.1	37.6	32.5	58.5	69.4	0.4
R6	72.4	42.4	52.4	48.4	35.8	49.8	44.3	55.8	72.5	0.1
R6U	72.4	47.4	65.3	64.8	46.6	61.2	55.8	69.1	74.1	1.7
R7	62.6	45.4	49.0	52.4	40.7	48.4	46.6	56.2	63.5	0.9

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

U - Represents upper levels.

		Traffic Noise Levels, CNEL								
Receptor	Roadway Segment	Existing	Existing + Project	Project Only	distance to roadway, ft	Existing	Existing + Project	barrier	distance to Center Line	adj. for distance
R1	6th St.	68.5	69.1	60.2	10	68.5	69.1	0	25	0.0
R1U	6th St.	66.8	67.4	58.5	22	68.5	69.1	0	25	-1.7
R2	6th St.	68.5	69.1	60.2	10	68.5	69.1	0	25	0.0
R3	Mill St.	55.1	57.6	54.0	10	55.1	57.6	0	25	0.0
R3U	Mill St.	49.7	52.2	48.7	71	55.1	57.6	0	25	-5.4
R4	Mill St.	46.2	48.7	45.1	180	55.1	57.6	0	25	-8.9
R4U	Mill St.	41.2	43.7	40.1	180	55.1	57.6	-5	25	-8.9
R5	7th St.	68.6	69.0	58.4	10	68.6	69.0	0	45	0.0
R6	Alameda St.	55.7	55.9	42.4	300	69.4	69.6	-5	45	-8.7
R6U	Alameda St.	60.7	60.9	47.4	300	69.4	69.6	0	45	-8.7
R7	Alameda St.	58.6	58.8	45.4	500	69.4	69.6	0	45	-10.8

For Report

Receptor	Ambient	Traffic[a]	Mechanical	Outdoor Spaces	Parking	Loading	Outdoor Production	Project Composite	Ambient + Project	Increase
R1	71.9	58.5	53.2	57.8	34.3	45.8	39.7	61.9	72.3	0.4
R2	73.3	60.2	50.2	52.7	37.1	50.9	41.0	61.7	73.6	0.3
R3	70.1	48.7	62.1	67.0	47.1	60.7	52.9	69.1	72.6	2.5
R4	60.8	40.1	55.7	56.4	37.6	44.9	41.4	59.4	63.2	2.4
R5	69.0	58.4	32.8	34.1	24.1	37.6	32.5	58.5	69.4	0.4
R6	72.4	47.4	65.3	64.8	46.6	61.2	55.8	69.1	74.1	1.7
R7	62.6	45.4	49.0	52.4	40.7	48.4	46.6	56.2	63.5	0.9

AES
ACOUSTICAL ENGINEERING SERVICES

Outdoor Mechanical Equipment Noise Calculations

Project: East End Studios ADLA 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	42.0	48.7	42.0	42.0	42.0
R1U	46.5	53.2	46.5	46.5	46.5
R2	43.5	50.2	43.5	43.5	43.5
R3	41.2	47.9	41.2	41.2	41.2
R3U	55.4	62.1	55.4	55.4	55.4
R4	41.7	48.4	41.7	41.7	41.7
R4U	49.0	55.7	49.0	49.0	49.0
R5	26.1	32.8	26.1	26.1	26.1
R6	45.7	52.4	45.7	45.7	45.7
R6U	58.6	65.3	58.6	58.6	58.6
R7	42.3	49.0	42.3	42.3	42.3

Receptor	Ambient CNEL	Ambient + Project (CNEL)	Increase (CNEL)	ambient (Leq)	Ambient + Project (Leq)	Increase (Leq)
R1	71.9	71.9	0.0	65.4	65.4	0.0
R1U	71.9	72.0	0.1	65.4	65.5	0.1
R2	73.3	73.3	0.0	66.9	66.9	0.0
R3	70.1	70.1	0.0	62.9	62.9	0.0
R3U	70.1	70.7	0.6	62.9	63.6	0.7
R4	60.8	61.0	0.2	55.1	55.3	0.2
R4U	60.8	62.0	1.2	55.1	56.1	1.0
R5	69.0	69.0	0.0	61.9	61.9	0.0
R6	72.4	72.4	0.0	64.5	64.6	0.1
R6U	72.4	73.2	0.8	64.5	65.5	1.0
R7	62.6	62.8	0.2	56.7	56.9	0.2

For Report

Receptor	ambient (Leq)	Project (Leq)	Ambient + Project (Leq)	Increase (Leq)	Threshold
R1	65.4	46.5	65.5	0.1	70.4
R2	66.9	43.5	66.9	0.0	71.9
R3	62.9	55.4	63.6	0.7	67.9
R4	55.1	49.0	56.1	1.0	60.1
R5	61.9	26.1	61.9	0.0	66.9
R6	64.5	58.6	65.5	1.0	69.5
R7	56.7	42.3	56.9	0.2	61.7

AES
ACOUSTICAL ENGINEERING SERVICES

Outdoor Noise Calculations

Project: East End Studios ADLA 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	4
R1	48.5	38.5	48.9	53.0	48.9	48.9	45.4
R1U	53.3	42.6	53.7	57.8	53.7	53.7	50.2
R2	48.3	37.3	48.6	52.7	48.6	48.6	45.1
R3	47.6	43.8	49.1	53.2	49.1	49.1	45.6
R3U	62.2	54.5	62.9	67.0	62.9	62.9	59.4
R4	41.5	29.0	41.7	45.8	41.7	41.7	38.2
R4U	52.0	40.0	52.3	56.4	52.3	52.3	48.8
R5	29.4	21.0	30.0	34.1	30.0	30.0	26.5
R6	44.0	33.0	44.3	48.4	44.3	44.3	40.8
R6U	60.4	48.9	60.7	64.8	60.7	60.7	57.2
R7	47.8	38.7	48.3	52.4	48.3	48.3	44.8

Receptor	Ambient CNEL	Ambient + Project (CNEL)	Increase (CNEL)	ambient (Leq)	Project (Leq)	Ambient + Project (Leq)	Increase (Leq)
R1	71.9	72.0	0.1	65.4	48.9	65.5	0.1
R1U	71.9	72.1	0.2	65.4	53.7	65.7	0.3
R2	73.3	73.3	0.0	66.9	48.6	67.0	0.1
R3	70.1	70.2	0.1	62.9	49.1	63.1	0.2
R3U	70.1	71.8	1.7	62.9	62.9	65.9	3.0
R4	60.8	60.9	0.1	55.1	41.7	55.3	0.2
R4U	60.8	62.1	1.3	55.1	52.3	56.9	1.8
R5	69.0	69.0	0.0	61.9	30.0	61.9	0.0
R6	72.4	72.4	0.0	64.5	44.3	64.5	0.0
R6U	72.4	73.1	0.7	64.5	60.7	66.0	1.5
R7	62.6	63.0	0.4	56.7	48.3	57.3	0.6

For Report

Receptor	ambient (Leq)	Project (Leq)	Project (Leq)	Ambient + Project (Leq)	Threshold (Leq)
R1	65.4	53.7	65.7	0.3	70.4
R2	66.9	48.6	67.0	0.1	71.9
R3	62.9	62.9	65.9	3.0	67.9
R4	55.1	52.3	56.9	1.8	60.1
R5	61.9	30.0	61.9	0.0	66.9
R6	64.5	60.7	66.0	1.5	69.5
R7	56.7	48.3	57.3	0.6	61.7

AES
ACOUSTICAL ENGINEERING SERVICES

Parking Noise Calculations

Project: East End Studios ADLA Project

	Estimated Noise Levels, Leq from SOUNDPLAN		Hours of Operations Ld (7am to 7pm)	Le (7pm to 10pm)	Ln (10pm to 7am)
Receptor		CNEL	12	3	9
R1	27.0	33.7	27.0	27.0	27.0
R1U	27.6	34.3	27.6	27.6	27.6
R2	30.4	37.1	30.4	30.4	30.4
R3	46.2	52.9	46.2	46.2	46.2
R3U	40.4	47.1	40.4	40.4	40.4
R4	21.1	27.8	21.1	21.1	21.1
R4U	30.9	37.6	30.9	30.9	30.9
R5	17.4	24.1	17.4	17.4	17.4
R6	29.1	35.8	29.1	29.1	29.1
R6U	39.9	46.6	39.9	39.9	39.9
R7	34.0	40.7	34.0	34.0	34.0

Receptor	Ambient CNEL	Ambient + Project (CNEL)	Increase (CNEL)	ambient (Leq)	Ambient + Project (Leq)	Increase (Leq)
R1	71.9	71.9	0.0	65.4	65.4	0.0
R1U	71.9	71.9	0.0	65.4	65.4	0.0
R2	73.3	73.3	0.0	66.9	66.9	0.0
R3	70.1	70.2	0.1	62.9	63.0	0.1
R3U	70.1	70.1	0.0	62.9	62.9	0.0
R4	60.8	60.8	0.0	55.1	55.1	0.0
R4U	60.8	60.8	0.0	55.1	55.1	0.0
R5	69.0	69.0	0.0	61.9	61.9	0.0
R6	72.4	72.4	0.0	64.5	64.5	0.0
R6U	72.4	72.4	0.0	64.5	64.5	0.0
R7	62.6	62.6	0.0	56.7	56.7	0.0

For Report

Receptor	ambient (Leq)	Project (Leq)	Ambient + Project (Leq)	Increase (Leq)	Threshold
R1	65.4	27.6	65.4	0.0	70.4
R2	66.9	30.4	66.9	0.0	71.9
R3	62.9	46.2	63.0	0.1	67.9
R4	55.1	30.9	55.1	0.0	60.1
R5	61.9	17.4	61.9	0.0	66.9
R6	64.5	39.9	64.5	0.0	69.5
R7	56.7	34.0	56.7	0.0	61.7

AES
ACOUSTICAL ENGINEERING SERVICES

Loading Noise Calculations

Project: East End Studios ADLA Project

					Hours of Operations		
Estimated noise levels, Leq (FROM SOUNDPLAN)					Ld (7am to 7pm)	Le (7pm to 10pm)	Ln (10pm to 7am)
Receptor	Loading		Total, Leq	CNEL	12	**3**	**9**
R1	41.5		41.5	48.2	41.5	41.5	41.5
R1U	39.1		39.1	45.8	39.1	39.1	39.1
R2	44.2		44.2	50.9	44.2	44.2	44.2
R3	60.6		60.6	67.3	60.6	60.6	60.6
R3U	54.0		54.0	60.7	54.0	54.0	54.0
R4	32.1		32.1	38.8	32.1	32.1	32.1
R4U	38.2		38.2	44.9	38.2	38.2	38.2
R5	30.9		30.9	37.6	30.9	30.9	30.9
R6	43.1		43.1	49.8	43.1	43.1	43.1
R6U	54.5		54.5	61.2	54.5	54.5	54.5
R7	41.7		41.7	48.4	41.7	41.7	41.7

Receptor	Ambient CNEL	Ambient + Project (CNEL)	Increase (CNEL)	ambient (Leq)	Project (Leq)	Ambient + Project (Leq)	Increase (Leq)
R1	71.9	71.9	0.0	65.4	41.5	65.4	0.0
R1U	71.9	71.9	0.0	65.4	39.1	65.4	0.0
R2	73.3	73.3	0.0	66.9	44.2	66.9	0.0
R3	70.1	71.9	1.8	62.9	60.6	64.9	2.0
R3U	70.1	70.6	0.5	62.9	54.0	63.4	0.5
R4	60.8	60.8	0.0	55.1	32.1	55.1	0.0
R4U	60.8	60.9	0.1	55.1	38.2	55.2	0.1
R5	69.0	69.0	0.0	61.9	30.9	61.9	0.0
R6	72.4	72.4	0.0	64.5	43.1	64.5	0.0
R6U	72.4	72.7	0.3	64.5	54.5	64.9	0.4
R7	62.6	62.8	0.2	56.7	41.7	56.8	0.1

For Report

Receptor	ambient (Leq)	Project (Leq)	Project (Leq)	Ambient + Project (Leq)	Threshold (Leq)
R1	65.4	41.5	65.4	0.0	70.4
R2	66.9	44.2	66.9	0.0	71.9
R3	62.9	60.6	64.9	2.0	67.9
R4	55.1	38.2	55.2	0.1	60.1
R5	61.9	30.9	61.9	0.0	66.9
R6	64.5	54.5	64.9	0.4	69.5
R7	56.7	41.7	56.8	0.1	61.7

AES
ACOUSTICAL ENGINEERING SERVICES

Studio Operations Noise Calculations

Project: East End Studios ADLA Project

			Hours of Operations		
	Estimated Noise Levels, Leq from SOUNDPLAN		Ld (7am to 7pm)	Le (7pm to 10pm)	Ln (10pm to 7am)
Receptor		CNEL	12	3	9
R1	31.9	38.6	31.9	31.9	31.9
R1U	33.0	39.7	33.0	33.0	33.0
R2	34.3	41.0	34.3	34.3	34.3
R3	50.6	57.3	50.6	50.6	50.6
R3U	46.2	52.9	46.2	46.2	46.2
R4	25.0	31.7	25.0	25.0	25.0
R4U	34.7	41.4	34.7	34.7	34.7
R5	25.8	32.5	25.8	25.8	25.8
R6	37.6	44.3	37.6	37.6	37.6
R6U	49.1	55.8	49.1	49.1	49.1
R7	39.9	46.6	39.9	39.9	39.9

Receptor	Ambient CNEL	Ambient + Project (CNEL)	Increase (CNEL)	ambient (Leq)	Ambient + Project (Leq)	Increase (Leq)
R1	71.9	71.9	0.0	65.4	65.4	0.0
R1U	71.9	71.9	0.0	65.4	65.4	0.0
R2	73.3	73.3	0.0	66.9	66.9	0.0
R3	70.1	70.3	0.2	62.9	63.1	0.2
R3U	70.1	70.2	0.1	62.9	63.0	0.1
R4	60.8	60.8	0.0	55.1	55.1	0.0
R4U	60.8	60.8	0.0	55.1	55.1	0.0
R5	69.0	69.0	0.0	61.9	61.9	0.0
R6	72.4	72.4	0.0	64.5	64.5	0.0
R6U	72.4	72.5	0.1	64.5	64.6	0.1
R7	62.6	62.7	0.1	56.7	56.8	0.1

For Report

Receptor	ambient (Leq)	Project (Leq)	Ambient + Project (Leq)	Increase (Leq)	Threshold
R1	65.4	33.0	65.4	0.0	70.4
R2	66.9	34.3	66.9	0.0	71.9
R3	62.9	50.6	63.1	0.2	67.9
R4	55.1	34.7	55.1	0.0	60.1
R5	61.9	25.8	61.9	0.0	66.9
R6	64.5	49.1	64.6	0.1	69.5
R7	56.7	39.9	56.8	0.1	61.7

East End Studios ADLA
Source Levels in dB(A) - 01 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	
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	
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	
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	
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	

East End Studios ADLA
Source Levels in dB(A) - 01 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	

East End Studios ADLA
Calculated Noise Levels - 01 Mechanical

Source	Source type	Leq,d dB(A)	
Receiver R1 Fl G Leq,d 42.0 dB(A)			
Mechanical	Point	15.5	
Mechanical	Point	15.1	
Mechanical	Point	14.7	
Mechanical	Point	14.5	
Mechanical	Point	14.5	
Mechanical	Point	13.8	
Mechanical	Point	13.6	
Mechanical	Point	13.5	
Mechanical	Point	16.4	
Mechanical	Point	16.4	
Mechanical	Point	8.0	
Mechanical	Point	7.5	
Mechanical	Point	19.7	
Mechanical	Point	21.6	
Mechanical	Point	19.5	
Mechanical	Point	15.6	
Mechanical	Point	11.7	
Mechanical	Point	11.4	
Mechanical	Point	11.4	
Mechanical	Point	11.3	
Mechanical	Point	31.4	
Mechanical	Point	31.6	
Mechanical	Point	30.3	
Mechanical	Point	27.2	
Mechanical	Point	28.5	
Mechanical	Point	27.1	
Mechanical	Point	25.7	
Mechanical	Point	27.3	
Mechanical	Point	24.4	
Mechanical	Point	27.7	
Mechanical	Point	28.9	
Mechanical	Point	26.5	
Mechanical	Point	21.0	
Mechanical	Point	21.1	
Mechanical	Point	20.9	
Mechanical	Point	21.6	
Mechanical	Point	32.8	
Mechanical	Point	30.8	
Mechanical	Point	26.2	
Mechanical	Point	26.1	
Mechanical	Point	25.7	
Mechanical	Point	26.1	

East End Studios ADLA
Calculated Noise Levels - 01 Mechanical

Source	Source type	Leq,d dB(A)	
Mechanical	Point	28.2	
Mechanical	Point	26.9	
Receiver R1 Fl F2 Leq,d 46.5 dB(A)			
Mechanical	Point	17.9	
Mechanical	Point	17.7	
Mechanical	Point	17.5	
Mechanical	Point	16.6	
Mechanical	Point	17.0	
Mechanical	Point	16.6	
Mechanical	Point	16.3	
Mechanical	Point	16.1	
Mechanical	Point	24.6	
Mechanical	Point	24.4	
Mechanical	Point	13.4	
Mechanical	Point	12.9	
Mechanical	Point	25.5	
Mechanical	Point	27.2	
Mechanical	Point	27.1	
Mechanical	Point	23.3	
Mechanical	Point	15.8	
Mechanical	Point	15.5	
Mechanical	Point	15.3	
Mechanical	Point	15.1	
Mechanical	Point	36.1	
Mechanical	Point	36.4	
Mechanical	Point	32.1	
Mechanical	Point	33.8	
Mechanical	Point	34.2	
Mechanical	Point	33.6	
Mechanical	Point	30.4	
Mechanical	Point	30.7	
Mechanical	Point	30.2	
Mechanical	Point	30.8	
Mechanical	Point	31.0	
Mechanical	Point	30.7	
Mechanical	Point	25.6	
Mechanical	Point	25.6	
Mechanical	Point	25.4	
Mechanical	Point	26.3	
Mechanical	Point	39.1	
Mechanical	Point	36.7	
Mechanical	Point	27.2	
Mechanical	Point	27.0	

East End Studios ADLA
Calculated Noise Levels - 01 Mechanical

Source	Source type	Leq,d dB(A)	
Mechanical	Point	26.8	
Mechanical	Point	26.8	
Mechanical	Point	26.9	
Mechanical	Point	26.9	
Receiver R2 Fl G Leq,d 43.5 dB(A)			
Mechanical	Point	17.5	
Mechanical	Point	17.1	
Mechanical	Point	16.7	
Mechanical	Point	16.4	
Mechanical	Point	17.8	
Mechanical	Point	17.4	
Mechanical	Point	17.0	
Mechanical	Point	16.7	
Mechanical	Point	18.7	
Mechanical	Point	18.1	
Mechanical	Point	17.6	
Mechanical	Point	17.3	
Mechanical	Point	12.3	
Mechanical	Point	12.0	
Mechanical	Point	11.7	
Mechanical	Point	11.9	
Mechanical	Point	22.4	
Mechanical	Point	22.1	
Mechanical	Point	22.6	
Mechanical	Point	22.4	
Mechanical	Point	29.6	
Mechanical	Point	30.3	
Mechanical	Point	25.1	
Mechanical	Point	27.1	
Mechanical	Point	33.2	
Mechanical	Point	25.6	
Mechanical	Point	30.0	
Mechanical	Point	31.9	
Mechanical	Point	28.5	
Mechanical	Point	32.0	
Mechanical	Point	32.3	
Mechanical	Point	30.3	
Mechanical	Point	22.6	
Mechanical	Point	27.7	
Mechanical	Point	28.4	
Mechanical	Point	28.5	
Mechanical	Point	31.1	
Mechanical	Point	29.8	

East End Studios ADLA
Calculated Noise Levels - 01 Mechanical

Source	Source type	Leq,d dB(A)	
Mechanical	Point	30.0	
Mechanical	Point	24.7	
Mechanical	Point	23.3	
Mechanical	Point	19.2	
Mechanical	Point	30.6	
Mechanical	Point	28.7	
Receiver R3 Fl G Leq,d 41.2 dB(A)			
Mechanical	Point	17.3	
Mechanical	Point	14.6	
Mechanical	Point	13.7	
Mechanical	Point	13.2	
Mechanical	Point	15.8	
Mechanical	Point	15.1	
Mechanical	Point	15.0	
Mechanical	Point	15.0	
Mechanical	Point	16.7	
Mechanical	Point	15.4	
Mechanical	Point	15.2	
Mechanical	Point	15.1	
Mechanical	Point	23.8	
Mechanical	Point	23.5	
Mechanical	Point	23.3	
Mechanical	Point	23.3	
Mechanical	Point	22.7	
Mechanical	Point	22.3	
Mechanical	Point	21.4	
Mechanical	Point	20.4	
Mechanical	Point	16.3	
Mechanical	Point	11.9	
Mechanical	Point	17.3	
Mechanical	Point	13.1	
Mechanical	Point	13.1	
Mechanical	Point	17.7	
Mechanical	Point	16.8	
Mechanical	Point	12.6	
Mechanical	Point	16.9	
Mechanical	Point	14.6	
Mechanical	Point	14.4	
Mechanical	Point	19.1	
Mechanical	Point	25.1	
Mechanical	Point	26.1	
Mechanical	Point	26.1	
Mechanical	Point	25.3	

East End Studios ADLA
Calculated Noise Levels - 01 Mechanical

Source	Source type	Leq,d dB(A)	
Mechanical	Point	16.8	
Mechanical	Point	16.6	
Mechanical	Point	29.4	
Mechanical	Point	29.9	
Mechanical	Point	34.0	
Mechanical	Point	33.4	
Mechanical	Point	31.0	
Mechanical	Point	31.2	
Receiver R3 Fl F2 Leq,d 55.4 dB(A)			
Mechanical	Point	27.8	
Mechanical	Point	27.7	
Mechanical	Point	27.7	
Mechanical	Point	27.6	
Mechanical	Point	29.1	
Mechanical	Point	29.0	
Mechanical	Point	28.9	
Mechanical	Point	28.9	
Mechanical	Point	38.1	
Mechanical	Point	39.2	
Mechanical	Point	39.6	
Mechanical	Point	39.3	
Mechanical	Point	41.2	
Mechanical	Point	42.7	
Mechanical	Point	42.1	
Mechanical	Point	41.6	
Mechanical	Point	35.8	
Mechanical	Point	35.7	
Mechanical	Point	35.4	
Mechanical	Point	35.2	
Mechanical	Point	32.0	
Mechanical	Point	31.1	
Mechanical	Point	32.4	
Mechanical	Point	32.8	
Mechanical	Point	30.5	
Mechanical	Point	33.9	
Mechanical	Point	33.7	
Mechanical	Point	32.2	
Mechanical	Point	34.5	
Mechanical	Point	33.1	
Mechanical	Point	28.5	
Mechanical	Point	33.4	
Mechanical	Point	29.3	
Mechanical	Point	29.5	

East End Studios ADLA
Calculated Noise Levels - 01 Mechanical

Source	Source type	Leq,d dB(A)	
Mechanical	Point	29.8	
Mechanical	Point	29.8	
Mechanical	Point	29.3	
Mechanical	Point	28.9	
Mechanical	Point	44.8	
Mechanical	Point	45.5	
Mechanical	Point	46.4	
Mechanical	Point	46.0	
Mechanical	Point	43.9	
Mechanical	Point	44.2	
Receiver R4 Fl G Leq,d 41.7 dB(A)			
Mechanical	Point	23.6	
Mechanical	Point	23.8	
Mechanical	Point	24.0	
Mechanical	Point	14.1	
Mechanical	Point	24.7	
Mechanical	Point	25.0	
Mechanical	Point	25.2	
Mechanical	Point	25.4	
Mechanical	Point	24.7	
Mechanical	Point	28.1	
Mechanical	Point	30.6	
Mechanical	Point	31.6	
Mechanical	Point	26.5	
Mechanical	Point	26.9	
Mechanical	Point	29.0	
Mechanical	Point	31.8	
Mechanical	Point	23.9	
Mechanical	Point	25.1	
Mechanical	Point	26.5	
Mechanical	Point	28.0	
Mechanical	Point	15.7	
Mechanical	Point	15.3	
Mechanical	Point	16.2	
Mechanical	Point	16.5	
Mechanical	Point	16.1	
Mechanical	Point	16.9	
Mechanical	Point	15.6	
Mechanical	Point	15.5	
Mechanical	Point	16.0	
Mechanical	Point	16.4	
Mechanical	Point	16.2	
Mechanical	Point	16.6	

East End Studios ADLA
Calculated Noise Levels - 01 Mechanical

Source	Source type	Leq,d dB(A)	
Mechanical	Point	22.2	
Mechanical	Point	22.2	
Mechanical	Point	22.2	
Mechanical	Point	21.8	
Mechanical	Point	20.5	
Mechanical	Point	20.8	
Mechanical	Point	28.0	
Mechanical	Point	28.1	
Mechanical	Point	28.1	
Mechanical	Point	27.9	
Mechanical	Point	22.3	
Mechanical	Point	22.2	
Receiver R4 Fl F2 Leq,d 49.0 dB(A)			
Mechanical	Point	25.8	
Mechanical	Point	25.8	
Mechanical	Point	25.9	
Mechanical	Point	25.0	
Mechanical	Point	27.1	
Mechanical	Point	27.2	
Mechanical	Point	27.2	
Mechanical	Point	27.3	
Mechanical	Point	35.2	
Mechanical	Point	36.0	
Mechanical	Point	36.3	
Mechanical	Point	36.5	
Mechanical	Point	38.1	
Mechanical	Point	38.5	
Mechanical	Point	38.8	
Mechanical	Point	39.1	
Mechanical	Point	30.9	
Mechanical	Point	31.0	
Mechanical	Point	31.2	
Mechanical	Point	31.3	
Mechanical	Point	26.9	
Mechanical	Point	26.8	
Mechanical	Point	27.1	
Mechanical	Point	27.8	
Mechanical	Point	27.6	
Mechanical	Point	27.9	
Mechanical	Point	29.8	
Mechanical	Point	29.6	
Mechanical	Point	30.1	
Mechanical	Point	29.4	

East End Studios ADLA
Calculated Noise Levels - 01 Mechanical

Source	Source type	Leq,d dB(A)	
Mechanical	Point	29.2	
Mechanical	Point	29.7	
Mechanical	Point	25.6	
Mechanical	Point	25.7	
Mechanical	Point	25.9	
Mechanical	Point	25.9	
Mechanical	Point	25.5	
Mechanical	Point	25.6	
Mechanical	Point	33.8	
Mechanical	Point	34.0	
Mechanical	Point	34.2	
Mechanical	Point	33.9	
Mechanical	Point	32.6	
Mechanical	Point	32.8	
Receiver R5 Fl G Leq,d 26.1 dB(A)			
Mechanical	Point	8.5	
Mechanical	Point	8.7	
Mechanical	Point	9.0	
Mechanical	Point	9.2	
Mechanical	Point	9.5	
Mechanical	Point	9.8	
Mechanical	Point	10.1	
Mechanical	Point	10.4	
Mechanical	Point	9.4	
Mechanical	Point	9.8	
Mechanical	Point	10.3	
Mechanical	Point	11.4	
Mechanical	Point	8.4	
Mechanical	Point	8.9	
Mechanical	Point	9.6	
Mechanical	Point	11.7	
Mechanical	Point	9.9	
Mechanical	Point	10.3	
Mechanical	Point	10.6	
Mechanical	Point	10.9	
Mechanical	Point	8.3	
Mechanical	Point	8.1	
Mechanical	Point	8.6	
Mechanical	Point	6.8	
Mechanical	Point	6.5	
Mechanical	Point	7.0	
Mechanical	Point	6.6	
Mechanical	Point	6.2	

East End Studios ADLA
Calculated Noise Levels - 01 Mechanical

Source	Source type	Leq,d dB(A)	
Mechanical	Point	6.9	
Mechanical	Point	6.2	
Mechanical	Point	6.0	
Mechanical	Point	6.4	
Mechanical	Point	11.5	
Mechanical	Point	11.5	
Mechanical	Point	11.6	
Mechanical	Point	11.5	
Mechanical	Point	10.8	
Mechanical	Point	10.9	
Mechanical	Point	11.2	
Mechanical	Point	11.2	
Mechanical	Point	11.1	
Mechanical	Point	10.9	
Mechanical	Point	9.9	
Mechanical	Point	10.0	
Receiver R6 Fl G Leq,d 45.7 dB(A)			
Mechanical	Point	31.5	
Mechanical	Point	33.0	
Mechanical	Point	34.2	
Mechanical	Point	35.3	
Mechanical	Point	34.3	
Mechanical	Point	35.3	
Mechanical	Point	35.9	
Mechanical	Point	38.5	
Mechanical	Point	26.0	
Mechanical	Point	28.3	
Mechanical	Point	28.2	
Mechanical	Point	27.9	
Mechanical	Point	26.2	
Mechanical	Point	25.9	
Mechanical	Point	22.1	
Mechanical	Point	23.8	
Mechanical	Point	25.4	
Mechanical	Point	28.6	
Mechanical	Point	30.8	
Mechanical	Point	30.9	
Mechanical	Point	23.6	
Mechanical	Point	23.1	
Mechanical	Point	24.1	
Mechanical	Point	23.2	
Mechanical	Point	22.6	
Mechanical	Point	23.7	

East End Studios ADLA
Calculated Noise Levels - 01 Mechanical

Source	Source type	Leq,d dB(A)	
Mechanical	Point	16.3	
Mechanical	Point	16.0	
Mechanical	Point	16.6	
Mechanical	Point	17.1	
Mechanical	Point	15.3	
Mechanical	Point	16.7	
Mechanical	Point	25.6	
Mechanical	Point	25.6	
Mechanical	Point	25.7	
Mechanical	Point	25.3	
Mechanical	Point	18.9	
Mechanical	Point	19.1	
Mechanical	Point	19.6	
Mechanical	Point	17.9	
Mechanical	Point	20.2	
Mechanical	Point	17.6	
Mechanical	Point	19.1	
Mechanical	Point	19.3	
Receiver R6 Fl F2 Leq,d 58.6 dB(A)			
Mechanical	Point	45.4	
Mechanical	Point	45.8	
Mechanical	Point	46.2	
Mechanical	Point	46.6	
Mechanical	Point	47.2	
Mechanical	Point	48.3	
Mechanical	Point	49.7	
Mechanical	Point	51.1	
Mechanical	Point	36.7	
Mechanical	Point	37.3	
Mechanical	Point	37.4	
Mechanical	Point	37.5	
Mechanical	Point	33.8	
Mechanical	Point	33.9	
Mechanical	Point	34.5	
Mechanical	Point	34.6	
Mechanical	Point	41.1	
Mechanical	Point	41.4	
Mechanical	Point	41.7	
Mechanical	Point	41.9	
Mechanical	Point	38.7	
Mechanical	Point	38.3	
Mechanical	Point	39.2	
Mechanical	Point	38.0	

East End Studios ADLA
Calculated Noise Levels - 01 Mechanical

Source	Source type	Leq,d dB(A)	
Mechanical	Point	37.6	
Mechanical	Point	38.5	
Mechanical	Point	35.6	
Mechanical	Point	35.6	
Mechanical	Point	36.0	
Mechanical	Point	35.6	
Mechanical	Point	33.9	
Mechanical	Point	35.9	
Mechanical	Point	40.6	
Mechanical	Point	40.7	
Mechanical	Point	40.8	
Mechanical	Point	40.5	
Mechanical	Point	36.9	
Mechanical	Point	37.3	
Mechanical	Point	33.3	
Mechanical	Point	33.1	
Mechanical	Point	32.8	
Mechanical	Point	32.7	
Mechanical	Point	32.3	
Mechanical	Point	32.3	
Receiver R7 Fl G Leq,d 42.3 dB(A)			
Mechanical	Point	30.0	
Mechanical	Point	30.0	
Mechanical	Point	30.0	
Mechanical	Point	30.0	
Mechanical	Point	28.6	
Mechanical	Point	28.6	
Mechanical	Point	28.6	
Mechanical	Point	28.6	
Mechanical	Point	23.7	
Mechanical	Point	23.9	
Mechanical	Point	22.3	
Mechanical	Point	22.1	
Mechanical	Point	21.8	
Mechanical	Point	21.8	
Mechanical	Point	21.6	
Mechanical	Point	21.4	
Mechanical	Point	24.6	
Mechanical	Point	24.6	
Mechanical	Point	27.2	
Mechanical	Point	27.3	
Mechanical	Point	13.5	
Mechanical	Point	13.3	

East End Studios ADLA
Calculated Noise Levels - 01 Mechanical

Source	Source type	Leq,d dB(A)	
Mechanical	Point	14.1	
Mechanical	Point	13.9	
Mechanical	Point	13.6	
Mechanical	Point	15.1	
Mechanical	Point	15.8	
Mechanical	Point	14.3	
Mechanical	Point	19.1	
Mechanical	Point	22.0	
Mechanical	Point	18.8	
Mechanical	Point	25.2	
Mechanical	Point	29.9	
Mechanical	Point	29.8	
Mechanical	Point	29.1	
Mechanical	Point	28.9	
Mechanical	Point	28.7	
Mechanical	Point	28.8	
Mechanical	Point	22.9	
Mechanical	Point	22.7	
Mechanical	Point	22.0	
Mechanical	Point	22.0	
Mechanical	Point	21.2	
Mechanical	Point	21.7	

East End Studios ADLA
Source Levels in dB(A) - 02 Loading

Name	Source type	Lw dB(A)	
Loading	Point	101.9	
Loading	Point	101.9	
Loading	Point	101.9	
Loading	Point	101.9	
Loading	Point	101.9	
Loading	Point	101.9	
Loading	Point	101.9	
Loading	Point	101.9	
Loading	Point	101.9	
Loading	Point	101.9	
Loading	Point	101.9	
Loading	Point	101.9	
Loading	Point	101.9	
Loading	Point	101.9	
Loading	Point	101.9	
Loading	Point	101.9	
Loading	Point	101.9	
Trash Compactor	Point	97.7	
Trash Compactor	Point	97.7	
Trash Compactor	Point	97.7	

East End Studios ADLA
Calculated Noise Levels - 02 Loading

Source	Source type	Leq,d dB(A)	
Receiver R1 Fl G Leq,d 41.5 dB(A)			
Loading	Point	22.4	
Loading	Point	25.2	
Loading	Point	19.6	
Loading	Point	22.8	
Loading	Point	23.3	
Loading	Point	23.2	
Loading	Point	26.4	
Loading	Point	24.5	
Loading	Point	36.1	
Loading	Point	27.1	
Loading	Point	26.5	
Loading	Point	26.3	
Loading	Point	22.6	
Loading	Point	21.5	
Loading	Point	19.7	
Loading	Point	18.2	
Trash Compactor	Point	37.7	
Trash Compactor	Point	22.9	
Trash Compactor	Point	19.3	
Receiver R1 Fl F2 Leq,d 39.1 dB(A)			
Loading	Point	21.9	
Loading	Point	24.9	
Loading	Point	19.6	
Loading	Point	25.4	
Loading	Point	23.2	
Loading	Point	23.7	
Loading	Point	26.7	
Loading	Point	24.3	
Loading	Point	31.8	
Loading	Point	27.3	
Loading	Point	26.2	
Loading	Point	26.0	
Loading	Point	22.5	
Loading	Point	21.4	
Loading	Point	24.6	
Loading	Point	23.9	
Trash Compactor	Point	33.2	
Trash Compactor	Point	22.9	
Trash Compactor	Point	19.6	
Receiver R2 Fl G Leq,d 44.2 dB(A)			
Loading	Point	31.0	
Loading	Point	25.6	

East End Studios ADLA
Calculated Noise Levels - 02 Loading

Source	Source type	Leq,d dB(A)	
Loading	Point	39.9	
Loading	Point	28.2	
Loading	Point	23.7	
Loading	Point	27.3	
Loading	Point	22.0	
Loading	Point	23.7	
Loading	Point	20.7	
Loading	Point	21.4	
Loading	Point	22.8	
Loading	Point	24.3	
Loading	Point	28.1	
Loading	Point	39.6	
Loading	Point	27.2	
Loading	Point	31.2	
Trash Compactor	Point	20.4	
Trash Compactor	Point	22.2	
Trash Compactor	Point	24.7	
Receiver R3 Fl G Leq,d 60.6 dB(A)			
Loading	Point	48.0	
Loading	Point	44.7	
Loading	Point	48.1	
Loading	Point	47.1	
Loading	Point	46.8	
Loading	Point	48.8	
Loading	Point	36.3	
Loading	Point	25.1	
Loading	Point	35.5	
Loading	Point	36.8	
Loading	Point	44.7	
Loading	Point	42.3	
Loading	Point	47.5	
Loading	Point	47.9	
Loading	Point	50.1	
Loading	Point	57.1	
Trash Compactor	Point	38.0	
Trash Compactor	Point	38.9	
Trash Compactor	Point	43.8	
Receiver R3 Fl F2 Leq,d 54.0 dB(A)			
Loading	Point	45.7	
Loading	Point	42.5	
Loading	Point	39.5	
Loading	Point	36.6	
Loading	Point	43.3	

East End Studios ADLA
Calculated Noise Levels - 02 Loading

Source	Source type	Leq,d dB(A)	
Loading	Point	39.3	
Loading	Point	33.8	
Loading	Point	24.0	
Loading	Point	37.1	
Loading	Point	36.3	
Loading	Point	40.1	
Loading	Point	40.1	
Loading	Point	42.4	
Loading	Point	43.8	
Loading	Point	35.0	
Loading	Point	47.2	
Trash Compactor	Point	36.1	
Trash Compactor	Point	38.6	
Trash Compactor	Point	41.1	
Receiver R4 Fl G Leq,d 32.1 dB(A)			
Loading	Point	19.1	
Loading	Point	16.8	
Loading	Point	19.3	
Loading	Point	18.8	
Loading	Point	14.2	
Loading	Point	15.3	
Loading	Point	11.8	
Loading	Point	12.5	
Loading	Point	10.1	
Loading	Point	10.8	
Loading	Point	12.9	
Loading	Point	16.0	
Loading	Point	16.0	
Loading	Point	18.8	
Loading	Point	22.9	
Loading	Point	28.7	
Trash Compactor	Point	11.5	
Trash Compactor	Point	14.6	
Trash Compactor	Point	17.1	
Receiver R4 Fl F2 Leq,d 38.2 dB(A)			
Loading	Point	24.8	
Loading	Point	25.8	
Loading	Point	22.1	
Loading	Point	23.2	
Loading	Point	18.5	
Loading	Point	19.7	
Loading	Point	16.1	
Loading	Point	12.0	

East End Studios ADLA
Calculated Noise Levels - 02 Loading

Source	Source type	Leq,d dB(A)	
Loading	Point	14.5	
Loading	Point	15.2	
Loading	Point	21.6	
Loading	Point	25.0	
Loading	Point	29.3	
Loading	Point	28.8	
Loading	Point	28.6	
Loading	Point	30.2	
Trash Compactor	Point	22.4	
Trash Compactor	Point	24.0	
Trash Compactor	Point	29.9	
Receiver R5 Fl G Leq,d 30.9 dB(A)			
Loading	Point	16.8	
Loading	Point	17.6	
Loading	Point	16.4	
Loading	Point	16.0	
Loading	Point	18.9	
Loading	Point	18.8	
Loading	Point	18.6	
Loading	Point	19.3	
Loading	Point	18.6	
Loading	Point	18.7	
Loading	Point	17.5	
Loading	Point	19.2	
Loading	Point	17.4	
Loading	Point	17.1	
Loading	Point	15.4	
Loading	Point	22.1	
Trash Compactor	Point	17.7	
Trash Compactor	Point	16.9	
Trash Compactor	Point	14.8	
Receiver R6 Fl G Leq,d 43.1 dB(A)			
Loading	Point	28.0	
Loading	Point	29.6	
Loading	Point	25.6	
Loading	Point	27.2	
Loading	Point	30.4	
Loading	Point	28.3	
Loading	Point	34.2	
Loading	Point	34.4	
Loading	Point	33.0	
Loading	Point	34.0	
Loading	Point	32.6	

East End Studios ADLA
Calculated Noise Levels - 02 Loading

Source	Source type	Leq,d dB(A)	
Loading	Point	30.8	
Loading	Point	27.5	
Loading	Point	26.2	
Loading	Point	24.2	
Loading	Point	23.1	
Trash Compactor	Point	30.2	
Trash Compactor	Point	27.5	
Trash Compactor	Point	24.0	
Receiver R6 Fl F2 Leq,d 54.5 dB(A)			
Loading	Point	36.6	
Loading	Point	39.1	
Loading	Point	24.1	
Loading	Point	37.1	
Loading	Point	43.1	
Loading	Point	43.5	
Loading	Point	44.0	
Loading	Point	43.7	
Loading	Point	39.2	
Loading	Point	37.5	
Loading	Point	47.8	
Loading	Point	44.4	
Loading	Point	42.4	
Loading	Point	41.7	
Loading	Point	35.7	
Loading	Point	19.8	
Trash Compactor	Point	40.9	
Trash Compactor	Point	41.8	
Trash Compactor	Point	39.4	
Receiver R7 Fl G Leq,d 41.7 dB(A)			
Loading	Point	32.4	
Loading	Point	29.3	
Loading	Point	13.7	
Loading	Point	17.0	
Loading	Point	24.5	
Loading	Point	19.9	
Loading	Point	26.3	
Loading	Point	24.9	
Loading	Point	34.9	
Loading	Point	29.6	
Loading	Point	26.5	
Loading	Point	29.0	
Loading	Point	33.2	
Loading	Point	31.4	

East End Studios ADLA
Calculated Noise Levels - 02 Loading

Source	Source type	Leq,d dB(A)	
Loading	Point	12.2	
Loading	Point	11.7	
Trash Compactor	Point	19.5	
Trash Compactor	Point	26.7	
Trash Compactor	Point	31.9	

East End Studios ADLA
Source Levels in dB(A) - 03 People

Name	Source type	Lw dB(A)	
People Level 2 East Bldg	Area	96.0	
People Level 2 West Bldg	Area	97.9	
People Roof Level West Bldg	Area	99.8	
People Roof Level West Bldg	Area	100.3	

East End Studios ADLA
Calculated Noise Levels - 03 People

Source	Source type	Leq,d dB(A)	
Receiver R1 Fl G Leq,d 38.5 dB(A)			
People Level 2 West Bldg	Area	30.7	
People Level 2 East Bldg	Area	15.2	
People Roof Level West Bldg	Area	36.7	
People Roof Level West Bldg	Area	31.0	
Receiver R1 Fl F2 Leq,d 42.6 dB(A)			
People Level 2 West Bldg	Area	26.7	
People Level 2 East Bldg	Area	19.9	
People Roof Level West Bldg	Area	41.7	
People Roof Level West Bldg	Area	34.2	
Receiver R2 Fl G Leq,d 37.3 dB(A)			
People Level 2 West Bldg	Area	18.9	
People Level 2 East Bldg	Area	25.4	
People Roof Level West Bldg	Area	32.1	
People Roof Level West Bldg	Area	35.2	
Receiver R3 Fl G Leq,d 43.8 dB(A)			
People Level 2 West Bldg	Area	32.7	
People Level 2 East Bldg	Area	42.4	
People Roof Level West Bldg	Area	22.1	
People Roof Level West Bldg	Area	36.4	
Receiver R3 Fl F2 Leq,d 54.5 dB(A)			
People Level 2 West Bldg	Area	37.8	
People Level 2 East Bldg	Area	51.0	
People Roof Level West Bldg	Area	34.6	
People Roof Level West Bldg	Area	51.7	
Receiver R4 Fl G Leq,d 29.0 dB(A)			
People Level 2 West Bldg	Area	16.1	
People Level 2 East Bldg	Area	20.5	
People Roof Level West Bldg	Area	23.5	
People Roof Level West Bldg	Area	26.2	
Receiver R4 Fl F2 Leq,d 40.0 dB(A)			
People Level 2 West Bldg	Area	29.9	
People Level 2 East Bldg	Area	27.7	
People Roof Level West Bldg	Area	32.2	
People Roof Level West Bldg	Area	38.3	
Receiver R5 Fl G Leq,d 21.0 dB(A)			
People Level 2 West Bldg	Area	16.6	
People Level 2 East Bldg	Area	13.9	
People Roof Level West Bldg	Area	15.6	
People Roof Level West Bldg	Area	12.6	
Receiver R6 Fl G Leq,d 33.0 dB(A)			

East End Studios ADLA
Calculated Noise Levels - 03 People

Source	Source type	Leq,d dB(A)	
People Level 2 West Bldg	Area	30.0	
People Level 2 East Bldg	Area	19.9	
People Roof Level West Bldg	Area	28.4	
People Roof Level West Bldg	Area	23.5	
Receiver R6 Fl F2 Leq,d 48.9 dB(A)			
People Level 2 West Bldg	Area	45.4	
People Level 2 East Bldg	Area	31.9	
People Roof Level West Bldg	Area	45.5	
People Roof Level West Bldg	Area	37.8	
Receiver R7 Fl G Leq,d 38.7 dB(A)			
People Level 2 West Bldg	Area	34.8	
People Level 2 East Bldg	Area	24.1	
People Roof Level West Bldg	Area	35.6	
People Roof Level West Bldg	Area	27.2	

East End Studios ADLA
Source Levels in dB(A) - 04 Speakers

Name	Source type	Lw dB(A)	
Speakers Level 2	Point	99.2	
Speakers Level 2	Point	99.2	
Speakers Level 2	Point	99.2	
Speakers Level 2	Point	99.2	
Speakers Level 2	Point	99.2	
Speakers Level 2	Point	99.2	
Speakers Level 2	Point	99.2	
Speakers Level 2	Point	99.2	
Speakers Level 2	Point	99.2	
Speakers Level 2	Point	99.2	
Speakers Level 2	Point	99.2	
Speakers Level 2	Point	99.2	
Speakers Level 2	Point	99.2	
Speakers Level 2	Point	99.2	
Speakers Level 2	Point	99.2	
Speakers Level 2	Point	99.2	
Speakers Level 2	Point	99.2	
Speakers Level 2	Point	99.2	
Speakers Level 2	Point	99.2	
Speakers Level 2	Point	99.2	
Speakers Level 2	Point	99.2	
Speakers Level 2	Point	99.2	
Speakers Level 2	Point	99.2	
Speakers Level 2	Point	99.2	
Speakers Level 2	Point	99.2	
Speakers Roof Level	Point	108.6	
Speakers Roof Level	Point	108.6	
Speakers Roof Level	Point	108.6	
Speakers Roof Level	Point	108.6	
Speakers Roof Level	Point	108.6	
Speakers Roof Level	Point	108.6	
Speakers Roof Level	Point	108.6	
Speakers Roof Level	Point	108.6	
Speakers Roof Level	Point	108.6	
Speakers Roof Level	Point	108.6	
Speakers Roof Level	Point	108.6	
Speakers Roof Level	Point	108.6	
Speakers Roof Level	Point	108.6	
Speakers Roof Level	Point	108.6	

East End Studios ADLA
Source Levels in dB(A) - 04 Speakers

Name	Source type	Lw dB(A)	
Speakers Roof Level	Point	108.6	
Speakers Roof Level	Point	108.6	
Speakers Roof Level	Point	108.6	
Speakers Roof Level	Point	108.6	
Speakers Roof Level	Point	108.6	
Speakers Roof Level	Point	108.6	
Speakers Roof Level	Point	108.6	
Speakers Roof Level	Point	108.6	
Speakers Roof Level	Point	108.6	
Speakers Roof Level	Point	108.6	
Speakers Roof Level	Point	108.6	
Speakers Roof Level	Point	108.6	
Speakers Roof Level	Point	108.6	
Speakers Roof Level	Point	108.6	
Speakers Roof Level	Point	108.6	
Speakers Roof Level	Point	108.6	
Speakers Roof Level	Point	108.6	
Speakers Roof Level	Point	108.6	
Speakers Roof Level	Point	108.6	
Speakers Roof Level	Point	108.6	

East End Studios ADLA
Calculated Noise Levels - 04 Speakers

Source	Source type	Leq,d dB(A)	
Receiver R1 Fl G Leq,d 48.5 dB(A)			
Speakers Level 2	Point	12.9	
Speakers Level 2	Point	24.2	
Speakers Level 2	Point	24.2	
Speakers Level 2	Point	24.1	
Speakers Level 2	Point	24.1	
Speakers Level 2	Point	23.9	
Speakers Level 2	Point	14.9	
Speakers Level 2	Point	15.1	
Speakers Level 2	Point	8.2	
Speakers Level 2	Point	8.7	
Speakers Level 2	Point	8.9	
Speakers Level 2	Point	16.8	
Speakers Level 2	Point	17.3	
Speakers Level 2	Point	5.9	
Speakers Level 2	Point	2.1	
Speakers Level 2	Point	5.3	
Speakers Level 2	Point	6.9	
Speakers Level 2	Point	7.0	
Speakers Level 2	Point	4.6	
Speakers Level 2	Point	2.2	
Speakers Level 2	Point	6.2	
Speakers Level 2	Point	9.5	
Speakers Level 2	Point	6.3	
Speakers Level 2	Point	-2.5	
Speakers Level 2	Point	-2.5	
Speakers Roof Level	Point	30.5	
Speakers Roof Level	Point	32.9	
Speakers Roof Level	Point	34.5	
Speakers Roof Level	Point	26.3	
Speakers Roof Level	Point	37.7	
Speakers Roof Level	Point	39.6	
Speakers Roof Level	Point	23.8	
Speakers Roof Level	Point	23.4	
Speakers Roof Level	Point	36.3	
Speakers Roof Level	Point	36.3	
Speakers Roof Level	Point	33.7	
Speakers Roof Level	Point	30.6	
Speakers Roof Level	Point	28.6	
Speakers Roof Level	Point	27.2	
Speakers Roof Level	Point	26.0	
Speakers Roof Level	Point	37.8	
Speakers Roof Level	Point	37.0	

East End Studios ADLA
Calculated Noise Levels - 04 Speakers

Source	Source type	Leq,d dB(A)	
Speakers Roof Level	Point	39.6	
Speakers Roof Level	Point	24.6	
Speakers Roof Level	Point	24.7	
Speakers Roof Level	Point	36.7	
Speakers Roof Level	Point	27.8	
Speakers Roof Level	Point	28.6	
Speakers Roof Level	Point	13.9	
Speakers Roof Level	Point	13.6	
Speakers Roof Level	Point	27.9	
Speakers Roof Level	Point	26.9	
Speakers Roof Level	Point	26.7	
Speakers Roof Level	Point	35.4	
Speakers Roof Level	Point	23.8	
Speakers Roof Level	Point	22.6	
Speakers Roof Level	Point	26.0	
Speakers Roof Level	Point	25.3	
Speakers Roof Level	Point	25.2	
Receiver R1 Fl F2 Leq,d 53.3 dB(A)			
Speakers Level 2	Point	14.2	
Speakers Level 2	Point	23.3	
Speakers Level 2	Point	23.0	
Speakers Level 2	Point	22.6	
Speakers Level 2	Point	22.4	
Speakers Level 2	Point	21.6	
Speakers Level 2	Point	14.6	
Speakers Level 2	Point	14.7	
Speakers Level 2	Point	9.4	
Speakers Level 2	Point	9.9	
Speakers Level 2	Point	10.0	
Speakers Level 2	Point	17.2	
Speakers Level 2	Point	17.8	
Speakers Level 2	Point	6.7	
Speakers Level 2	Point	7.9	
Speakers Level 2	Point	8.4	
Speakers Level 2	Point	10.6	
Speakers Level 2	Point	9.5	
Speakers Level 2	Point	6.9	
Speakers Level 2	Point	4.3	
Speakers Level 2	Point	9.4	
Speakers Level 2	Point	17.1	
Speakers Level 2	Point	11.4	
Speakers Level 2	Point	-1.2	
Speakers Level 2	Point	-0.8	

East End Studios ADLA
Calculated Noise Levels - 04 Speakers

Source	Source type	Leq,d dB(A)	
Speakers Roof Level	Point	36.7	
Speakers Roof Level	Point	34.6	
Speakers Roof Level	Point	36.8	
Speakers Roof Level	Point	30.2	
Speakers Roof Level	Point	44.9	
Speakers Roof Level	Point	46.8	
Speakers Roof Level	Point	25.6	
Speakers Roof Level	Point	25.4	
Speakers Roof Level	Point	44.6	
Speakers Roof Level	Point	41.6	
Speakers Roof Level	Point	40.0	
Speakers Roof Level	Point	35.7	
Speakers Roof Level	Point	33.0	
Speakers Roof Level	Point	31.1	
Speakers Roof Level	Point	29.5	
Speakers Roof Level	Point	39.6	
Speakers Roof Level	Point	38.7	
Speakers Roof Level	Point	41.6	
Speakers Roof Level	Point	25.7	
Speakers Roof Level	Point	30.0	
Speakers Roof Level	Point	39.9	
Speakers Roof Level	Point	28.8	
Speakers Roof Level	Point	29.2	
Speakers Roof Level	Point	22.8	
Speakers Roof Level	Point	21.3	
Speakers Roof Level	Point	26.8	
Speakers Roof Level	Point	29.7	
Speakers Roof Level	Point	29.2	
Speakers Roof Level	Point	36.0	
Speakers Roof Level	Point	26.5	
Speakers Roof Level	Point	24.8	
Speakers Roof Level	Point	35.5	
Speakers Roof Level	Point	32.6	
Speakers Roof Level	Point	29.5	
Receiver R2 Fl G Leq,d 48.3 dB(A)			
Speakers Level 2	Point	13.4	
Speakers Level 2	Point	6.5	
Speakers Level 2	Point	7.8	
Speakers Level 2	Point	11.1	
Speakers Level 2	Point	11.1	
Speakers Level 2	Point	10.2	
Speakers Level 2	Point	2.3	
Speakers Level 2	Point	3.8	

East End Studios ADLA
Calculated Noise Levels - 04 Speakers

Source	Source type	Leq,d dB(A)	
Speakers Level 2	Point	8.3	
Speakers Level 2	Point	8.3	
Speakers Level 2	Point	7.8	
Speakers Level 2	Point	6.4	
Speakers Level 2	Point	6.2	
Speakers Level 2	Point	13.0	
Speakers Level 2	Point	17.6	
Speakers Level 2	Point	20.3	
Speakers Level 2	Point	20.5	
Speakers Level 2	Point	17.4	
Speakers Level 2	Point	16.6	
Speakers Level 2	Point	15.8	
Speakers Level 2	Point	20.4	
Speakers Level 2	Point	6.1	
Speakers Level 2	Point	19.4	
Speakers Level 2	Point	13.9	
Speakers Level 2	Point	12.5	
Speakers Roof Level	Point	16.1	
Speakers Roof Level	Point	19.1	
Speakers Roof Level	Point	24.7	
Speakers Roof Level	Point	13.0	
Speakers Roof Level	Point	32.1	
Speakers Roof Level	Point	31.1	
Speakers Roof Level	Point	14.3	
Speakers Roof Level	Point	18.7	
Speakers Roof Level	Point	28.6	
Speakers Roof Level	Point	28.3	
Speakers Roof Level	Point	38.1	
Speakers Roof Level	Point	30.1	
Speakers Roof Level	Point	29.6	
Speakers Roof Level	Point	27.8	
Speakers Roof Level	Point	25.8	
Speakers Roof Level	Point	21.4	
Speakers Roof Level	Point	22.1	
Speakers Roof Level	Point	35.3	
Speakers Roof Level	Point	17.8	
Speakers Roof Level	Point	32.4	
Speakers Roof Level	Point	35.0	
Speakers Roof Level	Point	33.4	
Speakers Roof Level	Point	34.6	
Speakers Roof Level	Point	18.9	
Speakers Roof Level	Point	17.6	
Speakers Roof Level	Point	39.3	
Speakers Roof Level	Point	39.9	

East End Studios ADLA
Calculated Noise Levels - 04 Speakers

Source	Source type	Leq,d dB(A)	
Speakers Roof Level	Point	40.1	
Speakers Roof Level	Point	35.4	
Speakers Roof Level	Point	32.9	
Speakers Roof Level	Point	30.3	
Speakers Roof Level	Point	30.4	
Speakers Roof Level	Point	33.5	
Speakers Roof Level	Point	30.8	
Receiver R3 Fl G Leq,d 47.6 dB(A)			
Speakers Level 2	Point	29.8	
Speakers Level 2	Point	21.6	
Speakers Level 2	Point	22.5	
Speakers Level 2	Point	24.1	
Speakers Level 2	Point	24.5	
Speakers Level 2	Point	18.0	
Speakers Level 2	Point	17.6	
Speakers Level 2	Point	17.5	
Speakers Level 2	Point	23.0	
Speakers Level 2	Point	24.3	
Speakers Level 2	Point	23.5	
Speakers Level 2	Point	17.5	
Speakers Level 2	Point	16.8	
Speakers Level 2	Point	34.3	
Speakers Level 2	Point	34.8	
Speakers Level 2	Point	26.5	
Speakers Level 2	Point	30.2	
Speakers Level 2	Point	31.3	
Speakers Level 2	Point	34.1	
Speakers Level 2	Point	32.2	
Speakers Level 2	Point	22.4	
Speakers Level 2	Point	27.0	
Speakers Level 2	Point	26.3	
Speakers Level 2	Point	35.2	
Speakers Level 2	Point	41.4	
Speakers Roof Level	Point	8.3	
Speakers Roof Level	Point	15.7	
Speakers Roof Level	Point	12.3	
Speakers Roof Level	Point	10.2	
Speakers Roof Level	Point	6.7	
Speakers Roof Level	Point	6.4	
Speakers Roof Level	Point	19.3	
Speakers Roof Level	Point	19.4	
Speakers Roof Level	Point	10.1	
Speakers Roof Level	Point	8.9	

East End Studios ADLA
Calculated Noise Levels - 04 Speakers

Source	Source type	Leq,d dB(A)	
Speakers Roof Level	Point	20.8	
Speakers Roof Level	Point	22.4	
Speakers Roof Level	Point	22.9	
Speakers Roof Level	Point	24.2	
Speakers Roof Level	Point	29.1	
Speakers Roof Level	Point	22.4	
Speakers Roof Level	Point	22.6	
Speakers Roof Level	Point	15.1	
Speakers Roof Level	Point	29.4	
Speakers Roof Level	Point	27.7	
Speakers Roof Level	Point	16.3	
Speakers Roof Level	Point	20.2	
Speakers Roof Level	Point	16.4	
Speakers Roof Level	Point	33.3	
Speakers Roof Level	Point	38.9	
Speakers Roof Level	Point	26.0	
Speakers Roof Level	Point	25.0	
Speakers Roof Level	Point	25.6	
Speakers Roof Level	Point	26.0	
Speakers Roof Level	Point	27.6	
Speakers Roof Level	Point	29.4	
Speakers Roof Level	Point	36.0	
Speakers Roof Level	Point	30.3	
Speakers Roof Level	Point	32.7	
Receiver R3 Fl F2 Leq,d 62.2 dB(A)			
Speakers Level 2	Point	34.4	
Speakers Level 2	Point	23.2	
Speakers Level 2	Point	26.8	
Speakers Level 2	Point	23.7	
Speakers Level 2	Point	23.8	
Speakers Level 2	Point	21.6	
Speakers Level 2	Point	21.5	
Speakers Level 2	Point	20.4	
Speakers Level 2	Point	26.8	
Speakers Level 2	Point	27.9	
Speakers Level 2	Point	27.9	
Speakers Level 2	Point	21.1	
Speakers Level 2	Point	20.6	
Speakers Level 2	Point	35.4	
Speakers Level 2	Point	47.1	
Speakers Level 2	Point	37.5	
Speakers Level 2	Point	39.0	
Speakers Level 2	Point	40.2	

East End Studios ADLA
Calculated Noise Levels - 04 Speakers

Source	Source type	Leq,d dB(A)	
Speakers Level 2	Point	41.4	
Speakers Level 2	Point	26.1	
Speakers Level 2	Point	35.6	
Speakers Level 2	Point	28.8	
Speakers Level 2	Point	35.2	
Speakers Level 2	Point	42.3	
Speakers Level 2	Point	44.4	
Speakers Roof Level	Point	19.7	
Speakers Roof Level	Point	31.3	
Speakers Roof Level	Point	26.6	
Speakers Roof Level	Point	17.4	
Speakers Roof Level	Point	27.0	
Speakers Roof Level	Point	24.8	
Speakers Roof Level	Point	29.6	
Speakers Roof Level	Point	31.9	
Speakers Roof Level	Point	29.9	
Speakers Roof Level	Point	29.5	
Speakers Roof Level	Point	37.2	
Speakers Roof Level	Point	40.8	
Speakers Roof Level	Point	39.6	
Speakers Roof Level	Point	37.6	
Speakers Roof Level	Point	41.3	
Speakers Roof Level	Point	27.9	
Speakers Roof Level	Point	28.4	
Speakers Roof Level	Point	35.0	
Speakers Roof Level	Point	50.5	
Speakers Roof Level	Point	49.0	
Speakers Roof Level	Point	35.3	
Speakers Roof Level	Point	32.4	
Speakers Roof Level	Point	30.4	
Speakers Roof Level	Point	51.6	
Speakers Roof Level	Point	54.4	
Speakers Roof Level	Point	45.4	
Speakers Roof Level	Point	44.9	
Speakers Roof Level	Point	46.3	
Speakers Roof Level	Point	46.8	
Speakers Roof Level	Point	48.0	
Speakers Roof Level	Point	50.3	
Speakers Roof Level	Point	56.2	
Speakers Roof Level	Point	43.9	
Speakers Roof Level	Point	48.9	
Receiver R4 Fl G Leq,d 41.5 dB(A)			
Speakers Level 2	Point	11.9	

East End Studios ADLA
Calculated Noise Levels - 04 Speakers

Source	Source type	Leq,d dB(A)	
Speakers Level 2	Point	4.4	
Speakers Level 2	Point	8.4	
Speakers Level 2	Point	4.5	
Speakers Level 2	Point	-0.6	
Speakers Level 2	Point	-1.9	
Speakers Level 2	Point	-1.8	
Speakers Level 2	Point	-2.1	
Speakers Level 2	Point	6.6	
Speakers Level 2	Point	6.8	
Speakers Level 2	Point	7.0	
Speakers Level 2	Point	4.6	
Speakers Level 2	Point	5.2	
Speakers Level 2	Point	5.2	
Speakers Level 2	Point	11.1	
Speakers Level 2	Point	10.7	
Speakers Level 2	Point	13.0	
Speakers Level 2	Point	15.2	
Speakers Level 2	Point	17.8	
Speakers Level 2	Point	20.2	
Speakers Level 2	Point	4.3	
Speakers Level 2	Point	7.8	
Speakers Level 2	Point	11.0	
Speakers Level 2	Point	16.5	
Speakers Level 2	Point	14.2	
Speakers Roof Level	Point	9.5	
Speakers Roof Level	Point	23.4	
Speakers Roof Level	Point	10.1	
Speakers Roof Level	Point	9.9	
Speakers Roof Level	Point	9.4	
Speakers Roof Level	Point	9.2	
Speakers Roof Level	Point	25.2	
Speakers Roof Level	Point	25.2	
Speakers Roof Level	Point	17.3	
Speakers Roof Level	Point	17.1	
Speakers Roof Level	Point	20.8	
Speakers Roof Level	Point	20.9	
Speakers Roof Level	Point	21.4	
Speakers Roof Level	Point	22.6	
Speakers Roof Level	Point	28.8	
Speakers Roof Level	Point	20.8	
Speakers Roof Level	Point	20.8	
Speakers Roof Level	Point	14.2	
Speakers Roof Level	Point	26.4	
Speakers Roof Level	Point	21.2	

East End Studios ADLA
Calculated Noise Levels - 04 Speakers

Source	Source type	Leq,d dB(A)	
Speakers Roof Level	Point	16.4	
Speakers Roof Level	Point	13.4	
Speakers Roof Level	Point	12.4	
Speakers Roof Level	Point	35.9	
Speakers Roof Level	Point	36.3	
Speakers Roof Level	Point	23.8	
Speakers Roof Level	Point	24.1	
Speakers Roof Level	Point	20.4	
Speakers Roof Level	Point	23.2	
Speakers Roof Level	Point	24.1	
Speakers Roof Level	Point	25.1	
Speakers Roof Level	Point	27.2	
Speakers Roof Level	Point	20.8	
Speakers Roof Level	Point	26.8	
Receiver R4 Fl F2 Leq,d 52.0 dB(A)			
Speakers Level 2	Point	25.4	
Speakers Level 2	Point	17.4	
Speakers Level 2	Point	23.1	
Speakers Level 2	Point	17.9	
Speakers Level 2	Point	10.8	
Speakers Level 2	Point	9.7	
Speakers Level 2	Point	11.0	
Speakers Level 2	Point	10.9	
Speakers Level 2	Point	21.2	
Speakers Level 2	Point	21.1	
Speakers Level 2	Point	20.9	
Speakers Level 2	Point	17.8	
Speakers Level 2	Point	18.4	
Speakers Level 2	Point	7.2	
Speakers Level 2	Point	15.2	
Speakers Level 2	Point	16.9	
Speakers Level 2	Point	18.2	
Speakers Level 2	Point	18.5	
Speakers Level 2	Point	19.0	
Speakers Level 2	Point	32.7	
Speakers Level 2	Point	6.5	
Speakers Level 2	Point	10.9	
Speakers Level 2	Point	15.0	
Speakers Level 2	Point	20.2	
Speakers Level 2	Point	22.8	
Speakers Roof Level	Point	18.8	
Speakers Roof Level	Point	32.4	
Speakers Roof Level	Point	19.4	

East End Studios ADLA
Calculated Noise Levels - 04 Speakers

Source	Source type	Leq,d dB(A)	
Speakers Roof Level	Point	18.0	
Speakers Roof Level	Point	19.6	
Speakers Roof Level	Point	18.8	
Speakers Roof Level	Point	32.7	
Speakers Roof Level	Point	33.2	
Speakers Roof Level	Point	28.3	
Speakers Roof Level	Point	27.9	
Speakers Roof Level	Point	30.8	
Speakers Roof Level	Point	31.2	
Speakers Roof Level	Point	31.5	
Speakers Roof Level	Point	34.7	
Speakers Roof Level	Point	35.9	
Speakers Roof Level	Point	28.8	
Speakers Roof Level	Point	29.1	
Speakers Roof Level	Point	25.9	
Speakers Roof Level	Point	40.0	
Speakers Roof Level	Point	36.8	
Speakers Roof Level	Point	26.6	
Speakers Roof Level	Point	22.5	
Speakers Roof Level	Point	22.1	
Speakers Roof Level	Point	44.6	
Speakers Roof Level	Point	45.3	
Speakers Roof Level	Point	38.2	
Speakers Roof Level	Point	37.8	
Speakers Roof Level	Point	34.1	
Speakers Roof Level	Point	37.1	
Speakers Roof Level	Point	37.7	
Speakers Roof Level	Point	38.4	
Speakers Roof Level	Point	39.2	
Speakers Roof Level	Point	33.0	
Speakers Roof Level	Point	40.7	
Receiver R5 Fl G Leq,d 29.4 dB(A)			
Speakers Level 2	Point	6.8	
Speakers Level 2	Point	8.4	
Speakers Level 2	Point	9.2	
Speakers Level 2	Point	9.5	
Speakers Level 2	Point	9.8	
Speakers Level 2	Point	9.0	
Speakers Level 2	Point	-2.9	
Speakers Level 2	Point	-3.1	
Speakers Level 2	Point	11.8	
Speakers Level 2	Point	11.8	
Speakers Level 2	Point	11.7	

East End Studios ADLA
Calculated Noise Levels - 04 Speakers

Source	Source type	Leq,d dB(A)	
Speakers Level 2	Point	9.4	
Speakers Level 2	Point	9.0	
Speakers Level 2	Point	-0.7	
Speakers Level 2	Point	-3.2	
Speakers Level 2	Point	5.5	
Speakers Level 2	Point	6.7	
Speakers Level 2	Point	6.4	
Speakers Level 2	Point	7.1	
Speakers Level 2	Point	6.8	
Speakers Level 2	Point	9.0	
Speakers Level 2	Point	10.4	
Speakers Level 2	Point	12.7	
Speakers Level 2	Point	8.3	
Speakers Level 2	Point	7.9	
Speakers Roof Level	Point	4.7	
Speakers Roof Level	Point	18.6	
Speakers Roof Level	Point	15.4	
Speakers Roof Level	Point	5.3	
Speakers Roof Level	Point	3.2	
Speakers Roof Level	Point	3.2	
Speakers Roof Level	Point	18.8	
Speakers Roof Level	Point	19.3	
Speakers Roof Level	Point	17.3	
Speakers Roof Level	Point	17.1	
Speakers Roof Level	Point	10.3	
Speakers Roof Level	Point	10.7	
Speakers Roof Level	Point	11.0	
Speakers Roof Level	Point	11.4	
Speakers Roof Level	Point	11.8	
Speakers Roof Level	Point	7.4	
Speakers Roof Level	Point	16.6	
Speakers Roof Level	Point	9.8	
Speakers Roof Level	Point	14.0	
Speakers Roof Level	Point	10.7	
Speakers Roof Level	Point	11.2	
Speakers Roof Level	Point	1.0	
Speakers Roof Level	Point	1.2	
Speakers Roof Level	Point	14.8	
Speakers Roof Level	Point	14.4	
Speakers Roof Level	Point	13.7	
Speakers Roof Level	Point	15.3	
Speakers Roof Level	Point	2.8	
Speakers Roof Level	Point	2.7	
Speakers Roof Level	Point	3.0	

East End Studios ADLA
Calculated Noise Levels - 04 Speakers

Source	Source type	Leq,d dB(A)	
Speakers Roof Level	Point	3.3	
Speakers Roof Level	Point	3.7	
Speakers Roof Level	Point	3.4	
Speakers Roof Level	Point	3.3	
Receiver R6 Fl G Leq,d 44.0 dB(A)			
Speakers Level 2	Point	21.3	
Speakers Level 2	Point	22.1	
Speakers Level 2	Point	23.3	
Speakers Level 2	Point	23.5	
Speakers Level 2	Point	24.3	
Speakers Level 2	Point	23.4	
Speakers Level 2	Point	14.6	
Speakers Level 2	Point	13.1	
Speakers Level 2	Point	25.9	
Speakers Level 2	Point	26.3	
Speakers Level 2	Point	26.3	
Speakers Level 2	Point	24.4	
Speakers Level 2	Point	23.6	
Speakers Level 2	Point	1.1	
Speakers Level 2	Point	2.4	
Speakers Level 2	Point	9.2	
Speakers Level 2	Point	8.8	
Speakers Level 2	Point	10.9	
Speakers Level 2	Point	9.1	
Speakers Level 2	Point	8.5	
Speakers Level 2	Point	15.3	
Speakers Level 2	Point	12.7	
Speakers Level 2	Point	15.1	
Speakers Level 2	Point	10.9	
Speakers Level 2	Point	9.9	
Speakers Roof Level	Point	16.9	
Speakers Roof Level	Point	31.8	
Speakers Roof Level	Point	28.0	
Speakers Roof Level	Point	18.4	
Speakers Roof Level	Point	14.1	
Speakers Roof Level	Point	14.2	
Speakers Roof Level	Point	37.2	
Speakers Roof Level	Point	38.2	
Speakers Roof Level	Point	30.1	
Speakers Roof Level	Point	29.5	
Speakers Roof Level	Point	21.4	
Speakers Roof Level	Point	22.1	
Speakers Roof Level	Point	22.8	

East End Studios ADLA
Calculated Noise Levels - 04 Speakers

Source	Source type	Leq,d dB(A)	
Speakers Roof Level	Point	23.6	
Speakers Roof Level	Point	30.0	
Speakers Roof Level	Point	24.6	
Speakers Roof Level	Point	30.6	
Speakers Roof Level	Point	26.7	
Speakers Roof Level	Point	22.4	
Speakers Roof Level	Point	11.4	
Speakers Roof Level	Point	26.5	
Speakers Roof Level	Point	10.5	
Speakers Roof Level	Point	10.7	
Speakers Roof Level	Point	24.2	
Speakers Roof Level	Point	24.9	
Speakers Roof Level	Point	23.7	
Speakers Roof Level	Point	24.2	
Speakers Roof Level	Point	18.1	
Speakers Roof Level	Point	16.0	
Speakers Roof Level	Point	19.1	
Speakers Roof Level	Point	19.4	
Speakers Roof Level	Point	16.1	
Speakers Roof Level	Point	15.9	
Speakers Roof Level	Point	15.8	
Receiver R6 Fl F2 Leq,d 60.4 dB(A)			
Speakers Level 2	Point	35.3	
Speakers Level 2	Point	39.4	
Speakers Level 2	Point	37.5	
Speakers Level 2	Point	38.3	
Speakers Level 2	Point	39.1	
Speakers Level 2	Point	40.3	
Speakers Level 2	Point	31.3	
Speakers Level 2	Point	32.9	
Speakers Level 2	Point	42.5	
Speakers Level 2	Point	42.5	
Speakers Level 2	Point	42.0	
Speakers Level 2	Point	40.7	
Speakers Level 2	Point	40.0	
Speakers Level 2	Point	4.5	
Speakers Level 2	Point	16.1	
Speakers Level 2	Point	25.0	
Speakers Level 2	Point	21.9	
Speakers Level 2	Point	22.7	
Speakers Level 2	Point	22.7	
Speakers Level 2	Point	17.2	
Speakers Level 2	Point	28.7	

East End Studios ADLA
Calculated Noise Levels - 04 Speakers

Source	Source type	Leq,d dB(A)	
Speakers Level 2	Point	28.1	
Speakers Level 2	Point	22.8	
Speakers Level 2	Point	19.6	
Speakers Level 2	Point	16.2	
Speakers Roof Level	Point	32.3	
Speakers Roof Level	Point	47.3	
Speakers Roof Level	Point	44.3	
Speakers Roof Level	Point	33.2	
Speakers Roof Level	Point	26.5	
Speakers Roof Level	Point	26.2	
Speakers Roof Level	Point	53.3	
Speakers Roof Level	Point	54.5	
Speakers Roof Level	Point	44.6	
Speakers Roof Level	Point	45.3	
Speakers Roof Level	Point	41.4	
Speakers Roof Level	Point	42.3	
Speakers Roof Level	Point	43.2	
Speakers Roof Level	Point	44.2	
Speakers Roof Level	Point	45.4	
Speakers Roof Level	Point	40.5	
Speakers Roof Level	Point	50.4	
Speakers Roof Level	Point	41.6	
Speakers Roof Level	Point	37.6	
Speakers Roof Level	Point	24.0	
Speakers Roof Level	Point	42.9	
Speakers Roof Level	Point	23.0	
Speakers Roof Level	Point	23.6	
Speakers Roof Level	Point	38.2	
Speakers Roof Level	Point	37.7	
Speakers Roof Level	Point	37.9	
Speakers Roof Level	Point	38.7	
Speakers Roof Level	Point	37.2	
Speakers Roof Level	Point	30.2	
Speakers Roof Level	Point	38.2	
Speakers Roof Level	Point	38.7	
Speakers Roof Level	Point	30.6	
Speakers Roof Level	Point	31.7	
Speakers Roof Level	Point	31.5	
Receiver R7 Fl G Leq,d 47.8 dB(A)			
Speakers Level 2	Point	20.5	
Speakers Level 2	Point	23.1	
Speakers Level 2	Point	21.8	
Speakers Level 2	Point	21.4	

East End Studios ADLA
Calculated Noise Levels - 04 Speakers

Source	Source type	Leq,d dB(A)	
Speakers Level 2	Point	21.1	
Speakers Level 2	Point	20.6	
Speakers Level 2	Point	33.9	
Speakers Level 2	Point	31.7	
Speakers Level 2	Point	20.6	
Speakers Level 2	Point	13.1	
Speakers Level 2	Point	18.9	
Speakers Level 2	Point	24.3	
Speakers Level 2	Point	27.1	
Speakers Level 2	Point	-0.7	
Speakers Level 2	Point	13.4	
Speakers Level 2	Point	15.2	
Speakers Level 2	Point	14.6	
Speakers Level 2	Point	12.9	
Speakers Level 2	Point	12.6	
Speakers Level 2	Point	12.2	
Speakers Level 2	Point	7.0	
Speakers Level 2	Point	14.8	
Speakers Level 2	Point	19.7	
Speakers Level 2	Point	12.5	
Speakers Level 2	Point	12.1	
Speakers Roof Level	Point	40.4	
Speakers Roof Level	Point	32.1	
Speakers Roof Level	Point	20.6	
Speakers Roof Level	Point	41.7	
Speakers Roof Level	Point	17.8	
Speakers Roof Level	Point	19.4	
Speakers Roof Level	Point	30.3	
Speakers Roof Level	Point	29.5	
Speakers Roof Level	Point	32.6	
Speakers Roof Level	Point	33.3	
Speakers Roof Level	Point	35.1	
Speakers Roof Level	Point	29.1	
Speakers Roof Level	Point	35.8	
Speakers Roof Level	Point	36.1	
Speakers Roof Level	Point	29.2	
Speakers Roof Level	Point	28.2	
Speakers Roof Level	Point	29.2	
Speakers Roof Level	Point	30.3	
Speakers Roof Level	Point	20.5	
Speakers Roof Level	Point	18.7	
Speakers Roof Level	Point	34.1	
Speakers Roof Level	Point	7.6	
Speakers Roof Level	Point	7.6	

East End Studios ADLA
Calculated Noise Levels - 04 Speakers

Source	Source type	Leq,d dB(A)	
Speakers Roof Level	Point	21.3	
Speakers Roof Level	Point	21.9	
Speakers Roof Level	Point	19.7	
Speakers Roof Level	Point	19.9	
Speakers Roof Level	Point	24.1	
Speakers Roof Level	Point	25.5	
Speakers Roof Level	Point	18.4	
Speakers Roof Level	Point	28.6	
Speakers Roof Level	Point	30.1	
Speakers Roof Level	Point	23.4	
Speakers Roof Level	Point	20.6	

East End Studios ADLA
Input data parking lots - 05 Parking

Parking lot	PLT	# of Parking Spaces	
Parking Level Ground	Visitors and staff	19	
Parking Level Ground	Visitors and staff	4	
Parking Level Ground	Visitors and staff	31	
Parking Level Ground	Visitors and staff	21	
Parking Level Ground	Visitors and staff	7	
Parking Level Ground	Visitors and staff	13	
Parking Level Ground	Visitors and staff	204	
Parking Level Ground	Visitors and staff	17	
Parking Level Ground	Visitors and staff	4	
Parking Level Ground	Visitors and staff	19	
Parking Level Ground	Visitors and staff	13	
Parking Level Ground	Visitors and staff	6	
Parking Level Ground	Visitors and staff	17	
Parking Level Ground	Visitors and staff	9	
Parking Level P1	Visitors and staff	46	
Parking Level P2	Visitors and staff	78	
Parking Level P3	Visitors and staff	80	
Parking Level P4	Visitors and staff	80	
Parking Level P5	Visitors and staff	91	

East End Studios ADLA
Calculated Noise Levels - 05 Parking

Source	Source type	Leq,d dB(A)	
Receiver R1 Fl G Leq,d 27.0 dB(A)			
Parking Level Ground	PLot	7.6	
Parking Level Ground	PLot	-7.3	
Parking Level Ground	PLot	9.6	
Parking Level Ground	PLot	8.0	
Parking Level Ground	PLot	1.5	
Parking Level Ground	PLot	9.0	
Parking Level Ground	PLot	22.4	
Parking Level Ground	PLot	2.0	
Parking Level Ground	PLot	-6.5	
Parking Level Ground	PLot	4.2	
Parking Level Ground	PLot	12.4	
Parking Level Ground	PLot	8.6	
Parking Level Ground	PLot	11.5	
Parking Level Ground	PLot	23.8	
Parking Level P1	PLot		
Parking Level P2	PLot	10.3	
Parking Level P3	PLot	-21.4	
Parking Level P4	PLot	-23.1	
Parking Level P5	PLot	-22.4	
Receiver R1 Fl F2 Leq,d 27.6 dB(A)			
Parking Level Ground	PLot	10.5	
Parking Level Ground	PLot	-7.4	
Parking Level Ground	PLot	11.8	
Parking Level Ground	PLot	9.6	
Parking Level Ground	PLot	2.8	
Parking Level Ground	PLot	9.5	
Parking Level Ground	PLot	23.5	
Parking Level Ground	PLot	2.7	
Parking Level Ground	PLot	-5.9	
Parking Level Ground	PLot	5.7	
Parking Level Ground	PLot	12.4	
Parking Level Ground	PLot	6.4	
Parking Level Ground	PLot	11.9	
Parking Level Ground	PLot	23.7	
Parking Level P1	PLot		
Parking Level P2	PLot	14.3	
Parking Level P3	PLot	-20.6	
Parking Level P4	PLot	-20.5	
Parking Level P5	PLot	-19.8	
Receiver R2 Fl G Leq,d 30.4 dB(A)			
Parking Level Ground	PLot	18.8	
Parking Level Ground	PLot	1.9	

East End Studios ADLA
Calculated Noise Levels - 05 Parking

Source	Source type	Leq,d dB(A)	
Parking Level Ground	PLot	22.9	
Parking Level Ground	PLot	11.8	
Parking Level Ground	PLot	-1.4	
Parking Level Ground	PLot	5.9	
Parking Level Ground	PLot	26.6	
Parking Level Ground	PLot	21.8	
Parking Level Ground	PLot	4.2	
Parking Level Ground	PLot	20.5	
Parking Level Ground	PLot	4.4	
Parking Level Ground	PLot	0.1	
Parking Level Ground	PLot	7.1	
Parking Level Ground	PLot	3.4	
Parking Level P1	PLot		
Parking Level P2	PLot	16.8	
Parking Level P3	PLot		
Parking Level P4	PLot	10.4	
Parking Level P5	PLot		
Receiver R3 Fl G Leq,d 46.2 dB(A)			
Parking Level Ground	PLot	30.5	
Parking Level Ground	PLot	20.9	
Parking Level Ground	PLot	33.4	
Parking Level Ground	PLot	28.9	
Parking Level Ground	PLot	1.2	
Parking Level Ground	PLot	14.6	
Parking Level Ground	PLot	41.1	
Parking Level Ground	PLot	38.6	
Parking Level Ground	PLot	26.0	
Parking Level Ground	PLot	36.3	
Parking Level Ground	PLot	15.4	
Parking Level Ground	PLot	10.7	
Parking Level Ground	PLot	18.4	
Parking Level Ground	PLot	-0.6	
Parking Level P1	PLot	26.5	
Parking Level P2	PLot	40.4	
Parking Level P3	PLot	14.8	
Parking Level P4	PLot	30.8	
Parking Level P5	PLot	17.4	
Receiver R3 Fl F2 Leq,d 40.4 dB(A)			
Parking Level Ground	PLot	20.7	
Parking Level Ground	PLot	14.5	
Parking Level Ground	PLot	22.6	
Parking Level Ground	PLot	24.3	
Parking Level Ground	PLot	-0.6	

East End Studios ADLA
Calculated Noise Levels - 05 Parking

Source	Source type	Leq,d dB(A)	
Parking Level Ground	PLot	11.8	
Parking Level Ground	PLot	36.6	
Parking Level Ground	PLot	26.3	
Parking Level Ground	PLot	25.8	
Parking Level Ground	PLot	22.3	
Parking Level Ground	PLot	15.3	
Parking Level Ground	PLot	11.3	
Parking Level Ground	PLot	18.7	
Parking Level Ground	PLot	2.8	
Parking Level P1	PLot	-3.4	
Parking Level P2	PLot	30.9	
Parking Level P3	PLot	28.4	
Parking Level P4	PLot	32.4	
Parking Level P5	PLot	29.9	
Receiver R4 Fl G Leq,d 21.1 dB(A)			
Parking Level Ground	PLot	3.3	
Parking Level Ground	PLot	-3.8	
Parking Level Ground	PLot	8.2	
Parking Level Ground	PLot	-0.2	
Parking Level Ground	PLot	-5.3	
Parking Level Ground	PLot	-4.8	
Parking Level Ground	PLot	17.4	
Parking Level Ground	PLot	11.2	
Parking Level Ground	PLot	3.6	
Parking Level Ground	PLot	5.7	
Parking Level Ground	PLot	-1.1	
Parking Level Ground	PLot	-6.7	
Parking Level Ground	PLot	0.0	
Parking Level Ground	PLot	-6.5	
Parking Level P1	PLot		
Parking Level P2	PLot	14.4	
Parking Level P3	PLot	2.9	
Parking Level P4	PLot	9.1	
Parking Level P5	PLot	7.0	
Receiver R4 Fl F2 Leq,d 30.9 dB(A)			
Parking Level Ground	PLot	7.6	
Parking Level Ground	PLot	0.6	
Parking Level Ground	PLot	15.5	
Parking Level Ground	PLot	4.3	
Parking Level Ground	PLot	-2.1	
Parking Level Ground	PLot	-1.4	
Parking Level Ground	PLot	25.8	
Parking Level Ground	PLot	18.8	

East End Studios ADLA
Calculated Noise Levels - 05 Parking

Source	Source type	Leq,d dB(A)	
Parking Level Ground	PLot	13.1	
Parking Level Ground	PLot	11.1	
Parking Level Ground	PLot	5.5	
Parking Level Ground	PLot	-0.5	
Parking Level Ground	PLot	5.6	
Parking Level Ground	PLot	1.3	
Parking Level P1	PLot		
Parking Level P2	PLot	21.4	
Parking Level P3	PLot	20.5	
Parking Level P4	PLot	24.6	
Parking Level P5	PLot	21.8	
Receiver R5 Fl G Leq,d 17.4 dB(A)			
Parking Level Ground	PLot	0.4	
Parking Level Ground	PLot	-6.5	
Parking Level Ground	PLot	3.9	
Parking Level Ground	PLot	2.7	
Parking Level Ground	PLot	-3.3	
Parking Level Ground	PLot	-0.1	
Parking Level Ground	PLot	15.9	
Parking Level Ground	PLot	-1.2	
Parking Level Ground	PLot	-10.4	
Parking Level Ground	PLot	-1.1	
Parking Level Ground	PLot	0.5	
Parking Level Ground	PLot	-5.3	
Parking Level Ground	PLot	-0.8	
Parking Level Ground	PLot	-5.9	
Parking Level P1	PLot		
Parking Level P2	PLot	6.5	
Parking Level P3	PLot	-7.3	
Parking Level P4	PLot	-2.3	
Parking Level P5	PLot		
Receiver R6 Fl G Leq,d 29.1 dB(A)			
Parking Level Ground	PLot	9.2	
Parking Level Ground	PLot	1.3	
Parking Level Ground	PLot	14.1	
Parking Level Ground	PLot	13.4	
Parking Level Ground	PLot	11.1	
Parking Level Ground	PLot	14.4	
Parking Level Ground	PLot	27.9	
Parking Level Ground	PLot	5.4	
Parking Level Ground	PLot	-3.9	
Parking Level Ground	PLot	7.4	
Parking Level Ground	PLot	14.6	

East End Studios ADLA
Calculated Noise Levels - 05 Parking

Source	Source type	Leq,d dB(A)	
Parking Level Ground	PLot	9.4	
Parking Level Ground	PLot	15.6	
Parking Level Ground	PLot	4.6	
Parking Level P1	PLot		
Parking Level P2	PLot	12.0	
Parking Level P3	PLot	-14.2	
Parking Level P4	PLot	3.2	
Parking Level P5	PLot	-15.6	
Receiver R6 Fl F2 Leq,d 39.9 dB(A)			
Parking Level Ground	PLot	16.8	
Parking Level Ground	PLot	1.0	
Parking Level Ground	PLot	22.3	
Parking Level Ground	PLot	24.9	
Parking Level Ground	PLot	19.4	
Parking Level Ground	PLot	23.0	
Parking Level Ground	PLot	39.2	
Parking Level Ground	PLot	14.1	
Parking Level Ground	PLot	1.1	
Parking Level Ground	PLot	16.6	
Parking Level Ground	PLot	20.1	
Parking Level Ground	PLot	16.3	
Parking Level Ground	PLot	24.4	
Parking Level Ground	PLot	18.6	
Parking Level P1	PLot		
Parking Level P2	PLot	20.1	
Parking Level P3	PLot	-11.1	
Parking Level P4	PLot	13.6	
Parking Level P5	PLot	-10.8	
Receiver R7 Fl G Leq,d 34.0 dB(A)			
Parking Level Ground	PLot	1.6	
Parking Level Ground	PLot	-10.1	
Parking Level Ground	PLot	12.2	
Parking Level Ground	PLot	14.5	
Parking Level Ground	PLot	6.4	
Parking Level Ground	PLot	11.9	
Parking Level Ground	PLot	33.0	
Parking Level Ground	PLot	13.5	
Parking Level Ground	PLot	3.5	
Parking Level Ground	PLot	13.4	
Parking Level Ground	PLot	22.6	
Parking Level Ground	PLot	16.6	
Parking Level Ground	PLot	22.4	
Parking Level Ground	PLot	-2.0	

East End Studios ADLA
Calculated Noise Levels - 05 Parking

Source	Source type	Leq,d dB(A)	
Parking Level P1	PLot		
Parking Level P2	PLot	16.4	
Parking Level P3	PLot	-22.0	
Parking Level P4	PLot	2.5	
Parking Level P5	PLot	-19.8	

East End Studios ADLA
Source Levels in dB(A) - 06 Basecamp

Name	Source type	Lw dB(A)	
Basecamp	Area	105.2	

East End Studios ADLA
Calculated Noise Levels - 06 Basecamp

Source	Source type	Leq,d dB(A)	
Receiver R1 Fl G Leq,d 31.9 dB(A)			
Basecamp	Area	31.9	
Receiver R1 Fl F2 Leq,d 33.0 dB(A)			
Basecamp	Area	33.0	
Receiver R2 Fl G Leq,d 34.3 dB(A)			
Basecamp	Area	34.3	
Receiver R3 Fl G Leq,d 50.6 dB(A)			
Basecamp	Area	50.6	
Receiver R3 Fl F2 Leq,d 46.2 dB(A)			
Basecamp	Area	46.2	
Receiver R4 Fl G Leq,d 25.0 dB(A)			
Basecamp	Area	25.0	
Receiver R4 Fl F2 Leq,d 34.7 dB(A)			
Basecamp	Area	34.7	
Receiver R5 Fl G Leq,d 25.8 dB(A)			
Basecamp	Area	25.8	
Receiver R6 Fl G Leq,d 37.6 dB(A)			
Basecamp	Area	37.6	
Receiver R6 Fl F2 Leq,d 49.1 dB(A)			
Basecamp	Area	49.1	
Receiver R7 Fl G Leq,d 39.9 dB(A)			
Basecamp	Area	39.9	

AES
ACOUSTICAL ENGINEERING SERVICES

Off-Site Traffic Noise Calculations
Project: East End Studios ADLA 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 8%

EXISTING CONDITIONS

Roadway Segment	Roadway Width*, ft	Distance to Edge of Roadway, ft	Distance to Centerline, feet	Speed mph	Traffic Volume PHV	Traffic Volume ADT	PHV to ADT factor	Barrier Atten.	Site Adjust., dBA	24-Hour CNEL
Alameda Street										
- Between 4th St. and 6th St.	60	10	40	35	2,173	27,163	8%	0	0	69.7
- Between 6th St. and 7th St.	60	10	40	35	2,033	25,413	8%	0	0	69.4
- Between 7th St. and 8th St.	70	10	45	35	1,869	23,363	8%	0	0	68.4
Mill Street										
- Between 6th St. and 7th St.	40	10	30	25	118	1,475	8%	0	0	55.1
Mateo Street										
- Between 4th St. and 6th St.	40	10	30	30	629	7,863	8%	0	0	64.0
- Between 6th St. and 7th St.	40	10	30	30	551	6,888	8%	0	0	63.4
- Between 7th St. and 8th St.	40	10	30	30	659	8,238	8%	0	0	64.2
6th Street										
- Between Central Ave. and Alameda St.	50	10	35	35	1,403	17,538	8%	0	0	68.4
- Between Alameda St. and Mateo St.	50	10	35	35	1,447	18,088	8%	0	0	68.5
- Between Mateo St. and Santa Fe Ave.	50	10	35	35	1,459	18,238	8%	0	0	68.6
7th Street										
- Between Central Ave. and Alameda St.	50	10	35	35	1,527	19,088	8%	0	0	68.8
- Between Alameda St. and Mateo St.	50	10	35	35	1,463	18,288	8%	0	0	68.6
- Between Mateo St. and Santa Fe Ave.	50	10	35	35	1,492	18,650	8%	0	0	68.7

* Estimated based on Google Earth map.

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

Date Printed: 1/30/2024

AES
ACOUSTICAL ENGINEERING SERVICES

Off-Site Traffic Noise Calculations
Project: East End Studios ADLA 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 8%

EXISTING + PROJECT CONDITIONS

Roadway Segment	Roadway Width*, ft	Distance to Edge of Roadway, ft	Distance to Centerline, feet	Speed mph	Traffic Volume PHV	Traffic Volume ADT	PHV to ADT factor	Barrier Atten.	Site Adjust., dBA	24-Hour CNEL
Alameda Street										
- Between 4th St. and 6th St.	60	10	40	35	2,226	27,825	8%	0	0	69.8
- Between 6th St. and 7th St.	60	10	40	35	2,118	26,475	8%	0	0	69.6
- Between 7th St. and 8th St.	70	10	45	35	1,939	24,238	8%	0	0	68.6
Mill Street										
- Between 6th St. and 7th St.	40	10	30	25	206	2,575	8%	0	0	57.6
Mateo Street										
- Between 4th St. and 6th St.	40	10	30	30	664	8,300	8%	0	0	64.2
- Between 6th St. and 7th St.	40	10	30	30	732	9,150	8%	0	0	64.7
- Between 7th St. and 8th St.	40	10	30	30	823	10,288	8%	0	0	65.2
6th Street										
- Between Central Ave. and Alameda St.	50	10	35	35	1,443	18,038	8%	0	0	68.5
- Between Alameda St. and Mateo St.	50	10	35	35	1,647	20,588	8%	0	0	69.1
- Between Mateo St. and Santa Fe Ave.	50	10	35	35	1,724	21,550	8%	0	0	69.3
7th Street										
- Between Central Ave. and Alameda St.	50	10	35	35	1,533	19,163	8%	0	0	68.8
- Between Alameda St. and Mateo St.	50	10	35	35	1,595	19,938	8%	0	0	69.0
- Between Mateo St. and Santa Fe Ave.	50	10	35	35	1,652	20,650	8%	0	0	69.1

* Estimated based on Google Earth map.

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

Date Printed: 1/30/2024

AES
ACOUSTICAL ENGINEERING SERVICES

Off-Site Traffic Noise Calculations
Project: East End Studios ADLA 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 8%

FUTURE NO PROJECT CONDITIONS

Roadway Segment	Roadway Width*, ft	Distance to Edge of Roadway, ft	Distance to Centerline, feet	Speed mph	Traffic Volume PHV	Traffic Volume ADT	PHV to ADT factor	Barrier Atten.	Site Adjust., dBA	24-Hour CNEL
Alameda Street										
- Between 4th St. and 6th St.	60	10	40	35	2,261	28,263	8%	0	0	69.9
- Between 6th St. and 7th St.	60	10	40	35	2,115	26,438	8%	0	0	69.6
- Between 7th St. and 8th St.	70	10	45	35	1,944	24,300	8%	0	0	68.6
Mill Street										
- Between 6th St. and 7th St.	40	10	30	25	123	1,538	8%	0	0	55.3
Mateo Street										
- Between 4th St. and 6th St.	40	10	30	30	656	8,200	8%	0	0	64.2
- Between 6th St. and 7th St.	40	10	30	30	573	7,163	8%	0	0	63.6
- Between 7th St. and 8th St.	40	10	30	30	686	8,575	8%	0	0	64.4
6th Street										
- Between Central Ave. and Alameda St.	50	10	35	35	1,459	18,238	8%	0	0	68.6
- Between Alameda St. and Mateo St.	50	10	35	35	1,543	19,288	8%	0	0	68.8
- Between Mateo St. and Santa Fe Ave.	50	10	35	35	1,593	19,913	8%	0	0	68.9
7th Street										
- Between Central Ave. and Alameda St.	50	10	35	35	1,589	19,863	8%	0	0	68.9
- Between Alameda St. and Mateo St.	50	10	35	35	1,521	19,013	8%	0	0	68.7
- Between Mateo St. and Santa Fe Ave.	50	10	35	35	1,552	19,400	8%	0	0	68.8

* Estimated based on Google Earth map.

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

Date Printed: 1/30/2024

AES
ACOUSTICAL ENGINEERING SERVICES

Off-Site Traffic Noise Calculations
Project: East End Studios ADLA 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 8%

FUTURE + PROJECT CONDITIONS

Roadway Segment	Roadway Width*, ft	Distance to Edge of Roadway, ft	Distance to Centerline, feet	Speed mph	Traffic Volume PHV	Traffic Volume ADT	PHV to ADT factor	Barrier Atten.	Site Adjust., dBA	24-Hour CNEL
Alameda Street										
- Between 4th St. and 6th St.	60	10	40	35	2,314	28,925	8%	0	0	70.0
- Between 6th St. and 7th St.	60	10	40	35	2,200	27,500	8%	0	0	69.7
- Between 7th St. and 8th St.	70	10	45	35	2,014	25,175	8%	0	0	68.8
Mill Street										
- Between 6th St. and 7th St.	40	10	30	25	211	2,638	8%	0	0	57.7
Mateo Street										
- Between 4th St. and 6th St.	40	10	30	30	691	8,638	8%	0	0	64.4
- Between 6th St. and 7th St.	40	10	30	30	754	9,425	8%	0	0	64.8
- Between 7th St. and 8th St.	40	10	30	30	850	10,625	8%	0	0	65.3
6th Street										
- Between Central Ave. and Alameda St.	50	10	35	35	1,499	18,738	8%	0	0	68.7
- Between Alameda St. and Mateo St.	50	10	35	35	1,743	21,788	8%	0	0	69.3
- Between Mateo St. and Santa Fe Ave.	50	10	35	35	1,858	23,225	8%	0	0	69.6
7th Street										
- Between Central Ave. and Alameda St.	50	10	35	35	1,595	19,938	8%	0	0	69.0
- Between Alameda St. and Mateo St.	50	10	35	35	1,653	20,663	8%	0	0	69.1
- Between Mateo St. and Santa Fe Ave.	50	10	35	35	1,712	21,400	8%	0	0	69.3

* Estimated based on Google Earth map.

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

Date Printed: 1/30/2024

Alternatives Analysis

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Alternative Extended Construction Duration - 50% Reduction

	Estimated Construction Noise Levels, dBA Leq (Building Construction Phase)				Noise Exceedance above Threshold, dBA Leq	
Rec.	Project	Alternative 50% Reduction	Change in Noise Levels	Significance Threshold	Project	Alternative 3
R1	84.5	82.3	-2.2	76.1	8.4	6.2
R2	85.7	83.7	-2.0	77.4	8.3	6.3
R3	86.2	84.2	-2.0	74.9	11.3	9.3
R4	61.1	58.2	-2.9	63.9	0.0	0.0
R5	58.8	55.7	-3.1	73.8	0.0	0.0
R6	90.7	89.8	-0.9	69.5	21.2	20.3
R7	66.5	63.5	-3.0	66.0	0.5	0.0
R6A	77.7	74.9	-2.8	69.5	8.2	5.4

Alternative 3 - 75 ft Setback

	Estimated Construction Noise Levels, dBA Leq (Building Construction Phase)				Noise Exceedance above Threshold, dBA Leq	
Rec.	Project	Alternative 3	Change in Noise Levels	Significance Threshold	Project	Alternative 3
R1	84.5	84.5	0.0	76.1	8.4	8.4
R2	85.7	85.7	0.0	77.4	8.3	8.3
R3	86.2	86.2	0.0	74.9	11.3	11.3
R4	61.1	61.1	0.0	63.9	0.0	0.0
R5	58.8	57.7	-1.1	73.8	0.0	0.0
R6	90.7	84.2	-6.5	69.5	21.2	14.7
R7	66.5	66.5	0.0	66.0	0.5	0.5
R6A	77.7	76.0	-1.7	69.5	8.2	6.5

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: ***Building Construction***
Alternative - 50% Reduction

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	80	0
Aerial Lifts		75	20%		
Air Compressor	1	78	40%	105	0
Crane		81	16%		
Water Truck	1	82	10%	130	0
Rough Terrain Forklifts	3	83	40%	130	0
Pump	1	81	20%	155	0
Plate Compactor	1	83	20%	155	0
Welder	2	74	40%	180	0
Tractor/Loader/Backhoe	2	84	40%	180	0
Skid Steer Loaders	1	79	40%	205	0
Others (misc)	2	85	50%	205	0
Concrete Saw		90	20%		
Aerial Lifts	8	75	20%	230	0
Crane	2	81	16%	230	0
	25				

Receptor: ***R1***

Results:

1-hour Leq: **82.3**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: ***Building Construction***
Alternative - 50% Reduction

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	65	0
Aerial Lifts		75	20%		
Air Compressor	1	78	40%	90	0
Crane		81	16%		
Water Truck	1	82	10%	115	0
Rough Terrain Forklifts	3	83	40%	115	0
Pump	1	81	20%	140	0
Plate Compactor	1	83	20%	140	0
Welder	2	74	40%	165	0
Tractor/Loader/Backhoe	2	84	40%	165	0
Skid Steer Loaders	1	79	40%	190	0
Others (misc)	2	85	50%	190	0
Concrete Saw		90	20%		
Aerial Lifts	8	75	20%	215	0
Crane	2	81	16%	215	0
	25				

Receptor: ***R2***

Results:

1-hour Leq: **83.7**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: ***Building Construction***
Alternative - 50% Reduction

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	60	0
Aerial Lifts		75	20%		
Air Compressor	1	78	40%	85	0
Crane		81	16%		
Water Truck	1	82	10%	110	0
Rough Terrain Forklifts	3	83	40%	110	0
Pump	1	81	20%	135	0
Plate Compactor	1	83	20%	135	0
Welder	2	74	40%	160	0
Tractor/Loader/Backhoe	2	84	40%	160	0
Skid Steer Loaders	1	79	40%	185	0
Others (misc)	2	85	50%	185	0
Concrete Saw		90	20%		
Aerial Lifts	8	75	20%	210	0
Crane	2	81	16%	210	0
	25				

Receptor: ***R3***

Results:

1-hour Leq: **84.2**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: ***Building Construction***
Alternative - 50% Reduction

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	310	15
Aerial Lifts		75	20%		
Air Compressor	1	78	40%	335	15
Crane		81	16%		
Water Truck	1	82	10%	360	15
Rough Terrain Forklifts	3	83	40%	360	15
Pump	1	81	20%	385	15
Plate Compactor	1	83	20%	385	15
Welder	2	74	40%	410	15
Tractor/Loader/Backhoe	2	84	40%	410	15
Skid Steer Loaders	1	79	40%	435	15
Others (misc)	2	85	50%	435	15
Concrete Saw		90	20%		
Aerial Lifts	8	75	20%	460	15
Crane	2	81	16%	460	15
	25				

Receptor: ***R4***

Results:

1-hour Leq: **58.2**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: ***Building Construction***
Alternative - 50% Reduction

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	430	15
Aerial Lifts		75	20%		
Air Compressor	1	78	40%	455	15
Crane		81	16%		
Water Truck	1	82	10%	480	15
Rough Terrain Forklifts	3	83	40%	480	15
Pump	1	81	20%	505	15
Plate Compactor	1	83	20%	505	15
Welder	2	74	40%	530	15
Tractor/Loader/Backhoe	2	84	40%	530	15
Skid Steer Loaders	1	79	40%	555	15
Others (misc)	2	85	50%	555	15
Concrete Saw		90	20%		
Aerial Lifts	8	75	20%	580	15
Crane	2	81	16%	580	15
	25				

Receptor: ***R5***

Results:

1-hour Leq: **55.7**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: ***Building Construction***
Alternative - 50% Reduction

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	25	0
Aerial Lifts		75	20%		
Air Compressor	1	78	40%	50	0
Crane		81	16%		
Water Truck	1	82	10%	75	0
Rough Terrain Forklifts	3	83	40%	100	0
Pump	1	81	20%	100	0
Plate Compactor	1	83	20%	125	0
Welder	2	74	40%	125	0
Tractor/Loader/Backhoe	2	84	40%	150	0
Skid Steer Loaders	1	79	40%	150	0
Others (misc)	2	85	50%	175	0
Concrete Saw		90	20%		
Aerial Lifts	8	75	20%	200	0
Crane	2	81	16%	200	0
	25				

Receptor: ***R6***

Results:

1-hour Leq: **89.8**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: ***Building Construction***
Alternative - 50% Reduction

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	245	0
Aerial Lifts		75	20%		
Air Compressor	1	78	40%	270	0
Crane		81	16%		
Water Truck	1	82	10%	295	0
Rough Terrain Forklifts	3	83	40%	295	0
Pump	1	81	20%	320	0
Plate Compactor	1	83	20%	320	0
Welder	2	74	40%	345	0
Tractor/Loader/Backhoe	2	84	40%	345	0
Skid Steer Loaders	1	79	40%	370	0
Others (misc)	2	85	50%	370	0
Concrete Saw		90	20%		
Aerial Lifts	8	75	20%	395	0
Crane	2	81	16%	395	0
	25				

Receptor: ***R8***

Results:

1-hour Leq: **74.9**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: ***Building Construction***
Alternative - 50% Reduction

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	580	5
Aerial Lifts		75	20%		
Air Compressor	1	78	40%	605	5
Crane		81	16%		
Water Truck	1	82	10%	630	5
Rough Terrain Forklifts	3	83	40%	630	5
Pump	1	81	20%	655	5
Plate Compactor	1	83	20%	655	5
Welder	2	74	40%	680	5
Tractor/Loader/Backhoe	2	84	40%	680	5
Skid Steer Loaders	1	79	40%	705	5
Others (misc)	2	85	50%	705	5
Concrete Saw		90	20%		
Aerial Lifts	8	75	20%	730	5
Crane	2	81	16%	730	5
	25				

Receptor: ***R7***

Results:

1-hour Leq: **63.5**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: ***Building Construction***
Alternative - Single Equipment

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	25	0
Aerial Lifts		75	20%		
Air Compressor		78	40%		
Crane		81	16%		
Water Truck		82	10%		
Rough Terrain Forklifts		83	40%		
Pump		81	20%		
Plate Compactor		83	20%		
Welder		74	40%		
Tractor/Loader/Backhoe		84	40%		
Skid Steer Loaders		79	40%		
Others (misc)		85	50%		
Concrete Saw		90	20%		
Aerial Lifts		75	20%		
Crane		81	16%		
	1				

Receptor: ***R6***

Results:

1-hour Leq: **89.0**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: ***Building Construction***
Alternative 3 - 75 ft Setback

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	80	0
Aerial Lifts	1	75	20%	80	0
Air Compressor	2	78	40%	105	0
Crane	1	81	16%	105	0
Water Truck	1	82	10%	130	0
Rough Terrain Forklifts	6	83	40%	130	0
Pump	2	81	20%	155	0
Plate Compactor	2	83	20%	155	0
Welder	4	74	40%	180	0
Tractor/Loader/Backhoe	4	84	40%	180	0
Skid Steer Loaders	2	79	40%	205	0
Others (misc)	5	85	50%	205	0
Concrete Saw	1	90	20%	230	0
Aerial Lifts	15	75	20%	230	0
Crane	3	81	16%	230	0
	50				

Receptor: ***R1***

Results:

1-hour Leq: **84.5**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: ***Building Construction***
Alternative 3 - 75 ft Setback

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	65	0
Aerial Lifts	1	75	20%	65	0
Air Compressor	2	78	40%	90	0
Crane	1	81	16%	90	0
Water Truck	1	82	10%	115	0
Rough Terrain Forklifts	6	83	40%	115	0
Pump	2	81	20%	140	0
Plate Compactor	2	83	20%	140	0
Welder	4	74	40%	165	0
Tractor/Loader/Backhoe	4	84	40%	165	0
Skid Steer Loaders	2	79	40%	190	0
Others (misc)	5	85	50%	190	0
Concrete Saw	1	90	20%	215	0
Aerial Lifts	15	75	20%	215	0
Crane	3	81	16%	215	0
	50				

Receptor: ***R2***

Results:

1-hour Leq: **85.7**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: ***Building Construction***
Alternative 3 - 75 ft Setback

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	60	0
Aerial Lifts	1	75	20%	60	0
Air Compressor	2	78	40%	85	0
Crane	1	81	16%	85	0
Water Truck	1	82	10%	110	0
Rough Terrain Forklifts	6	83	40%	110	0
Pump	2	81	20%	135	0
Plate Compactor	2	83	20%	135	0
Welder	4	74	40%	160	0
Tractor/Loader/Backhoe	4	84	40%	160	0
Skid Steer Loaders	2	79	40%	185	0
Others (misc)	5	85	50%	185	0
Concrete Saw	1	90	20%	210	0
Aerial Lifts	15	75	20%	210	0
Crane	3	81	16%	210	0
	50				

Receptor: ***R3***

Results:

1-hour Leq: **86.2**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: ***Building Construction***
Alternative 3 - 75 ft Setback

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	310	15
Aerial Lifts	1	75	20%	310	15
Air Compressor	2	78	40%	335	15
Crane	1	81	16%	335	15
Water Truck	1	82	10%	360	15
Rough Terrain Forklifts	6	83	40%	360	15
Pump	2	81	20%	385	15
Plate Compactor	2	83	20%	385	15
Welder	4	74	40%	410	15
Tractor/Loader/Backhoe	4	84	40%	410	15
Skid Steer Loaders	2	79	40%	435	15
Others (misc)	5	85	50%	435	15
Concrete Saw	1	90	20%	460	15
Aerial Lifts	15	75	20%	460	15
Crane	3	81	16%	460	15
	50				

Receptor: ***R4***

Results:

1-hour Leq: **61.1**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: ***Building Construction***
Alternative 3 - 75 ft Setback

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	500	15
Aerial Lifts	1	75	20%	500	15
Air Compressor	2	78	40%	525	15
Crane	1	81	16%	525	15
Water Truck	1	82	10%	550	15
Rough Terrain Forklifts	6	83	40%	550	15
Pump	2	81	20%	575	15
Plate Compactor	2	83	20%	575	15
Welder	4	74	40%	600	15
Tractor/Loader/Backhoe	4	84	40%	600	15
Skid Steer Loaders	2	79	40%	625	15
Others (misc)	5	85	50%	625	15
Concrete Saw	1	90	20%	650	15
Aerial Lifts	15	75	20%	650	15
Crane	3	81	16%	650	15
	50				

Receptor: ***R5***

Results:

1-hour Leq: **57.7**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: ***Building Construction***
Alternative 3 - 75 ft Setback

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	75	0
Aerial Lifts	1	75	20%	100	0
Air Compressor	2	78	40%	100	0
Crane	1	81	16%	125	0
Water Truck	1	82	10%	125	0
Rough Terrain Forklifts	6	83	40%	150	0
Pump	2	81	20%	150	0
Plate Compactor	2	83	20%	175	0
Welder	4	74	40%	175	0
Tractor/Loader/Backhoe	4	84	40%	200	0
Skid Steer Loaders	2	79	40%	200	0
Others (misc)	5	85	50%	225	0
Concrete Saw	1	90	20%	225	0
Aerial Lifts	15	75	20%	250	0
Crane	3	81	16%	250	0
	50				

Receptor: ***R6***

Results:

1-hour Leq: **84.2**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: ***Building Construction***
Alternative 3 - 75 ft Setback

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	315	0
Aerial Lifts	1	75	20%	315	0
Air Compressor	2	78	40%	340	0
Crane	1	81	16%	340	0
Water Truck	1	82	10%	365	0
Rough Terrain Forklifts	6	83	40%	365	0
Pump	2	81	20%	390	0
Plate Compactor	2	83	20%	390	0
Welder	4	74	40%	415	0
Tractor/Loader/Backhoe	4	84	40%	415	0
Skid Steer Loaders	2	79	40%	440	0
Others (misc)	5	85	50%	440	0
Concrete Saw	1	90	20%	465	0
Aerial Lifts	15	75	20%	465	0
Crane	3	81	16%	465	0
	50				

Receptor: ***R6A***

Results:

1-hour Leq: 76.0

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Phase: ***Building Construction***
Alternative 3 - 75 ft Setback

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	580	5
Aerial Lifts	1	75	20%	580	5
Air Compressor	2	78	40%	605	5
Crane	1	81	16%	605	5
Water Truck	1	82	10%	630	5
Rough Terrain Forklifts	6	83	40%	630	5
Pump	2	81	20%	655	5
Plate Compactor	2	83	20%	655	5
Welder	4	74	40%	680	5
Tractor/Loader/Backhoe	4	84	40%	680	5
Skid Steer Loaders	2	79	40%	705	5
Others (misc)	5	85	50%	705	5
Concrete Saw	1	90	20%	730	5
Aerial Lifts	15	75	20%	730	5
Crane	3	81	16%	730	5
	50				

Receptor: ***R7***

Results:

1-hour Leq: **66.5**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: East End Studios Project

Construction Vibration Impacts - *Alternative 3 75-ft Setback*

Reference Levels at 25 feet are based on FTA, 2006 (Transit Noise and Vibration Impact Assessment)
Calculations using FTA procedure witl 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 Damage

Equipment	Reference Vibration Levels at 25 ft., PPV	Estimated Vibration Levels at nearest off-site building structures, distance in feet, PPV									
		1205, 1235, 1269, E. 6th St. (Historic)		1275, 1281, 1291, E 6th St. (Historic)		1309 E 6th St. (Historic)		1340 E 6th St. (Historic)		1567 Industrial St. (Historic)	
		Distance	Level	Distance	Level	Distance	Level	Distance	Level	Distance	Level
Vibratory Roller	0.210	80	0.037	80	0.037	65	0.05010	60	0.0565	110	0.023
Large Bulldozer	0.089	80	0.016	80	0.016	65	0.02120	60	0.0239	110	0.010
Caisson Drilling	0.089	80	0.016	80	0.016	65	0.02120	60	0.0239	110	0.010
Loaded Trucks	0.076	80	0.013	80	0.013	65	0.01810	60	0.0204	110	0.008
Jackhammer	0.035	80	0.006	80	0.006	65	0.00830	60	0.0094	110	0.004
Small bulldozer	0.003	80	0.001	80	0.001	65	0.00070	60	0.0008	110	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									
		Buildings on North Side of E 6th St.		Building on East side of Mill St.		Multi-Residential Bldg. South of PS		Commercial Bldg. West of PS			
		Distance	Level	Distance	Level	Distance	Level	Distance	Level		
Vibratory Roller	0.210	80	0.037	60	0.057	75	0.040	130	0.018		
Large Bulldozer	0.089	80	0.016	60	0.024	75	0.017	130	0.008		
Caisson Drilling	0.089	80	0.016	60	0.024	75	0.017	130	0.008		
Loaded Trucks	0.076	80	0.013	60	0.020	75	0.015	130	0.006		
Jackhammer	0.035	80	0.006	60	0.009	75	0.007	130	0.003		
Small bulldozer	0.003	80	0.001	60	0.001	75	0.001	130	0.000		

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		R5	
		Distance	Level	Distance	Level	Distance	Level	Distance	Level	Distance	Level
Vibratory Roller	94	80	79	80	79	60	83	310	61	500	55
Large Bulldozer	87	80	72	80	72	60	76	310	54	500	48
Caisson Drilling	87	80	72	80	72	60	76	310	54	500	48
Loaded Truck	86	80	71	80	71	60	75	310	53	500	47
Jackhammer	79	80	64	80	64	60	68	310	46	500	40
Small bulldozer	58	80	43	80	43	60	47	310	25	500	19

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									
		R6		R7		R6A					
		Distance	Level	Distance	Level	Distance	Level	Distance	Level	Distance	Level
Vibratory Roller	94	75	80	580	53	320	61				
Large Bulldozer	87	75	73	580	46	320	54				
Caisson Drilling	87	75	73	580	46	320	54				
Loaded Truck	86	75	72	580	45	320	53				
Jackhammer	79	75	65	580	38	320	46				
Small bulldozer	58	75	44	580	17	320	25				