

Appendix I

Noise Calculation Worksheets

Hollywood & Wilcox Project

Noise Calculations Worksheets

Provided by Acoustical Engineering Services

Ambient Noise Measurements

Location: R1 -
Date: 1/10/2018

Time	Overload	Leq	Lmax	L10	L90
9:56:02 AM	No	56.2	59.4	57.3	55.3
9:57:02 AM	No	55.5	58.6	56.1	54.8
9:58:02 AM	No	55.4	59.8	56.1	54.5
9:59:02 AM	No	55.4	61.3	56.6	54.3
10:00:02 AM	No	54.9	56.5	55.4	54.5
10:02:02 AM	No	54.6	56.8	55.3	53.9
10:03:02 AM	No	56	59.8	57.3	54
10:04:02 AM	No	55	57.4	56	54.3
10:05:02 AM	No	58.9	69.4	60.4	54.6
10:06:02 AM	No	58.2	60.8	59.8	54.5
10:07:02 AM	No	58.1	59.6	59	55
10:08:02 AM	No	59.2	66.6	62.6	54.7
10:09:02 AM	No	55.3	59.6	56.3	54.2
10:10:02 AM	No	55.1	58.6	56	54.2
		56.5			

Time	Overload	Leq	Lmax	L10	L90
9:59:53 PM	No	54.2	55.7	54.8	53.5
10:00:53 PM	No	55.6	61.1	57.4	53.8
10:01:53 PM	No	54.1	56	54.6	53.6
10:02:53 PM	No	54.4	55.7	55	53.8
10:03:53 PM	No	55.1	61.8	55.8	54.3
10:04:53 PM	No	55.7	59.4	57.1	54.6
10:05:53 PM	No	55.7	58.3	56.9	54.7
10:06:53 PM	No	55.1	57.7	56.1	54.3
10:07:53 PM	No	54.7	56.5	55.4	54.1
10:08:53 PM	No	54.6	55.9	55.3	54
10:09:53 PM	No	55.2	57	56.4	54.3
10:10:53 PM	No	55.7	57.1	56.7	54.5
10:11:53 PM	No	55.3	56.5	56	54.5
10:12:53 PM	No	54.9	57	55.7	54.2
10:13:53 PM	No	54.8	57.3	55.7	54.1
		55.0			

Location: R2 -
Date: 1/10/2018

Time	Overload	Leq	Lmax	L10	L90
10:16:23 AM	No	62.4	69.2	66.2	56.5
10:17:23 AM	No	66.5	74.2	70.3	60.1
10:18:23 AM	No	65.3	70.5	68.5	61.7
10:19:23 AM	No	69.3	77.7	73.1	63.3
10:20:23 AM	No	66	72	69.4	57.2
10:22:23 AM	No	63.3	70.6	67.6	54.6
10:23:23 AM	No	66.5	73.8	70.6	60.6
10:24:23 AM	No	66.7	71.2	69.6	63.8
10:25:23 AM	No	64.6	68	66.8	60
10:26:23 AM	No	69.9	77.9	72.4	66.2
10:27:23 AM	No	65.3	72	68.7	59.4
10:28:23 AM	No	68.1	80.9	69.5	63.2
10:29:23 AM	No	68	78.5	71.4	62.1
10:30:23 AM	No	68.4	76.7	70.9	64.8
		66.8			

Time	Overload	Leq	Lmax	L10	L90
10:17:55 PM	No	62.5	70.4	65	56.5
10:18:55 PM	No	63.1	72.2	67	54.2
10:19:55 PM	No	62.1	67.9	65.8	58.3
10:20:55 PM	No	63.2	73.6	66.6	54.8
10:21:55 PM	No	62	70.3	65.4	56.2
10:22:55 PM	No	60.3	69.7	63.5	54.7
10:23:55 PM	No	63.2	70.1	66.7	59.1
10:24:55 PM	No	63.1	70	67.7	55.9
10:25:55 PM	No	62.6	70.9	65.5	57.7
10:26:55 PM	No	62.7	67.8	64.7	60.8
10:27:55 PM	No	68.2	81.8	69.6	59.1
10:28:55 PM	No	61.9	72.4	65.2	56.8
10:29:55 PM	No	65.9	75.7	70.2	58.1
10:30:55 PM	No	62.5	68.5	65.9	56.6
10:31:55 PM	No	59.5	65.6	62.7	55.8
		63.4			

Location: R3
Date: 1/10/2018

Time	Overload	Leq	Lmax	L10	L90
10:36:21 AM	No	61	68.1	64.5	56.5
10:37:21 AM	No	60.9	71.9	62.3	56.2
10:38:21 AM	No	63.1	68.1	66.4	56.7
10:39:21 AM	No	63.9	73.2	67.1	57.1
10:40:21 AM	No	58.5	64.7	60.2	56.1
10:42:21 AM	No	60.4	66.3	63.6	55.5
10:43:21 AM	No	58.3	68.1	59	55.9
10:44:21 AM	No	59.8	70.7	63.2	55.6
10:45:21 AM	No	75	80.9	80.4	65.2
10:46:21 AM	No	81	82.2	81.6	80
10:47:21 AM	No	80.9	83.4	81.6	79.7
10:48:21 AM	No	81	81.7	81.3	80.6
10:49:21 AM	No	81.2	83.1	81.8	80.7
10:50:21 AM	No	81.2	82	81.6	80.8

61.4

Time	Overload	Leq	Lmax	L10	L90
10:36:43 PM	No	56.7	63.1	60	53.1
10:37:43 PM	No	56.3	62.5	59.9	51.7
10:38:43 PM	No	59	71	60.2	52.1
10:39:43 PM	No	54.9	63.2	58.4	51.9
10:40:43 PM	No	54.5	62.7	57	51.8
10:41:43 PM	No	63.6	74.6	68.7	52.3
10:42:43 PM	No	56.1	65.6	58.9	51.5
10:43:43 PM	No	56.2	63.9	60.4	51.3
10:44:43 PM	No	60	73.4	61.1	51.7
10:45:43 PM	No	55.4	61	58.7	52.6
10:46:43 PM	No	55.9	62.7	58.9	53
10:47:43 PM	No	56	60.7	58.2	53.6
10:48:43 PM	No	56.3	61.4	59.6	53
10:49:43 PM	No	55.9	63.7	58.1	52.8
10:50:43 PM	No	54.6	61.2	55.5	53.2

57.6

Location: R4
Date: 1/10/2018

Time	Overload	Leq	Lmax	L10	L90
10:56:58 AM	No	72.7	79.6	76.4	67.8
10:57:58 AM	No	67	72.7	69.8	61
10:58:58 AM	No	71.4	77.4	74	66.4
10:59:58 AM	No	69.3	73.1	72.4	62.9
11:00:58 AM	No	69.2	75.6	72.1	61.4
11:02:58 AM	No	68.5	76.9	71.1	64
11:03:58 AM	No	70.9	77.6	73.9	65.8
11:04:58 AM	No	65.3	74.3	70.7	54.2
11:05:58 AM	No	71.3	77.1	73.8	65.9
11:06:58 AM	No	71	80.8	71.6	65.5
11:07:58 AM	No	77.7	89.5	80.4	62.7
11:08:58 AM	No	71.4	76.8	74.9	64.5
11:09:58 AM	No	69.3	75.1	73.9	60.7
11:10:58 AM	No	72.3	81.8	74.5	67.7

70.9

Time	Overload	Leq	Lmax	L10	L90
10:55:03 PM	No	69.7	73.4	72.2	59.6
10:56:03 PM	No	70.3	75.8	73.8	61.9
10:57:03 PM	No	68.3	74.5	72.6	63
10:58:03 PM	No	69.6	73.3	72.4	66.7
10:59:03 PM	No	73.5	81.4	79.3	63.9
11:00:03 PM	No	74	81.6	77.6	67.7
11:01:03 PM	No	69.3	73.5	72.2	64.6
11:02:03 PM	No	68	72.4	71.7	63.3
11:03:03 PM	No	67.2	72.3	69.3	63.3
11:04:03 PM	No	66.7	71.9	69.5	63.6
11:05:03 PM	No	70.1	76.1	74.2	64.5
11:06:03 PM	No	69	73.9	71.6	65.2
11:07:03 PM	No	79.4	92.5	83.1	66.3
11:08:03 PM	No	70	75.8	72.2	65.9
11:09:03 PM	No	71.1	80.2	73.8	62.3

70.3

Location: R5
Date: 1/10/2018

Time	Overload	Leq	Lmax	L10	L90
11:16:24 AM	No	60.9	66.7	64.2	56.9
11:17:24 AM	No	64.1	70.1	67.4	56.4
11:18:24 AM	No	62.5	68.1	66.6	55.9
11:19:24 AM	No	62.1	68.1	67	57.3
11:20:24 AM	No	62.1	69.5	65.8	54.6
11:21:24 AM	No	57.5	63.1	61.1	54.4
11:22:24 AM	No	64.6	68.5	67.3	57.7
11:23:24 AM	No	60.7	67.2	64.1	56.5
11:24:24 AM	No	64.2	69.6	66.9	58.5
11:25:24 AM	No	65.3	74	68.5	58.3
11:26:24 AM	No	62.4	69	66.3	56.4
11:27:24 AM	No	65.3	70	68.7	57.6
11:28:24 AM	No	62.4	68.7	65.5	58
11:29:24 AM	No	65.4	69.8	68.1	61.2
11:30:24 AM	No	68.5	82.5	67.8	64.4
		64.0			

Time	Overload	Leq	Lmax	L10	L90
11:13:32 PM	No	64.3	74.1	67.7	55.3
11:14:32 PM	No	61.2	67.9	65.1	53.7
11:15:32 PM	No	59.7	65.6	63.5	55
11:16:32 PM	No	63	71.3	66.6	55.7
11:17:32 PM	No	60.7	69.4	64.9	53.9
11:18:32 PM	No	60.5	69.2	63.9	54.9
11:19:32 PM	No	61.1	68.5	64.8	54.6
11:20:32 PM	No	61.3	71.9	65.9	53
11:21:32 PM	No	61.2	67.7	63.6	54.1
11:22:32 PM	No	57.6	63.7	62.3	53.3
11:23:32 PM	No	60.3	68.1	63.1	54.5
11:24:32 PM	No	62.3	67.2	64.7	56.1
11:25:32 PM	No	60.4	66.4	64.5	53.2
11:26:32 PM	No	65.9	77	69.9	56
11:27:32 PM	No	59.7	68.8	63.3	54
		61.8			

Location: R5
Date: 1/10/2018

Time	Overload	Leq	Lmax	L10	L90
11:40:06 AM	No	60.6	65.8	61.2	60
11:41:06 AM	No	62.4	67.6	64.8	60.4
11:42:06 AM	No	67.9	78.4	70.9	60.6
11:43:06 AM	No	61.7	66.7	63.7	60.1
11:44:06 AM	No	63.1	71.9	65.6	60.2
11:45:06 AM	No	66.3	75.9	69.7	62.3
11:46:06 AM	No	69.2	78	73	64.3
11:47:06 AM	No	63.4	75	65.1	58.1
11:48:06 AM	No	57.5	62.4	59.4	54.6
11:49:06 AM	No	59.8	70.1	63.9	53.6
11:50:06 AM	No	58.9	67	62.8	53.8
11:51:06 AM	No	59	69	62	54.4
11:52:06 AM	No	55.1	59.7	57.3	52.8
11:53:06 AM	No	58	67.7	60.1	55.7
11:54:06 AM	No	59.8	67.8	64.3	54.1

63.3

Time	Overload	Leq	Lmax	L10	L90
11:36:53 PM	No	57.3	60.2	59	55.9
11:37:53 PM	No	56.8	59.8	57.9	55.8
11:38:53 PM	No	56.8	66.3	57.7	54.8
11:39:53 PM	No	56.3	58.4	57.2	55.3
11:40:53 PM	No	63.6	72.8	68.4	56.3
11:41:53 PM	No	61.1	67.6	64.3	56.6
11:42:53 PM	No	56.9	63.8	60	54.4
11:43:53 PM	No	56.9	62.1	59.6	55.2
11:44:53 PM	No	57.5	63.6	60.4	55.2
11:45:53 PM	No	60.2	67.1	64.5	54.9
11:46:53 PM	No	64.4	76.5	67.1	55.5
11:47:53 PM	No	59.1	73.6	57.4	54.6
11:48:53 PM	No	58.9	69	60.2	56.1
11:49:53 PM	No	57.1	62.7	59.4	55.1
11:50:53 PM	No	56.6	58.2	57.4	55.6

59.5

Construction Noise Calculations

Project: Hollywood & Wilcox 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%	10	0
Excavator	1	81	40%	30	0
Front End Loader	1	79	40%	30	0
Bobcat	1	79	40%	50	0
Water Truck	1	82	10%	50	0
Air Compressor	1	78	40%	75	0
Excavator	1	81	40%	75	0

7

Receptor: ***R1***

Results:
1-hour Leq: 97.3

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: Hollywood & Wilcox Project

Construction Phase: *Shoring/Excavation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Bore/Drill Rig	1	84	20%	10	0
Plate Compactor	1	83	20%	30	0
Excavator	1	81	40%	30	0
Front End Loader	1	79	40%	50	0
Tieback Drill Rig	2	79	20%	50	0
Air Compressor	1	78	40%	75	0
Concrete Trucks	2	79	40%	75	0
Welders	4	74	40%	100	0
Crane	1	81	16%	100	0
Bore/Drill Rig	1	84	20%	100	0

15

Receptor: ***R1***

Results:
1-hour Leq: 92.1

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: Hollywood & Wilcox 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
Plate Compactor	1	83	20%	10	0
Concrete Pump	1	81	20%	30	0
Crane	1	81	16%	30	0
Generator	1	81	50%	50	0
Fork Lift	2	75	20%	50	0
Plate Compactor	1	83	20%	75	0
Generator	1	81	50%	75	0

8

Receptor: ***R1***

Results:
1-hour Leq: 91.0

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: Hollywood & Wilcox 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
Crane	1	81	16%	10	0
Concrete Pump	1	81	20%	30	0
Fork Lift	2	75	20%	30	0
Fork Lift	2	75	20%	50	0
Fork Lift	2	75	20%	50	0
Crane	1	81	16%	75	0

9

Receptor: ***R1***

Results:
1-hour Leq: 88.1

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: Hollywood & Wilcox Project

Construction Phase: Paving/Concrete/Landscape

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Cement & Mortar Mixer	1	80	50%	10	0
Paving Equipment	1	75	20%	30	0
Skid Steer Loader	2	79	40%	30	0
Crane	1	81	16%	50	0

Receptor: 5
R1

Results:
1-hour Leq: 91.7

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: Hollywood & Wilcox 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%	305	5
Excavator	1	81	40%	305	5
Front End Loader	1	79	40%	325	5
Bobcat	1	79	40%	325	5
Water Truck	1	82	10%	350	5
Air Compressor	1	78	40%	350	5
Excavator	1	81	40%	375	5

7

Receptor: **R2**

Results:
1-hour Leq: 65.0

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: Hollywood & Wilcox Project

Construction Phase: *Shoring/Excavation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Bore/Drill Rig	1	84	20%	305	5
Plate Compactor	1	83	20%	305	5
Excavator	1	81	40%	325	5
Front End Loader	1	79	40%	325	5
Tieback Drill Rig	2	79	20%	350	5
Air Compressor	1	78	40%	350	5
Concrete Trucks	2	79	40%	375	5
Welders	4	74	40%	375	5
Crane	1	81	16%	400	5
Bore/Drill Rig	1	84	20%	400	5

15

Receptor: ***R2***

Results:

1-hour Leq: 64.3

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: Hollywood & Wilcox 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
Plate Compactor	1	83	20%	305	5
Concrete Pump	1	81	20%	305	5
Crane	1	81	16%	325	5
Generator	1	81	50%	325	5
Fork Lift	2	75	20%	350	5
Plate Compactor	1	83	20%	350	5
Generator	1	81	50%	375	5

8

Receptor: ***R2***

Results:

1-hour Leq: 62.7

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: Hollywood & Wilcox 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
Crane	1	81	16%	305	5
Concrete Pump	1	81	20%	305	5
Fork Lift	2	75	20%	325	5
Fork Lift	2	75	20%	325	5
Fork Lift	2	75	20%	350	5
Crane	1	81	16%	350	5

9

Receptor: ***R2***

Results:
1-hour Leq: 59.0

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: Hollywood & Wilcox Project

Construction Phase: Paving/Concrete/Landscape

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Cement & Mortar Mixer	1	80	50%	305	5
Paving Equipment	1	75	20%	305	5
Skid Steer Loader	2	79	40%	325	5
Crane	1	81	16%	325	5

Receptor: 5
R2

Results:
1-hour Leq: 60.4

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: Hollywood & Wilcox 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%	260	0
Excavator	1	81	40%	260	0
Front End Loader	1	79	40%	280	0
Bobcat	1	79	40%	280	0
Water Truck	1	82	10%	300	0
Air Compressor	1	78	40%	300	0
Excavator	1	81	40%	320	0

7

Receptor: **R3**

Results:
1-hour Leq: 71.4

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: Hollywood & Wilcox Project

Construction Phase: *Shoring/Excavation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Bore/Drill Rig	1	84	20%	260	0
Plate Compactor	1	83	20%	260	0
Excavator	1	81	40%	280	0
Front End Loader	1	79	40%	280	0
Tieback Drill Rig	2	79	20%	300	0
Air Compressor	1	78	40%	300	0
Concrete Trucks	2	79	40%	320	0
Welders	4	74	40%	320	0
Crane	1	81	16%	340	0
Bore/Drill Rig	1	84	20%	340	0

15

Receptor: ***R3***

Results:

1-hour Leq: 70.6

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: Hollywood & Wilcox 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
Plate Compactor	1	83	20%	260	0
Concrete Pump	1	81	20%	260	0
Crane	1	81	16%	280	0
Generator	1	81	50%	280	0
Fork Lift	2	75	20%	300	0
Plate Compactor	1	83	20%	300	0
Generator	1	81	50%	320	0

8

Receptor: ***R3***

Results:
1-hour Leq: 69.1

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: Hollywood & Wilcox 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
Crane	1	81	16%	260	0
Concrete Pump	1	81	20%	260	0
Fork Lift	2	75	20%	280	0
Fork Lift	2	75	20%	280	0
Fork Lift	2	75	20%	300	0
Crane	1	81	16%	300	0

9

Receptor: ***R3***

Results:
1-hour Leq: 65.3

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: Hollywood & Wilcox Project

Construction Phase: Paving/Concrete/Landscape

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Cement & Mortar Mixer	1	80	50%	260	0
Paving Equipment	1	75	20%	260	0
Skid Steer Loader	2	79	40%	280	0
Crane	1	81	16%	280	0

Receptor: 5
R3

Results:
1-hour Leq: 66.8

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: Hollywood & Wilcox 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%	415	10
Excavator	1	81	40%	415	10
Front End Loader	1	79	40%	435	10
Bobcat	1	79	40%	435	10
Water Truck	1	82	10%	455	10
Air Compressor	1	78	40%	455	10
Excavator	1	81	40%	475	10

7

Receptor: ***R4***

Results:

1-hour Leq: 57.4

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: Hollywood & Wilcox Project

Construction Phase: *Shoring/Excavation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Bore/Drill Rig	1	84	20%	415	10
Plate Compactor	1	83	20%	415	10
Excavator	1	81	40%	435	10
Front End Loader	1	79	40%	435	10
Tieback Drill Rig	2	79	20%	455	10
Air Compressor	1	78	40%	455	10
Concrete Trucks	2	79	40%	475	10
Welders	4	74	40%	475	10
Crane	1	81	16%	495	10
Bore/Drill Rig	1	84	20%	495	10

15

Receptor: ***R4***

Results:

1-hour Leq: 56.9

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: Hollywood & Wilcox 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
Plate Compactor	1	83	20%	415	10
Concrete Pump	1	81	20%	415	10
Crane	1	81	16%	435	10
Generator	1	81	50%	435	10
Fork Lift	2	75	20%	455	10
Plate Compactor	1	83	20%	455	10
Generator	1	81	50%	475	10

8

Receptor: ***R4***

Results:
1-hour Leq: 55.3

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: Hollywood & Wilcox 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
Crane	1	81	16%	415	10
Concrete Pump	1	81	20%	415	10
Fork Lift	2	75	20%	435	10
Fork Lift	2	75	20%	435	10
Fork Lift	2	75	20%	455	10
Crane	1	81	16%	455	10

9

Receptor: ***R4***

Results:
1-hour Leq: 51.4

Source for Ref. Noise Levels: FHWA RCNM, 2006

Construction Phase: Paving/Concrete/Landscape

Description	No. of Equip.	Reference	Acoustical Usage Factor	Distance to Receptor, ft	Estimated
		Noise Level at 50ft, Lmax			Noise Shielding, dBA
Cement & Mortar Mixer	1	80	50%	415	10
Paving Equipment	1	75	20%	415	10
Skid Steer Loader	2	79	40%	435	10
Crane	1	81	16%	435	10

5

1-hour Leq: 52.8

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: Hollywood & Wilcox 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%	345	10
Excavator	1	81	40%	345	10
Front End Loader	1	79	40%	365	10
Bobcat	1	79	40%	365	10
Water Truck	1	82	10%	385	10
Air Compressor	1	78	40%	385	10
Excavator	1	81	40%	405	10

7

Receptor: ***R5***

Results:

1-hour Leq: 59.0

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: Hollywood & Wilcox Project

Construction Phase: *Shoring/Excavation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Bore/Drill Rig	1	84	20%	345	10
Plate Compactor	1	83	20%	345	10
Excavator	1	81	40%	365	10
Front End Loader	1	79	40%	365	10
Tieback Drill Rig	2	79	20%	385	10
Air Compressor	1	78	40%	385	10
Concrete Trucks	2	79	40%	405	10
Welders	4	74	40%	405	10
Crane	1	81	16%	425	10
Bore/Drill Rig	1	84	20%	425	10

15

Receptor: *R5*

Results:

1-hour Leq: 58.4

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: Hollywood & Wilcox 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
Plate Compactor	1	83	20%	345	10
Concrete Pump	1	81	20%	345	10
Crane	1	81	16%	365	10
Generator	1	81	50%	365	10
Fork Lift	2	75	20%	385	10
Plate Compactor	1	83	20%	385	10
Generator	1	81	50%	405	10

8

Receptor: ***R5***

Results:

1-hour Leq: 56.8

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: Hollywood & Wilcox 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
Crane	1	81	16%	345	10
Concrete Pump	1	81	20%	345	10
Fork Lift	2	75	20%	365	10
Fork Lift	2	75	20%	365	10
Fork Lift	2	75	20%	385	10
Crane	1	81	16%	385	10

9

Receptor: ***R5***

Results:
1-hour Leq: 53.0

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: Hollywood & Wilcox Project

Construction Phase: Paving/Concrete/Landscape

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Cement & Mortar Mixer	1	80	50%	345	10
Paving Equipment	1	75	20%	345	10
Skid Steer Loader	2	79	40%	365	10
Crane	1	81	16%	365	10

Receptor: 5
R5

Results:
1-hour Leq: 54.4

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: Hollywood & Wilcox 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%	335	10
Excavator	1	81	40%	335	10
Front End Loader	1	79	40%	355	10
Bobcat	1	79	40%	355	10
Water Truck	1	82	10%	375	10
Air Compressor	1	78	40%	375	10
Excavator	1	81	40%	395	10

7

Receptor: **R6**

Results:
1-hour Leq: 59.2

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: Hollywood & Wilcox Project

Construction Phase: *Shoring/Excavation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Bore/Drill Rig	1	84	20%	335	10
Plate Compactor	1	83	20%	335	10
Excavator	1	81	40%	355	10
Front End Loader	1	79	40%	355	10
Tieback Drill Rig	2	79	20%	375	10
Air Compressor	1	78	40%	375	10
Concrete Trucks	2	79	40%	395	10
Welders	4	74	40%	395	10
Crane	1	81	16%	415	10
Bore/Drill Rig	1	84	20%	415	10

15

Receptor: ***R6***

Results:

1-hour Leq: 58.7

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: Hollywood & Wilcox 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
Plate Compactor	1	83	20%	335	10
Concrete Pump	1	81	20%	335	10
Crane	1	81	16%	355	10
Generator	1	81	50%	355	10
Fork Lift	2	75	20%	375	10
Plate Compactor	1	83	20%	375	10
Generator	1	81	50%	395	10

8

Receptor: ***R6***

Results:
1-hour Leq: 57.0

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: Hollywood & Wilcox 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
Crane	1	81	16%	335	10
Concrete Pump	1	81	20%	335	10
Fork Lift	2	75	20%	355	10
Fork Lift	2	75	20%	355	10
Fork Lift	2	75	20%	375	10
Crane	1	81	16%	375	10

9

Receptor: ***R6***

Results:
1-hour Leq: 53.2

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: Hollywood & Wilcox Project

Construction Phase: Paving/Concrete/Landscape

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Cement & Mortar Mixer	1	80	50%	335	10
Paving Equipment	1	75	20%	335	10
Skid Steer Loader	2	79	40%	355	10
Crane	1	81	16%	355	10

Receptor: 5
R6

Results:
1-hour Leq: 54.6

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: Hollywood & Wilcox Project

Off-Site Haul Trucks

Phase	Maximum Number of Truck One Way Trips (delivery/haul)		Worker Trips		Estimated Construction Traffic Noise Levels (from TNM), dBA Leq		
	Per Day	Per Hour (8- hr day)	Workers Per Day	Trips during Pk Hr.	Hollywood Blvd.	Highland Ave.	Cahuenga Blvd.
1-Demo	40	5	12	12	58.7	58.7	58.7
2-Grading	106	22	30	30	64.1	64.1	64.1
3-Foundation	262	22	50	50	64.5	64.5	64.5
4-Building	154	20	150	150	65.7	65.7	65.7
5-Finishing	20	3	325	325	66.1	66.1	66.1
Ambient, dBA					70.9	70.9	70.9
Significance Criteria, dBA (ambient + 5)					75.9	75.9	75.9

Phase	Project + Ambient, dBA Leq		
	Hollywood Blvd.	Highland Ave.	Cahuenga Blvd.
1-Demo	71.2	71.2	71.2
2-Grading	71.7	71.7	71.7
3-Foundation	71.8	71.8	71.8
4-Building	72.0	72.0	72.0
5-Finishing	72.1	72.1	72.1

Phase	Noise Increase, dBA Leq		
	Hollywood Blvd.	Highland Ave.	Cahuenga Blvd.
1-Demo	0.3	0.3	0.3
2-Grading	0.8	0.8	0.8
3-Foundation	0.9	0.9	0.9
4-Building	1.1	1.1	1.1
5-Finishing	1.2	1.2	1.2
Maximum Noise Increase			

Cumulative Noise Impacts - with 126 trucks and 30 workers

Cumulative construction traffic (from TNM)	74.2	74.2	74.2
Cumulative construction traffic + ambient	75.9	75.9	75.9
Exceedance over significance criteria	0	0	0

ASSUMPTIONS:

Haul Routes:

Leaving the Site - Westbound on Hollywood Blvd. then northbound on Highland
Coming to the Site - Southbound on Cahuenga Blvd. then westbound on Hollywood

One-way coming and one-way leaving

Therefore, model uses 1/2 of the total one-way trips

Truck Hours:

Phase	hours
1-Demo	8
2-Grading	5
3-Foundation	12
4-Building	8
5-Finishing	8

INPUT: ROADWAYS
Hollywood & Wilcox

Eyestone Environmental											
Sean Bui											

12 February 2020
TNM 2.5
INPUT: ROADWAYS
PROJECT/CONTRACT:
Hollywood & Wilcox
RUN:
Construction Trucks - Demo Phase

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	Speed	Percent	Pvmt	On
							Device	Constraint	Vehicles	Type	Struct?
									Affected		
	ft			ft	ft	ft		mph	%		
Haul Route	12.0	point1	1	0.0	0.0	0.00	Signal	0.00	100	Average	
		point2	2	1,000.0	0.0	0.00					

INPUT: TRAFFIC FOR LAeq1h Volumes

Hollywood & Wilcox

Eyestone Environmental													
Sean Bui													
INPUT: TRAFFIC FOR LAeq1h Volumes													
PROJECT/CONTRACT:	Hollywood & Wilcox												
RUN:	Construction Trucks - Demo Phase												
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	12	35	0	0	3	35	0	0	0	0	
	point2	2											

INPUT: RECEIVERS

Hollywood & Wilcox

Eyestone Environmental												
Sean Bui												
INPUT: RECEIVERS												
PROJECT/CONTRACT:	Hollywood & Wilcox											
RUN:	Construction Trucks - Demo Phase											
Receiver												
Name	No.	#DUs	Coordinates (ground)			Height	Input Sound Levels and Criteria				Active	
			X	Y	Z	above	Existing	Impact Criteria		NR	in	
						Ground	L _{Aeq} 1h	L _{Aeq} 1h	Sub'l	Goal	Calc.	
			ft	ft	ft	ft	dBA	dBA	dB	dB		
Receptors at 25 feet	1	1	500.0	25.0	0.00	4.92	0.00	71	5.0	0.0	Y	

RESULTS: SOUND LEVELS
Hollywood & Wilcox

Eyestone Environmental												
Sean Bui												
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:												
Hollywood & Wilcox												
RUN:												
Construction Trucks - Demo Phase												
BARRIER DESIGN:												
INPUT HEIGHTS												
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.												
ATMOSPHERICS:												
68 deg F, 50% RH												
Receiver												
Name												
No. #DUs Existing LAeq1h No Barrier LAeq1h Increase over existing Type Calculated Noise Reduction												
Calculated Crit'n Sub'l Inc Impact LAeq1h Calculated Goal Calculated minus Goal												
dB dBA dBA dBA dB dB dBA dB dB dB												
Receptors at 25 feet	1	1	0.0	58.7	71	58.7	5	----	58.7	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							

INPUT: ROADWAYS
Hollywood & Wilcox

Eyestone Environmental					12 February 2020						
Sean Bui					TNM 2.5						

INPUT: ROADWAYS
PROJECT/CONTRACT:
Hollywood & Wilcox
RUN:
Construction Trucks - Grading Phase

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	Speed	Percent	Pvmt	On
							Device	Constraint	Vehicles	Type	Struct?
									Affected		
	ft			ft	ft	ft		mph	%		
Haul Route	12.0	point1	1	0.0	0.0	0.00	Signal	0.00	100	Average	
		point2	2	1,000.0	0.0	0.00					

INPUT: TRAFFIC FOR LAeq1h Volumes
Hollywood & Wilcox

Eyestone Environmental													
Sean Bui													
INPUT: TRAFFIC FOR LAeq1h Volumes													
PROJECT/CONTRACT:	Hollywood & Wilcox												
RUN:	Construction Trucks - Grading Phase												
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	30	35	0	0	11	35	0	0	0	0	
	point2	2											

INPUT: RECEIVERS

Hollywood & Wilcox

Eyestone Environmental												
Sean Bui												
INPUT: RECEIVERS												
PROJECT/CONTRACT:	Hollywood & Wilcox											
RUN:	Construction Trucks - Grading Phase											
Receiver												
Name	No.	#DUs	Coordinates (ground)			Height	Input Sound Levels and Criteria				Active	
			X	Y	Z	above	Existing	Impact Criteria		NR	in	
						Ground	L _{Aeq} 1h	L _{Aeq} 1h	Sub'l	Goal	Calc.	
			ft	ft	ft	ft	dBA	dBA	dB	dB		
Receptors at 25 feet	1	1	500.0	25.0	0.00	4.92	0.00	71	5.0	0.0	Y	

RESULTS: SOUND LEVELS
Hollywood & Wilcox

Eyestone Environmental												
Sean Bui												
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:												
Hollywood & Wilcox												
RUN:												
Construction Trucks - Grading Phase												
BARRIER DESIGN:												
INPUT HEIGHTS												
Average pavement type shall be used unless												
a State highway agency substantiates the use												
of a different type with approval of FHWA.												
ATMOSPHERICS:												
68 deg F, 50% RH												
Receiver												
Name												
No. #DUs Existing LAeq1h No Barrier LAeq1h												
Calculated Crit'n Increase over existing												
Calculated Crit'n Type												
Impact Calculated Noise Reduction												
LAeq1h Calculated Goal Calculated												
minus												
Goal												
dBA dBA dBA dB dB												
Receptors at 25 feet												
1 1 0.0 64.1 71 64.1 5 ---- 64.1 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												

INPUT: ROADWAYS
Hollywood & Wilcox

Eyestone Environmental											
Sean Bui											
INPUT: ROADWAYS				12 February 2020				Average pavement type shall be used unless			
PROJECT/CONTRACT:				Hollywood & Wilcox				a State highway agency substantiates the use			
RUN:				Construction Trucks - Foundation Phase				of a different type with the approval of FHWA			
Roadway		Points									
Name	Width	Name	No.	Coordinates (pavement)		Flow Control				Segment	
				X	Y	Z	Control	Speed	Percent	Pvmt	On
							Device	Constraint	Vehicles	Type	Struct?
									Affected		
	ft			ft	ft	ft		mph	%		
Haul Route	12.0	point1	1	0.0	0.0	0.00	Signal	0.00	100	Average	
		point2	2	1,000.0	0.0	0.00					

INPUT: TRAFFIC FOR LAeq1h Volumes
Hollywood & Wilcox

Eyestone Environmental													
Sean Bui													
INPUT: TRAFFIC FOR LAeq1h Volumes													
PROJECT/CONTRACT:	Hollywood & Wilcox												
RUN:	Construction Trucks - Foundation Phase												
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	50	35	0	0	11	35	0	0	0	0	
	point2	2											

INPUT: RECEIVERS
Hollywood & Wilcox

Eyestone Environmental												
Sean Bui												
INPUT: RECEIVERS												
PROJECT/CONTRACT:	Hollywood & Wilcox											
RUN:	Construction Trucks - Foundation Phase											
Receiver												
Name	No.	#DUs	Coordinates (ground)			Height	Input Sound Levels and Criteria				Active	
			X	Y	Z	above	Existing	Impact Criteria		NR	in	
						Ground	L _{Aeq} 1h	L _{Aeq} 1h	Sub'l	Goal	Calc.	
			ft	ft	ft	ft	dBA	dBA	dB	dB		
Receptors at 25 feet	1	1	500.0	25.0	0.00	4.92	0.00	71	5.0	0.0	Y	

RESULTS: SOUND LEVELS
Hollywood & Wilcox

Eyestone Environmental												
Sean Bui												
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:												
Hollywood & Wilcox												
RUN:												
Construction Trucks - Foundation Phase												
BARRIER DESIGN:												
INPUT HEIGHTS												
Average pavement type shall be used unless												
a State highway agency substantiates the use												
of a different type with approval of FHWA.												
ATMOSPHERICS:												
68 deg F, 50% RH												
Receiver												
Name												
No. #DUs Existing LAeq1h No Barrier LAeq1h												
Calculated Crit'n Increase over existing												
Calculated Crit'n Type												
Impact Calculated Noise Reduction												
LAeq1h Calculated Goal Calculated												
minus												
Goal												
dBA dBA dBA dB dB												
Receptors at 25 feet												
1 1 0.0 64.5 71 64.5 5 ---- 64.5 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												

INPUT: ROADWAYS
Hollywood & Wilcox

Eyestone Environmental					12 February 2020						
Sean Bui					TNM 2.5						

INPUT: ROADWAYS
PROJECT/CONTRACT:
Hollywood & Wilcox
RUN:
Construction Trucks - Building Con Phase

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	Speed	Percent	Pvmt	On
							Device	Constraint	Vehicles	Type	Struct?
									Affected		
	ft			ft	ft	ft		mph	%		
Haul Route	12.0	point1	1	0.0	0.0	0.00	Signal	0.00	100	Average	
		point2	2	1,000.0	0.0	0.00					

INPUT: TRAFFIC FOR LAeq1h Volumes
Hollywood & Wilcox

Eyestone Environmental													
Sean Bui													
INPUT: TRAFFIC FOR LAeq1h Volumes													
PROJECT/CONTRACT:	Hollywood & Wilcox												
RUN:	Construction Trucks - Building Con Phase												
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	150	35	0	0	10	35	0	0	0	0	
	point2	2											

INPUT: RECEIVERS

Hollywood & Wilcox

Eyestone Environmental												
Sean Bui												
INPUT: RECEIVERS												
PROJECT/CONTRACT:	Hollywood & Wilcox											
RUN:	Construction Trucks - Building Con Phase											
Receiver												
Name	No.	#DUs	Coordinates (ground)			Height	Input Sound Levels and Criteria				Active	
			X	Y	Z	above	Existing	Impact Criteria		NR	in	
						Ground	L _{Aeq} 1h	L _{Aeq} 1h	Sub'l	Goal	Calc.	
			ft	ft	ft	ft	dBA	dBA	dB	dB		
Receptors at 25 feet	1	1	500.0	25.0	0.00	4.92	0.00	71	5.0	0.0	Y	

RESULTS: SOUND LEVELS
Hollywood & Wilcox

Eyestone Environmental												
Sean Bui												
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:												
Hollywood & Wilcox												
RUN:												
Construction Trucks - Building Con Phase												
BARRIER DESIGN:												
INPUT HEIGHTS												
Average pavement type shall be used unless												
a State highway agency substantiates the use												
of a different type with approval of FHWA.												
ATMOSPHERICS:												
68 deg F, 50% RH												
Receiver												
Name												
No. #DUs Existing LAeq1h No Barrier LAeq1h												
Calculated Crit'n Increase over existing												
Calculated Crit'n Type												
Impact Calculated Noise Reduction												
LAeq1h Calculated Goal Calculated												
minus												
Goal												
dBA dBA dBA dB dB												
Receptors at 25 feet												
1 1 0.0 65.7 71 65.7 5 ---- 65.7 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												

INPUT: ROADWAYS
Hollywood & Wilcox

Eyestone Environmental											
Sean Bui											
INPUT: ROADWAYS				12 February 2020				Average pavement type shall be used unless			
PROJECT/CONTRACT:				Hollywood & Wilcox				a State highway agency substantiates the use			
RUN:				Construction Trucks - Finishing Phase				of a different type with the approval of FHWA			
Roadway		Points									
Name	Width	Name	No.	Coordinates (pavement)		Flow Control				Segment	
				X	Y	Z	Control	Speed	Percent	Pvmt	On
							Device	Constraint	Vehicles	Type	Struct?
									Affected		
	ft			ft	ft	ft		mph	%		
Haul Route	12.0	point1	1	0.0	0.0	0.00	Signal	0.00	100	Average	
		point2	2	1,000.0	0.0	0.00					

INPUT: TRAFFIC FOR LAeq1h Volumes
Hollywood & Wilcox

Eyestone Environmental													
Sean Bui													
INPUT: TRAFFIC FOR LAeq1h Volumes													
PROJECT/CONTRACT:	Hollywood & Wilcox												
RUN:	Construction Trucks - Finishing Phase												
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	325	35	0	0	2	35	0	0	0	0	
	point2	2											

INPUT: RECEIVERS
Hollywood & Wilcox

Eyestone Environmental												
Sean Bui												
INPUT: RECEIVERS												
PROJECT/CONTRACT:	Hollywood & Wilcox											
RUN:	Construction Trucks - Finishing Phase											
Receiver												
Name	No.	#DUs	Coordinates (ground)			Height	Input Sound Levels and Criteria				Active	
			X	Y	Z	above	Existing	Impact Criteria		NR	in	
						Ground	L _{Aeq} 1h	L _{Aeq} 1h	Sub'l	Goal	Calc.	
			ft	ft	ft	ft	dBA	dBA	dB	dB		
Receptors at 25 feet	1	1	500.0	25.0	0.00	4.92	0.00	71	5.0	0.0	Y	

RESULTS: SOUND LEVELS
Hollywood & Wilcox

Eyestone Environmental												
Sean Bui												
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:												
Hollywood & Wilcox												
RUN:												
Construction Trucks - Finishing Phase												
BARRIER DESIGN:												
INPUT HEIGHTS												
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.												
ATMOSPHERICS:												
68 deg F, 50% RH												
Receiver												
Name												
No. #DUs Existing LAeq1h No Barrier LAeq1h Increase over existing Type Calculated Noise Reduction Goal Calculated												
Calculated Crit'n Sub'l Inc Impact LAeq1h Calculated Goal minus												
dB dBA dBA dBA dB dB dBA dB dB dB												
Receptors at 25 feet	1	1	0.0	66.1	71	66.1	5	----	66.1	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							

INPUT: ROADWAYS
Hollywood & Wilcox

Eyestone Environmental					12 February 2020						
Sean Bui					TNM 2.5						

INPUT: ROADWAYS
PROJECT/CONTRACT:
Hollywood & Wilcox
RUN:
Construction Trucks - Cumulative

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	Speed	Percent	Pvmt	On
							Device	Constraint	Vehicles	Type	Struct?
									Affected		
	ft			ft	ft	ft		mph	%		
Haul Route	12.0	point1	1	0.0	0.0	0.00	Signal	0.00	100	Average	
		point2	2	1,000.0	0.0	0.00					

INPUT: TRAFFIC FOR LAeq1h Volumes

Hollywood & Wilcox

Eyestone Environmental													
Sean Bui													
INPUT: TRAFFIC FOR LAeq1h Volumes													
PROJECT/CONTRACT:	Hollywood & Wilcox												
RUN:	Construction Trucks - Cumulative												
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	30	35	0	0	126	35	0	0	0	0	
	point2	2											

INPUT: RECEIVERS

Hollywood & Wilcox

Eyestone Environmental Sean Bui						12 February 2020 TNM 2.5					
INPUT: RECEIVERS											
PROJECT/CONTRACT:		Hollywood & Wilcox									
RUN:		Construction Trucks - Cumulative									
Receiver											
Name	No.	#DUs	Coordinates (ground)			Height	Input Sound Levels and Criteria				Active
			X	Y	Z	above	Existing	Impact Criteria		NR	in
						Ground	L _{Aeq} 1h	L _{Aeq} 1h	Sub'l	Goal	Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
Receptors at 25 feet	1	1	500.0	25.0	0.00	4.92	0.00	71	5.0	0.0	Y

RESULTS: SOUND LEVELS
Hollywood & Wilcox

Eyestone Environmental												
Sean Bui												
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:												
Hollywood & Wilcox												
RUN:												
Construction Trucks - Cumulative												
BARRIER DESIGN:												
INPUT HEIGHTS												
Average pavement type shall be used unless												
a State highway agency substantiates the use												
of a different type with approval of FHWA.												
ATMOSPHERICS:												
68 deg F, 50% RH												
Receiver												
Name												
No. #DUs Existing LAeq1h No Barrier LAeq1h												
Calculated Crit'n Increase over existing												
Calculated Crit'n Type												
Impact Calculated Noise Reduction												
LAeq1h Calculated Goal Calculated												
minus												
Goal												
dBA dBA dBA dB dB												
Receptors at 25 feet												
1 1 0.0 74.2 71 74.2 5 Snd Lvl 74.2 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												
1 0.0 0.0 0.0												
All that meet NR Goal												
1 0.0 0.0 0.0												

Project: Hollywood and Wilcox Project EIR

Construction Vibration Impacts

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

Calculations using FTA procedure with $n=$ 1.5 (for receptors 25 feet or greater)

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

ON-SITE CONSTRUCTION ACTIVITIES

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

Equipment	Reference Vibration Levels at 25 ft., PPV	Estimated Vibration Levels at nearest off-site building structures (distance in feet), PPV						
		Commercial building to the North	Hotel to the South	Commercial building to the west	Commercial building to the east	Onsite Building		
		95	7	60	5	5		
Large Bulldozer	0.089	0.012	0.361	0.024	0.523	0.523		
Caisson Drilling	0.089	0.012	0.361	0.024	0.523	0.523		
Loaded Trucks	0.076	0.010	0.308	0.020	0.446	0.446		
Jackhammer	0.035	0.005	0.142	0.009	0.206	0.206		
Small bulldozer	0.003	0.000	0.012	0.001	0.018	0.018		
Significance Threshold, PPV		0.3	0.3	0.2	0.2	0.12		

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

Equipment	Reference Vibration Levels at 25 ft., VdB	Estimated Vibration Levels at Off-Site Receptors (at note distance in feet), VdB						
		R1	R2	R3	R4	R5	R6	
		7	305	260	415	345	335	
Large Bulldozer	87	99	54	56	50	53	53	
Caisson Drilling	87	99	54	56	50	53	53	
Loaded Trucks	86	98	53	55	49	52	52	
Jackhammer	79	91	46	48	42	45	45	
Small bulldozer	58	70	25	27	21	24	24	
Significance Threshold, VdB		72	72	72	72	72	72	

OFF-SITE CONSTRUCTION HAUL TRUCKS

Table 3: Off-Site Haul Trucks - Building Damage

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

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

Table 4: Off-Site Haul Trucks - Human Annoyance

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

Ref. Levels based on FTA Figure 7-3

Operation Noise Calculations

Project Composite Noise Calculations (CNEL)

Project: Hollywood & Wilcox

[illegible]

^a - traffic noise levels at each receptor is based on the traffic noise analysis for the roadway segment in front of the receptor.

[illegible]

Outdoor Mechanical Equipment Noise Calculations

Project: Hollywood & Wilcox

Hours of Operations

Estimated Noise Levels, Leq from SOUNDPLAN			Ld (7am to 7pm)	Le (7pm to 10pm)	Ln (10pm to 7am)
Receptor	Leq	CNEL	12	3	9
R1	34.1	40.8	34.1	34.1	34.1
R2	32.8	39.5	32.8	32.8	32.8
R3	28.7	35.4	28.7	28.7	28.7
R4	27.7	34.4	27.7	27.7	27.7
R5	33.9	40.6	33.9	33.9	33.9
R6	33.0	39.7	33.0	33.0	33.0

Receptor	Ambient CNEL	Ambient + Project (CNEL)	Increase (CNEL)	ambient (Leq)	Ambient + Project (Leq)
R1	60.0	60.1	0.1	55.0	55.0
R2	69.0	69.0	0.0	63.4	63.4
R3	63.3	63.3	0.0	57.6	57.6
R4	75.1	75.1	0.0	70.3	70.3
R5	67.0	67.0	0.0	61.8	61.8
R6	65.2	65.2	0.0	59.5	59.5

Parking Structure Noise Calculations

Project: Hollywood & Wilcox

Hours of Operations

Estimated Noise Levels, Leq from SOUNDPLAN			Ld (7am to 7pm)	Le (7pm to 10pm)	Ln (10pm to 7am)
Receptor	Leq	CNEL			
R1	19.5	26.2	19.5	19.5	19.5
R2	11.5	18.2	11.5	11.5	11.5
R3	34.9	41.6	34.9	34.9	34.9
R4	8.1	14.8	8.1	8.1	8.1
R5	8.5	15.2	8.5	8.5	8.5
R6	8.3	15.0	8.3	8.3	8.3

Receptor	Ambient CNEL	Ambient + Project (CNEL)	Increase (CNEL)	nighttime ambient (Leq)	Ambient + Project (Leq)	Increase (Leq)
R1	60.0	60.0	0.0	55.0	55.0	0.0
R2	69.0	69.0	0.0	63.4	63.4	0.0
R3	63.3	63.3	0.0	57.6	57.6	0.0
R4	75.1	75.1	0.0	70.3	70.3	0.0
R5	67.0	67.0	0.0	61.8	61.8	0.0
R6	65.2	65.2	0.0	59.5	59.5	0.0

Outdoor Noise Calculations

Project: Hollywood & Wilcox

ALL LEVEL

Hours of Operations

Estimated noise levels, Leq (FROM SOUNDPLAN)					Ld (7am to 7pm)	Le (7pm to 10pm)	Ln (10pm to 7am)
Receptor	Sound System	Occupants	Total, Leq	CNEL	9	3	0
R1	52.2	34.5	52.3	51.2	51.1	52.3	0.0
R2	48.6	30.0	48.7	47.6	47.5	48.7	0.0
R3	55.7	42.3	55.9	54.8	54.7	55.9	0.0
R4	59.6	41.5	59.7	58.6	58.5	59.7	0.0
R5	60.9	42.8	61.0	59.9	59.8	61.0	0.0
R6	58.0	42.3	58.1	57.0	56.9	58.1	0.0

TOTAL COMBINED

Receptor	Project (CNEL)	Ambient (CNEL)	Ambient + Project (CNEL)	Increase (CNEL)	Project Noise, (Leq)	Ambient (Leq)	Ambient + Project (Leq)
R1	51.2	60.0	60.5	0.5	52.3	55.0	56.9
R2	47.6	69.0	69.0	0.0	48.7	63.4	63.5
R3	54.8	63.3	63.9	0.6	55.9	57.6	59.8
R4	58.6	75.1	75.2	0.1	59.7	70.3	70.7
R5	59.9	67.0	67.8	0.8	61.0	61.8	64.4
R6	57.0	65.2	65.8	0.6	58.1	59.5	61.9

Loading and Trash Compactor Noise Calculations

Project: Hollywood & Wilcox

LOADING

Estimated Noise Levels, Leq from SOUNDPLAN			Ld (7am to 7pm)	Le (7pm to 10pm)	Ln (10pm to 7am)
Receptor	Leq	CNEL	3	3	0
R1	38.9	36.1	32.9	38.9	0.0
R2	30.4	27.6	24.4	30.4	0.0
R3	48.4	45.6	42.4	48.4	0.0
R4	25.5	22.7	19.5	25.5	0.0
R5	26.8	24.0	20.8	26.8	0.0
R6	27.8	25.0	21.8	27.8	0.0

TRASH COMPACTOR

Estimated Noise Levels, Leq from SOUNDPLAN			Ld (7am to 7pm)	Le (7pm to 10pm)	Ln (10pm to 7am)
Receptor	Leq	CNEL	3	3	0
R1	36.0	33.2	30.0	36.0	0.0
R2	29.4	26.6	23.4	29.4	0.0
R3	45.6	42.8	39.6	45.6	0.0
R4	20.7	18.1	14.7	20.7	0.0
R5	21.5	18.9	15.5	21.5	0.0
R6	26.9	24.1	20.9	26.9	0.0

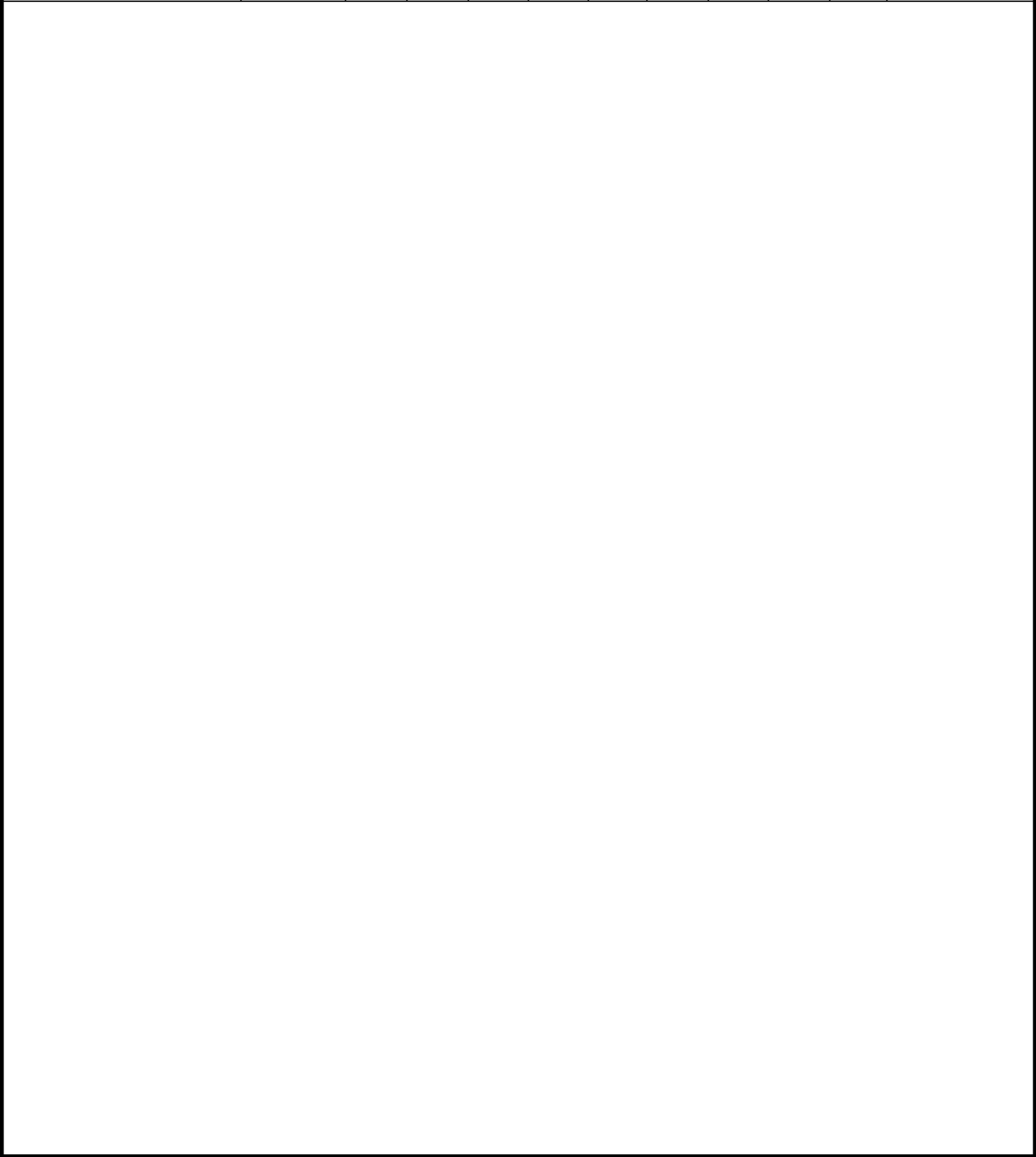
TOTAL COMBINED

Receptor	Project CNEL	Ambient CNEL	Ambient + Project (CNEL)	Increase (CNEL)	Project Noise, (Leq)	daytime ambient (Leq)	Ambient + Project (Leq)
R1	37.9	60.0	60.0	0.0	40.7	56.5	56.6
R2	30.1	69.0	69.0	0.0	32.9	66.8	66.8
R3	47.4	63.3	63.4	0.1	50.2	61.4	61.7
R4	24.0	75.1	75.1	0.0	26.7	70.9	70.9
R5	25.2	67.0	67.0	0.0	27.9	64.0	64.0
R6	27.6	65.2	65.2	0.0	30.4	63.3	63.3

Hollywood & Wilcox

Octave spectra of the sources in dB(A) - Mechanical

Name	Source type	Lw	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	
		dB(A)	dB	dB	dB	dB	dB	dB	dB	dB	
Rooftop Mechanical 1	Point	90.0	83.7	91.2	92.7	86.7	81.7	81.7	79.2	77.7	
Rooftop Mechanical 2	Point	90.0	83.7	91.2	92.7	86.7	81.7	81.7	79.2	77.7	
Rooftop Mechanical 3	Point	90.0	83.7	91.2	92.7	86.7	81.7	81.7	79.2	77.7	
Rooftop Mechanical 4	Point	90.0	83.7	91.2	92.7	86.7	81.7	81.7	79.2	77.7	
Rooftop Mechanical 5	Point	90.0	83.7	91.2	92.7	86.7	81.7	81.7	79.2	77.7	
Rooftop Mechanical 6	Point	90.0	83.7	91.2	92.7	86.7	81.7	81.7	79.2	77.7	
Rooftop Mechanical 7	Point	90.0	83.7	91.2	92.7	86.7	81.7	81.7	79.2	77.7	
Rooftop Mechanical 8	Point	90.0	83.7	91.2	92.7	86.7	81.7	81.7	79.2	77.7	



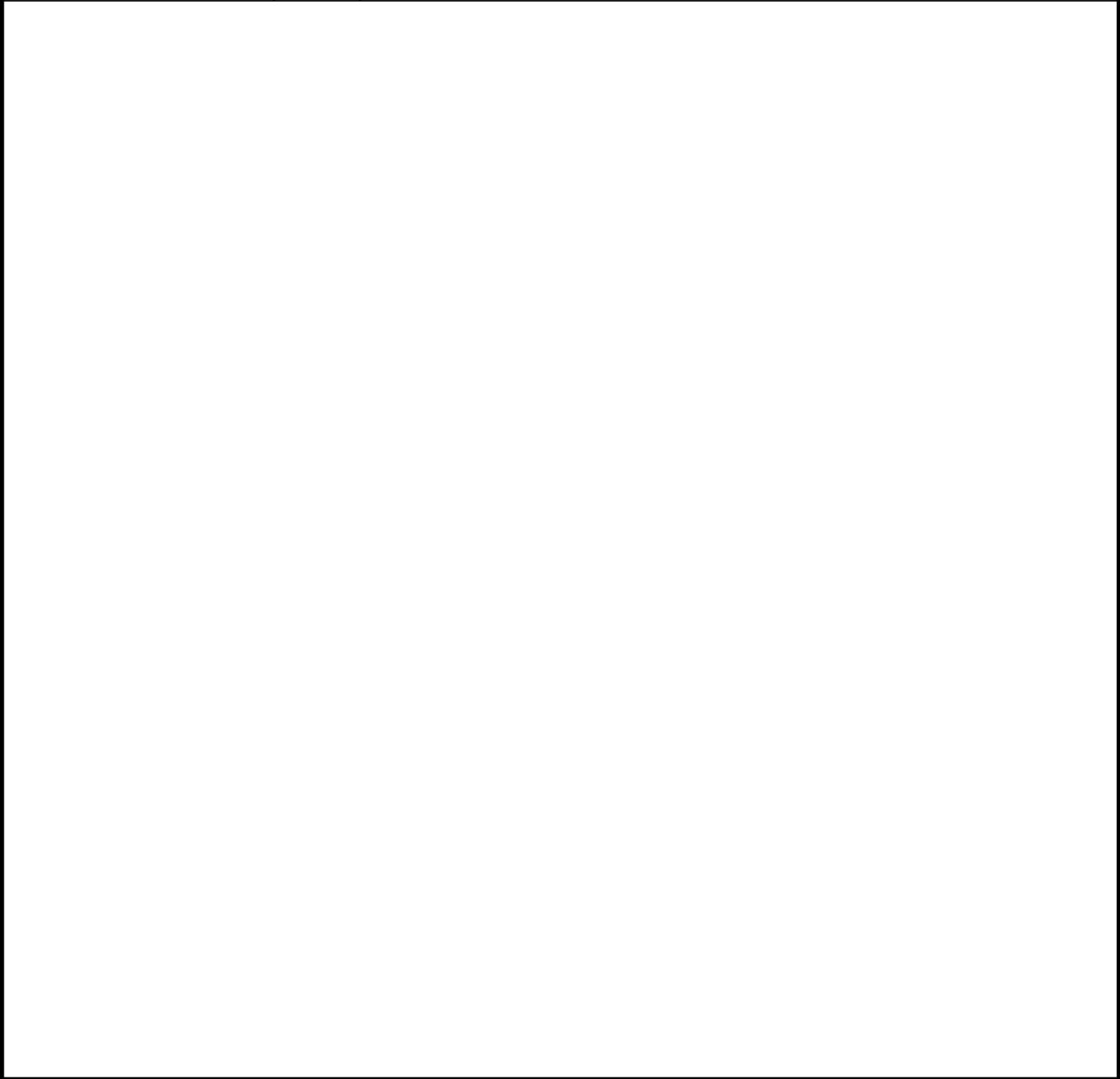
Hollywood & Wilcox

Assessed contribution level - Mechanical

Source	Ld dB(A)	
Receiver R1 Ld 34.1 dB(A)		
Rooftop Mechanical 1	26.7	
Rooftop Mechanical 2	26.7	
Rooftop Mechanical 3	25.3	
Rooftop Mechanical 4	27.5	
Rooftop Mechanical 5	24.8	
Rooftop Mechanical 6	21.8	
Rooftop Mechanical 7	21.1	
Rooftop Mechanical 8	21.8	
Receiver R2 Ld 32.8 dB(A)		
Rooftop Mechanical 1	22.1	
Rooftop Mechanical 2	25.0	
Rooftop Mechanical 3	16.1	
Rooftop Mechanical 4	25.1	
Rooftop Mechanical 5	22.4	
Rooftop Mechanical 6	25.5	
Rooftop Mechanical 7	22.5	
Rooftop Mechanical 8	25.4	
Receiver R3 Ld 28.7 dB(A)		
Rooftop Mechanical 1	17.7	
Rooftop Mechanical 2	12.2	
Rooftop Mechanical 3	18.5	
Rooftop Mechanical 4	11.8	
Rooftop Mechanical 5	20.2	
Rooftop Mechanical 6	22.2	
Rooftop Mechanical 7	21.6	
Rooftop Mechanical 8	22.4	
Receiver R3b Ld 28.6 dB(A)		
Rooftop Mechanical 1	13.6	
Rooftop Mechanical 2	13.2	
Rooftop Mechanical 3	18.5	
Rooftop Mechanical 4	13.4	
Rooftop Mechanical 5	20.2	
Rooftop Mechanical 6	22.2	
Rooftop Mechanical 7	21.6	
Rooftop Mechanical 8	22.4	
Receiver R4 Ld 27.7 dB(A)		
Rooftop Mechanical 1	19.3	
Rooftop Mechanical 2	17.8	
Rooftop Mechanical 3	19.3	
Rooftop Mechanical 4	17.9	
Rooftop Mechanical 5	19.5	
Rooftop Mechanical 6	19.0	
Rooftop Mechanical 7	20.5	
Rooftop Mechanical 8	12.5	
Receiver R5 Ld 33.9 dB(A)		
Rooftop Mechanical 1	26.8	
Rooftop Mechanical 2	23.6	
Rooftop Mechanical 3	27.0	
Rooftop Mechanical 4	23.6	
Rooftop Mechanical 5	27.1	
Rooftop Mechanical 6	23.8	
Rooftop Mechanical 7	21.6	
Rooftop Mechanical 8	20.2	
Receiver R6 Ld 32.9 dB(A)		
Rooftop Mechanical 1	27.6	

Hollywood & Wilcox
Assessed contribution level - Mechanical

Source	Ld dB(A)	
Rooftop Mechanical 2	27.7	
Rooftop Mechanical 3	23.6	
Rooftop Mechanical 4	24.9	
Rooftop Mechanical 5	20.7	
Rooftop Mechanical 6	12.5	
Rooftop Mechanical 7	19.7	
Rooftop Mechanical 8	13.6	
Receiver R6b Ld 33.0 dB(A)		
Rooftop Mechanical 1	28.0	
Rooftop Mechanical 2	27.9	
Rooftop Mechanical 3	23.7	
Rooftop Mechanical 4	24.3	
Rooftop Mechanical 5	20.7	
Rooftop Mechanical 6	13.6	
Rooftop Mechanical 7	19.8	
Rooftop Mechanical 8	14.6	



<p>Hollywood & Wilcox</p> <p>Input data parking lots - Parking</p>	14
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<p>Hollywood & Wilcox</p> <p>Input data parking lots - Parking</p>	14
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Parking lot	f	Unit B0	Reference value B	KI	KD	KStrO	Time hist. ID	
				dB	dB			
Level 1 Parking	1.0	1 parking bay	126	4.0	5.2	0.5	1	

	AES 22801 Crespi St Woodland Hills, CA 91364 USA	1
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<p align="center">Hollywood & Wilcox</p> <p align="center">Assessed contribution level - Parking</p>	<p>9</p>
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<p align="center">Hollywood & Wilcox</p> <p align="center">Assessed contribution level - Parking</p>	<p>9</p>
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Source	Ld dB(A)	
Receiver R1 Ld 19.5 dB(A)		
Level 1 Parking	19.5	
Receiver R2 Ld 11.5 dB(A)		
Level 1 Parking	11.5	
Receiver R3 Ld 33.9 dB(A)		
Level 1 Parking	33.9	
Receiver R3b Ld 34.9 dB(A)		
Level 1 Parking	34.9	
Receiver R4 Ld 8.1 dB(A)		
Level 1 Parking	8.1	
Receiver R5 Ld 8.5 dB(A)		
Level 1 Parking	8.5	
Receiver R6 Ld 8.3 dB(A)		
Level 1 Parking	8.3	
Receiver R6b Ld 6.2 dB(A)		
Level 1 Parking	6.2	

	AES 22801 Crespi St Woodland Hills, CA 91364 USA	1
--	--	---

Name	Source type	Lw dB(A)	63Hz dB	125Hz dB	250Hz dB	500Hz dB	1kHz dB	2kHz dB	4kHz dB	8kHz dB	
Loading	Point	101.9	68.9	78.9	85.9	91.9	94.9	95.9	95.9	93.9	

Source	Ld dB(A)	
Receiver R1	Ld 38.9 dB(A)	
Loading	38.9	
Receiver R2	Ld 30.4 dB(A)	
Loading	30.4	
Receiver R3	Ld 48.3 dB(A)	
Loading	48.3	
Receiver R3b	Ld 48.4 dB(A)	
Loading	48.4	
Receiver R4	Ld 25.5 dB(A)	
Loading	25.5	
Receiver R5	Ld 26.8 dB(A)	
Loading	26.8	
Receiver R6	Ld 27.8 dB(A)	
Loading	27.8	
Receiver R6b	Ld 27.6 dB(A)	
Loading	27.6	

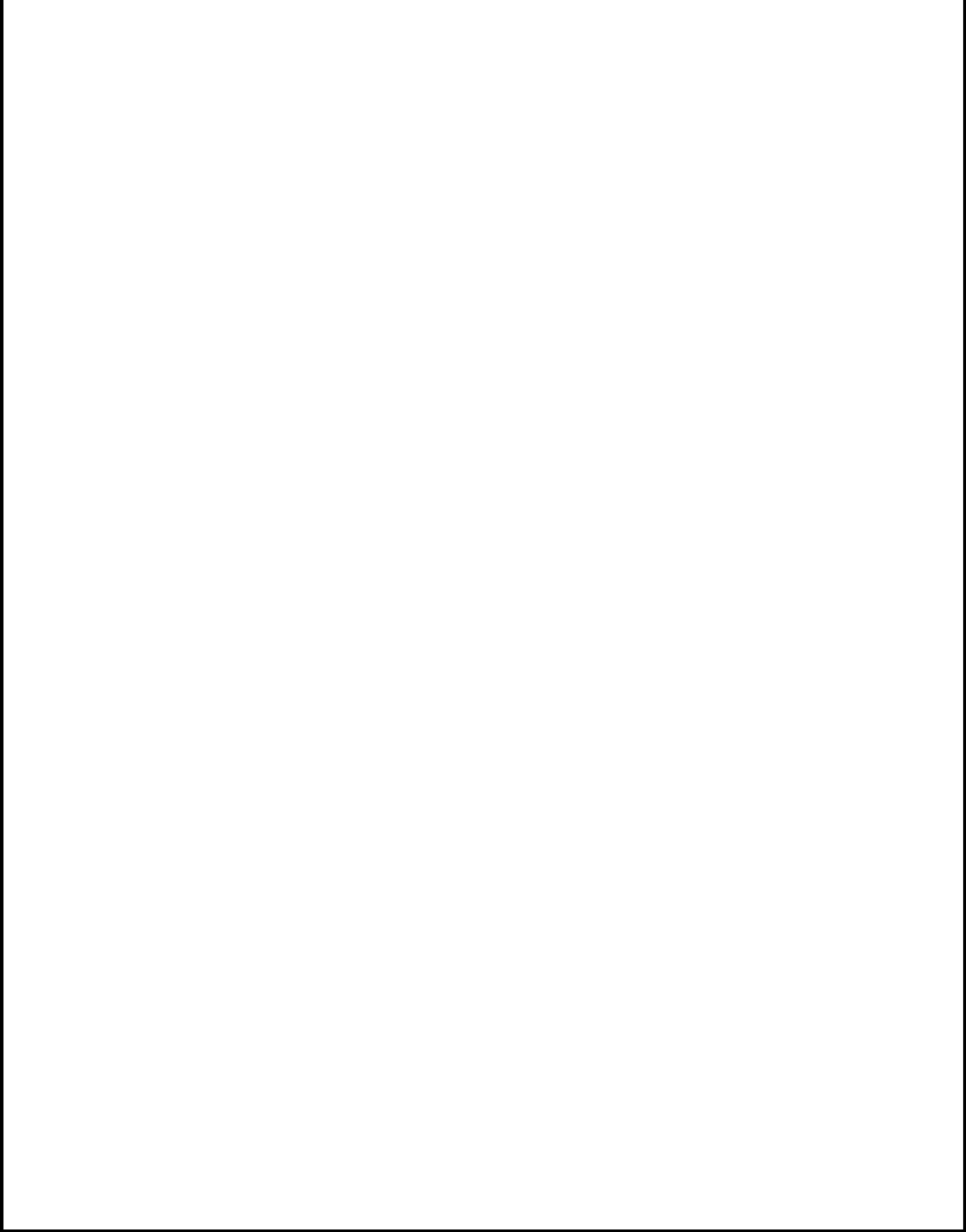
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Hollywood & Wilcox

Octave spectra of the sources - Trash

3

Name	Source type	Lw	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	
		dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	
Trash Compactor	Point	97.7	68.9	83.0	90.5	89.9	92.1	91.3	87.1	80.0	



Hollywood & Wilcox
Assessed contribution level - Trash

9

Source	Ld dB(A)	
Receiver R1 Ld 36.0 dB(A)		
Trash Compactor	36.0	
Receiver R2 Ld 29.4 dB(A)		
Trash Compactor	29.4	
Receiver R3 Ld 30.6 dB(A)		
Trash Compactor	30.6	
Receiver R3b Ld 45.6 dB(A)		
Trash Compactor	45.6	
Receiver R4 Ld 20.7 dB(A)		
Trash Compactor	20.7	
Receiver R5 Ld 21.5 dB(A)		
Trash Compactor	21.5	
Receiver R6 Ld 24.8 dB(A)		
Trash Compactor	24.8	
Receiver R6b Ld 26.9 dB(A)		
Trash Compactor	26.9	

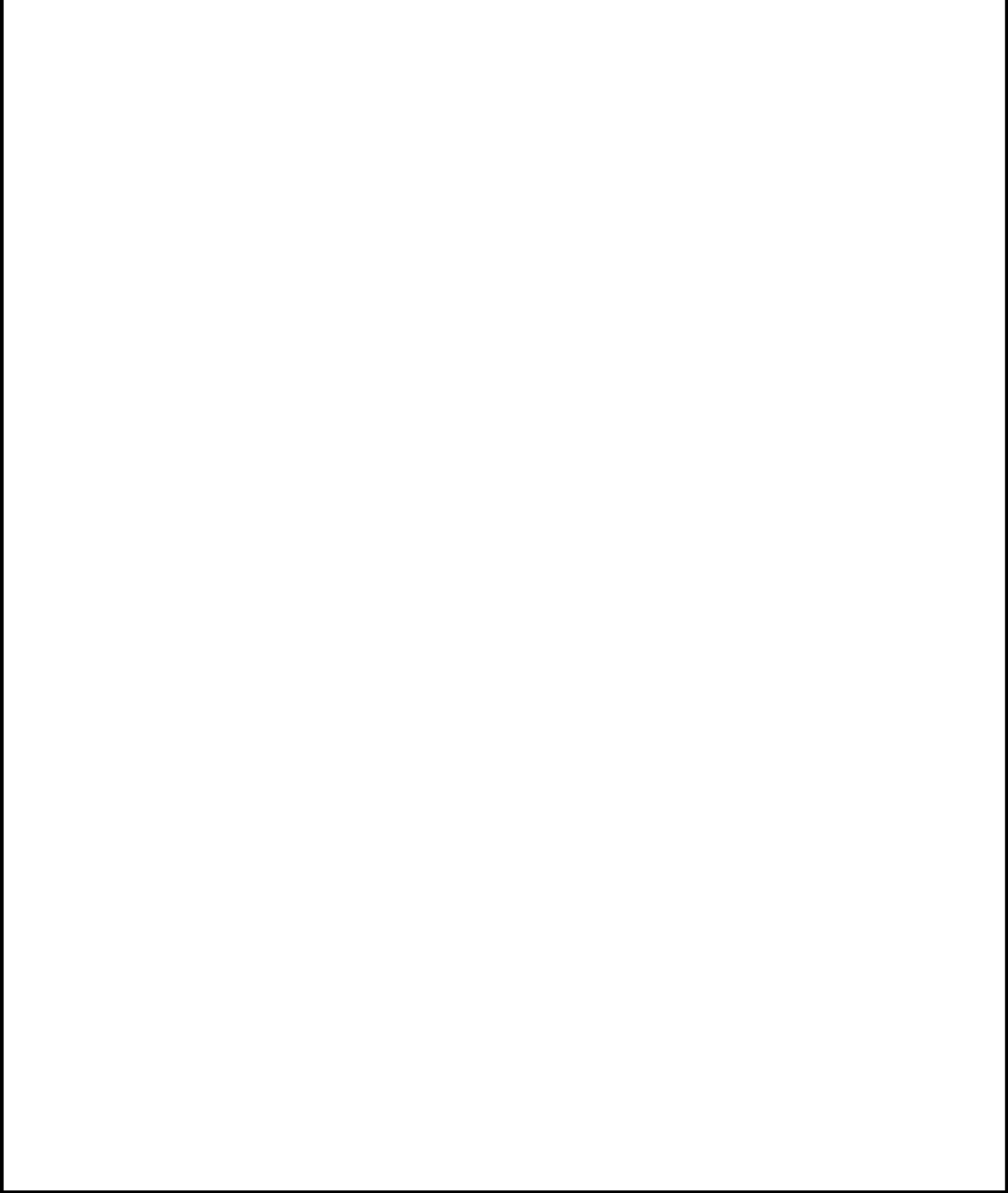
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Hollywood & Wilcox

3

Octave spectra of the sources - People

Name	Source type	I or A m,m²	Lw dB(A)	500Hz dB	
Level 1 North Courtyard	Area	55.62	85.9	89.1	
Level 1 South Courtyard	Area	34.25	84.4	87.6	
Level 4 Inner Courtyard - People	Area	428.41	93.7	96.9	
Level 4 Pool Deck - People	Area	526.72	94.5	97.7	
Level 12 Sky Deck - People	Area	885.28	97.5	100.7	



Hollywood & Wilcox
Assessed contribution level - People

9

Source	Ld dB(A)	
Receiver R1 Ld 34.5 dB(A)		
Level 1 North Courtyard	14.8	
Level 1 South Courtyard	23.1	
Level 4 Pool Deck - People	22.7	
Level 4 Inner Courtyard - People	32.2	
Level 12 Sky Deck - People	28.8	
Receiver R2 Ld 30.0 dB(A)		
Level 1 North Courtyard	23.6	
Level 1 South Courtyard	25.4	
Level 4 Pool Deck - People	16.6	
Level 4 Inner Courtyard - People	21.0	
Level 12 Sky Deck - People	23.9	
Receiver R3 Ld 40.8 dB(A)		
Level 1 North Courtyard	31.1	
Level 1 South Courtyard	24.0	
Level 4 Pool Deck - People	37.8	
Level 4 Inner Courtyard - People	17.4	
Level 12 Sky Deck - People	36.4	
Receiver R3b Ld 42.3 dB(A)		
Level 1 North Courtyard	35.8	
Level 1 South Courtyard	34.8	
Level 4 Pool Deck - People	38.6	
Level 4 Inner Courtyard - People	19.1	
Level 12 Sky Deck - People	34.3	
Receiver R4 Ld 41.5 dB(A)		
Level 1 North Courtyard	23.3	
Level 1 South Courtyard	17.7	
Level 4 Pool Deck - People	39.1	
Level 4 Inner Courtyard - People	18.7	
Level 12 Sky Deck - People	37.4	
Receiver R5 Ld 42.8 dB(A)		
Level 1 North Courtyard	21.4	
Level 1 South Courtyard	18.6	
Level 4 Pool Deck - People	40.5	
Level 4 Inner Courtyard - People	20.8	
Level 12 Sky Deck - People	38.6	
Receiver R6 Ld 41.4 dB(A)		
Level 1 North Courtyard	7.2	
Level 1 South Courtyard	6.1	
Level 4 Pool Deck - People	34.8	
Level 4 Inner Courtyard - People	38.4	
Level 12 Sky Deck - People	35.6	
Receiver R6b Ld 42.3 dB(A)		
Level 1 North Courtyard	8.1	
Level 1 South Courtyard	7.4	
Level 4 Pool Deck - People	34.0	
Level 4 Inner Courtyard - People	40.0	
Level 12 Sky Deck - People	36.7	

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Hollywood & Wilcox

Octave spectra of the sources - Speakers

3

Name	Source type	Lw	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	
		dB(A)	dB	dB	dB	dB	dB	dB	dB	
Level 1 North Courtyard Speaker	Point	103.6	87.2	90.7	93.7	95.7	96.7	96.7	98.7	
Level 1 South Courtyard Speaker	Point	103.6	87.2	90.7	93.7	95.7	96.7	96.7	98.7	
Level 12 Sky Deck Speaker 1	Point	123.6	107.2	110.7	113.7	115.7	116.7	116.7	118.7	
Level 12 Sky Deck Speaker 2	Point	123.6	107.2	110.7	113.7	115.7	116.7	116.7	118.7	
Level 12 Sky Deck Speaker 3	Point	123.6	107.2	110.7	113.7	115.7	116.7	116.7	118.7	
Level 12 Sky Deck Speaker 4	Point	123.6	107.2	110.7	113.7	115.7	116.7	116.7	118.7	
Level 12 Sky Deck Speaker 5	Point	123.6	107.2	110.7	113.7	115.7	116.7	116.7	118.7	
Level 12 Sky Deck Speaker 6	Point	123.6	107.2	110.7	113.7	115.7	116.7	116.7	118.7	
Level 4 Inner Courtyard Speaker 1	Point	113.6	97.2	100.7	103.7	105.7	106.7	106.7	108.7	
Level 4 Inner Courtyard Speaker 2	Point	113.6	97.2	100.7	103.7	105.7	106.7	106.7	108.7	
Level 4 Inner Courtyard Speaker 3	Point	113.6	97.2	100.7	103.7	105.7	106.7	106.7	108.7	
Level 4 Inner Courtyard Speaker 4	Point	113.6	97.2	100.7	103.7	105.7	106.7	106.7	108.7	
Level 4 Pool Deck Speaker 1	Point	113.6	97.2	100.7	103.7	105.7	106.7	106.7	108.7	
Level 4 Pool Deck Speaker 2	Point	113.6	97.2	100.7	103.7	105.7	106.7	106.7	108.7	
Level 4 Pool Deck Speaker 3	Point	113.6	97.2	100.7	103.7	105.7	106.7	106.7	108.7	
Level 4 Pool Deck Speaker 4	Point	113.6	97.2	100.7	103.7	105.7	106.7	106.7	108.7	



Hollywood & Wilcox
Assessed contribution level - Speakers

9

Source	Ld dB(A)	
Receiver R1 Ld 52.2 dB(A)		
Level 1 North Courtyard Speaker	23.7	
Level 1 South Courtyard Speaker	28.1	
Level 12 Sky Deck Speaker 1	35.9	
Level 12 Sky Deck Speaker 2	39.4	
Level 12 Sky Deck Speaker 3	30.0	
Level 12 Sky Deck Speaker 4	31.4	
Level 12 Sky Deck Speaker 5	47.1	
Level 12 Sky Deck Speaker 6	43.8	
Level 4 Inner Courtyard Speaker 1	46.0	
Level 4 Inner Courtyard Speaker 2	41.8	
Level 4 Inner Courtyard Speaker 3	40.3	
Level 4 Inner Courtyard Speaker 4	37.8	
Level 4 Pool Deck Speaker 1	34.0	
Level 4 Pool Deck Speaker 2	26.6	
Level 4 Pool Deck Speaker 3	20.6	
Level 4 Pool Deck Speaker 4	20.6	
Receiver R2 Ld 48.6 dB(A)		
Level 1 North Courtyard Speaker	25.4	
Level 1 South Courtyard Speaker	32.0	
Level 12 Sky Deck Speaker 1	35.7	
Level 12 Sky Deck Speaker 2	46.4	
Level 12 Sky Deck Speaker 3	27.1	
Level 12 Sky Deck Speaker 4	25.6	
Level 12 Sky Deck Speaker 5	38.0	
Level 12 Sky Deck Speaker 6	40.4	
Level 4 Inner Courtyard Speaker 1	32.3	
Level 4 Inner Courtyard Speaker 2	28.2	
Level 4 Inner Courtyard Speaker 3	24.6	
Level 4 Inner Courtyard Speaker 4	17.4	
Level 4 Pool Deck Speaker 1	33.9	
Level 4 Pool Deck Speaker 2	22.0	
Level 4 Pool Deck Speaker 3	18.9	
Level 4 Pool Deck Speaker 4	15.5	
Receiver R3 Ld 55.7 dB(A)		
Level 1 North Courtyard Speaker	34.5	
Level 1 South Courtyard Speaker	25.1	
Level 12 Sky Deck Speaker 1	46.3	
Level 12 Sky Deck Speaker 2	49.9	
Level 12 Sky Deck Speaker 3	29.1	
Level 12 Sky Deck Speaker 4	27.8	
Level 12 Sky Deck Speaker 5	41.2	
Level 12 Sky Deck Speaker 6	46.1	
Level 4 Inner Courtyard Speaker 1	20.0	
Level 4 Inner Courtyard Speaker 2	15.6	
Level 4 Inner Courtyard Speaker 3	31.4	
Level 4 Inner Courtyard Speaker 4	15.4	
Level 4 Pool Deck Speaker 1	42.7	
Level 4 Pool Deck Speaker 2	38.8	
Level 4 Pool Deck Speaker 3	51.5	
Level 4 Pool Deck Speaker 4	25.5	
Receiver R3b Ld 55.5 dB(A)		
Level 1 North Courtyard Speaker	43.8	
Level 1 South Courtyard Speaker	41.4	
Level 12 Sky Deck Speaker 1	40.6	
Level 12 Sky Deck Speaker 2	50.5	
Level 12 Sky Deck Speaker 3	29.6	

Hollywood & Wilcox
Assessed contribution level - Speakers

9

Source	Ld dB(A)	
Level 12 Sky Deck Speaker 4	27.9	
Level 12 Sky Deck Speaker 5	33.3	
Level 12 Sky Deck Speaker 6	43.2	
Level 4 Inner Courtyard Speaker 1	22.5	
Level 4 Inner Courtyard Speaker 2	18.6	
Level 4 Inner Courtyard Speaker 3	32.2	
Level 4 Inner Courtyard Speaker 4	16.4	
Level 4 Pool Deck Speaker 1	46.5	
Level 4 Pool Deck Speaker 2	39.6	
Level 4 Pool Deck Speaker 3	50.4	
Level 4 Pool Deck Speaker 4	25.0	
Receiver R4 Ld 59.6 dB(A)		
Level 1 North Courtyard Speaker	21.8	
Level 1 South Courtyard Speaker	20.8	
Level 12 Sky Deck Speaker 1	56.4	
Level 12 Sky Deck Speaker 2	47.5	
Level 12 Sky Deck Speaker 3	50.6	
Level 12 Sky Deck Speaker 4	43.1	
Level 12 Sky Deck Speaker 5	46.7	
Level 12 Sky Deck Speaker 6	49.4	
Level 4 Inner Courtyard Speaker 1	21.6	
Level 4 Inner Courtyard Speaker 2	23.1	
Level 4 Inner Courtyard Speaker 3	29.1	
Level 4 Inner Courtyard Speaker 4	13.2	
Level 4 Pool Deck Speaker 1	40.8	
Level 4 Pool Deck Speaker 2	38.2	
Level 4 Pool Deck Speaker 3	50.6	
Level 4 Pool Deck Speaker 4	43.5	
Receiver R5 Ld 60.9 dB(A)		
Level 1 North Courtyard Speaker	31.8	
Level 1 South Courtyard Speaker	21.9	
Level 12 Sky Deck Speaker 1	55.4	
Level 12 Sky Deck Speaker 2	46.0	
Level 12 Sky Deck Speaker 3	53.8	
Level 12 Sky Deck Speaker 4	52.4	
Level 12 Sky Deck Speaker 5	48.1	
Level 12 Sky Deck Speaker 6	50.7	
Level 4 Inner Courtyard Speaker 1	32.1	
Level 4 Inner Courtyard Speaker 2	31.0	
Level 4 Inner Courtyard Speaker 3	21.7	
Level 4 Inner Courtyard Speaker 4	16.6	
Level 4 Pool Deck Speaker 1	48.4	
Level 4 Pool Deck Speaker 2	42.9	
Level 4 Pool Deck Speaker 3	44.0	
Level 4 Pool Deck Speaker 4	50.9	
Receiver R6 Ld 57.1 dB(A)		
Level 1 North Courtyard Speaker	8.6	
Level 1 South Courtyard Speaker	7.5	
Level 12 Sky Deck Speaker 1	48.2	
Level 12 Sky Deck Speaker 2	46.6	
Level 12 Sky Deck Speaker 3	27.2	
Level 12 Sky Deck Speaker 4	49.3	
Level 12 Sky Deck Speaker 5	45.2	
Level 12 Sky Deck Speaker 6	40.3	
Level 4 Inner Courtyard Speaker 1	41.5	
Level 4 Inner Courtyard Speaker 2	37.5	
Level 4 Inner Courtyard Speaker 3	43.3	

Hollywood & Wilcox
Assessed contribution level - Speakers

9

Source	Ld dB(A)	
Level 4 Inner Courtyard Speaker 4	50.4	
Level 4 Pool Deck Speaker 1	44.8	
Level 4 Pool Deck Speaker 2	49.3	
Level 4 Pool Deck Speaker 3	36.4	
Level 4 Pool Deck Speaker 4	17.1	
Receiver R6b Ld 58.0 dB(A)		
Level 1 North Courtyard Speaker	10.8	
Level 1 South Courtyard Speaker	8.2	
Level 12 Sky Deck Speaker 1	49.0	
Level 12 Sky Deck Speaker 2	47.2	
Level 12 Sky Deck Speaker 3	26.4	
Level 12 Sky Deck Speaker 4	51.9	
Level 12 Sky Deck Speaker 5	46.8	
Level 12 Sky Deck Speaker 6	40.9	
Level 4 Inner Courtyard Speaker 1	44.7	
Level 4 Inner Courtyard Speaker 2	36.3	
Level 4 Inner Courtyard Speaker 3	41.7	
Level 4 Inner Courtyard Speaker 4	52.5	
Level 4 Pool Deck Speaker 1	46.7	
Level 4 Pool Deck Speaker 2	37.4	
Level 4 Pool Deck Speaker 3	35.8	
Level 4 Pool Deck Speaker 4	16.9	

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Off-Site Traffic Noise Calculations

Project: Hollywood & Wilcox

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

PHV to
ADT factor
10%

EXISTING CONDITIONS

Roadway Segment	Roadway Width*, ft	Distance to Edge of Roadway, ft	Distance to Centerline, feet	Speed mph	Traffic Volume PHV	Traffic Volume ADT	PHV to ADT factor	Barrier Atten.	Site Adjust., dBA	24-Hour CNEL
Wilcox Avenue										
- Between Franklin Ave. and Hollywood Blvd.	40	10	30	25	731	7,310	10%	0	0	68.9
- Between Hollywood Blvd. and Sunset Blvd.	40	10	30	25	852	8,520	10%	0	0	69.6
Cahuenga Boulevard										
- Between US-101 and Franklin Ave.	70	10	45	35	3,038	30,380	10%	0	0	73.2
- Between Franklin Ave. and Hollywood Blvd.	60	10	40	35	2,332	23,320	10%	0	0	72.5
- Between Hollywood Blvd. and Sunset Blvd.	50	10	35	35	1,922	19,220	10%	0	0	72.3
Vine Street										
- Between Franklin Ave. and Hollywood Blvd.	70	10	45	30	1,991	19,910	10%	0	0	71.1
- Between Hollywood Blvd. and Sunset Blvd.	70	10	45	30	2,436	24,360	10%	0	0	72.0
Argyle Avenue										
- Between Franklin Ave. and Hollywood Blvd.	50	10	35	25	811	8,110	10%	0	0	68.6
- Between Hollywood Blvd. and Sunset Blvd.	50	10	35	25	731	7,310	10%	0	0	68.2
Franklin Avenue										
- West of Wilcox Ave.	40	10	30	30	1,359	13,590	10%	0	0	71.4
- Between Wilcox Ave. and Vine St.	40	10	30	30	2,100	21,000	10%	0	0	73.3
- East of Argyle Ave.	50	10	35	30	2,425	24,250	10%	0	0	73.2
Yucca Street										
- Between Wilcox Ave. and Cahuenga Blvd.	40	10	30	25	342	3,420	10%	0	0	65.6
- Between Cahuenga Blvd. and Argyle Ave.	50	10	35	25	441	4,410	10%	0	0	66.0
Hollywood Boulevard										
- Between Highland Ave. and Wilcox Ave.	70	10	45	35	1,910	19,100	10%	0	0	71.2
- Between Wilcox Ave. and Cahuenga Blvd.	70	10	45	35	1,971	19,710	10%	0	0	71.3
- Between Cahuenga Blvd. and Vine St.	70	10	45	35	1,790	17,900	10%	0	0	70.9
- Between Vine St. and Argyle Ave.	70	10	45	35	2,031	20,310	10%	0	0	71.4
Selma Avenue										
- West of Wilcox Ave.	40	10	30	25	458	4,580	10%	0	0	66.9

EXISTING CONDITIONS

Roadway Segment	Roadway Width*, ft	Distance to Edge of Roadway, ft	Distance to Centerline, feet	Speed mph	Traffic Volume		PHV to ADT factor	Barrier Atten.	Site Adjust., dBA	24-Hour CNEL
- Between Wilcox Ave. and Cahuenga Blvd.	40	10	30	25	336	3,360	10%	0	0	65.5
- East of Cahuenga Blvd.	40	10	30	25	300	3,000	10%	0	0	65.0
Sunset Boulevard										
- West of Wilcox Ave.	60	10	40	35	2,966	29,660	10%	0	0	73.6
- Between Wilcox Ave. and Cahuenga Blvd.	60	10	40	35	2,978	29,780	10%	0	0	73.6
- East of Cahuenga Blvd.	60	10	40	35	2,784	27,840	10%	0	0	73.3

* Estimated based on Google Earth map.

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

Off-Site Traffic Noise Calculations

Project: Hollywood & Wilcox

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

PHV to
ADT factor
10%

EXISTING + PROJECT CONDITIONS

Roadway Segment	Roadway Width*, ft	Distance to Edge of Roadway, ft	Distance to Centerline, feet	Speed mph	Traffic Volume PHV	Traffic Volume ADT	PHV to ADT factor	Barrier Atten.	Site Adjust., dBA	24-Hour CNEL
Wilcox Avenue										
- Between Franklin Ave. and Hollywood Blvd.	40	10	30	25	777	7,770	10%	0	0	69.2
- Between Hollywood Blvd. and Sunset Blvd.	40	10	30	25	922	9,220	10%	0	0	69.9
Cahuenga Boulevard										
- Between US-101 and Franklin Ave.	70	10	45	35	3,070	30,700	10%	0	0	73.2
- Between Franklin Ave. and Hollywood Blvd.	60	10	40	35	2,339	23,390	10%	0	0	72.5
- Between Hollywood Blvd. and Sunset Blvd.	50	10	35	35	1,925	19,250	10%	0	0	72.3
Vine Street										
- Between Franklin Ave. and Hollywood Blvd.	70	10	45	30	1,991	19,910	10%	0	0	71.1
- Between Hollywood Blvd. and Sunset Blvd.	70	10	45	30	2,436	24,360	10%	0	0	72.0
Argyle Avenue										
- Between Franklin Ave. and Hollywood Blvd.	50	10	35	25	811	8,110	10%	0	0	68.6
- Between Hollywood Blvd. and Sunset Blvd.	50	10	35	25	731	7,310	10%	0	0	68.2
Franklin Avenue										
- West of Wilcox Ave.	40	10	30	30	1,359	13,590	10%	0	0	71.4
- Between Wilcox Ave. and Vine St.	40	10	30	30	2,118	21,180	10%	0	0	73.3
- East of Argyle Ave.	50	10	35	30	2,432	24,320	10%	0	0	73.2
Yucca Street										
- Between Wilcox Ave. and Cahuenga Blvd.	40	10	30	25	344	3,440	10%	0	0	65.6
- Between Cahuenga Blvd. and Argyle Ave.	50	10	35	25	443	4,430	10%	0	0	66.0
Hollywood Boulevard										
- Between Highland Ave. and Wilcox Ave.	70	10	45	35	1,923	19,230	10%	0	0	71.2
- Between Wilcox Ave. and Cahuenga Blvd.	70	10	45	35	1,999	19,990	10%	0	0	71.4
- Between Cahuenga Blvd. and Vine St.	70	10	45	35	1,810	18,100	10%	0	0	70.9
- Between Vine St. and Argyle Ave.	70	10	45	35	2,053	20,530	10%	0	0	71.5
Selma Avenue										
- West of Wilcox Ave.	40	10	30	25	458	4,580	10%	0	0	66.9

EXISTING + PROJECT CONDITIONS

Roadway Segment	Roadway Width*, ft	Distance to Edge of Roadway, ft	Distance to Centerline, feet	Speed mph	Traffic Volume		PHV to ADT factor	Barrier Atten.	Site Adjust., dBA	24-Hour CNEL
- Between Wilcox Ave. and Cahuenga Blvd.	40	10	30	25	338	3,380	10%	0	0	65.5
- East of Cahuenga Blvd.	40	10	30	25	300	3,000	10%	0	0	65.0
Sunset Boulevard										
- West of Wilcox Ave.	60	10	40	35	2,980	29,800	10%	0	0	73.6
- Between Wilcox Ave. and Cahuenga Blvd.	60	10	40	35	2,990	29,900	10%	0	0	73.6
- East of Cahuenga Blvd.	60	10	40	35	2,791	27,910	10%	0	0	73.3

* Estimated based on Google Earth map.

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

Off-Site Traffic Noise Calculations

Project: Hollywood & Wilcox

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

PHV to
ADT factor
10%

FUTURE NO PROJECT CONDITIONS

Roadway Segment	Roadway Width*, ft	Distance to Edge of Roadway, ft	Distance to Centerline, feet	Speed mph	Traffic Volume PHV	Traffic Volume ADT	PHV to ADT factor	Barrier Atten.	Site Adjust., dBA	24-Hour CNEL
Wilcox Avenue										
- Between Franklin Ave. and Hollywood Blvd.	40	10	30	25	798	7,980	10%	0	0	69.3
- Between Hollywood Blvd. and Sunset Blvd.	40	10	30	25	1,000	10,000	10%	0	0	70.3
Cahuenga Boulevard										
- Between US-101 and Franklin Ave.	70	10	45	35	3,596	35,960	10%	0	0	73.9
- Between Franklin Ave. and Hollywood Blvd.	60	10	40	35	2,816	28,160	10%	0	0	73.4
- Between Hollywood Blvd. and Sunset Blvd.	50	10	35	35	2,363	23,630	10%	0	0	73.2
Vine Street										
- Between Franklin Ave. and Hollywood Blvd.	70	10	45	30	2,387	23,870	10%	0	0	71.9
- Between Hollywood Blvd. and Sunset Blvd.	70	10	45	30	2,901	29,010	10%	0	0	72.8
Argyle Avenue										
- Between Franklin Ave. and Hollywood Blvd.	50	10	35	25	944	9,440	10%	0	0	69.3
- Between Hollywood Blvd. and Sunset Blvd.	50	10	35	25	825	8,250	10%	0	0	68.7
Franklin Avenue										
- West of Wilcox Ave.	40	10	30	30	1,527	15,270	10%	0	0	71.9
- Between Wilcox Ave. and Vine St.	40	10	30	30	2,391	23,910	10%	0	0	73.8
- East of Argyle Ave.	50	10	35	30	2,668	26,680	10%	0	0	73.6
Yucca Street										
- Between Wilcox Ave. and Cahuenga Blvd.	40	10	30	25	408	4,080	10%	0	0	66.4
- Between Cahuenga Blvd. and Argyle Ave.	50	10	35	25	592	5,920	10%	0	0	67.3
Hollywood Boulevard										
- Between Highland Ave. and Wilcox Ave.	70	10	45	35	2,484	24,840	10%	0	0	72.3
- Between Wilcox Ave. and Cahuenga Blvd.	70	10	45	35	2,569	25,690	10%	0	0	72.5
- Between Cahuenga Blvd. and Vine St.	70	10	45	35	2,685	26,850	10%	0	0	72.6
- Between Vine St. and Argyle Ave.	70	10	45	35	3,002	30,020	10%	0	0	73.1
Selma Avenue										
- West of Wilcox Ave.	40	10	30	25	555	5,550	10%	0	0	67.7

FUTURE NO PROJECT CONDITIONS

Roadway Segment	Roadway Width*, ft	Distance to Edge of Roadway, ft	Distance to Centerline, feet	Speed mph	Traffic Volume		PHV to ADT factor	Barrier Atten.	Site Adjust., dBA	24-Hour CNEL
- Between Wilcox Ave. and Cahuenga Blvd.	40	10	30	25	497	4,970	10%	0	0	67.2
- East of Cahuenga Blvd.	40	10	30	25	363	3,630	10%	0	0	65.9
Sunset Boulevard										
- West of Wilcox Ave.	60	10	40	35	3,926	39,260	10%	0	0	74.8
- Between Wilcox Ave. and Cahuenga Blvd.	60	10	40	35	3,944	39,440	10%	0	0	74.8
- East of Cahuenga Blvd.	60	10	40	35	3,801	38,010	10%	0	0	74.7

* Estimated based on Google Earth map.

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

Off-Site Traffic Noise Calculations

Project: Hollywood & Wilcox

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

PHV to
ADT factor
10%

FUTURE + PROJECT CONDITIONS

Roadway Segment	Roadway Width*, ft	Distance to Edge of Roadway, ft	Distance to Centerline, feet	Speed mph	Traffic Volume PHV	Traffic Volume ADT	PHV to ADT factor	Barrier Atten.	Site Adjust., dBA	24-Hour CNEL
Wilcox Avenue										
- Between Franklin Ave. and Hollywood Blvd.	40	10	30	25	845	8,450	10%	0	0	69.5
- Between Hollywood Blvd. and Sunset Blvd.	40	10	30	25	1,070	10,700	10%	0	0	70.5
Cahuenga Boulevard										
- Between US-101 and Franklin Ave.	70	10	45	35	3,629	36,290	10%	0	0	74.0
- Between Franklin Ave. and Hollywood Blvd.	60	10	40	35	2,823	28,230	10%	0	0	73.4
- Between Hollywood Blvd. and Sunset Blvd.	50	10	35	35	2,364	23,640	10%	0	0	73.2
Vine Street										
- Between Franklin Ave. and Hollywood Blvd.	70	10	45	30	2,387	23,870	10%	0	0	71.9
- Between Hollywood Blvd. and Sunset Blvd.	70	10	45	30	2,901	29,010	10%	0	0	72.8
Argyle Avenue										
- Between Franklin Ave. and Hollywood Blvd.	50	10	35	25	944	9,440	10%	0	0	69.3
- Between Hollywood Blvd. and Sunset Blvd.	50	10	35	25	825	8,250	10%	0	0	68.7
Franklin Avenue										
- West of Wilcox Ave.	40	10	30	30	1,527	15,270	10%	0	0	71.9
- Between Wilcox Ave. and Vine St.	40	10	30	30	2,409	24,090	10%	0	0	73.9
- East of Argyle Ave.	50	10	35	30	2,675	26,750	10%	0	0	73.6
Yucca Street										
- Between Wilcox Ave. and Cahuenga Blvd.	40	10	30	25	410	4,100	10%	0	0	66.4
- Between Cahuenga Blvd. and Argyle Ave.	50	10	35	25	594	5,940	10%	0	0	67.3
Hollywood Boulevard										
- Between Highland Ave. and Wilcox Ave.	70	10	45	35	2,497	24,970	10%	0	0	72.3
- Between Wilcox Ave. and Cahuenga Blvd.	70	10	45	35	2,597	25,970	10%	0	0	72.5
- Between Cahuenga Blvd. and Vine St.	70	10	45	35	2,707	27,070	10%	0	0	72.7
- Between Vine St. and Argyle Ave.	70	10	45	35	3,024	30,240	10%	0	0	73.2
Selma Avenue										
- West of Wilcox Ave.	40	10	30	25	555	5,550	10%	0	0	67.7

FUTURE + PROJECT CONDITIONS

Roadway Segment	Roadway Width*, ft	Distance to Edge of Roadway, ft	Distance to Centerline, feet	Speed mph	Traffic Volume		PHV to ADT factor	Barrier Atten.	Site Adjust., dBA	24-Hour CNEL
- Between Wilcox Ave. and Cahuenga Blvd.	40	10	30	25	499	4,990	10%	0	0	67.2
- East of Cahuenga Blvd.	40	10	30	25	363	3,630	10%	0	0	65.9
Sunset Boulevard										
- West of Wilcox Ave.	60	10	40	35	3,940	39,400	10%	0	0	74.8
- Between Wilcox Ave. and Cahuenga Blvd.	60	10	40	35	3,956	39,560	10%	0	0	74.8
- East of Cahuenga Blvd.	60	10	40	35	3,808	38,080	10%	0	0	74.7

* Estimated based on Google Earth map.

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

Construction Vibration Calculations

Project: Hollywood and Wilcox Project EIR

Construction Vibration Impacts

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

Calculations using FTA procedure with n= 1.5 (for receptors 25 feet or greater)

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

ON-SITE CONSTRUCTION ACTIVITIES

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

Equipment	Reference Vibration Levels at 25 ft., PPV	Estimated Vibration Levels at nearest off-site building structures (distance in feet), PPV					
		Commercial building to the North	Hotel to the South	Commercial building to the west	Commercial building to the east	Onsite Building	
		95	7	60	5	5	
Large Bulldozer	0.089	0.012	0.361	0.024	0.523	0.523	
Caisson Drilling	0.089	0.012	0.361	0.024	0.523	0.523	
Loaded Trucks	0.076	0.010	0.308	0.020	0.446	0.446	
Jackhammer	0.035	0.005	0.142	0.009	0.206	0.206	
Small bulldozer	0.003	0.000	0.012	0.001	0.018	0.018	
Significance Threshold, PPV		0.3	0.3	0.2	0.2	0.12	

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

Equipment	Reference Vibration Levels at 25 ft., VdB	Estimated Vibration Levels at Off-Site Receptors (at note distance in feet), VdB					
		R1	R2	R3	R4	R5	R6
		7	305	260	415	345	335
Large Bulldozer	87	99	54	56	50	53	53
Caisson Drilling	87	99	54	56	50	53	53
Loaded Trucks	86	98	53	55	49	52	52
Jackhammer	79	91	46	48	42	45	45
Small bulldozer	58	70	25	27	21	24	24
Significance Threshold, VdB		72	72	72	72	72	72

OFF-SITE CONSTRUCTION HAUL TRUCKS

Table 3: Off-Site Haul Trucks - Building Damage

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

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

Table 4: Off-Site Haul Trucks - Human Annoyance

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

Ref. Levels based on FTA Figure 7-3