

**I-710 SOUNDWALL FEASIBILITY STUDY/CONSTRUCTABILITY STUDY
EVALUATION MATRIX**

Row #	Exh. #	SW #	Segment	Location	Limits/Vicinity	Approx. Length (feet)	Caltrans Noise Study				Existing Soundwalls			Feasible for EAP? (see Note 2)	New Noise Study Needed?	Comments
							Current Noise Level, dBA	2035 Unabated Noise Level, dBA	Min Ht dBA Reduct.	Max Ht dBA Reduct.	Is there an existing SW?	Existing Wall Ht.	Proposed action to existing SW (See Note 1)			
1	1	SW-500/600	-	East of LA River	Ocean Blvd	754	65-66	67	8' / 8	14' / 11	No	-	-	Yes		No apparent constraints. Need to build from the ramp which may require temporary shoulder/lane closure.
2	2	SW-501/601	1	SB 710	Existing diagonal off-ramp to PCH	1770	57-67	69-79	N/A	N/A	Yes	10' to 12'	See Comments	Yes*	✓	This SW segment replaces a portion of Segment 4. Recommend to construct the new SW at the same location as the existing wall. Required wall height pending new noise study. SW will be in conflict with overhead electric poles at several locations and pole relocation will be required.
3	2 & 3		2	SB 710	B/w PCH and Willow Ave	2752	59-67	72-79	8' / 8	16' / 13	Yes	10' to 12'	Replacement	Yes		100' of the proposed SW will be outside of right of way by about 1'. SW will be in conflict with overhead electric poles at several locations and pole relocation will be required. The proposed SW will cross a major utility corridor near Hill St - need to design wall footing to avoid impacts.
4	3		3	SB 710	Existing diagonal on-ramp from Willow Ave	804	60-63	68-72	N/A	N/A	Yes	10' to 12'	See Comments	Yes*	✓	This SW segment replaces a portion of Segment 5. Recommend to construct the new SW at the same location as the existing wall. Required wall height pending new noise study.
5	2		4	SB 710	Proposed off-ramp to PCH	1648			8' / 8	16' / 13	Yes	See Seg 1	-	No		SW in conflict with existing ramps at PCH I/C.
6	3		5	SB 710	Proposed on-ramp from Willow Ave	913			8' / 8	16' / 13	Yes	See Seg 3	-	No		SW in conflict with existing ramps at Willow Ave I/C.
7	2 & 3		SW-601FC	-	Freight Corridor	B/w PCH and Willow Ave	5566			8' / A	10' / A	No	-	-	No	
8	3 & 4	SW-502/602	1	SB 710	Existing diagonal off-ramp to Willow Ave	777	58-62	66-73	N/A	N/A	Yes	10'	See Comments	Yes*	✓	This SW segment replaces Segment 4. Recommend to construct the new SW at the same location as the existing wall. Required wall height pending new noise study.
9	4 & 5		2	SB 710	B/w Willow Ave and Wardlow Rd	4376	61-67	70-81	8' / 10	16' / 14	Yes	10'	Replacement	Yes		60' of the new SW will be outside the right of way by as much as 6'. Close proximity with existing overhead electric line from Willow Ave to Wardlow Rd. The proposed SW will cross a major utility corridor near 28th St - need to design wall footing to avoid impacts.
10	5 & 6		3E	SB 710	B/w I-405 I/C and Wardlow Rd	1323	64-68	71-74	N/A	N/A	Yes	10'	Aesthetics only	Yes		This existing SW will be in conflict with future improvements and will be replaced by other SWs.
11	3 & 4		4	SB 710	Proposed off-ramp to Willow Ave	1420			8' / 10	16' / 14	Yes	See 1E	-	No		SW in conflict with existing ramps at Willow Ave I/C.
12	5 & 6		5	SB 710	B/w I-405 I/C and Wardlow Rd	1970			8' / 10	16' / 14	Yes - Partial	See 3E	-	No		A portion of the proposed SW will be in conflict with the existing ramp to Wardlow Rd. Another portion will be outside of right of way. The remaining will be on the approach to a future bridge, which will be significantly higher than the existing ground.
13	3 & 4	SW-602FC	-	Freight Corridor	B/w Willow Ave and Wardlow Rd	3117			8' / A	10' / A	No	-	-	No		SW will be located on the future elevated freight corridor structure.
14	6	SW-503/603	-	SB 710	I-710 & I-405 I/C	1494			8' / 4	10' / 9	No	-	-	No		SW in conflict with existing ramps at the I-710/I-405 I/C.
15	7	SW-405A	1E	NB 405	Off-ramp to Alameda St	2270			N/A	N/A	Yes	10'	Leave As-Is	No		The ongoing HOT lane study could change the ultimate SW location.
16	7		2	NB 405	B/w Alameda St and Santa Fe Ave	2218			8' / 2	16' / 4	Yes	See 1E	Leave As-Is	No		The ongoing HOT lane study could change the ultimate SW location. This SW will also need to be constructed on a retaining wall and two bridges, McHelen Ave OC and UPRR OH, will need to be widened.
17	8	SW-405B	1	SB 405	B/w LA river and Cedar Ave	2224			8' / 2	16' / 4	Yes	See 2E	-	No		SW will be located on the future elevated ramp connector structure.
18	8		2E	SB 405	B/w I-710 and Pacific Pl	588	62-65	65	N/A	N/A	Yes	10'	Aesthetics &/ Increase Ht.	Yes*	✓	Required wall height pending new noise study.
19	8		3E	SB 405	B/w UPRR and Wardlow Rd	1741	N/A	61	N/A	N/A	Yes	10'	Aesthetics &/ Increase Ht.	Yes*	✓	Existing noise level unknown. Required wall height pending new noise study.

Notes:

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 2. Based on currently available information.
- * Pending additional noise analysis

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Row #	Exh. #	SW #	Seg-ment	Location	Limits/Vicinity	Approx. Length (feet)	Caltrans Noise Study				Existing Soundwalls			Feasible for EAP? (see Note 2)	New Noise Study Needed?	Comments
							Current Noise Level, dBA	2035 Unabated Noise Level, dBA	Min Ht dBA Reduct.	Max Ht dBA Reduct.	Is there an existing SW?	Existing Wall Ht.	Proposed action to existing SW (See Note 1)			
20	8	SW-405C	1E	NB 405	B/w UPRR and Wardlow Rd	1459	N/A	64-65	N/A	N/A	Yes	10' to 14'	Aesthetics &/ Increase Ht.	Yes*	✓	Existing noise level unknown. Required wall height pending new noise study.
21	8		2	NB 405	B/w Los Cerritos Elementary & Cedar	2660	N/A	64	N/A	N/A	No	-	-	Yes*	✓	Potential sound wall identified by the community; to be confirmed by new noise study.
22	9		3	NB 405	B/w Long Beach Blvd and Atlantic Ave	902	N/A	N/A	N/A	N/A	No	-	-	Yes*	✓	Potential sound wall identified by the community; to be confirmed by new noise study.
23	10	SW-503A/603A	1	SB 710	Existing off-ramp to Long Beach Blvd	460			8' / 1	16' / 5	No	-	-	No		SW in conflict with the existing off ramp to Long Beach Blvd.
24	10		2	SB 710	B/w Long Beach Blvd and Barclays St	908	63-65	70-72	8' / 1	16' / 5	Yes	8' to 12'	Replacement	Yes		Need to remove the earthen berm that the existing SW is located on. Construction access via White Ave.
25	10 & 11	SW-503B/603B	1	SB 710	B/w Barclays St and Adams St	1175	63-65	65-72	10' / 4	16' / 6	Yes	10' to 12'	Increase Ht./Replace	Yes		Noise study called for increase in height of the existing SW but a complete new wall may be necessary upon further structural analysis. Future excavation may be close to the foundation of the existing SW for the first 300'.
26	11 & 13		2E	SB 710	B/w Adams St and Artesia Blvd	3273	61-68	65-72	N/A	N/A	Yes	8' to 12'	Aesthetics &/ Increase Ht.	Yes*	✓	68 dB measured at Coolidge park. Required wall height pending new noise study. Need to evaluate structural feasibility of raising wall height.
27	12	SW-604	-	East of LA River	Artesia Blvd	2171			8' / 6	16' / 8	No	-	-	No		This SW will create significant visual impact to the community. Lack of community support.
28	14	SW-605A	1E	EB 91	Atlantic Ave	466			N/A	N/A	Yes	12'	Leave As-Is	No		Ongoing study could affect ultimate SW location.
29	14		2E	EB 91	B/w Atlantic Ave and Orange Ave	2947			N/A	N/A	Yes	10' to 12'	Leave As-Is	No		Ongoing study could affect ultimate SW location.
30	14	SW-605B	1E	WB 91	Atlantic Ave	515			N/A	N/A	Yes	12'	Leave As-Is	No		Ongoing study could affect ultimate SW location.
31	14		2E	WB 91	B/w Atlantic Ave and Orange Ave	2822			N/A	N/A	Yes	10' to 12'	Leave As-Is	No		Ongoing study could affect ultimate SW location.
32	14 & 15	SW-606	-	EB 91	B/w Atlantic Ave and Orange Ave	2424			8' / 3	16' / 6	Yes	10' to 12'	Leave As-Is	No		Ongoing study could affect ultimate SW location.
33	14 & 15	SW-607	-	WB 91	B/w Atlantic Ave and Cherry Ave	3666			8' / 6	16' / 9	Yes	10' to 12'	Leave As-Is	No		Ongoing study could affect ultimate SW location.
34	11, 13, & 16	SW-504/608	1E	SB 710	SB I-710 to WB SR 91 connector ramp	1813	64	68-72	N/A	N/A	Yes	10'	Aesthetics &/ Increase Ht.	Yes*	✓	SW height pending new noise study.
35	11 & 16		2E	SB 710	SB I-710 to EB SR 91 connector ramp	788	64	68	N/A	N/A	Yes	10'	Aesthetics &/ Increase Ht.	Yes*	✓	SW height pending new noise study.
36	16		3	SB 710	I-710 & SR 91 I/C to Atlantic Ave	2236	57-65	63-77	8' / 8 ¹	16' / 12 ¹	Yes	8' to 12'	Replacement	Yes		The existing SW was built on a retaining wall, which will need to be removed/modified to allow for construction of the new SW and retaining wall. Additional widening is recommended to provide more room for construction. Close proximity with an existing overhead electric pole near Greenleaf Blvd.
37	16	SW-609A	-	East of LA River	Atlantic Ave	491			8' / 5	16' / 7	No	-	-	No		This SW will create significant visual impact to the community. Lack of community support.
38	16 & 17	SW-609B	-	East of LA River	B/w Atlantic Ave and Alondra Blvd	1310			8' / 5	16' / 7	No	-	-	No		This SW will create significant visual impact to the community. Lack of community support.
39	17	SW-505/610	1	SB 710	B/w Atlantic Ave UC and Alondra Blvd	1138			8' / 6 ^{2,3}	16' / 9 ^{2,3}	Yes - Partial	12'	Replacement	No		A significant portion would be in conflict with existing ramps and also outside of ROW.
40	17		2E	SB 710	Near Alondra Blvd	774	62	75-76	N/A	N/A	Yes	12'	Aesthetics &/ Increase Ht.	Yes*		This SW will be replaced by another SW in the ultimate condition.

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Row #	Exh. #	SW #	Seg-ment	Location	Limits/Vicinity	Approx. Length (feet)	Caltrans Noise Study				Existing Soundwalls			Feasible for EAP? (see Note 2)	New Noise Study Needed?	Comments
							Current Noise Level, dBA	2035 Unabated Noise Level, dBA	Min Ht dBA Reduct.	Max Ht dBA Reduct.	Is there an existing SW?	Existing Wall Ht.	Proposed action to existing SW (See Note 1)			
41	17	SW-506/611	1	SB 710	Alondra Blvd - SB 710 to EB 91 connector	895			8' / 6 ^{2,3}	16' / 9 ^{2,3}	Yes - Partial	See 2E	-	No		A significant portion of the new SW will be in conflict with existing ramps and also outside of ROW.
42	17		2E	SB 710	Alondra Blvd - SB 710 to EB 91 connector	604	62	75-76	N/A	N/A	Yes	12'	Aesthetics only	Yes		This SW will be replaced by another SW in the ultimate condition.
43	17	SW-507/612	1E	SB 710	B/w Lindsey St and Myrrh St	650	61	78	N/A	N/A	Yes	12'	Aesthetics only	Yes		This SW will be replaced by another SW in the ultimate condition. A private soundSW was recently constructed at the NW quadrant of the Alondra Blvd I/C.
44	17 & 18		2	SB 710	B/w Myrrh St and Somerset/Compton Blvd	1351	42-62	45-70	8' / 4 ⁴	16' / 10 ⁴	No	-	-	Yes	✓	This SW segment replaces Segment 3. Freeway is 8' +/- below grade and the new SW was previously proposed at ES. Recommend to construct the SW closer to right of way to allow for flexibility in future construction. A billboard sign is located close to right of way. A private wall is located at the SW corner of the Somerset Blvd Overcrossing.
45	17		3	SB 710	B/w Alondra Blvd and Myrrh St	2890			8' / 4 ⁴	16' / 10 ⁴	Yes - Partial	See 1E	-	No		This SW will be in conflict with existing ramp and outside of right of way. Near the intersection there is a recently constructed private SW adjacent to right of way.
46	18 & 19		4E	SB 710	B/w Somerset Blvd and Rosecrans Ave	2232	58-66	62-68	N/A	N/A	Yes	10' to 12'	Aesthetics &/ Increase Ht.	Yes*	✓	Need to determine with new noise study if the existing SW needs to be taller. Existing utilities will require relocation if SW is to be reconstructed.
47	-	SW-508 NOT USED														
48	17 & 18	SW-613	-	East of LA River	Somerset Blvd	1415			8' / 0	16' / 7	No	-	-	No		This SW will create significant visual impact to the community. Lack of community support.
49	19	SW-614	1	SB 710	Proposed off-ramp to Rosecrans Ave	605	54	55-57	8' / 2	16' / 5	No	-	-	No		Both existing and future noise levels are well below threshold. SW would need to be constructed on top of a 15' tall retaining wall.
50	19		2	SB 710	Proposed off-ramp to Rosecrans Ave	455			8' / 2	16' / 5	No	-	-	No		Proposed SW alignment in conflict with the existing ramp. See Segment 3.
51	19		3	SB 710	Proposed off-ramp to Rosecrans Ave	638	62	64-68	8' / 2	16' / 5	No	-	-	Yes	✓	This SW segment replaces Segment 2 and will be located closer to the R/W. Existing drainage facilities will need to be modified.
52	19		4	SB 710	Proposed off-ramp to Rosecrans Ave	1257	62-68	64-71	8' / 2	16' / 5	Yes - Partial	See 5E	-	Yes		SW will be built on retaining wall or on the existing bridge structure. Construction of the new retaining wall will require removal of the existing retaining wall. The existing bridge structure is only 24' wide, which may need to be closed for night work to construct the SW. Caltrans may require widening of ramp structure to provide a wider shoulder.
53	19 & 20		5E	SB 710	B/w I-105 and Rosecrans Ave	1716	59-68	62-71	N/A	N/A	Yes	8' to 12'	Aesthetics &/ Increase Ht.	Yes*	✓	SW height pending new noise study.
54	18 & 19	SW-615	-	East of LA River	B/w Somerset Blvd and Rosecrans Ave	2971			8' / 2	16' / 7	No	-	-	No		This SW will create significant visual impact to the community. Lack of community support.
55	21 & 22	SW-509/616	1	SB 710	B/w Imperial Hwy and Miller Way UC	1555			8' / 7 ⁵	16' / 14 ⁵	No	-	-	No		The new SW will be in conflict with the existing 710 mainline.
56	22		2	SB 710	Miller Way UC	439	74	75-76	8' / 7 ⁵	16' / 14 ⁵	No	-	-	Yes	✓	This SW is proposed to replace a portion of Segment 1. The entire SW would be built on a retaining wall with a maximum height of 30'. A new storm drain trunk line will be needed to replace the existing drainage ditch. Need to evaluate wall options to improve constructability and enhance aesthetics.
57	22 & 23		3	SB 710	B/w Miller Way UC and Southern Ave	1712	74-79	75-82	8' / 7 ⁵	16' / 14 ⁵	No	-	-	Yes	✓	Existing drainage facilities will need to be modified/relocated. Retaining walls will be needed. Since the future undercrossing will not be constructed in EAP, there may be a gap in the SW.
58	21 & 22		4E	SB 710	Existing off-ramp to Wright Rd	1953	66-68	70-71	N/A	N/A	Yes	Unknown	Aesthetics only	Yes		This future SW will be constructed by Caltrans.
59	21, 22 & 23	SW-616FC	-	Freight Corridor	B/w Imperial Hwy and Firestone Blvd	6084			8' / A	10' / A	No	-	-	No		SW located on future elevated freight corridor structure.

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							Current Noise Level, dBA	2035 Unabated Noise Level, dBA	Min Ht dBA Reduct.	Max Ht dBA Reduct.	Is there an existing SW?	Existing Wall Ht.	Proposed action to existing SW (See Note 1)			
60	24	SW-510/617A	1	NB 710	B/w Patata St and Clara St	2634	65-75	67-83	8' / 4	16' / 11	Yes - Partial	10'	Replacement	Yes		Two billboard signs are located just beyond the right of way. The overhead electric at back of existing wall may need relocation. 400' of the proposed SW is outside of existing right of way by up to 6'.
61	25		2E	NB 710	B/w Patata St and Clara St	386	65	67-75	N/A	N/A	Yes	12'	Aesthetics &/ Increase Ht.	Yes*	✓	SW height pending new noise study.
62	25		3E	NB 710	B/w Clara St and Florence Ave	1486	N/A	N/A	N/A	N/A	Yes	8' to 10'	Aesthetics only	Yes		
63	24 & 25	SW-617FCN	-	Freight Corridor	B/w Patata St and Clara St	3688			8' / 5 ⁶	10' / 12 ⁶	No	-	-	No		SW located on future elevated freight corridor structure.
64	24 & 25	SW-617FCS	-	Freight Corridor	B/w Patata St and Clara St	2782			8' / 5 ⁶	10' / 12 ⁶	No	-	-	No		SW located on future elevated freight corridor structure.
65	26	SW-618	1E	NB 710	B/w Gage Ave and Florence Ave	1957	67-68	69-75	N/A	N/A	Yes	8' to 14'	Aesthetics &/ Increase Ht.	Yes*	✓	SW height pending new noise study.
66	26		2	NB 710	B/w Gage Ave and Florence Ave	1111	68	75	8' / 0 ⁷	18' / 7 ⁷	Yes	10' to 14'	Replacement	Yes		Construction will involve excavation near existing buildings and especially nearby Loveland St. Existing overhead pole line will be impacted. A special retaining wall will be needed due to right of way constraint and proximity of houses/apartments.
67	26 & 27	SW-619	1	NB 710	B/w Gage Ave and Florence Ave	1240	64-67	68-75	8' / 0 ⁷	18' / 7 ⁷	Yes	10' to 14'	Replacement	Yes		Construction will involve excavation near existing buildings and especially nearby Agra St. Existing overhead pole line will be impacted. A special retaining wall will be needed due to right of way constraint and proximity of houses/apartments.
68	26 & 27	SW-618FCN	-	Freight Corridor	B/w Gage Ave and Florence Ave	4104			8' / A	10' / A	No	-	-	No		SW located on future elevated freight corridor structure.
69	26	SW-618FCS	-	Freight Corridor	B/w Gage Ave and Florence Ave	2407			8' / A	10' / A	No	-	-	No		SW located on future elevated freight corridor structure.
70	-	SW-511	-	NB 710	Proposed mainline north of Washington	462			8' / 8 ⁸	16' / 11 ⁸	No	-	-	No		Location similar to SW-620. SW location will be in conflict with existing freeway.
71	-	SW-512	1	NB 710	Proposed on-ramp from Washington Blvd	872			8' / 8 ⁸	16' / 11 ⁸	Yes	See 2E	-	No		Location similar to SW-621A/B. This SW is not needed because of the future SW under construction by Caltrans (Segment 2E).
72	-		2E	NB 710	Proposed on-ramp from Washington Blvd	347			N/A	N/A	Yes	15'	Leave As-Is	No		Location similar to SW-621A/B Segment 2E. This SW is under construction by Caltrans.
73	-	SW-513	-	SB 710	Proposed mainline north of Washington	287			8' / 4 ⁹	16' / 8 ⁹	No	-	-	No		Location similar to SW-620A. SW location in conflict with existing freeway.
74	-	SW-514	1	SB 710	Proposed off-ramp to Washington Blvd	1439			8' / 4 ⁹	16' / 8 ⁹	Yes - Partial	15'	See Comments	No		Location similar to SW-620B. This SW is not needed because of the future SW under construction by Caltrans (Segment 2E).
75	-		2E	SB 710	Proposed off-ramp to Washington Blvd	794			8' / 4 ⁹	16' / 8 ⁹	Yes	15'	Leave As-Is	No		Location similar to SW-620B Segment 2E. This SW is under construction by Caltrans.
76	28	SW-620 (Options J&M)	1	NB 710	Proposed mainline north of Washington	1033			8' / 7 ^{10,11}	16' / 9 ^{10,11}	No	-	-	No		Wall location in conflict with existing freeway and the proposed design in Alternative 5.
77	28	SW-621A/B	1	NB 710	Proposed on-ramp from Washington Blvd	1448			8' / 7 ¹⁰	16' / 11 ¹⁰	Yes	See 2E	-	No		Wall location in conflict with existing freeway and a future wall is under construction by Caltrans.
78	28		2E	NB 710	Existing on-ramp from Washington Blvd	1606	64-73	67-72	N/A	N/A	Yes	15'	Aesthetics only	Yes		This future wall is under construction by Caltrans.

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							Current Noise Level, dBA	2035 Unabated Noise Level, dBA	Min Ht dBA Reduct.	Max Ht dBA Reduct.	Is there an existing SW?	Existing Wall Ht.	Proposed action to existing SW (See Note 1)			
79	28	SW-620A (Option M only)	-	SB 710	Proposed mainline north of Washington	1464			8' / 8 ¹²	16' / 13 ¹²	No	-	-	No		Wall location in conflict with existing freeway.
80	28	SW-620B (Option M only)	1	SB 710	Proposed off-ramp to Washington Blvd	1002			8' / 8 ¹²	16' / 13 ¹²	Yes	See 2E	-	No		Wall location is partially in conflict with existing freeway and partially outside of existing right of way. A future wall is under construction by Caltrans (see Segment 2E).
81	28		2E	SB 710	Existing off-ramp to Washington Blvd	793	61-70	64-72	N/A	N/A	Yes	15'	Aesthetics only	Yes		This future wall is under construction by Caltrans.
82	29	SW-622 (Both Options J&M)	1	NB 710	I-710 & I-5 I/C	1305			8' / 5	16' / 7 ¹³	Yes	See 2E	-	No		Wall location in conflict with existing freeway.
83	28		2E	NB 710	I-710 & I-5 I/C	1770	62-70	68-73	N/A	N/A	Yes	12'	Aesthetics only	Yes		This future wall will be constructed by Caltrans.
84	28 & 29	SW-622A (Options J&M)	1	SB 710	I-710 & I-5 I/C	1203			8' / 4 ^{14,15}	16' / 5 ^{14,15}	Yes	See 2E	-	No		Wall location outside of existing ROW.
85	28 & 29		2E	SB 710	I-710 & I-5 I/C	950	63-64	68-70	N/A	N/A	Yes	12'	Aesthetics only	Yes		This future wall will be constructed by Caltrans.
86	29	SW-622B (Options J&M)	1	SB 710	I-710 & I-5 I/C	422			8' / 4 ^{14,15}	16' / 5 ^{14,15}	Yes	See 2E	-	No		Wall location in conflict with existing freeway.
87	29		2E	SB 710	I-710 & I-5 I/C	909			N/A	N/A	Yes	12'	Leave As-Is	No		Future plan of the I-710/I-5 Interchange will likely impact this wall.
88	29	SW-515	1	NB 710	Proposed mainline north of Olympic Blvd	481			8' / 6 ¹⁶	16' / 10 ¹⁶	Yes	See 2E	-	No		A future wall will be constructed by Caltrans.
89	29		2E	NB 710	Existing mainline north of Olympic Blvd	534	67-71	67-73	N/A	N/A	Yes	12'	Aesthetics only	Yes		This future wall will be constructed by Caltrans.
90	30	SW-516	1	NB 710	Proposed on-ramp from Olympic Blvd	2644			8' / 6 ¹⁶	16' / 10 ¹⁶	Yes	See 2E	-	No		This wall is not needed because of the future wall under construction by Caltrans (Segment 2E).
91	29 & 30		2E	NB 710	B/w Olympic Blvd and Humphreys Ave	2537	64-68	68-73	N/A	N/A	Yes	12'	Aesthetics only	Yes		This future wall will be constructed by Caltrans.
92	30 & 31		3E	NB 710	B/w Burger Ave and Humphreys Ave	705	68	73-75	N/A	N/A	Yes	12'	Aesthetics & Increase Ht.	Yes*	✓	Significant noise increase in the future. Required wall height pending new noise study.
93	31		4E	NB 710	B/w Humphreys Ave and 3rd St	733	61-64	64-68	N/A	N/A	Yes	6' to 12'	Aesthetics & Increase Ht.	Yes*	✓	Significant noise increase in the future. Required wall height pending new noise study.
94	31		5E	NB 710	B/w Humphreys Ave and 3rd St	495	61-64	64-68	N/A	N/A	Yes	10'	Aesthetics & Increase Ht.	Yes*	✓	Significant noise increase in the future. Required wall height pending new noise study.
95	31		6E	NB 710	B/w Humphreys Ave and 3rd St	252	61-64	64-68	N/A	N/A	Yes	14'	Aesthetics & Increase Ht.	Yes*	✓	Significant noise increase in the future. Required wall height pending new noise study.
96	29 & 30	SW-517/623	-	SB 710	Proposed on-ramp from Eastern Ave	1000			8' / 4	16' / 6	No	-	-	No		A 10-15' tall retaining wall along Eastern Ave will be needed, which will be in conflict with the proposed SW. Appears to be in conflict with the future I-5 / I-710 Interchange plan.

Notes:

1. Wall extension may not be possible upon further analysis. Complete wall reconstruction may be needed.

2. Based on currently available information.

* Pending additional noise analysis

**I-710 SOUNDWALL FEASIBILITY STUDY/CONSTRUCTABILITY STUDY
EVALUATION MATRIX**

Row #	Exh. #	SW #	Segment	Location	Limits/Vicinity	Approx. Length (feet)	Caltrans Noise Study				Existing Soundwalls			Feasible for EAP? (see Note 2)	New Noise Study Needed?	Comments
							Current Noise Level, dBA	2035 Unabated Noise Level, dBA	Min Ht dBA Reduct.	Max Ht dBA Reduct.	Is there an existing SW?	Existing Wall Ht.	Proposed action to existing SW (See Note 1)			
97	30	SW-519	1	SB 710	Proposed off-ramp to Eastern Ave	1395			8' 8 ¹⁷	16' 12 ¹⁷	Yes	See 2E	-	No		This wall is not needed because of the future wall under construction by Caltrans (Segment 2E). In addition this wall will be in conflict with the future I-5 / I-710 Interchange plan.
98	30		2E	SB 710	Existing off-ramp to Eastern Ave	1166	67	78	N/A	N/A	Yes	12'	Aesthetics only	Yes		This future wall will be constructed by Caltrans.
99	30 & 31		3E	SB 710	B/w Whittier Blvd and Humphreys Ave	2007	64-67	67-78	N/A	N/A	Yes	10'-12'	Aesthetics &/ Increase Ht.	Yes*	✓	Significant noise increase in the future. Required wall height pending new noise study.
100	31		4E	SB 710	B/w Humphreys Ave and 3rd St	437	63	66-68	N/A	N/A	Yes	10'	Aesthetics &/ Increase Ht.	Yes*	✓	Noise level is expected to exceed threshold in 2035. Need to determine with new noise study if the existing SW needs to be raised.
101	31		5E	SB 710	B/w Humphreys Ave and 3rd St	386	63	66-68	N/A	N/A	Yes	10'	Aesthetics &/ Increase Ht.	Yes*	✓	Noise level is expected to exceed threshold in 2035. Need to determine with new noise study if the existing SW needs to be raised.
102	31	SW-520/627	-	SB 710	710 & 60 I/C	531			8' 3 ¹⁸	16' 7 ¹⁸	No	-	-	No		This wall is not recommended per NADR. Close proximity with existing ramp structure at the I-710/SR-60 I/C.

Length of Proposed Soundwalls (Caltrans Noise Study) Evaluated -----> **18.7** miles
 Length of Existing Soundwalls Evaluated -----> **12.3** miles
 Total Length of Soundwalls Evaluated -----> **31.0** miles

5.6 miles <--- Proposed new soundwalls feasible in EAP
4.1 miles <--- Existing soundwalls feasible for aesthetics treatment and height increase
2.9 miles <--- Existing soundwalls feasible for aesthetics treatment only
12.6 miles <--- Total soundwalls feasible for EAP

Foot notes:

- A - Noise attenuation data for the soundwalls on freight corridor are not available as stand-alone walls.
 1 - Data shown for Alternative 5 only. Noise attenuation is 6 dBA and 10 dBA for wall heights of 8' and 16', respectively, for Alternative 6A.
 2 - Data shown for Alternative 5 only. Noise attenuation is 4 dBA and 8 dBA for wall heights of 8' and 16', respectively, for Alternative 6A.
 3 - SW-505 and 506 (SW-610 and 611) were evaluated as a group in the Caltrans Traffic Noise Study Report, and therefore the dBA reduction shown is for the entire group.
 4 - Data shown for Alternative 5 only. Noise attenuation is 5 dBA and 8 dBA for wall heights of 8' and 16', respectively, for Alternative 6A.
 5 - Data shown for Alternative 5 only. Noise attenuation is 4 dBA and 9 dBA for wall heights of 8' and 16', respectively, for Alternative 6A.
 6 - SW-617B, 617FCN and 617FCS were evaluated as a group in the Caltrans Traffic Noise Study Report, and therefore the dBA reduction shown is for the entire group.
 7 - SW-618 and 619 were evaluated as a group in the Caltrans Traffic Noise Study Report, and therefore the dBA reduction shown is for the entire group.
 8 - SW-511 and 512 were evaluated as a group in the Caltrans Traffic Noise Study Report, and therefore the dBA reduction shown is for the entire group.
 9 - SW-513 and 514 were evaluated as a group in the Caltrans Traffic Noise Study Report, and therefore the dBA reduction shown is for the entire group.
 10 - SW-620 and 621A (or 621B) were evaluated as a group in the Caltrans Traffic Noise Study Report, and therefore the dBA reduction shown is for the entire group.
 11 - Data shown for Design Option J only. Noise attenuation is 7 dBA and 11 dBA for wall heights of 8' and 16', respectively, for Design Option M.
 12 - SW-620A and 620B were evaluated as a group in the Caltrans Traffic Noise Study Report, and therefore the dBA reduction shown is for the entire group.
 13 - Data shown for Design Option J only. Noise attenuation is 8 dBA for wall height of 16' for Design Option M.
 14 - SW-622A and 622B were evaluated as a group in the Caltrans Traffic Noise Study Report, and therefore the dBA reduction shown is for the entire group.
 15 - Data shown for Design Option J only. Noise attenuation is 3 dBA and 4 dBA for wall heights of 8' and 16', respectively, for Design Option M.
 16 - SW-515 and 516 were evaluated as a group in the Caltrans Traffic Noise Study Report, and therefore the dBA reduction shown is for the entire group.
 17 - Data shown for Alternative 5 only. Noise attenuation is 5 dBA and 8 dBA for wall heights of 8' and 16', respectively, for Alternative 6A.
 18 - Data shown for Alternative 5 only. Noise attenuation is 2 dBA and 9 dBA for wall heights of 8' and 18', respectively, for Alternative 6A.

Notes:

- Wall extension may not be possible upon further analysis. Complete wall reconstruction may be needed.
 - Based on currently available information.
- * Pending additional noise analysis

710 - CORRIDOR PROJECT

SOUNDWALL FEASIBILITY STUDY/CONSTRUCTABILITY STUDY

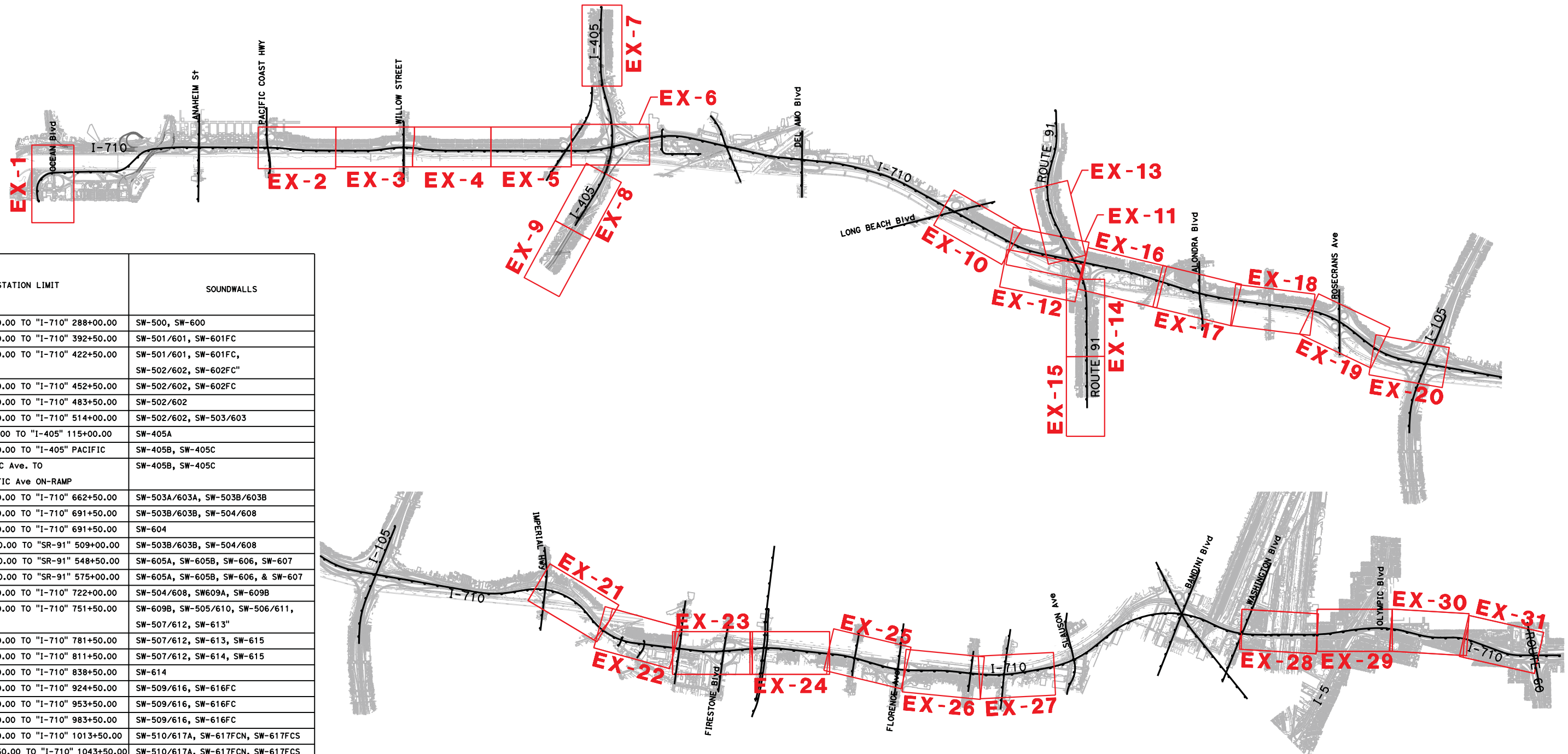
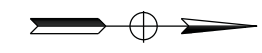


EXHIBIT No.	STATION LIMIT	SOUNDWALLS
1	"I-710" 266+00.00 TO "I-710" 288+00.00	SW-500, SW-600
2	"I-710" 363+00.00 TO "I-710" 392+50.00	SW-501/601, SW-601FC
3	"I-710" 392+50.00 TO "I-710" 422+50.00	SW-501/601, SW-601FC, SW-502/602, SW-602FC"
4	"I-710" 422+50.00 TO "I-710" 452+50.00	SW-502/602, SW-602FC
5	"I-710" 452+50.00 TO "I-710" 483+50.00	SW-502/602
6	"I-710" 483+50.00 TO "I-710" 514+00.00	SW-502/602, SW-503/603
7	"I-405" 85+00.00 TO "I-405" 115+00.00	SW-405A
8	"I-405" 156+00.00 TO "I-405" PACIFIC	SW-405B, SW-405C
9	"I-405" PACIFIC Ave. TO "I-405" ATLANTIC Ave ON-RAMP	SW-405B, SW-405C
10	"I-710" 635+00.00 TO "I-710" 662+50.00	SW-503A/603A, SW-503B/603B
11	"I-710" 662+50.00 TO "I-710" 691+50.00	SW-503B/603B, SW-504/608
12	"I-710" 662+50.00 TO "I-710" 691+50.00	SW-604
13	"SR-91" 480+00.00 TO "SR-91" 509+00.00	SW-503B/603B, SW-504/608
14	"SR-91" 518+50.00 TO "SR-91" 548+50.00	SW-605A, SW-605B, SW-606, SW-607
15	"SR-91" 548+50.00 TO "SR-91" 575+00.00	SW-605A, SW-605B, SW-606, & SW-607
16	"I-710" 691+50.00 TO "I-710" 722+00.00	SW-504/608, SW609A, SW-609B
17	"I-710" 722+00.00 TO "I-710" 751+50.00	SW-609B, SW-505/610, SW-506/611, SW-507/612, SW-613"
18	"I-710" 751+50.00 TO "I-710" 781+50.00	SW-507/612, SW-613, SW-615
19	"I-710" 781+50.00 TO "I-710" 811+50.00	SW-507/612, SW-614, SW-615
20	"I-710" 811+50.00 TO "I-710" 838+50.00	SW-614
21	"I-710" 895+00.00 TO "I-710" 924+50.00	SW-509/616, SW-616FC
22	"I-710" 924+50.00 TO "I-710" 953+50.00	SW-509/616, SW-616FC
23	"I-710" 953+50.00 TO "I-710" 983+50.00	SW-509/616, SW-616FC
24	"I-710" 983+50.00 TO "I-710" 1013+50.00	SW-510/617A, SW-617FCN, SW-617FCS
25	"I-710" 1013+50.00 TO "I-710" 1043+50.00	SW-510/617A, SW-617FCN. SW-617FCS
26	"I-710" 1043+50.00 TO "I-710" 1073+50.00	SW-618, SW-618FCN. SW-618FCS, SW-619"
27	"I-710" 1073+50.00 TO "I-710" 1101+50.00	SW-618FCN & SW-619
28	"I-710" 1180+00.00 TO "I-710" 1214+50.00	SW-620, SW-620A, SW-620B, SW-621A/B, SW-622, & SW-622A
29	"I-710" 1214+50.00 TO "I-710" 1243+00.00	SW-622, SW-622A, SW-622B, SW-515, SW-517/623
30	"I-710" 1243+00.00 TO "I-710" 1272+00.00	SW-516, SW-517/623, & SW-519
31	"I-710" 1272+00.00 TO "I-710" 12+87.00	SW-516, SW-519, SW-520/627



KEY MAP

NOT TO SCALE



Loc #	Description of Constraints
1	Existing Storm Drain Crosses Proposed SW.
2	SW would need to be constructed from the roadway rather than from the RV park due to the steep slope.
3	Existing Storm Drain Crosses Proposed SW.

LEGEND:

- PROPOSED WALLS
- - - PROPOSED ALTERNATIVE WALL LOCATIONS
- WALLS NOT FEASIBLE FOR EARLY ACTION
- EXISTING WALLS
- EXISTING WALLS TO BE IMPROVED
- FUTURE WALLS TO BE IMPROVED
- - - EXISTING RIGHT OF WAY
- Leq=** EXISTING NOISE LEVEL IN dB
- Leq=** FUTURE UNABATED NOISE LEVEL IN dB
- 10-MINUTE NOISE MEASUREMENT
- 24-HOUR MEASUREMENT SITE
- ▲ MODELED SITE
- # CONSTRAINT LOCATION

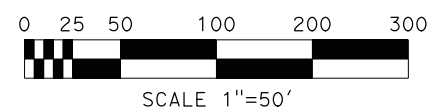
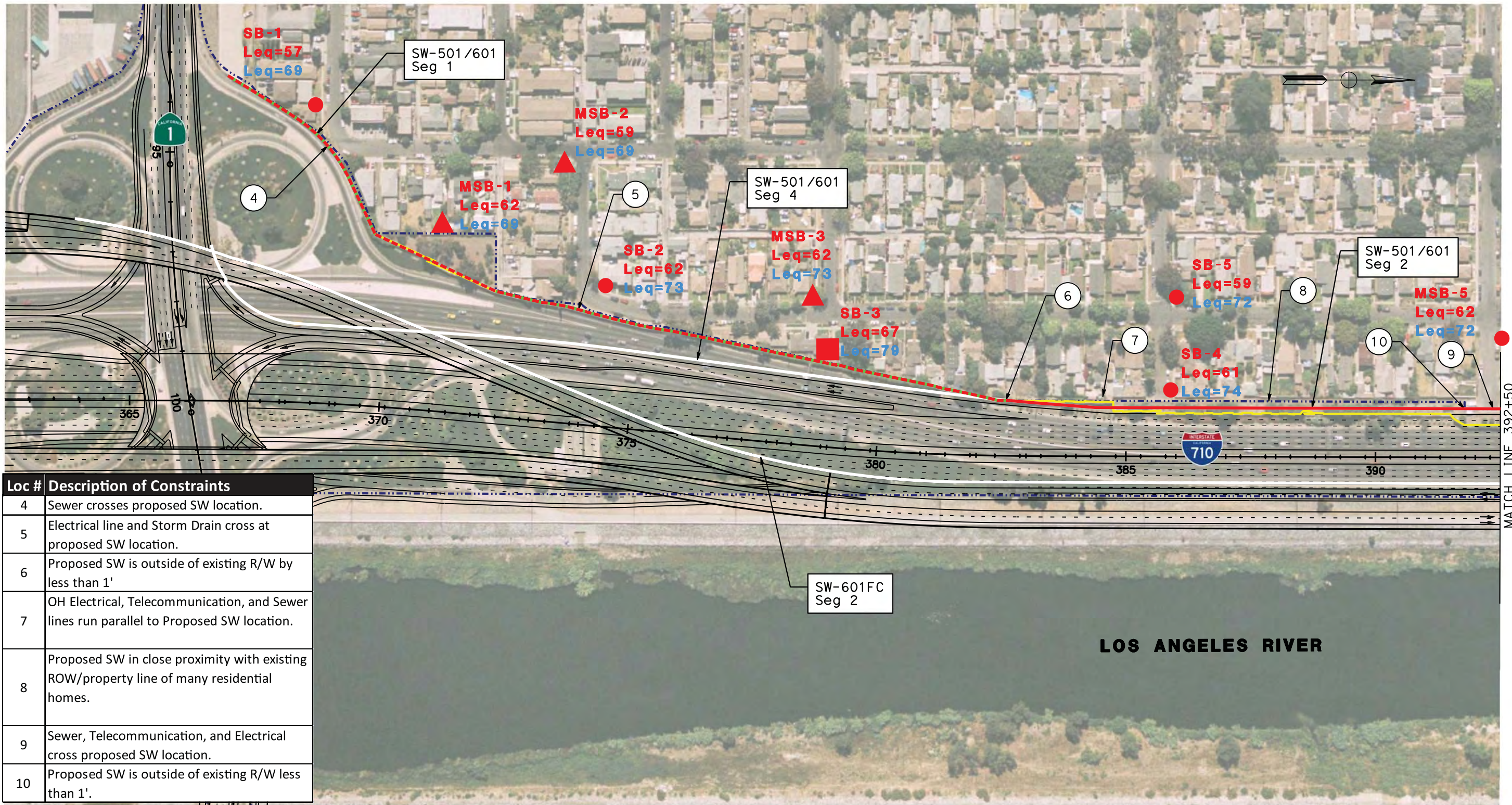


EXHIBIT 1

SW-500/600

I-710 CORRIDOR PROJECT - SOUND WALL FEASIBILITY STUDY

SEPTEMBER 2012



Loc #	Description of Constraints
4	Sewer crosses proposed SW location.
5	Electrical line and Storm Drain cross at proposed SW location.
6	Proposed SW is outside of existing R/W by less than 1'
7	OH Electrical, Telecommunication, and Sewer lines run parallel to Proposed SW location.
8	Proposed SW in close proximity with existing ROW/property line of many residential homes.
9	Sewer, Telecommunication, and Electrical cross proposed SW location.
10	Proposed SW is outside of existing R/W less than 1'.

MATCH LINE 392+50
SEE SHEET EX-3

LEGEND:

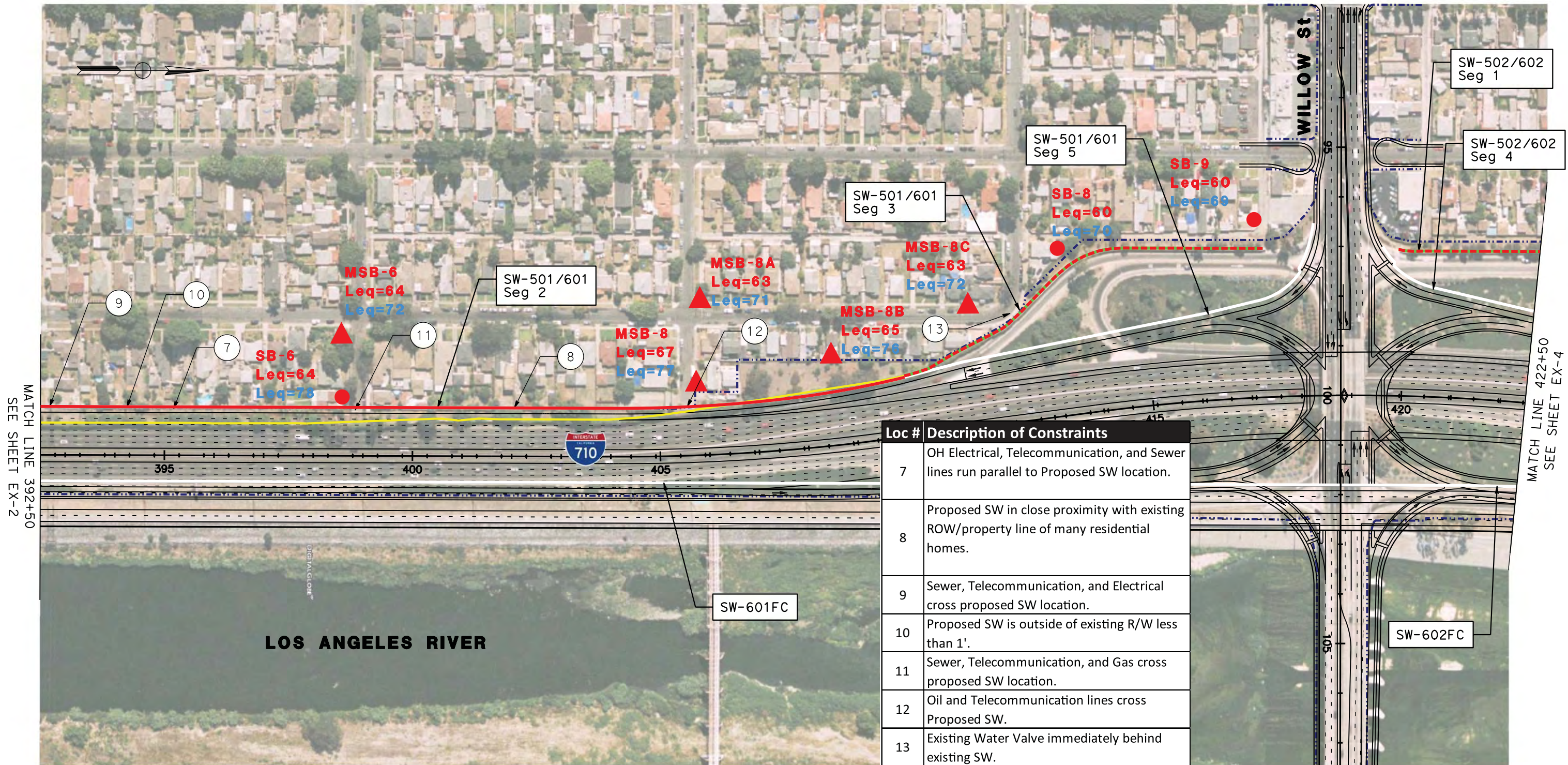
- PROPOSED WALLS
 - - - PROPOSED ALTERNATIVE WALL LOCATIONS
 - WALLS NOT FEASIBLE FOR EARLY ACTION
 - EXISTING WALLS
 - EXISTING WALLS TO BE IMPROVED
 - FUTURE WALLS TO BE IMPROVED
 - - - EXISTING RIGHT OF WAY
-
- Leq=** EXISTING NOISE LEVEL IN dB
 - Leq=** FUTURE UNABATED NOISE LEVEL IN dB
 - 10-MINUTE NOISE MEASUREMENT
 - 24-HOUR MEASUREMENT SITE
 - ▲ MODELED SITE
 - # CONSTRAINT LOCATION



EXHIBIT 2

SW-501/601
I-710 CORRIDOR PROJECT - SOUND WALL FEASIBILITY STUDY

SEPTEMBER 2012



Loc #	Description of Constraints
7	OH Electrical, Telecommunication, and Sewer lines run parallel to Proposed SW location.
8	Proposed SW in close proximity with existing ROW/property line of many residential homes.
9	Sewer, Telecommunication, and Electrical cross proposed SW location.
10	Proposed SW is outside of existing R/W less than 1'.
11	Sewer, Telecommunication, and Gas cross proposed SW location.
12	Oil and Telecommunication lines cross Proposed SW.
13	Existing Water Valve immediately behind existing SW.

LEGEND:

- PROPOSED WALLS
 - - - PROPOSED ALTERNATIVE WALL LOCATIONS
 - WALLS NOT FEASIBLE FOR EARLY ACTION
 - EXISTING WALLS
 - EXISTING WALLS TO BE IMPROVED
 - FUTURE WALLS TO BE IMPROVED
 - · - · - EXISTING RIGHT OF WAY
-
- Leq=** EXISTING NOISE LEVEL IN dB
 - Leq=** FUTURE UNABATED NOISE LEVEL IN dB
 - 10-MINUTE NOISE MEASUREMENT
 - 24-HOUR MEASUREMENT SITE
 - ▲ MODELED SITE
 - # CONSTRAINT LOCATION



EXHIBIT 3

SW-501/601, SW-601FC, SW-502/602, & SW-602FC
 I-710 CORRIDOR PROJECT - SOUND WALL FEASIBILITY STUDY

SEPTEMBER 2012



Loc #	Description of Constraints
14	Existing Storm Drain and Electrical line crosses Proposed SW.
15	OH Electrical and OH Telecomm run parallel to Proposed SW.
16	1. Construct a retaining wall in close proximity to existing structures. 2. Proposed SW location is at the property line of residential homes. Some on-site improvements might be impacted by construction.
17	Proposed SW weaves in and out of Caltrans R/W.
18	Existing oil lines cross Proposed SW location
19	OH Electrical and OH Telecomm run parallel to Proposed SW.
20	OH Electrical crosses Proposed SW

LEGEND:

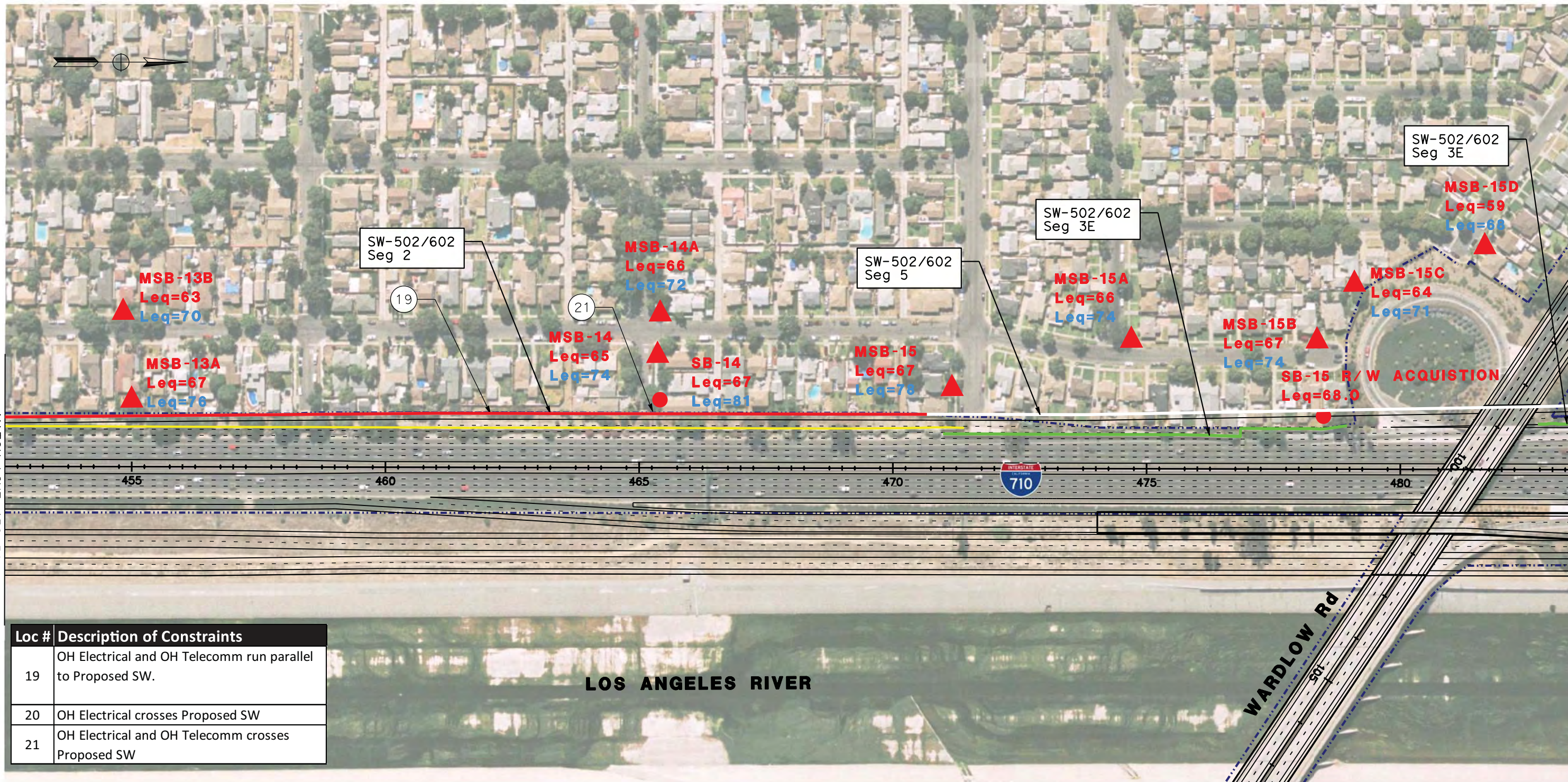
- PROPOSED WALLS
- - - PROPOSED ALTERNATIVE WALL LOCATIONS
- WALLS NOT FEASIBLE FOR EARLY ACTION
- EXISTING WALLS
- EXISTING WALLS TO BE IMPROVED
- FUTURE WALLS TO BE IMPROVED
- · - · - EXISTING RIGHT OF WAY
- Leq=** EXISTING NOISE LEVEL IN dB
- Leq=** FUTURE UNABATED NOISE LEVEL IN dB
- 10-MINUTE NOISE MEASUREMENT
- 24-HOUR MEASUREMENT SITE
- ▲ MODELED SITE
- # CONSTRAINT LOCATION



EXHIBIT 4

SW-502/602 & SW-602FC
 I-710 CORRIDOR PROJECT - SOUND WALL FEASIBILITY STUDY

SEPTEMBER 2012



MATCH LINE 452+50
SEE SHEET EX-4

MATCH LINE 483+50
SEE SHEET EX-6

Loc #	Description of Constraints
19	OH Electrical and OH Telecomm run parallel to Proposed SW.
20	OH Electrical crosses Proposed SW
21	OH Electrical and OH Telecomm crosses Proposed SW

LOS ANGELES RIVER

WARDLOW Rd

LEGEND:

- PROPOSED WALLS
- - - PROPOSED ALTERNATIVE WALL LOCATIONS
- WALLS NOT FEASIBLE FOR EARLY ACTION
- EXISTING WALLS
- EXISTING WALLS TO BE IMPROVED
- FUTURE WALLS TO BE IMPROVED
- - - EXISTING RIGHT OF WAY
- Leq=** EXISTING NOISE LEVEL IN dB
- Leq=** FUTURE UNABATED NOISE LEVEL IN dB
- 10-MINUTE NOISE MEASUREMENT
- 24-HOUR MEASUREMENT SITE
- ▲ MODELED SITE
- # CONSTRAINT LOCATION

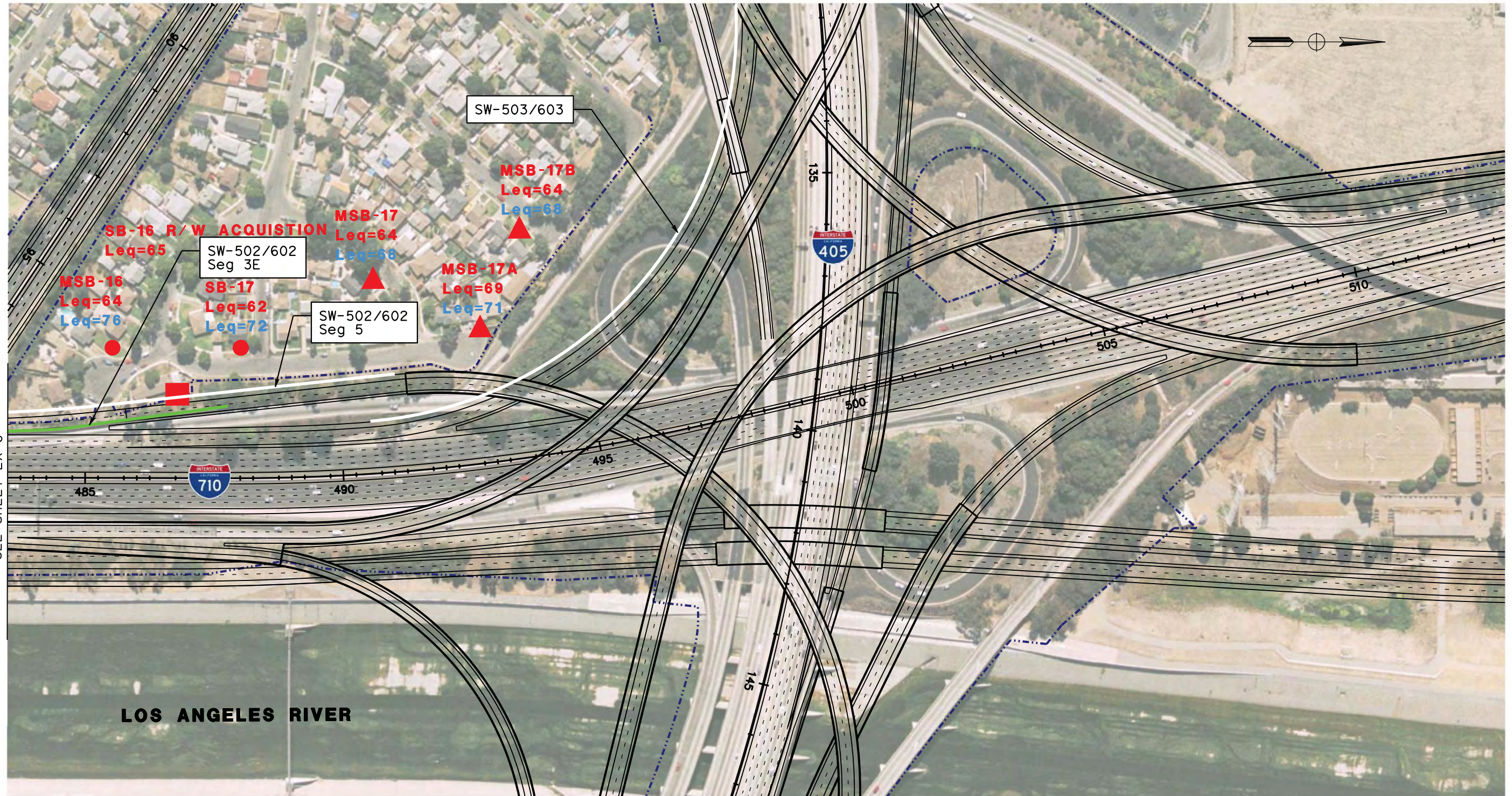


EXHIBIT 5

SW-502/602
I-710 CORRIDOR PROJECT - SOUND WALL FEASIBILITY STUDY

SEPTEMBER 2012

SEE SHEET EX-7



SEE SHEET EX-8

MATCH LINE 483+50
SEE SHEET EX-6

LEGEND:

- PROPOSED WALLS
- - - PROPOSED ALTERNATIVE WALL LOCATIONS
- WALLS NOT FEASIBLE FOR EARLY ACTION
- EXISTING WALLS
- EXISTING WALLS TO BE IMPROVED
- FUTURE WALLS TO BE IMPROVED
- · - · - EXISTING RIGHT OF WAY
- Leq=** EXISTING NOISE LEVEL IN dB
- Leq=** FUTURE UNABATED NOISE LEVEL IN dB
- 10-MINUTE NOISE MEASUREMENT
- 24-HOUR MEASUREMENT SITE
- ▲ MODELED SITE
- # CONSTRAINT LOCATION

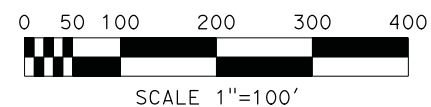


EXHIBIT 6

SW-502/602 & SW-503/603

I-710 CORRIDOR PROJECT - SOUND WALL FEASIBILITY STUDY

SEPTEMBER 2012



SEE SHEET EX-6

LEGEND:

- PROPOSED WALLS
- - - PROPOSED ALTERNATIVE WALL LOCATIONS
- WALLS NOT FEASIBLE FOR EARLY ACTION
- EXISTING WALLS
- EXISTING WALLS TO BE IMPROVED
- FUTURE WALLS TO BE IMPROVED
- - - - - EXISTING RIGHT OF WAY
- Leq=** EXISTING NOISE LEVEL IN dB
- Leq=** FUTURE UNABATED NOISE LEVEL IN dB
- 10-MINUTE NOISE MEASUREMENT
- 24-HOUR MEASUREMENT SITE
- ▲ MODELED SITE
- # CONSTRAINT LOCATION

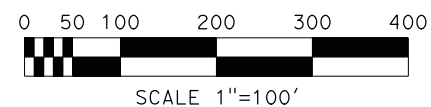


EXHIBIT 7

SW-405A

I-710 CORRIDOR PROJECT - SOUND WALL FEASIBILITY STUDY

SEPTEMBER 2012

EX-7



SEE SHEET EX-6

SEE SHEET EX-9

LEGEND:

- PROPOSED WALLS
- - - PROPOSED ALTERNATIVE WALL LOCATIONS
- WALLS NOT FEASIBLE FOR EARLY ACTION
- EXISTING WALLS
- EXISTING WALLS TO BE IMPROVED
- FUTURE WALLS TO BE IMPROVED
- · - · - EXISTING RIGHT OF WAY
- Leq=** EXISTING NOISE LEVEL IN dB
- Leq=** FUTURE UNABATED NOISE LEVEL IN dB
- 10-MINUTE NOISE MEASUREMENT
- 24-HOUR MEASUREMENT SITE
- ▲ MODELED SITE
- # CONSTRAINT LOCATION



EXHIBIT 8

SW-405B & SW-405C
I-710 CORRIDOR PROJECT - SOUND WALL FEASIBILITY STUDY

SEPTEMBER 2012



SEE SHEET EX-8

SW-405C
Seg 1E

SW-405C
Seg 3

SW-405B
Seg 3E

R2
eq=61



LEGEND:

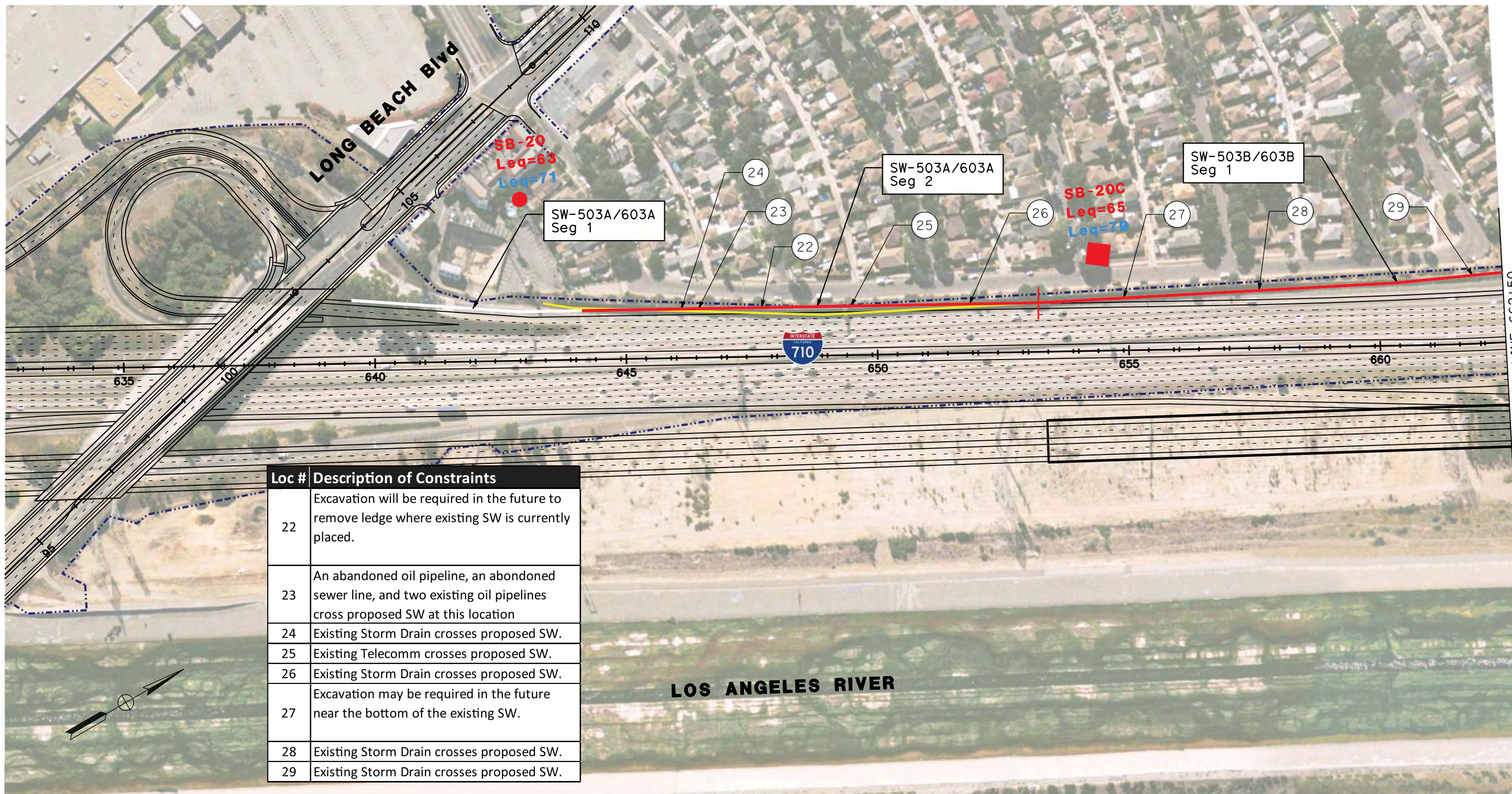
- PROPOSED WALLS
- - - PROPOSED ALTERNATIVE WALL LOCATIONS
- WALLS NOT FEASIBLE FOR EARLY ACTION
- EXISTING WALLS
- EXISTING WALLS TO BE IMPROVED
- FUTURE WALLS TO BE IMPROVED
- - - EXISTING RIGHT OF WAY
- Loq=** EXISTING NOISE LEVEL IN dB
- Loq=** FUTURE UNABATED NOISE LEVEL IN dB
- 10-MINUTE NOISE MEASUREMENT
- 24-HOUR MEASUREMENT SITE
- ▲ MODELED SITE
- # CONSTRAINT LOCATION



EXHIBIT 9

SW-405B & SW-405C
I-710 CORRIDOR PROJECT - SOUND WALL FEASIBILITY STUDY

SEPTEMBER 2012



Loc #	Description of Constraints
22	Excavation will be required in the future to remove ledge where existing SW is currently placed.
23	An abandoned oil pipeline, an abandoned sewer line, and two existing oil pipelines cross proposed SW at this location
24	Existing Storm Drain crosses proposed SW.
25	Existing Telecomm crosses proposed SW.
26	Existing Storm Drain crosses proposed SW.
27	Excavation may be required in the future near the bottom of the existing SW.
28	Existing Storm Drain crosses proposed SW.
29	Existing Storm Drain crosses proposed SW.

MATCH LINE 662+50
SEE SHEET EX-11

LEGEND:

- PROPOSED WALLS
- - - PROPOSED ALTERNATIVE WALL LOCATIONS
- WALLS NOT FEASIBLE FOR EARLY ACTION
- EXISTING WALLS
- EXISTING WALLS TO BE IMPROVED
- FUTURE WALLS TO BE IMPROVED
- - - EXISTING RIGHT OF WAY
- **Loq=**** EXISTING NOISE LEVEL IN dB
- **Loq=**** FUTURE UNABATED NOISE LEVEL IN dB
- 10-MINUTE NOISE MEASUREMENT
- 24-HOUR MEASUREMENT SITE
- ▲ MODELED SITE
- # CONSTRAINT LOCATION



EXHIBIT 10

SW-503A/603A & SW-503B/603B
I-710 CORRIDOR PROJECT - SOUND WALL FEASIBILITY STUDY

SEPTEMBER 2012

SEE SHEET EX-13



Loc #	Description of Constraints
30	Existing underground Telecomm crosses proposed SW in this area.

SEE SHEET EX-14

LEGEND:

- PROPOSED WALLS
- - - PROPOSED ALTERNATIVE WALL LOCATIONS
- WALLS NOT FEASIBLE FOR EARLY ACTION
- EXISTING WALLS
- EXISTING WALLS TO BE IMPROVED
- FUTURE WALLS TO BE IMPROVED
- · - · - EXISTING RIGHT OF WAY
- **Leq=**** EXISTING NOISE LEVEL IN dB
- **Leq=**** FUTURE UNABATED NOISE LEVEL IN dB
- 10-MINUTE NOISE MEASUREMENT
- 24-HOUR MEASUREMENT SITE
- ▲ MODELED SITE
- # CONSTRAINT LOCATION



EXHIBIT 11

SW-503B/603B, SW-504/608
I-710 CORRIDOR PROJECT - SOUND WALL FEASIBILITY STUDY

SEPTEMBER 2012



SEE SHEET EX-15

LEGEND:

- PROPOSED WALLS
 - - - PROPOSED ALTERNATIVE WALL LOCATIONS
 - WALLS NOT FEASIBLE FOR EARLY ACTION
 - EXISTING WALLS
 - EXISTING WALLS TO BE IMPROVED
 - FUTURE WALLS TO BE IMPROVED
 - · - · - EXISTING RIGHT OF WAY
-
- Leq=** EXISTING NOISE LEVEL IN dB
 - Leq=** FUTURE UNABATED NOISE LEVEL IN dB
 - 10-MINUTE NOISE MEASUREMENT
 - 24-HOUR MEASUREMENT SITE
 - ▲ MODELED SITE
 - # CONSTRAINT LOCATION

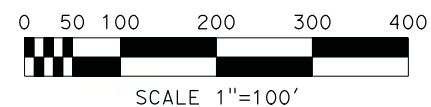


EXHIBIT 12

SW-604

I-710 CORRIDOR PROJECT - SOUND WALL FEASIBILITY STUDY

SEPTEMBER 2012



LEGEND:

- PROPOSED WALLS
 - PROPOSED ALTERNATIVE WALL LOCATIONS
 - WALLS NOT FEASIBLE FOR EARLY ACTION
 - EXISTING WALLS
 - EXISTING WALLS TO BE IMPROVED
 - FUTURE WALLS TO BE IMPROVED
 - EXISTING RIGHT OF WAY
-
- **Leq=**** EXISTING NOISE LEVEL IN dB
 - **Leq=**** FUTURE UNABATED NOISE LEVEL IN dB
 - 10-MINUTE NOISE MEASUREMENT
 - 24-HOUR MEASUREMENT SITE
 - ▲ MODELED SITE
 - # CONSTRAINT LOCATION

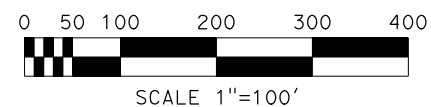
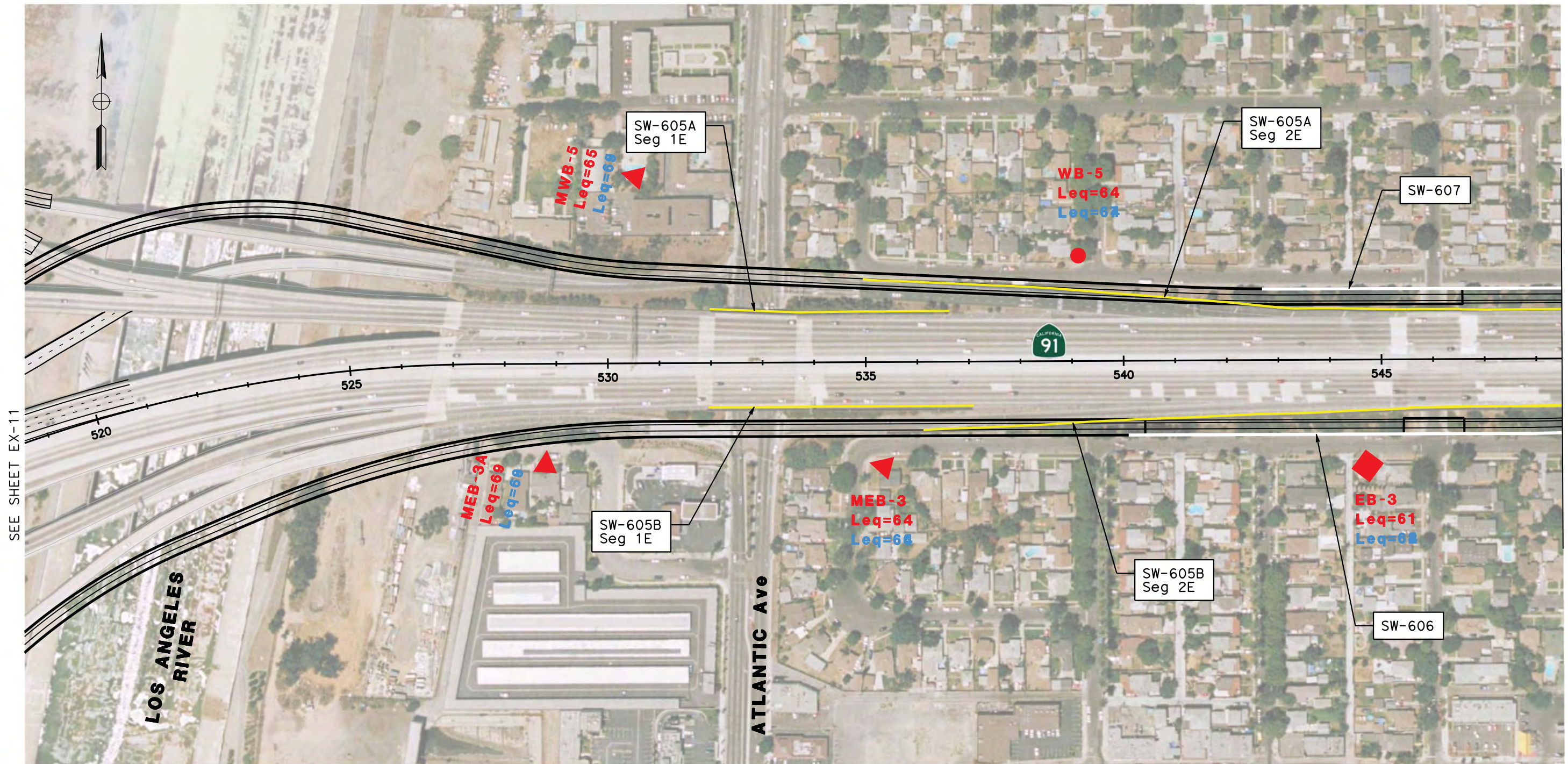


EXHIBIT 13

SW-503B/603B & SW-504/608

I-710 CORRIDOR PROJECT - SOUND WALL FEASIBILITY STUDY

SEPTEMBER 2012



LEGEND:

- PROPOSED WALLS
 - - - PROPOSED ALTERNATIVE WALL LOCATIONS
 - WALLS NOT FEASIBLE FOR EARLY ACTION
 - EXISTING WALLS
 - EXISTING WALLS TO BE IMPROVED
 - FUTURE WALLS TO BE IMPROVED
 - · - · - EXISTING RIGHT OF WAY
-
- Leq=** EXISTING NOISE LEVEL IN dB
 - Leq=** FUTURE UNABATED NOISE LEVEL IN dB
 - 10-MINUTE NOISE MEASUREMENT
 - 24-HOUR MEASUREMENT SITE
 - ▲ MODELED SITE
 - # CONSTRAINT LOCATION

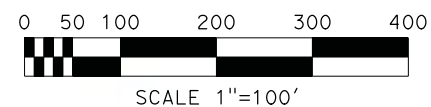
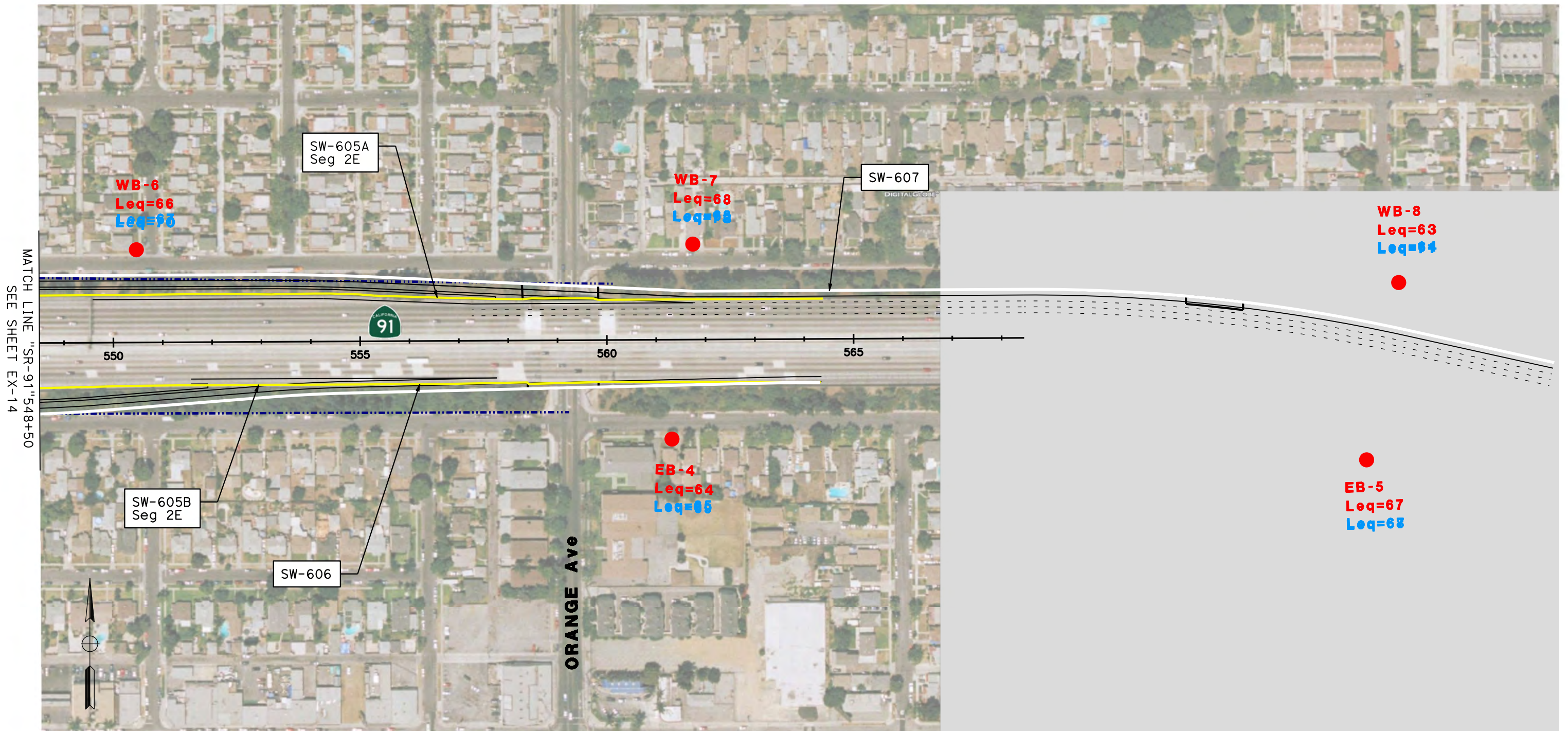


EXHIBIT 14

SW-605A, SW-605B, SW-606, & SW 607
I-710 CORRIDOR PROJECT - SOUND WALL FEASIBILITY STUDY

SEPTEMBER 2012



LEGEND:

- PROPOSED WALLS
- - - PROPOSED ALTERNATIVE WALL LOCATIONS
- WALLS NOT FEASIBLE FOR EARLY ACTION
- EXISTING WALLS
- EXISTING WALLS TO BE IMPROVED
- FUTURE WALLS TO BE IMPROVED
- · - · - EXISTING RIGHT OF WAY
- Leq=** EXISTING NOISE LEVEL IN dB
- Leq=** FUTURE UNABATED NOISE LEVEL IN dB
- 10-MINUTE NOISE MEASUREMENT
- 24-HOUR MEASUREMENT SITE
- ▲ MODELED SITE
- # CONSTRAINT LOCATION

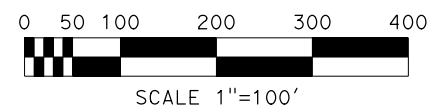
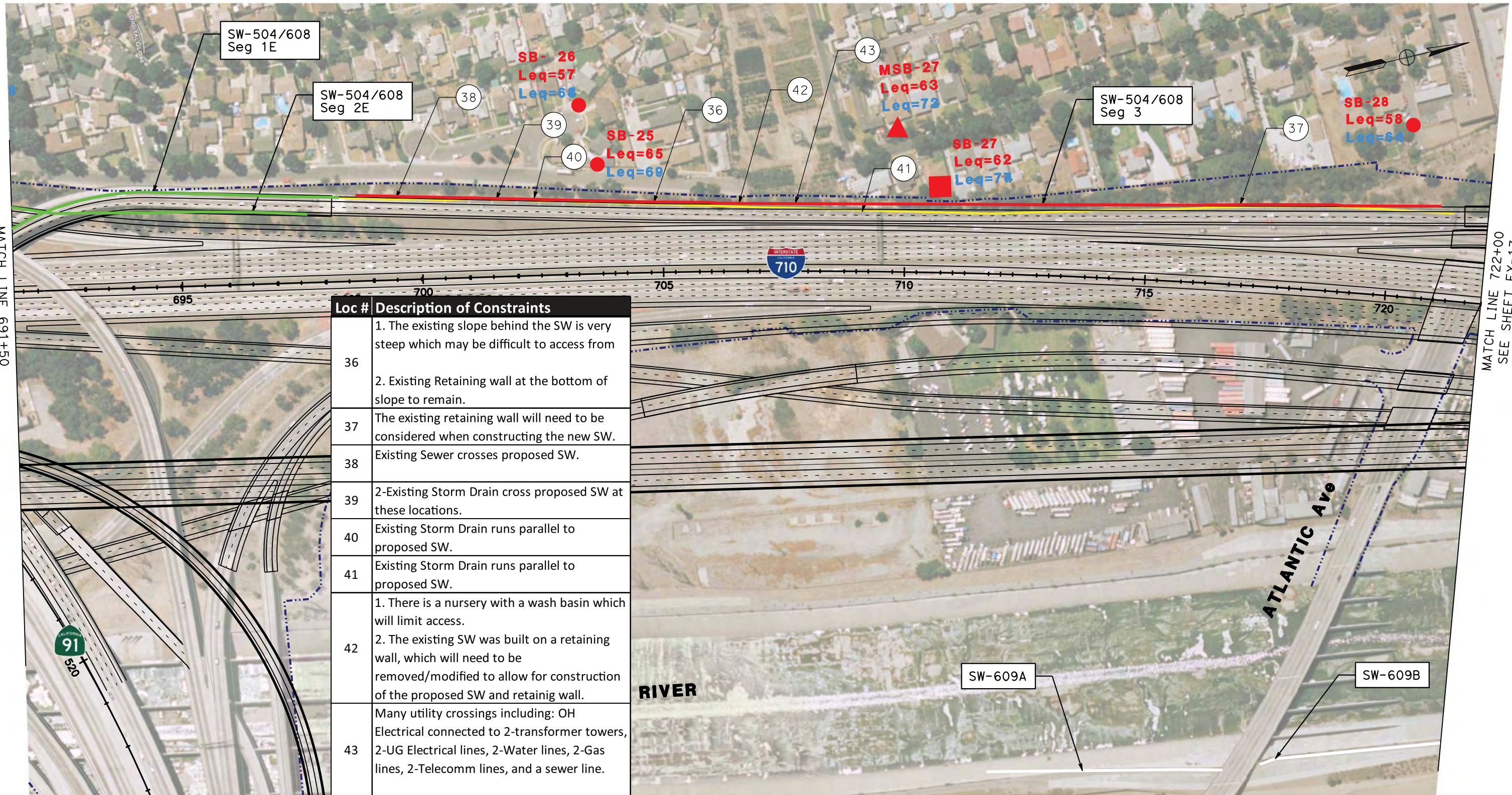


EXHIBIT 15

SW-606 & SW-607

I-710 CORRIDOR PROJECT - SOUND WALL FEASIBILITY STUDY

SEPTEMBER 2012



Loc #	Description of Constraints
36	1. The existing slope behind the SW is very steep which may be difficult to access from 2. Existing Retaining wall at the bottom of slope to remain.
37	The existing retaining wall will need to be considered when constructing the new SW.
38	Existing Sewer crosses proposed SW.
39	2-Existing Storm Drain cross proposed SW at these locations.
40	Existing Storm Drain runs parallel to proposed SW.
41	Existing Storm Drain runs parallel to proposed SW.
42	1. There is a nursery with a wash basin which will limit access. 2. The existing SW was built on a retaining wall, which will need to be removed/modified to allow for construction of the proposed SW and retaining wall.
43	Many utility crossings including: OH Electrical connected to 2-transformer towers, 2-UG Electrical lines, 2-Water lines, 2-Gas lines, 2-Telecomm lines, and a sewer line.

MATCH LINE 691+50
SEE SHEET EX-11

MATCH LINE 722+00
SEE SHEET EX-17

LEGEND:

- PROPOSED WALLS
 - - - PROPOSED ALTERNATIVE WALL LOCATIONS
 - WALLS NOT FEASIBLE FOR EARLY ACTION
 - EXISTING WALLS
 - EXISTING WALLS TO BE IMPROVED
 - FUTURE WALLS TO BE IMPROVED
 - - - EXISTING RIGHT OF WAY
-
- **Leq=**** EXISTING NOISE LEVEL IN dB
 - **Leq=**** FUTURE UNABATED NOISE LEVEL IN dB
 - 10-MINUTE NOISE MEASUREMENT
 - 24-HOUR MEASUREMENT SITE
 - ▲ MODELED SITE
 - # CONSTRAINT LOCATION

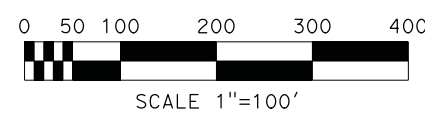


EXHIBIT 16

SW-504/608, SW-609A, & SW-609B
I-710 CORRIDOR PROJECT - SOUND WALL FEASIBILITY STUDY

SEPTEMBER 2012



Loc #	Description of Constraints
44	Existing OH Electrical runs parallel to existing & proposed SW.

LEGEND:

- PROPOSED WALLS
 - - - PROPOSED ALTERNATIVE WALL LOCATIONS
 - WALLS NOT FEASIBLE FOR EARLY ACTION
 - EXISTING WALLS
 - EXISTING WALLS TO BE IMPROVED
 - FUTURE WALLS TO BE IMPROVED
 - - - EXISTING RIGHT OF WAY
-
- Leq=** EXISTING NOISE LEVEL IN dB
 - Leq=** FUTURE UNABATED NOISE LEVEL IN dB
 - 10-MINUTE NOISE MEASUREMENT
 - 24-HOUR MEASUREMENT SITE
 - ▲ MODELED SITE
 - # CONSTRAINT LOCATION

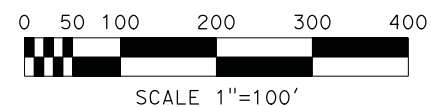


EXHIBIT 17

SW-609B, SW-505/610, SW-506/611, SW-507/612, & SW-613

I-710 CORRIDOR PROJECT - SOUND WALL FEASIBILITY STUDY

SEPTEMBER 2012

EX-17



Loc #	Description of Constraints
48	Proposed SW is located on existing bridge structure which is about 24' wide.

LEGEND:

- PROPOSED WALLS
 - - - PROPOSED ALTERNATIVE WALL LOCATIONS
 - WALLS NOT FEASIBLE FOR EARLY ACTION
 - EXISTING WALLS
 - EXISTING WALLS TO BE IMPROVED
 - FUTURE WALLS TO BE IMPROVED
 - · - · - EXISTING RIGHT OF WAY
-
- Leq=**** EXISTING NOISE LEVEL IN dB
 - Leq=**** FUTURE UNABATED NOISE LEVEL IN dB
 - 10-MINUTE NOISE MEASUREMENT
 - 24-HOUR MEASUREMENT SITE
 - ▲ MODELED SITE
 - # CONSTRAINT LOCATION

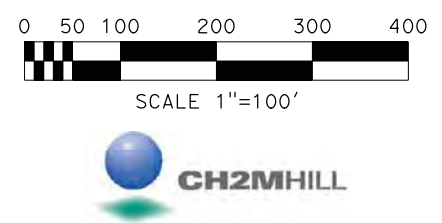
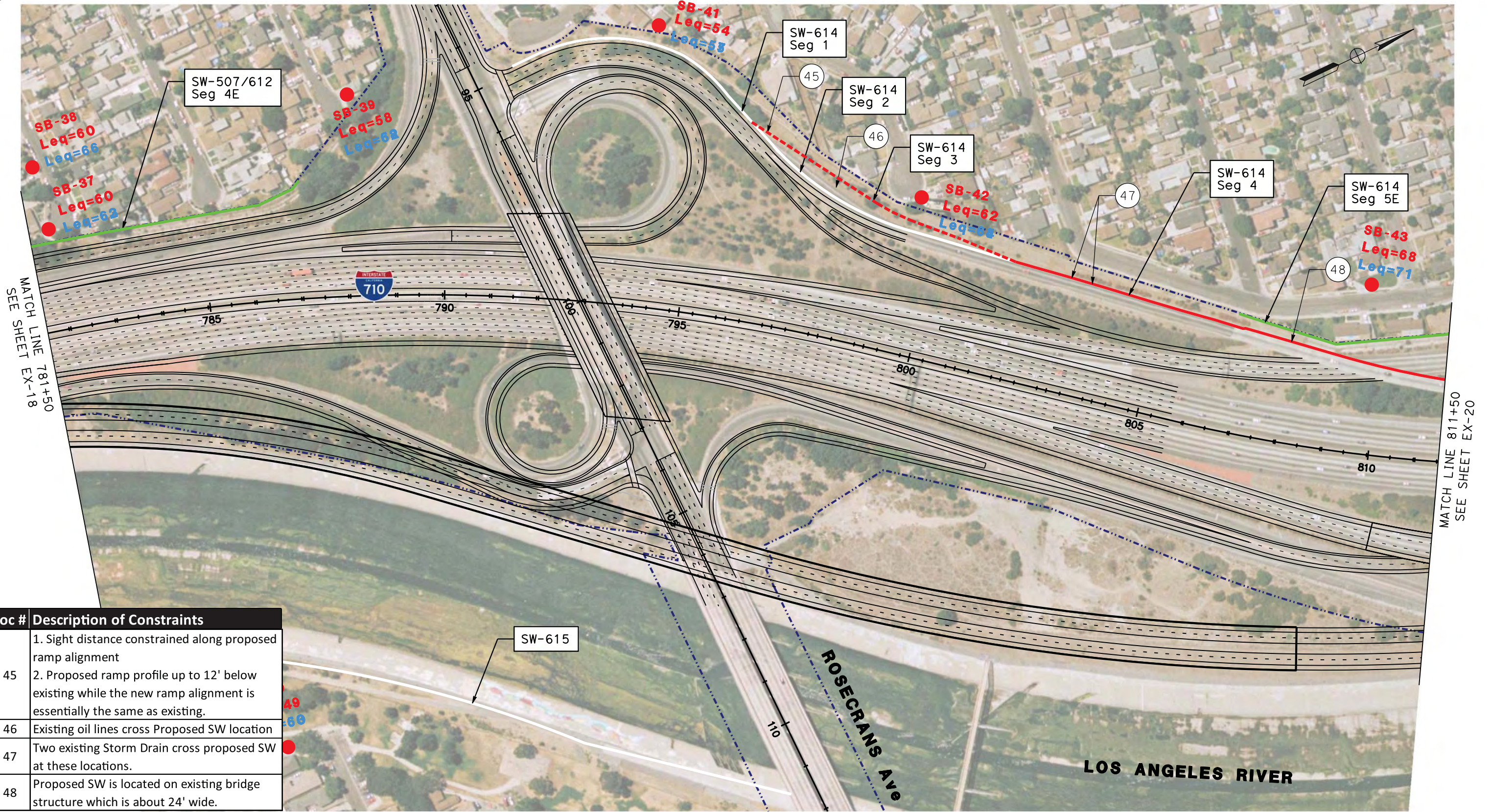


EXHIBIT 18

SW-507/612, SW-613, & SW-615
I-710 CORRIDOR PROJECT - SOUND WALL FEASIBILITY STUDY

SEPTEMBER 2012



Loc #	Description of Constraints
45	1. Sight distance constrained along proposed ramp alignment 2. Proposed ramp profile up to 12' below existing while the new ramp alignment is essentially the same as existing.
46	Existing oil lines cross Proposed SW location
47	Two existing Storm Drain cross proposed SW at these locations.
48	Proposed SW is located on existing bridge structure which is about 24' wide.

LEGEND:

- PROPOSED WALLS
- - - PROPOSED ALTERNATIVE WALL LOCATIONS
- WALLS NOT FEASIBLE FOR EARLY ACTION
- EXISTING WALLS
- EXISTING WALLS TO BE IMPROVED
- FUTURE WALLS TO BE IMPROVED
- - - EXISTING RIGHT OF WAY

- Leq=** EXISTING NOISE LEVEL IN dB
- Leq=** FUTURE UNABATED NOISE LEVEL IN dB
- 10-MINUTE NOISE MEASUREMENT
- 24-HOUR MEASUREMENT SITE
- ▲ MODELED SITE
- # CONSTRAINT LOCATION

0 50 100 200 300 400

SCALE 1"=100'

EXHIBIT 19
 SW-507/612, SW-614, & SW-615
 I-710 CORRIDOR PROJECT - SOUND WALL FEASIBILITY STUDY

SEPTEMBER 2012

EX-19



Loc #	Description of Constraints
48	Proposed SW is located on existing bridge structure which is about 24' wide.

LEGEND:

- PROPOSED WALLS
 - - - PROPOSED ALTERNATIVE WALL LOCATIONS
 - WALLS NOT FEASIBLE FOR EARLY ACTION
 - EXISTING WALLS
 - EXISTING WALLS TO BE IMPROVED
 - FUTURE WALLS TO BE IMPROVED
 - · - · - EXISTING RIGHT OF WAY
-
- Leq=** EXISTING NOISE LEVEL IN dB
 - Leq=** FUTURE UNABATED NOISE LEVEL IN dB
 - 10-MINUTE NOISE MEASUREMENT
 - 24-HOUR MEASUREMENT SITE
 - ▲ MODELED SITE
 - # CONSTRAINT LOCATION

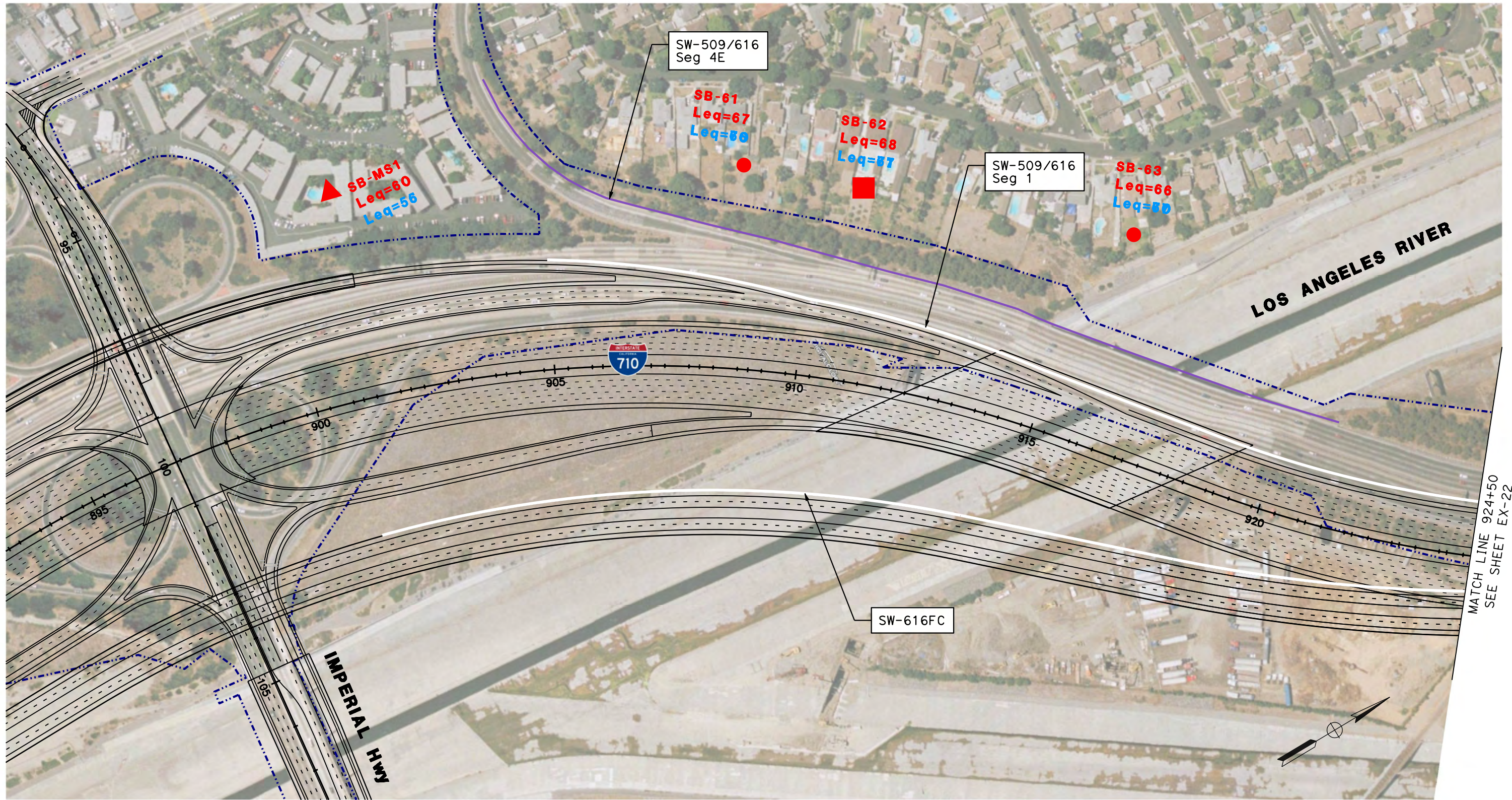


EXHIBIT 20

SW-614

I-710 CORRIDOR PROJECT - SOUND WALL FEASIBILITY STUDY

SEPTEMBER 2012



MATCH LINE 924+50
SEE SHEET EX-22

LEGEND:

- PROPOSED WALLS
 - - - PROPOSED ALTERNATIVE WALL LOCATIONS
 - WALLS NOT FEASIBLE FOR EARLY ACTION
 - EXISTING WALLS
 - EXISTING WALLS TO BE IMPROVED
 - FUTURE WALLS TO BE IMPROVED
 - · - · - EXISTING RIGHT OF WAY
-
- Leq=** EXISTING NOISE LEVEL IN dB
 - Leq=** FUTURE UNABATED NOISE LEVEL IN dB
 - 10-MINUTE NOISE MEASUREMENT
 - 24-HOUR MEASUREMENT SITE
 - ▲ MODELED SITE
 - # CONSTRAINT LOCATION

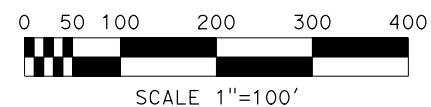


EXHIBIT 21

SW-509/616 & SW-616FC

I-710 CORRIDOR PROJECT - SOUND WALL FEASIBILITY STUDY

SEPTEMBER 2012

EX-21



Loc #	Description of Constraints
49	1. A retaining wall with a maximum height of 25' will be needed along the entire length of the SW. 2. Sight distance on SB 710 may be restricted by proposed SW.
50	Existing drainage ditch in conflict with proposed SW location.
51	Existing Telecomm crosses proposed SW.
52	Existing OH Electrical crosses proposed SW.

LEGEND:

- PROPOSED WALLS
 - - - PROPOSED ALTERNATIVE WALL LOCATIONS
 - WALLS NOT FEASIBLE FOR EARLY ACTION
 - EXISTING WALLS
 - EXISTING WALLS TO BE IMPROVED
 - FUTURE WALLS TO BE IMPROVED
 - · - · - EXISTING RIGHT OF WAY
-
- Leq=** EXISTING NOISE LEVEL IN dB
 - Leq=** FUTURE UNABATED NOISE LEVEL IN dB
 - 10-MINUTE NOISE MEASUREMENT
 - 24-HOUR MEASUREMENT SITE
 - ▲ MODELED SITE
 - # CONSTRAINT LOCATION

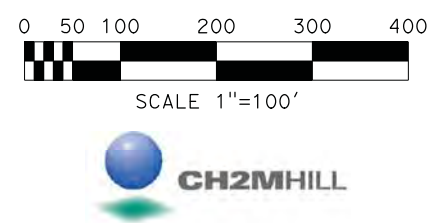
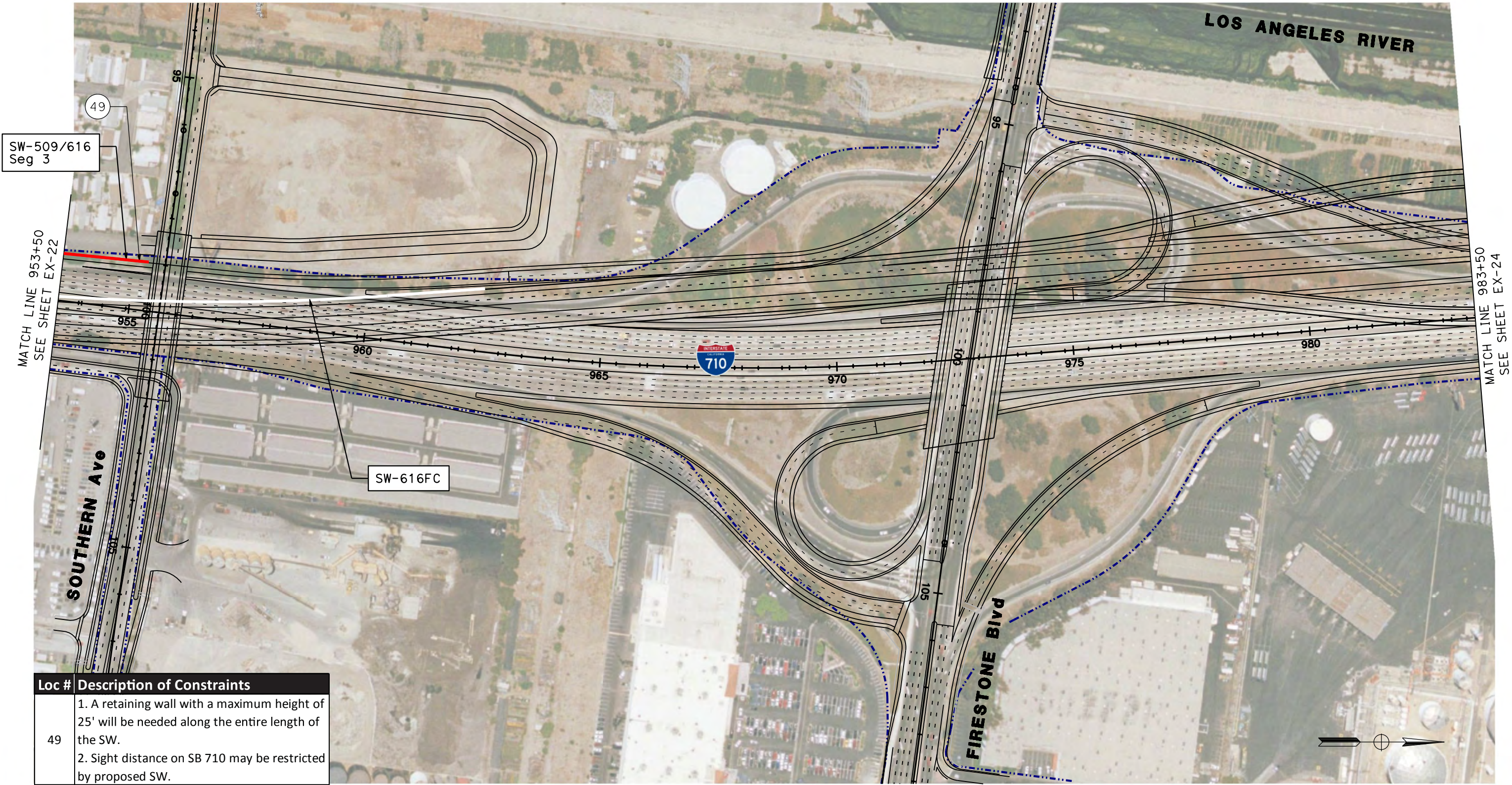


EXHIBIT 22

SW-509/616 & SW-616FC
 I-710 CORRIDOR PROJECT - SOUND WALL FEASIBILITY STUDY
 SEPTEMBER 2012



SW-509/616
Seg 3

MATCH LINE 953+50
SEE SHEET EX-22

MATCH LINE 983+50
SEE SHEET EX-24

SW-616FC

Loc #	Description of Constraints
49	1. A retaining wall with a maximum height of 25' will be needed along the entire length of the SW. 2. Sight distance on SB 710 may be restricted by proposed SW.

LEGEND:

- PROPOSED WALLS
 - - - PROPOSED ALTERNATIVE WALL LOCATIONS
 - WALLS NOT FEASIBLE FOR EARLY ACTION
 - EXISTING WALLS
 - EXISTING WALLS TO BE IMPROVED
 - FUTURE WALLS TO BE IMPROVED
 - · - · - EXISTING RIGHT OF WAY
-
- Loq=** EXISTING NOISE LEVEL IN dB
 - Loq=** FUTURE UNABATED NOISE LEVEL IN dB
 - 10-MINUTE NOISE MEASUREMENT
 - 24-HOUR MEASUREMENT SITE
 - ▲ MODELED SITE
 - # CONSTRAINT LOCATION



EXHIBIT 23

SW-509/616 & SW-616FC
I-710 CORRIDOR PROJECT - SOUND WALL FEASIBILITY STUDY

SEPTEMBER 2012



Loc #	Description of Constraints
54	A retaining wall will be needed since future freeway will be ~5' lower than ground.
55	1. Proposed SW is either ontop of or within the existing ROW. 2. Access only available from the freeway side.
56	A major storm drain box culvert crosses proposed SW at a location where the future mainline will be lowered 2' to 3' at this location.
57	Existing OH Electrical runs parallel to the back of proposed SW.
58	Existing billboard with OH electrical attached is within close proximity of proposed SW.
59	Existing Gas crosses proposed SW.

LEGEND:

- PROPOSED WALLS
- - - PROPOSED ALTERNATIVE WALL LOCATIONS
- WALLS NOT FEASIBLE FOR EARLY ACTION
- EXISTING WALLS
- EXISTING WALLS TO BE IMPROVED
- FUTURE WALLS TO BE IMPROVED
- - - EXISTING RIGHT OF WAY
- Leq=** EXISTING NOISE LEVEL IN dB
- Leq=** FUTURE UNABATED NOISE LEVEL IN dB
- 10-MINUTE NOISE MEASUREMENT
- 24-HOUR MEASUREMENT SITE
- ▲ MODELED SITE
- # CONSTRAINT LOCATION

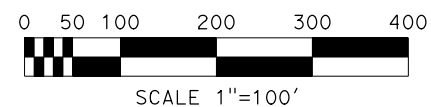


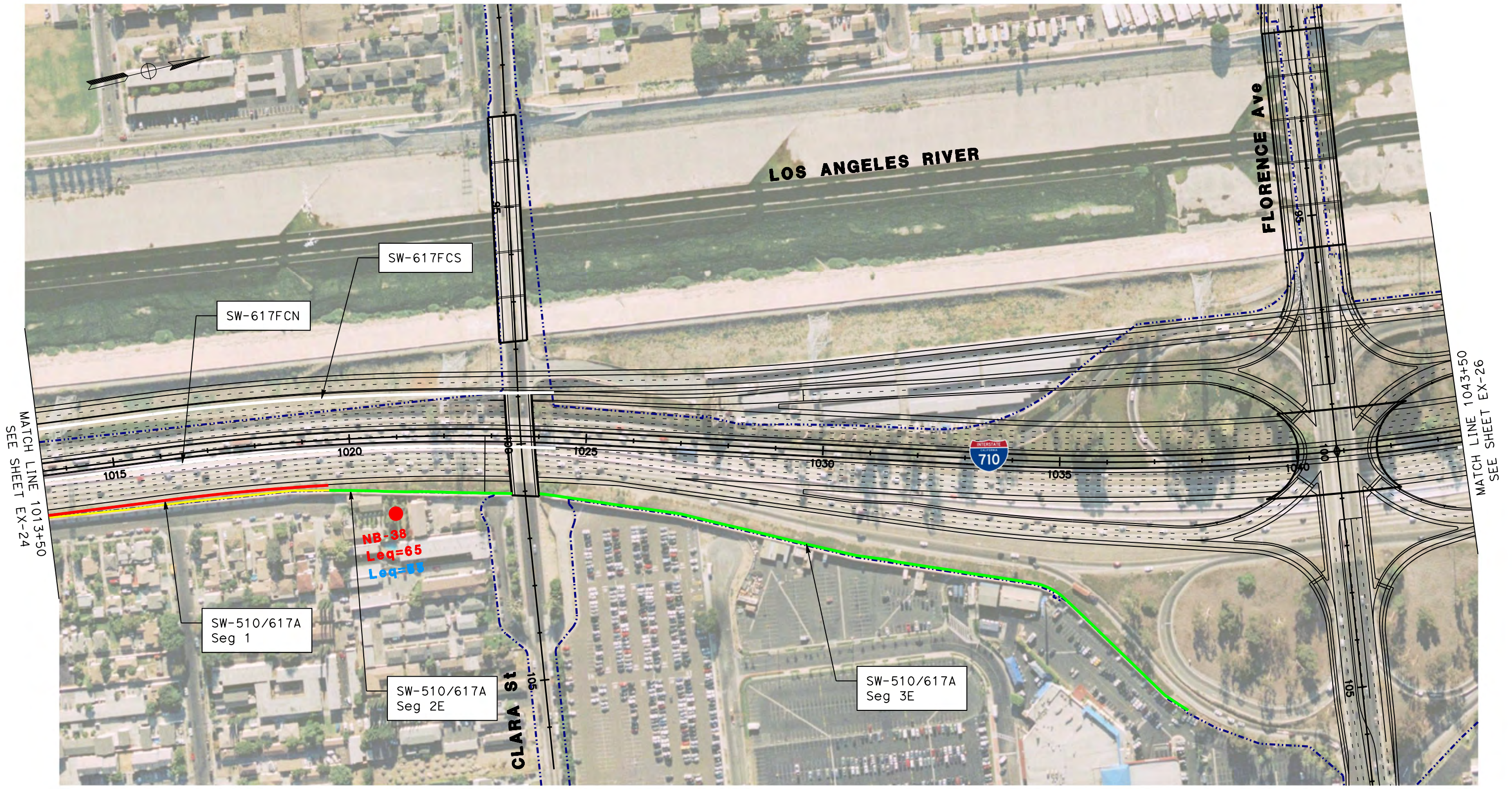
EXHIBIT 24

SW-510/617A, SW-617FCN & SW-617FCS

I-710 CORRIDOR PROJECT - SOUND WALL FEASIBILITY STUDY

SEPTEMBER 2012

EX-24



LEGEND:

- PROPOSED WALLS
 - - - PROPOSED ALTERNATIVE WALL LOCATIONS
 - WALLS NOT FEASIBLE FOR EARLY ACTION
 - EXISTING WALLS
 - EXISTING WALLS TO BE IMPROVED
 - FUTURE WALLS TO BE IMPROVED
 - · - · - EXISTING RIGHT OF WAY
-
- **Leq=**** EXISTING NOISE LEVEL IN dB
 - **Leq=**** FUTURE UNABATED NOISE LEVEL IN dB
 - 10-MINUTE NOISE MEASUREMENT
 - 24-HOUR MEASUREMENT SITE
 - ▲ MODELED SITE
 - # CONSTRAINT LOCATION

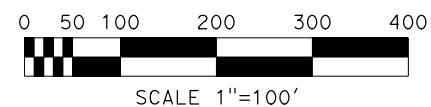


EXHIBIT 25

SW-510/617A, SW-617FCN & SW-617FCS
I-710 CORRIDOR PROJECT - SOUND WALL FEASIBILITY STUDY

SEPTEMBER 2012



MATCH LINE 1043+50
SEE SHEET EX-25

MATCH LINE 1073+50
SEE SHEET EX-27

Loc #	Description of Constraints
60	1. Proposed SW in close proximity with existing ROW and adjacent buildings. 2. A retaining wall will be needed since future freeway will be lower than the existing freeway and closer to the existing right of way. 3. Access only available from the freeway side.
61	Existing OH Electrical runs parallel to the back of existing SW.
62	Existing OH Electrical crosses proposed SW.
63	Existing OH Electrical and OH Telecomm cross proposed SW.
64	Existing OH Electrical and OH Telecomm cross proposed SW.
65	1. Proposed SW in close proximity with existing ROW and adjacent buildings. 2. A retaining wall will be needed since future freeway will be lower than the existing freeway and closer to the existing right of way. 3. Access only available from the freeway side.

LEGEND:

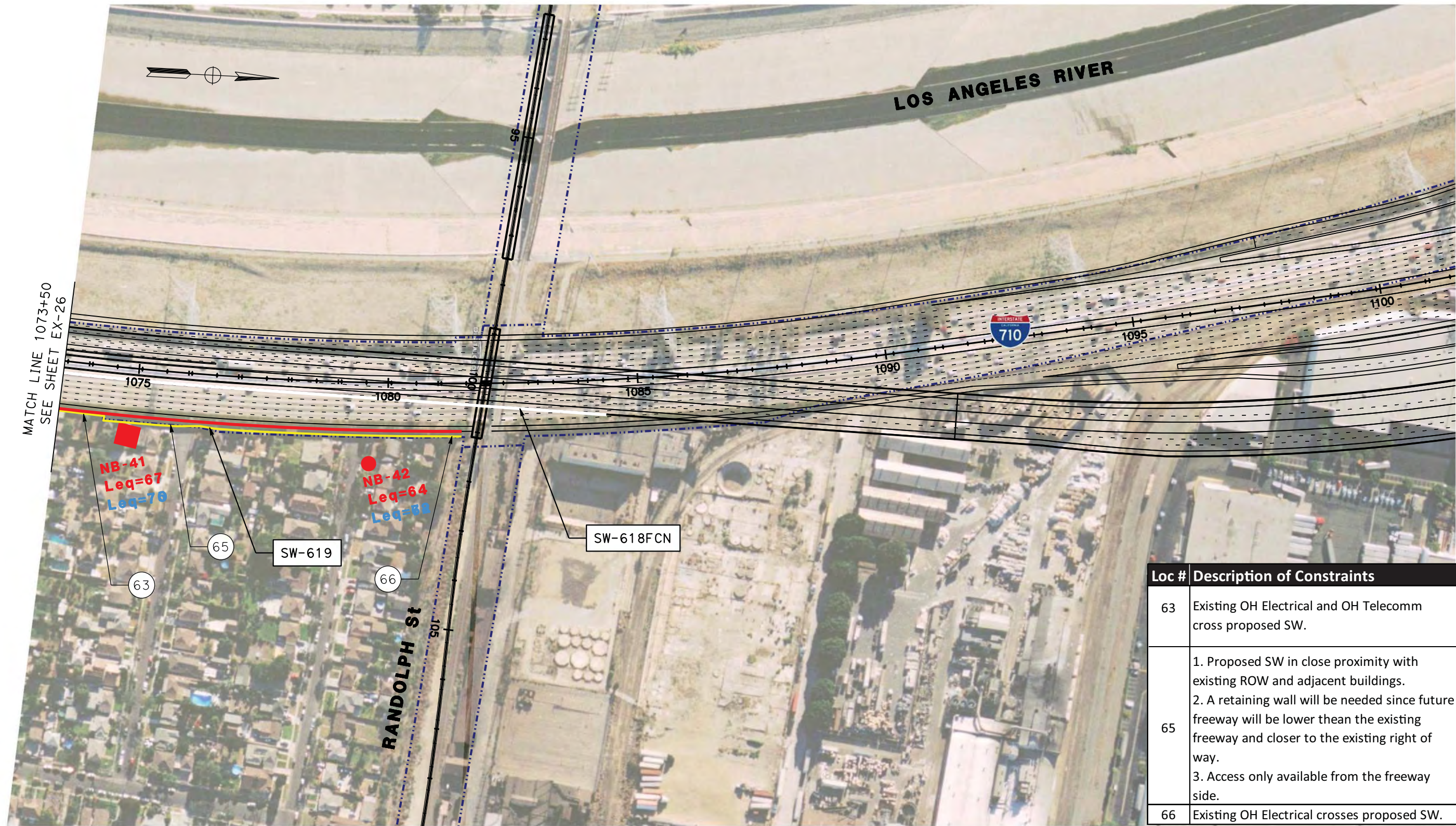
- PROPOSED WALLS
 - - - PROPOSED ALTERNATIVE WALL LOCATIONS
 - WALLS NOT FEASIBLE FOR EARLY ACTION
 - EXISTING WALLS
 - EXISTING WALLS TO BE IMPROVED
 - FUTURE WALLS TO BE IMPROVED
 - - - EXISTING RIGHT OF WAY
-
- **Leq=**** EXISTING NOISE LEVEL IN dB
 - **Leq=**** FUTURE UNABATED NOISE LEVEL IN dB
 - 10-MINUTE NOISE MEASUREMENT
 - 24-HOUR MEASUREMENT SITE
 - ▲ MODELED SITE
 - # CONSTRAINT LOCATION



EXHIBIT 26

SW-618, SW-618FCN, SW-618FCS, & SW-619
I-710 CORRIDOR PROJECT - SOUND WALL FEASIBILITY STUDY

SEPTEMBER 2012



MATCH LINE 1073+50
SEE SHEET EX-26

Loc #	Description of Constraints
63	Existing OH Electrical and OH Telecomm cross proposed SW.
65	1. Proposed SW in close proximity with existing ROW and adjacent buildings. 2. A retaining wall will be needed since future freeway will be lower than the existing freeway and closer to the existing right of way. 3. Access only available from the freeway side.
66	Existing OH Electrical crosses proposed SW.

LEGEND:

- PROPOSED WALLS
 - - - PROPOSED ALTERNATIVE WALL LOCATIONS
 - WALLS NOT FEASIBLE FOR EARLY ACTION
 - EXISTING WALLS
 - EXISTING WALLS TO BE IMPROVED
 - FUTURE WALLS TO BE IMPROVED
 - · - · - EXISTING RIGHT OF WAY
-
- **Leq=**** EXISTING NOISE LEVEL IN dB
 - **Leq=**** FUTURE UNABATED NOISE LEVEL IN dB
 - 10-MINUTE NOISE MEASUREMENT
 - 24-HOUR MEASUREMENT SITE
 - ▲ MODELED SITE
 - # CONSTRAINT LOCATION

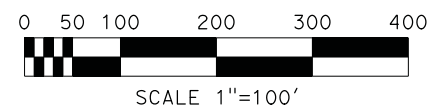
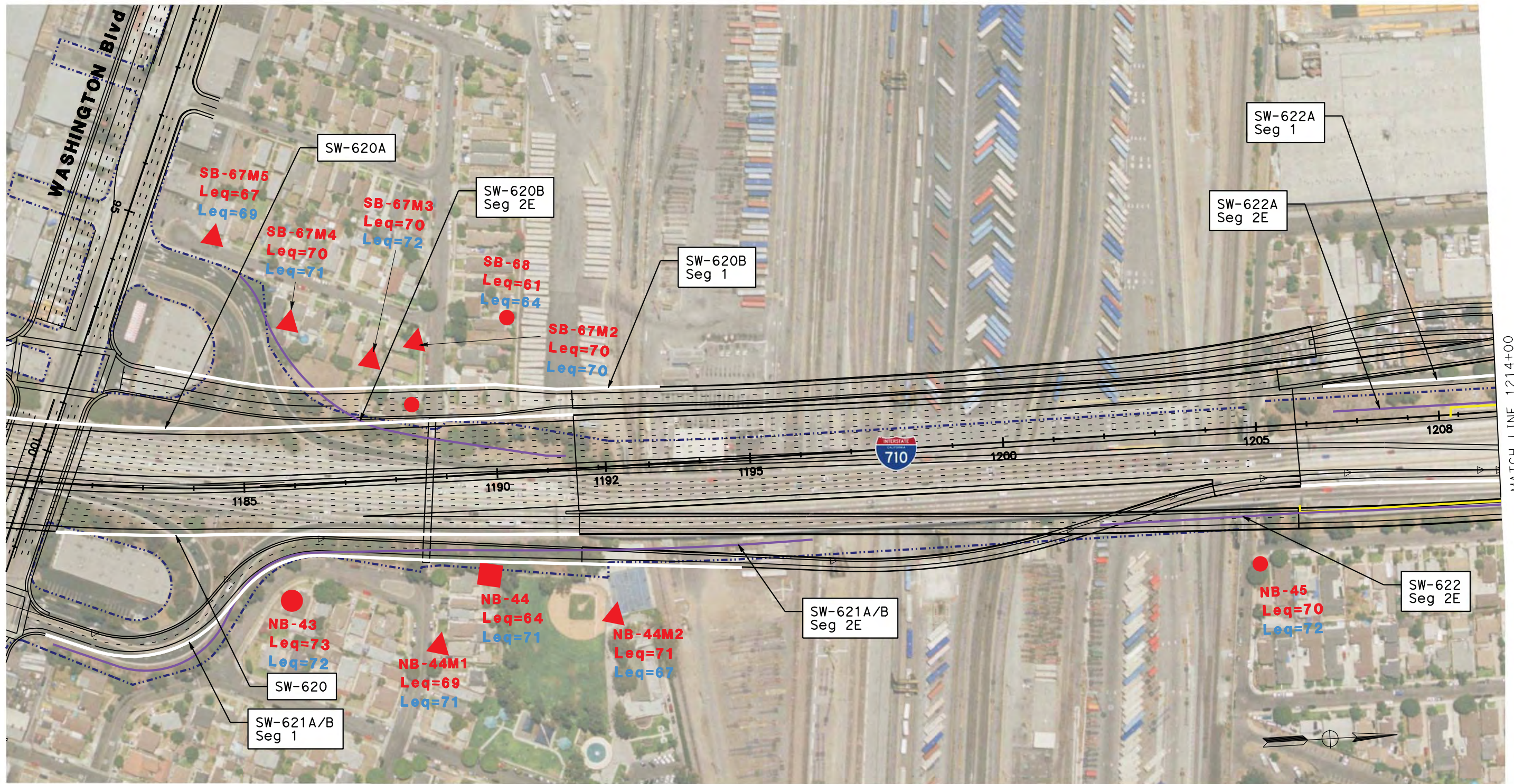


EXHIBIT 27

SW-619

I-710 CORRIDOR PROJECT - SOUND WALL FEASIBILITY STUDY

SEPTEMBER 2012



MATCH LINE 1214+00
SEE SHEET EX-29

LEGEND:

- PROPOSED WALLS
 - - - PROPOSED ALTERNATIVE WALL LOCATIONS
 - WALLS NOT FEASIBLE FOR EARLY ACTION
 - EXISTING WALLS
 - EXISTING WALLS TO BE IMPROVED
 - FUTURE WALLS TO BE IMPROVED
 - - - EXISTING RIGHT OF WAY
-
- Leq=** EXISTING NOISE LEVEL IN dB
 - Leq=** FUTURE UNABATED NOISE LEVEL IN dB
 - 10-MINUTE NOISE MEASUREMENT
 - 24-HOUR MEASUREMENT SITE
 - ▲ MODELED SITE
 - # CONSTRAINT LOCATION

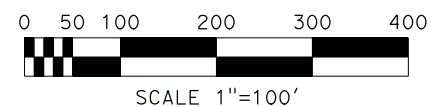


EXHIBIT 28

SW-620, SW-620A, SW-620B, SW-621, SW-621B, SW-622, & SW-622A

I-710 CORRIDOR PROJECT - SOUND WALL FEASIBILITY STUDY

SEPTEMBER 2012



LEGEND:

- PROPOSED WALLS
 - - - PROPOSED ALTERNATIVE WALL LOCATIONS
 - WALLS NOT FEASIBLE FOR EARLY ACTION
 - EXISTING WALLS
 - EXISTING WALLS TO BE IMPROVED
 - FUTURE WALLS TO BE IMPROVED
 - - - EXISTING RIGHT OF WAY
-
- Leq=** EXISTING NOISE LEVEL IN dB
 - Leq=** FUTURE UNABATED NOISE LEVEL IN dB
 - 10-MINUTE NOISE MEASUREMENT
 - 24-HOUR MEASUREMENT SITE
 - ▲ MODELED SITE
 - # CONSTRAINT LOCATION

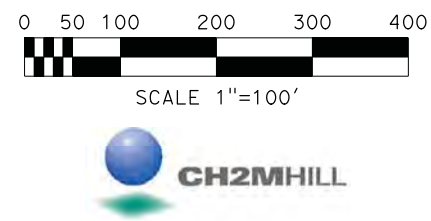
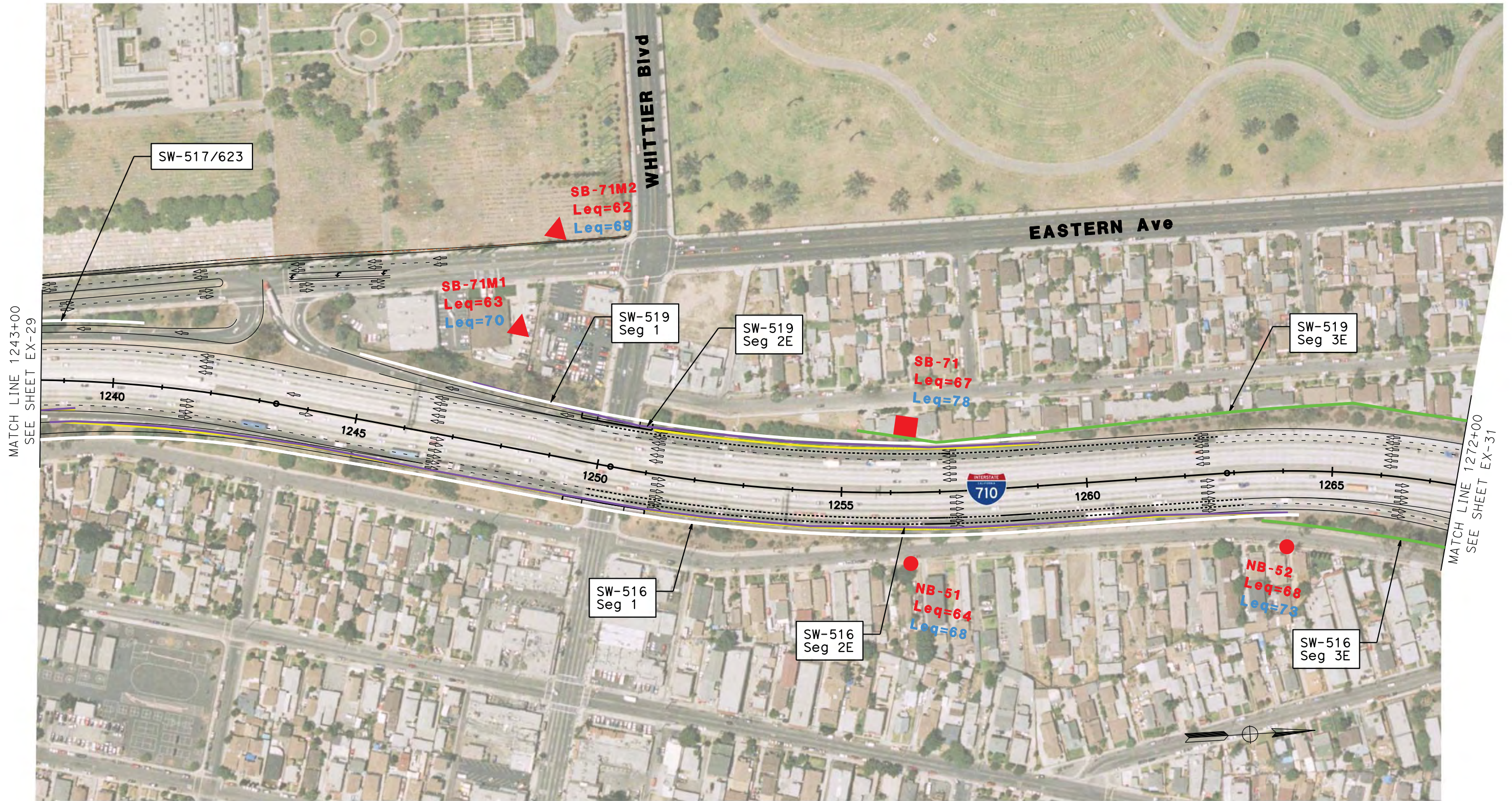


EXHIBIT 29

SW-622 (Option M), SW-622A, SW-622B, SW-515, & SW-517/623

I-710 CORRIDOR PROJECT - SOUND WALL FEASIBILITY STUDY

SEPTEMBER 2012



LEGEND:

- PROPOSED WALLS
 - - - PROPOSED ALTERNATIVE WALL LOCATIONS
 - WALLS NOT FEASIBLE FOR EARLY ACTION
 - EXISTING WALLS
 - EXISTING WALLS TO BE IMPROVED
 - FUTURE WALLS TO BE IMPROVED
 - - - EXISTING RIGHT OF WAY
-
- Leq=** EXISTING NOISE LEVEL IN dB
 - Leq=** FUTURE UNABATED NOISE LEVEL IN dB
 - 10-MINUTE NOISE MEASUREMENT
 - 24-HOUR MEASUREMENT SITE
 - ▲ MODELED SITE
 - # CONSTRAINT LOCATION

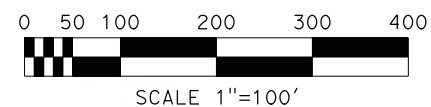


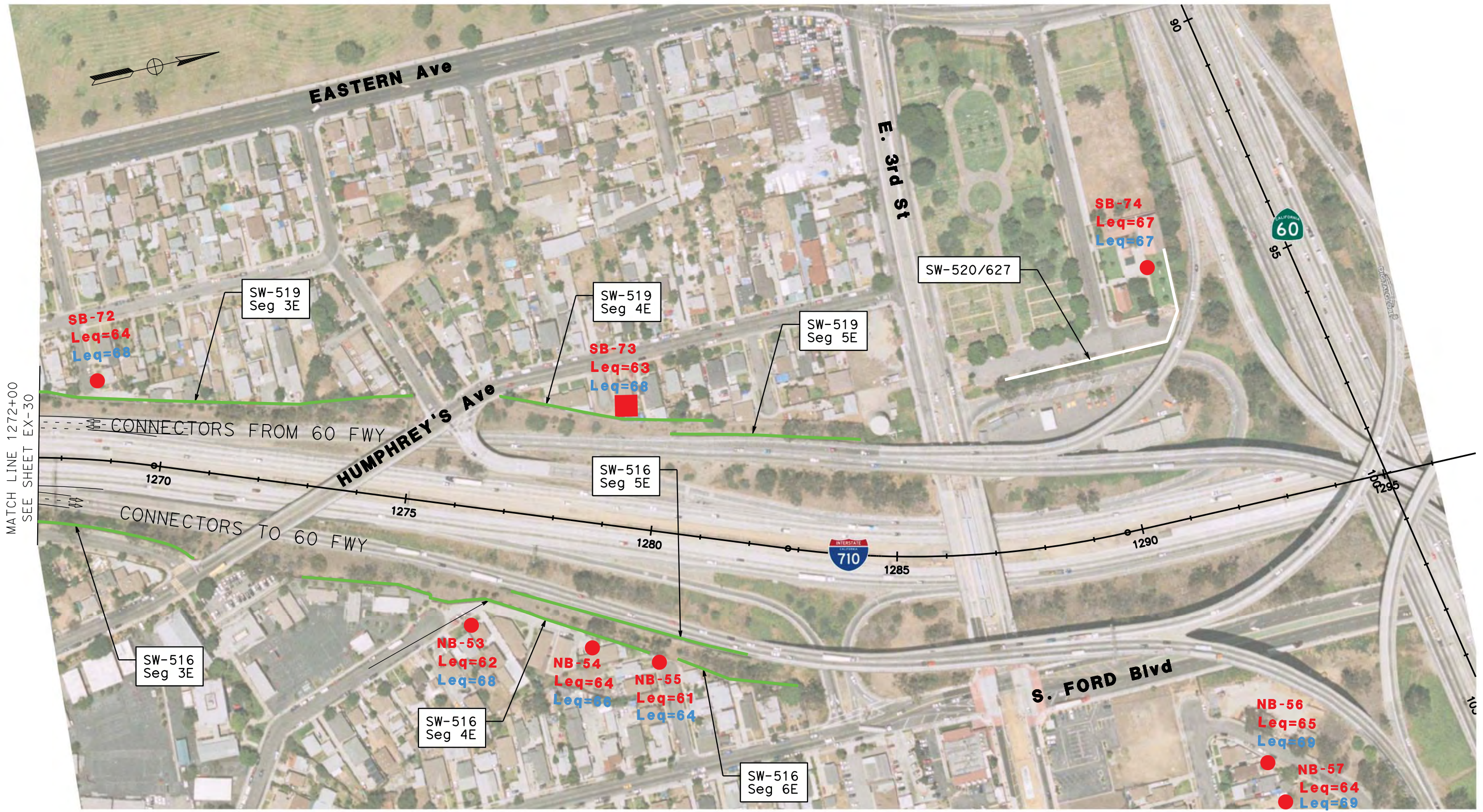
EXHIBIT 30

SW-517/623 & SW-518/624

I-710 CORRIDOR PROJECT - SOUND WALL FEASIBILITY STUDY

SEPTEMBER 2012

EX-30



LEGEND:

- PROPOSED WALLS
 - - - PROPOSED ALTERNATIVE WALL LOCATIONS
 - WALLS NOT FEASIBLE FOR EARLY ACTION
 - EXISTING WALLS
 - EXISTING WALLS TO BE IMPROVED
 - FUTURE WALLS TO BE IMPROVED
 - - - EXISTING RIGHT OF WAY
-
- Leq=** EXISTING NOISE LEVEL IN dB
 - Leq=** FUTURE UNABATED NOISE LEVEL IN dB
 - 10-MINUTE NOISE MEASUREMENT
 - 24-HOUR MEASUREMENT SITE
 - ▲ MODELED SITE
 - # CONSTRAINT LOCATION

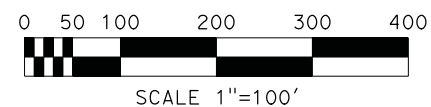


EXHIBIT 31

SW-516, SW-519, & SW-520/627

I-710 CORRIDOR PROJECT - SOUND WALL FEASIBILITY STUDY

SEPTEMBER 2012