

RESULTS: SOUND-LEVEL DIAGNOSIS BY BARRIER SEGMENT
I-20 Widening

ICA Engineering			20 April 2015		
Will Kerr/Wayne Hall			TNM 2.5		
RESULTS: SOUND-LEVEL DIAGNOSIS BY BARRIER SEGMENT			Calculated with TNM 2.5		
PROJECT/CONTRACT:			I-20 Widening		
RUN:			2037 SC 6 to Longs Pond Road - Wall 1		
BARRIER DESIGN:			INPUT HEIGHTS		
ATMOSPHERICS:			68 deg F, 50% RH		
Selected Receivers					
Name	No.	Total	Important Barriers	Important Segments	
		LAeq1h		Name	No.
		dBA			Partial LAeq1h dBA
Receiver205	205	62.90	Wall 1	257+50.00	62 53.70
			Wall 1	258+50.00	63 53.40
			Wall 1	256+50.00	61 49.30
			Wall 1	259+50.00	64 48.80
			Wall 1	255+50.00	60 46.30
			Wall 1	254+50.00	59 45.70
			Wall 1	260+50.00	65 45.60
			Wall 1	261+50.00	66 44.00
			Wall 1	262+50.00	67 38.00
			Wall 1	250+50.00	55 35.70
Receiver206	206	61.40	Wall 1	255+50.00	60 54.30
			Wall 1	254+50.00	59 53.60
			Wall 1	256+50.00	61 51.10
			Wall 1	253+50.00	58 49.30
			Wall 1	250+50.00	55 47.50
			Wall 1	249+50.00	54 46.70
			Wall 1	248+50.00	53 43.80
			Wall 1	260+50.00	65 42.70
			Wall 1	257+50.00	62 40.80
			Wall 1	261+50.00	66 39.60

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Receiver207	207	56.30	Wall 1	252+50.00	57	44.40
			Wall 1	251+50.00	56	43.70
			Wall 1	253+50.00	58	43.00
			Wall 1	250+50.00	55	42.80
			Wall 1	249+50.00	54	42.40
			Wall 1	254+50.00	59	41.80
			Wall 1	248+50.00	53	41.70
			Wall 1	255+50.00	60	41.00
			Wall 1	247+50.00	52	40.80
			Wall 1	243+50.00	48	40.60
Receiver208	208	56.00	Wall 1	252+50.00	57	43.60
			Wall 1	251+50.00	56	43.00
			Wall 1	248+50.00	53	42.30
			Wall 1	247+50.00	52	42.20
			Wall 1	249+50.00	54	42.00
			Wall 1	253+50.00	58	41.70
			Wall 1	246+50.00	51	41.70
			Wall 1	243+50.00	48	41.50
			Wall 1	250+50.00	55	41.40
			Wall 1	244+50.00	49	41.30
Receiver209	209	55.70	Wall 1	252+50.00	57	43.00
			Wall 1	251+50.00	56	42.20
			Wall 1	247+50.00	52	41.80
			Wall 1	243+50.00	48	41.70
			Wall 1	246+50.00	51	41.60
			Wall 1	248+50.00	53	41.50
			Wall 1	244+50.00	49	41.40
			Wall 1	245+50.00	50	41.20
			Wall 1	253+50.00	58	41.00
			Wall 1	242+50.00	47	41.00
Receiver210	210	55.80	Wall 1	252+50.00	57	43.20
			Wall 1	243+50.00	48	42.90
			Wall 1	244+50.00	49	42.60
			Wall 1	246+50.00	51	42.40
			Wall 1	251+50.00	56	42.40
			Wall 1	245+50.00	50	42.30

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			Wall 1	242+50.00	47	42.20
			Wall 1	247+50.00	52	42.20
			Wall 1	248+50.00	53	41.70
			Wall 1	241+50.00	46	41.00
Receiver211	211	55.50	Wall 1	243+50.00	48	43.10
			Wall 1	242+50.00	47	43.10
			Wall 1	252+50.00	57	43.00
			Wall 1	241+50.00	46	42.40
			Wall 1	256+50.00	61	42.30
			Wall 1	244+50.00	49	42.10
			Wall 1	251+50.00	56	41.50
			Wall 1	257+50.00	62	41.40
			Wall 1	240+50.00	45	41.30
			Wall 1	245+50.00	50	41.10
Receiver212	212	56.20	Wall 1	243+50.00	48	44.60
			Wall 1	252+50.00	57	44.50
			Wall 1	242+50.00	47	44.40
			Wall 1	241+50.00	46	43.60
			Wall 1	244+50.00	49	43.50
			Wall 1	251+50.00	56	42.90
			Wall 1	245+50.00	50	42.50
			Wall 1	255+50.00	60	42.30
			Wall 1	240+50.00	45	42.20
			Wall 1	246+50.00	51	41.90
Receiver213	213	57.50	Wall 1	243+50.00	48	47.50
			Wall 1	244+50.00	49	46.90
			Wall 1	252+50.00	57	46.80
			Wall 1	251+50.00	56	46.80
			Wall 1	242+50.00	47	46.70
			Wall 1	245+50.00	50	46.00
			Wall 1	241+50.00	46	45.30
			Wall 1	246+50.00	51	45.20
			Wall 1	247+50.00	52	44.30
			Wall 1	240+50.00	45	43.50
Receiver214	214	55.90	Wall 1	252+50.00	57	47.60
			Wall 1	251+50.00	56	43.90

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			Wall 1	242+50.00	47	43.50
			Wall 1	241+50.00	46	43.50
			Wall 1	240+50.00	45	43.00
			Wall 1	243+50.00	48	42.80
			Wall 1	239+50.00	44	42.00
			Wall 1	244+50.00	49	41.30
			Wall 1	262+50.00	67	41.20
			Wall 1	238+50.00	43	40.90
Receiver215	215	57.10	Wall 1	251+50.00	56	49.50
			Wall 1	252+50.00	57	45.40
			Wall 1	242+50.00	47	45.30
			Wall 1	241+50.00	46	45.20
			Wall 1	240+50.00	45	44.70
			Wall 1	243+50.00	48	44.30
			Wall 1	239+50.00	44	43.70
			Wall 1	244+50.00	49	42.50
			Wall 1	238+50.00	43	42.50
			Wall 1	245+50.00	50	41.60
Receiver218	218	57.10	Wall 1	232+50.00	37	47.00
			Wall 1	233+50.00	38	46.80
			Wall 1	231+50.00	36	45.90
			Wall 1	234+50.00	39	45.40
			Wall 1	230+50.00	35	44.90
			Wall 1	239+50.00	44	44.80
			Wall 1	238+50.00	43	43.90
			Wall 1	235+50.00	40	43.90
			Wall 1	229+50.00	34	43.80
			Wall 1	240+50.00	45	43.70
Receiver219	219	56.20	Wall 1	219+50.00	24	45.50
			Wall 1	218+50.00	23	45.20
			Wall 1	220+50.00	25	45.10
			Wall 1	217+50.00	22	44.20
			Wall 1	221+50.00	26	44.10
			Wall 1	216+50.00	21	43.20
			Wall 1	222+50.00	27	43.10
			Wall 1	206+50.00	11	42.40

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			Wall 1	215+50.00	20	42.10
			Wall 1	205+50.00	10	41.90
Receiver255	223	56.10	Wall 1	252+50.00	57	44.10
			Wall 1	251+50.00	56	43.30
			Wall 1	253+50.00	58	42.80
			Wall 1	250+50.00	55	42.40
			Wall 1	249+50.00	54	42.00
			Wall 1	254+50.00	59	41.50
			Wall 1	248+50.00	53	41.40
			Wall 1	255+50.00	60	40.80
			Wall 1	247+50.00	52	40.60
			Wall 1	256+50.00	61	40.20
Receiver256	224	56.10	Wall 1	252+50.00	57	44.30
			Wall 1	251+50.00	56	43.80
			Wall 1	250+50.00	55	42.80
			Wall 1	249+50.00	54	42.70
			Wall 1	253+50.00	58	42.60
			Wall 1	248+50.00	53	42.20
			Wall 1	247+50.00	52	41.50
			Wall 1	254+50.00	59	41.30
			Wall 1	243+50.00	48	40.80
			Wall 1	246+50.00	51	40.60
Receiver257	225	56.40	Wall 1	252+50.00	57	44.90
			Wall 1	251+50.00	56	44.50
			Wall 1	249+50.00	54	43.70
			Wall 1	250+50.00	55	43.50
			Wall 1	248+50.00	53	43.30
			Wall 1	253+50.00	58	42.70
			Wall 1	247+50.00	52	42.60
			Wall 1	246+50.00	51	41.60
			Wall 1	243+50.00	48	41.60
			Wall 1	254+50.00	59	41.20
Receiver258	226	56.40	Wall 1	252+50.00	57	45.00
			Wall 1	251+50.00	56	44.80
			Wall 1	249+50.00	54	44.20
			Wall 1	248+50.00	53	44.10

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I-20 Widening

			Wall 1	250+50.00	55	43.70
			Wall 1	247+50.00	52	43.50
			Wall 1	253+50.00	58	42.60
			Wall 1	246+50.00	51	42.50
			Wall 1	243+50.00	48	42.30
			Wall 1	244+50.00	49	42.00
Receiver259	227	56.40	Wall 1	252+50.00	57	45.90
			Wall 1	251+50.00	56	45.70
			Wall 1	248+50.00	53	45.40
			Wall 1	249+50.00	54	45.10
			Wall 1	247+50.00	52	44.90
			Wall 1	250+50.00	55	44.30
			Wall 1	246+50.00	51	43.90
			Wall 1	243+50.00	48	43.50
			Wall 1	244+50.00	49	43.20
			Wall 1	253+50.00	58	43.00
Receiver260	228	58.80	Wall 1	244+50.00	49	49.80
			Wall 1	245+50.00	50	49.50
			Wall 1	243+50.00	48	49.50
			Wall 1	251+50.00	56	49.10
			Wall 1	246+50.00	51	48.50
			Wall 1	242+50.00	47	48.00
			Wall 1	247+50.00	52	47.00
			Wall 1	241+50.00	46	46.70
			Wall 1	248+50.00	53	45.70
			Wall 1	250+50.00	55	45.10
Receiver261	229	59.50	Wall 1	243+50.00	48	50.90
			Wall 1	244+50.00	49	50.70
			Wall 1	245+50.00	50	49.40
			Wall 1	242+50.00	47	49.30
			Wall 1	251+50.00	56	48.80
			Wall 1	246+50.00	51	48.00
			Wall 1	241+50.00	46	47.70
			Wall 1	250+50.00	55	46.70
			Wall 1	247+50.00	52	46.70
			Wall 1	248+50.00	53	45.60

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Receiver262	230	60.20	Wall 1	243+50.00	48	52.00
			Wall 1	244+50.00	49	51.00
			Wall 1	242+50.00	47	50.50
			Wall 1	245+50.00	50	48.80
			Wall 1	241+50.00	46	48.60
			Wall 1	249+50.00	54	48.00
			Wall 1	246+50.00	51	47.60
			Wall 1	250+50.00	55	47.10
			Wall 1	247+50.00	52	46.40
			Wall 1	240+50.00	45	46.00
Receiver263	231	60.10	Wall 1	243+50.00	48	52.70
			Wall 1	242+50.00	47	51.70
			Wall 1	244+50.00	49	50.40
			Wall 1	241+50.00	46	49.40
			Wall 1	245+50.00	50	48.50
			Wall 1	249+50.00	54	48.30
			Wall 1	248+50.00	53	48.00
			Wall 1	246+50.00	51	47.10
			Wall 1	240+50.00	45	46.80
			Wall 1	247+50.00	52	46.20
Receiver264	232	59.90	Wall 1	242+50.00	47	52.30
			Wall 1	243+50.00	48	52.20
			Wall 1	241+50.00	46	50.00
			Wall 1	244+50.00	49	49.40
			Wall 1	248+50.00	53	49.30
			Wall 1	245+50.00	50	47.70
			Wall 1	240+50.00	45	47.30
			Wall 1	249+50.00	54	46.70
			Wall 1	246+50.00	51	46.50
			Wall 1	247+50.00	52	45.90
Receiver265	233	59.70	Wall 1	242+50.00	47	51.60
			Wall 1	241+50.00	46	51.00
			Wall 1	243+50.00	48	50.00
			Wall 1	240+50.00	45	48.60
			Wall 1	248+50.00	53	48.50
			Wall 1	247+50.00	52	48.00

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			Wall 1	244+50.00	49	47.40
			Wall 1	239+50.00	44	46.40
			Wall 1	245+50.00	50	46.20
			Wall 1	246+50.00	51	45.50
Receiver266	234	58.80	Wall 1	242+50.00	47	49.50
			Wall 1	241+50.00	46	49.10
			Wall 1	243+50.00	48	48.50
			Wall 1	240+50.00	45	47.50
			Wall 1	249+50.00	54	47.30
			Wall 1	250+50.00	55	46.80
			Wall 1	244+50.00	49	46.30
			Wall 1	239+50.00	44	45.70
			Wall 1	245+50.00	50	45.20
			Wall 1	248+50.00	53	44.50
Receiver267	235	57.60	Wall 1	251+50.00	56	48.10
			Wall 1	242+50.00	47	47.40
			Wall 1	241+50.00	46	47.10
			Wall 1	243+50.00	48	46.60
			Wall 1	240+50.00	45	45.90
			Wall 1	244+50.00	49	44.80
			Wall 1	239+50.00	44	44.40
			Wall 1	250+50.00	55	43.90
			Wall 1	245+50.00	50	43.70
			Wall 1	238+50.00	43	42.90
Receiver268	236	58.10	Wall 1	251+50.00	56	49.20
			Wall 1	242+50.00	47	46.50
			Wall 1	241+50.00	46	46.20
			Wall 1	243+50.00	48	45.90
			Wall 1	240+50.00	45	45.20
			Wall 1	252+50.00	57	44.80
			Wall 1	244+50.00	49	44.30
			Wall 1	239+50.00	44	43.80
			Wall 1	245+50.00	50	43.10
			Wall 1	238+50.00	43	42.40
Receiver269	237	58.10	Wall 1	251+50.00	56	49.50
			Wall 1	242+50.00	47	47.80

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I-20 Widening

			Wall 1	243+50.00	48	47.70
			Wall 1	241+50.00	46	46.90
			Wall 1	252+50.00	57	46.10
			Wall 1	244+50.00	49	46.00
			Wall 1	240+50.00	45	45.10
			Wall 1	245+50.00	50	44.90
			Wall 1	246+50.00	51	44.00
			Wall 1	239+50.00	44	43.70
Receiver270	238	57.40	Wall 1	252+50.00	57	48.50
			Wall 1	242+50.00	47	46.60
			Wall 1	243+50.00	48	46.50
			Wall 1	251+50.00	56	46.40
			Wall 1	241+50.00	46	45.80
			Wall 1	244+50.00	49	44.90
			Wall 1	240+50.00	45	44.30
			Wall 1	245+50.00	50	43.90
			Wall 1	246+50.00	51	43.10
			Wall 1	239+50.00	44	42.90
Receiver271	239	56.40	Wall 1	243+50.00	48	45.10
			Wall 1	252+50.00	57	45.10
			Wall 1	242+50.00	47	44.90
			Wall 1	244+50.00	49	44.10
			Wall 1	241+50.00	46	44.00
			Wall 1	251+50.00	56	43.60
			Wall 1	245+50.00	50	43.20
			Wall 1	240+50.00	45	42.50
			Wall 1	246+50.00	51	42.50
			Wall 1	253+50.00	58	42.00
Receiver272	240	55.90	Wall 1	243+50.00	48	44.20
			Wall 1	252+50.00	57	44.00
			Wall 1	242+50.00	47	44.00
			Wall 1	241+50.00	46	43.20
			Wall 1	244+50.00	49	43.20
			Wall 1	251+50.00	56	42.50
			Wall 1	245+50.00	50	42.20
			Wall 1	240+50.00	45	41.80

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			Wall 1	246+50.00	51	41.60
			Wall 1	257+50.00	62	41.10
Receiver273	241	55.80	Wall 1	243+50.00	48	43.80
			Wall 1	252+50.00	57	43.50
			Wall 1	242+50.00	47	43.30
			Wall 1	244+50.00	49	43.30
			Wall 1	245+50.00	50	42.70
			Wall 1	246+50.00	51	42.40
			Wall 1	251+50.00	56	42.40
			Wall 1	241+50.00	46	42.20
			Wall 1	247+50.00	52	41.80
			Wall 1	248+50.00	53	41.10
Receiver274	242	55.60	Wall 1	243+50.00	48	43.20
			Wall 1	252+50.00	57	42.80
			Wall 1	242+50.00	47	42.80
			Wall 1	244+50.00	49	42.50
			Wall 1	245+50.00	50	41.90
			Wall 1	251+50.00	56	41.70
			Wall 1	241+50.00	46	41.70
			Wall 1	246+50.00	51	41.60
			Wall 1	247+50.00	52	41.10
			Wall 1	248+50.00	53	40.40
Receiver275	243	55.60	Wall 1	252+50.00	57	42.70
			Wall 1	243+50.00	48	42.50
			Wall 1	244+50.00	49	42.20
			Wall 1	251+50.00	56	42.00
			Wall 1	246+50.00	51	42.00
			Wall 1	242+50.00	47	41.90
			Wall 1	245+50.00	50	41.90
			Wall 1	247+50.00	52	41.70
			Wall 1	248+50.00	53	41.20
			Wall 1	241+50.00	46	40.70
Receiver276	244	55.30	Wall 1	252+50.00	57	42.20
			Wall 1	243+50.00	48	42.00
			Wall 1	244+50.00	49	41.60
			Wall 1	242+50.00	47	41.40

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		Wall 1	251+50.00	56	41.30
		Wall 1	246+50.00	51	41.20
		Wall 1	245+50.00	50	41.20
		Wall 1	247+50.00	52	41.00
		Wall 1	248+50.00	53	40.50
		Wall 1	241+50.00	46	40.30