

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

ICA Engineeringiing				20 April 2015		
Will Kerr/Wayne Hall				TNM 2.5		
				Calculated with TNM 2.5		
RESULTS: SOUND-LEVEL DIAGNOSIS BY BARRIER SEGMENT						
PROJECT/CONTRACT:	I-20 Widening					
RUN:	2037 SC 6 to Longs Pond Road - Wall 4					
BARRIER DESIGN:	INPUT HEIGHTS					
ATMOSPHERICS:	68 deg F, 50% RH					
Selected Receivers						
Name	No.	Total	Important Barriers	Important Segments		
		LAeq1h	Name	Name	No.	Partial
						LAeq1h
		dBA				dBA
Receiver9	9	56.00	Wall 4	778+50.00	32	45.50
			Wall 4	777+50.00	31	45.10
			Wall 4	779+50.00	33	44.70
			Wall 4	776+50.00	30	44.50
			Wall 4	780+50.00	34	43.40
			Wall 4	775+50.00	29	42.80
			Wall 4	781+50.00	35	42.60
			Wall 4	786+50.00	40	42.00
			Wall 4	782+50.00	36	41.80
			Wall 4	787+50.00	41	41.60
Receiver10	10	57.20	Wall 4	778+50.00	32	47.40
			Wall 4	777+50.00	31	47.00
			Wall 4	779+50.00	33	46.40
			Wall 4	776+50.00	30	46.20
			Wall 4	780+50.00	34	45.00
			Wall 4	775+50.00	29	44.00
			Wall 4	781+50.00	35	44.00
			Wall 4	786+50.00	40	43.20
			Wall 4	787+50.00	41	43.00
			Wall 4	782+50.00	36	42.90

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Receiver13	13	61.20	Wall 4	776+50.00	30	57.00
			Wall 4	775+50.00	29	52.00
			Wall 4	777+50.00	31	51.80
			Wall 4	778+50.00	32	48.20
			Wall 4	780+50.00	34	46.40
			Wall 4	786+50.00	40	45.60
			Wall 4	774+50.00	28	45.40
			Wall 4	781+50.00	35	45.30
			Wall 4	785+50.00	39	44.90
			Wall 4	752+50.00	6	44.60
Receiver14	14	59.70	Wall 4	776+50.00	30	52.90
			Wall 4	777+50.00	31	51.10
			Wall 4	775+50.00	29	49.90
			Wall 4	778+50.00	32	48.60
			Wall 4	786+50.00	40	46.60
			Wall 4	779+50.00	33	46.10
			Wall 4	774+50.00	28	45.80
			Wall 4	780+50.00	34	45.60
			Wall 4	752+50.00	6	44.70
			Wall 4	781+50.00	35	44.50
Receiver15	15	56.80	Wall 4	775+50.00	29	46.00
			Wall 4	776+50.00	30	45.80
			Wall 4	774+50.00	28	45.10
			Wall 4	777+50.00	31	45.00
			Wall 4	778+50.00	32	44.20
			Wall 4	773+50.00	27	43.90
			Wall 4	772+50.00	26	42.90
			Wall 4	779+50.00	33	42.70
			Wall 4	751+50.00	5	42.70
			Wall 4	771+50.00	25	42.50
Receiver17	17	56.10	Wall 4	771+50.00	25	45.10
			Wall 4	772+50.00	26	44.90
			Wall 4	770+50.00	24	44.60
			Wall 4	773+50.00	27	44.30
			Wall 4	769+50.00	23	43.30
			Wall 4	774+50.00	28	43.20

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			Wall 4	751+50.00	5	43.00
			Wall 4	752+50.00	6	42.80
			Wall 4	775+50.00	29	42.00
			Wall 4	768+50.00	22	41.70
Receiver221	221	58.20	Wall 4	768+50.00	22	48.70
			Wall 4	769+50.00	23	48.60
			Wall 4	752+50.00	6	47.00
			Wall 4	770+50.00	24	46.90
			Wall 4	767+50.00	21	46.80
			Wall 4	751+50.00	5	46.80
			Wall 4	766+50.00	20	45.00
			Wall 4	771+50.00	25	44.70
			Wall 4	765+50.00	19	43.60
			Wall 4	772+50.00	26	43.40
Receiver222	222	57.90	Wall 4	768+50.00	22	47.80
			Wall 4	769+50.00	23	47.20
			Wall 4	767+50.00	21	46.80
			Wall 4	751+50.00	5	46.80
			Wall 4	752+50.00	6	46.50
			Wall 4	770+50.00	24	45.80
			Wall 4	766+50.00	20	45.40
			Wall 4	765+50.00	19	44.20
			Wall 4	771+50.00	25	43.80
			Wall 4	764+50.00	18	43.10
Receiver223	223	58.00	Wall 4	768+50.00	22	47.80
			Wall 4	767+50.00	21	47.40
			Wall 4	751+50.00	5	47.10
			Wall 4	769+50.00	23	46.80
			Wall 4	752+50.00	6	46.70
			Wall 4	766+50.00	20	46.10
			Wall 4	770+50.00	24	45.20
			Wall 4	765+50.00	19	44.90
			Wall 4	764+50.00	18	43.80
			Wall 4	763+50.00	17	43.20
Receiver224	224	57.80	Wall 4	767+50.00	21	46.90
			Wall 4	768+50.00	22	46.80

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			Wall 4	751+50.00	5	46.60
			Wall 4	752+50.00	6	46.20
			Wall 4	766+50.00	20	46.20
			Wall 4	769+50.00	23	45.80
			Wall 4	765+50.00	19	45.20
			Wall 4	770+50.00	24	44.40
			Wall 4	764+50.00	18	44.30
			Wall 4	763+50.00	17	43.70
Receiver225	225	57.60	Wall 4	767+50.00	21	46.60
			Wall 4	766+50.00	20	46.20
			Wall 4	751+50.00	5	46.20
			Wall 4	768+50.00	22	46.10
			Wall 4	752+50.00	6	46.00
			Wall 4	765+50.00	19	45.50
			Wall 4	769+50.00	23	44.90
			Wall 4	764+50.00	18	44.70
			Wall 4	763+50.00	17	44.10
			Wall 4	770+50.00	24	43.50
Receiver226	226	57.40	Wall 4	767+50.00	21	46.20
			Wall 4	766+50.00	20	46.10
			Wall 4	751+50.00	5	45.80
			Wall 4	765+50.00	19	45.50
			Wall 4	752+50.00	6	45.40
			Wall 4	768+50.00	22	45.40
			Wall 4	764+50.00	18	44.90
			Wall 4	763+50.00	17	44.40
			Wall 4	769+50.00	23	44.20
			Wall 4	762+50.00	16	43.40
Receiver227	227	57.40	Wall 4	766+50.00	20	46.00
			Wall 4	751+50.00	5	46.00
			Wall 4	767+50.00	21	45.80
			Wall 4	765+50.00	19	45.80
			Wall 4	752+50.00	6	45.40
			Wall 4	764+50.00	18	45.20
			Wall 4	763+50.00	17	44.90
			Wall 4	768+50.00	22	44.80

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			Wall 4	762+50.00	16	43.80
			Wall 4	769+50.00	23	43.50
Receiver228	228	57.20	Wall 4	751+50.00	5	46.00
			Wall 4	765+50.00	19	45.60
			Wall 4	766+50.00	20	45.40
			Wall 4	764+50.00	18	45.40
			Wall 4	763+50.00	17	45.30
			Wall 4	767+50.00	21	44.90
			Wall 4	752+50.00	6	44.40
			Wall 4	762+50.00	16	44.30
			Wall 4	768+50.00	22	43.60
			Wall 4	769+50.00	23	42.20
Receiver229	229	56.50	Wall 4	763+50.00	17	45.10
			Wall 4	764+50.00	18	45.00
			Wall 4	765+50.00	19	44.90
			Wall 4	766+50.00	20	44.40
			Wall 4	762+50.00	16	44.20
			Wall 4	751+50.00	5	44.20
			Wall 4	767+50.00	21	43.60
			Wall 4	752+50.00	6	42.80
			Wall 4	761+50.00	15	42.20
			Wall 4	768+50.00	22	42.20
Receiver230	230	55.90	Wall 4	763+50.00	17	44.60
			Wall 4	764+50.00	18	44.20
			Wall 4	762+50.00	16	44.00
			Wall 4	765+50.00	19	43.80
			Wall 4	766+50.00	20	43.10
			Wall 4	751+50.00	5	42.70
			Wall 4	761+50.00	15	42.30
			Wall 4	767+50.00	21	42.30
			Wall 4	760+50.00	14	41.30
			Wall 4	752+50.00	6	41.10
Receiver231	231	55.00	Wall 4	763+50.00	17	43.50
			Wall 4	762+50.00	16	43.40
			Wall 4	764+50.00	18	42.70
			Wall 4	761+50.00	15	42.00

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			Wall 4	765+50.00	19	41.90
			Wall 4	760+50.00	14	41.10
			Wall 4	766+50.00	20	41.00
			Wall 4	751+50.00	5	40.70
			Wall 4	759+50.00	13	40.50
			Wall 4	767+50.00	21	40.00
Receiver232	232	57.90	Wall 4	762+50.00	16	48.60
			Wall 4	763+50.00	17	47.80
			Wall 4	761+50.00	15	47.40
			Wall 4	760+50.00	14	46.10
			Wall 4	764+50.00	18	46.00
			Wall 4	751+50.00	5	45.90
			Wall 4	759+50.00	13	45.10
			Wall 4	752+50.00	6	45.10
			Wall 4	765+50.00	19	44.20
			Wall 4	758+50.00	12	44.00
Receiver233	233	56.90	Wall 4	762+50.00	16	46.80
			Wall 4	761+50.00	15	46.20
			Wall 4	763+50.00	17	45.80
			Wall 4	760+50.00	14	45.60
			Wall 4	759+50.00	13	44.90
			Wall 4	751+50.00	5	44.00
			Wall 4	764+50.00	18	44.00
			Wall 4	758+50.00	12	44.00
			Wall 4	752+50.00	6	43.40
			Wall 4	757+50.00	11	42.80
Receiver234	234	56.10	Wall 4	762+50.00	16	45.10
			Wall 4	761+50.00	15	44.70
			Wall 4	760+50.00	14	44.30
			Wall 4	763+50.00	17	44.20
			Wall 4	759+50.00	13	44.00
			Wall 4	758+50.00	12	43.30
			Wall 4	751+50.00	5	42.60
			Wall 4	764+50.00	18	42.50
			Wall 4	757+50.00	11	42.30
			Wall 4	752+50.00	6	42.00

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Receiver235	235	56.30	Wall 4	770+50.00	24	45.80
			Wall 4	771+50.00	25	45.50
			Wall 4	769+50.00	23	45.00
			Wall 4	772+50.00	26	44.60
			Wall 4	751+50.00	5	43.70
			Wall 4	752+50.00	6	43.60
			Wall 4	768+50.00	22	43.50
			Wall 4	773+50.00	27	43.40
			Wall 4	774+50.00	28	41.60
			Wall 4	767+50.00	21	41.40
Receiver236	236	56.10	Wall 4	770+50.00	24	45.50
			Wall 4	769+50.00	23	45.00
			Wall 4	771+50.00	25	44.90
			Wall 4	772+50.00	26	43.90
			Wall 4	768+50.00	22	43.80
			Wall 4	751+50.00	5	43.40
			Wall 4	752+50.00	6	43.40
			Wall 4	773+50.00	27	42.70
			Wall 4	767+50.00	21	42.00
			Wall 4	774+50.00	28	40.90
Receiver237	237	56.10	Wall 4	770+50.00	24	45.10
			Wall 4	769+50.00	23	45.00
			Wall 4	771+50.00	25	44.30
			Wall 4	768+50.00	22	44.10
			Wall 4	751+50.00	5	43.40
			Wall 4	772+50.00	26	43.30
			Wall 4	752+50.00	6	43.10
			Wall 4	767+50.00	21	42.60
			Wall 4	773+50.00	27	42.00
			Wall 4	766+50.00	20	41.40
Receiver238	238	56.00	Wall 4	769+50.00	23	44.70
			Wall 4	770+50.00	24	44.60
			Wall 4	768+50.00	22	44.20
			Wall 4	771+50.00	25	43.60
			Wall 4	751+50.00	5	43.50
			Wall 4	767+50.00	21	43.00

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			Wall 4	752+50.00	6	42.80
			Wall 4	772+50.00	26	42.70
			Wall 4	766+50.00	20	41.90
			Wall 4	773+50.00	27	41.40
Receiver239	239	55.60	Wall 4	768+50.00	22	43.40
			Wall 4	767+50.00	21	43.30
			Wall 4	769+50.00	23	43.10
			Wall 4	766+50.00	20	42.80
			Wall 4	751+50.00	5	42.70
			Wall 4	770+50.00	24	42.50
			Wall 4	765+50.00	19	42.30
			Wall 4	764+50.00	18	41.90
			Wall 4	763+50.00	17	41.60
			Wall 4	771+50.00	25	41.30
Receiver240	240	55.30	Wall 4	767+50.00	21	42.80
			Wall 4	768+50.00	22	42.80
			Wall 4	766+50.00	20	42.60
			Wall 4	769+50.00	23	42.30
			Wall 4	765+50.00	19	42.20
			Wall 4	751+50.00	5	42.00
			Wall 4	764+50.00	18	41.80
			Wall 4	770+50.00	24	41.70
			Wall 4	763+50.00	17	41.50
			Wall 4	762+50.00	16	40.70
Receiver241	241	55.00	Wall 4	766+50.00	20	42.30
			Wall 4	767+50.00	21	42.30
			Wall 4	765+50.00	19	42.20
			Wall 4	763+50.00	17	42.00
			Wall 4	764+50.00	18	42.00
			Wall 4	768+50.00	22	41.90
			Wall 4	751+50.00	5	41.60
			Wall 4	769+50.00	23	41.30
			Wall 4	762+50.00	16	41.20
			Wall 4	770+50.00	24	40.60
Receiver242	242	54.90	Wall 4	763+50.00	17	42.20
			Wall 4	765+50.00	19	42.10

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			Wall 4	764+50.00	18	42.10
			Wall 4	766+50.00	20	42.00
			Wall 4	767+50.00	21	41.80
			Wall 4	762+50.00	16	41.50
			Wall 4	768+50.00	22	41.20
			Wall 4	751+50.00	5	41.00
			Wall 4	769+50.00	23	40.50
			Wall 4	770+50.00	24	39.80
Receiver243	243	54.90	Wall 4	763+50.00	17	42.50
			Wall 4	764+50.00	18	42.20
			Wall 4	765+50.00	19	42.10
			Wall 4	762+50.00	16	41.90
			Wall 4	766+50.00	20	41.80
			Wall 4	767+50.00	21	41.40
			Wall 4	751+50.00	5	40.90
			Wall 4	768+50.00	22	40.70
			Wall 4	761+50.00	15	40.10
			Wall 4	769+50.00	23	39.90
Receiver244	244	54.60	Wall 4	763+50.00	17	42.40
			Wall 4	764+50.00	18	42.00
			Wall 4	762+50.00	16	41.90
			Wall 4	765+50.00	19	41.70
			Wall 4	766+50.00	20	41.30
			Wall 4	767+50.00	21	40.80
			Wall 4	761+50.00	15	40.30
			Wall 4	751+50.00	5	40.30
			Wall 4	768+50.00	22	39.90
			Wall 4	760+50.00	14	39.40
Receiver245	245	54.40	Wall 4	763+50.00	17	42.20
			Wall 4	762+50.00	16	41.80
			Wall 4	764+50.00	18	41.60
			Wall 4	765+50.00	19	41.20
			Wall 4	766+50.00	20	40.70
			Wall 4	761+50.00	15	40.30
			Wall 4	767+50.00	21	40.10
			Wall 4	751+50.00	5	39.80

Q:\planning\SC - I-20 Widening\I-20 Submittal Files\TNM Files\Wall4-Pleasant

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			Wall 4	760+50.00	14	39.50
			Wall 4	768+50.00	22	39.10
Receiver246	246	53.80	Wall 4	763+50.00	17	41.10
			Wall 4	762+50.00	16	41.10
			Wall 4	764+50.00	18	40.30
			Wall 4	761+50.00	15	39.90
			Wall 4	765+50.00	19	39.60
			Wall 4	760+50.00	14	39.10
			Wall 4	766+50.00	20	39.00
			Wall 4	759+50.00	13	38.70
			Wall 4	751+50.00	5	38.60
			Wall 4	767+50.00	21	38.20
Receiver247	247	53.40	Wall 4	762+50.00	16	40.20
			Wall 4	763+50.00	17	40.00
			Wall 4	761+50.00	15	39.20
			Wall 4	764+50.00	18	39.10
			Wall 4	760+50.00	14	38.60
			Wall 4	765+50.00	19	38.30
			Wall 4	759+50.00	13	38.30
			Wall 4	758+50.00	12	37.90
			Wall 4	751+50.00	5	37.80
			Wall 4	766+50.00	20	37.60
Receiver248	248	53.40	Wall 4	762+50.00	16	39.90
			Wall 4	763+50.00	17	39.60
			Wall 4	761+50.00	15	39.00
			Wall 4	764+50.00	18	38.60
			Wall 4	760+50.00	14	38.40
			Wall 4	759+50.00	13	38.20
			Wall 4	758+50.00	12	37.80
			Wall 4	765+50.00	19	37.80
			Wall 4	751+50.00	5	37.60
			Wall 4	757+50.00	11	37.30
Receiver249	249	53.30	Wall 4	762+50.00	16	39.40
			Wall 4	763+50.00	17	39.00
			Wall 4	761+50.00	15	38.70
			Wall 4	760+50.00	14	38.20

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			Wall 4	759+50.00	13	38.10
			Wall 4	764+50.00	18	38.00
			Wall 4	758+50.00	12	37.80
			Wall 4	751+50.00	5	37.40
			Wall 4	757+50.00	11	37.30
			Wall 4	765+50.00	19	37.20
Receiver250	250	54.50	Wall 4	762+50.00	16	42.40
			Wall 4	763+50.00	17	42.00
			Wall 4	761+50.00	15	41.50
			Wall 4	760+50.00	14	40.90
			Wall 4	764+50.00	18	40.80
			Wall 4	759+50.00	13	40.50
			Wall 4	758+50.00	12	40.00
			Wall 4	765+50.00	19	39.80
			Wall 4	751+50.00	5	39.70
			Wall 4	757+50.00	11	39.30
Receiver251	251	55.20	Wall 4	762+50.00	16	43.70
			Wall 4	763+50.00	17	43.20
			Wall 4	761+50.00	15	42.90
			Wall 4	760+50.00	14	42.30
			Wall 4	764+50.00	18	41.90
			Wall 4	759+50.00	13	41.80
			Wall 4	758+50.00	12	41.30
			Wall 4	751+50.00	5	41.00
			Wall 4	765+50.00	19	40.70
			Wall 4	757+50.00	11	40.50
Receiver252	253	57.00	Wall 4	763+50.00	17	46.80
			Wall 4	762+50.00	16	46.70
			Wall 4	764+50.00	18	45.70
			Wall 4	761+50.00	15	45.00
			Wall 4	751+50.00	5	44.60
			Wall 4	765+50.00	19	44.50
			Wall 4	760+50.00	14	43.90
			Wall 4	752+50.00	6	43.20
			Wall 4	766+50.00	20	43.10
			Wall 4	759+50.00	13	43.00