The attached information is provided to support the agency's review process and shall not be distributed to other parties without written consent from Bunt & Associates Engineering Ltd.

APPENDIX E

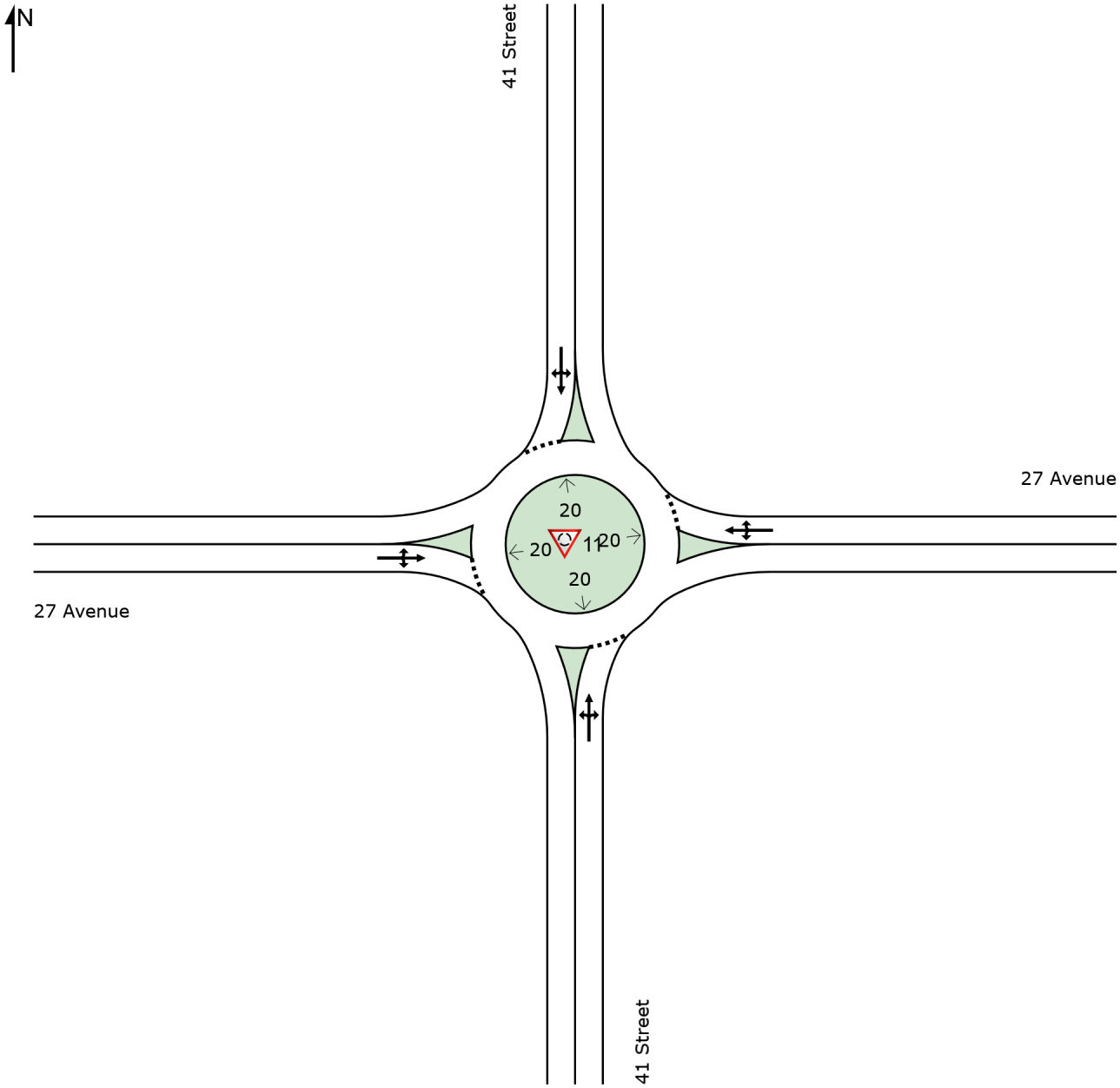
SIDRA Reports

SITE LAYOUT

Site: 11 [BG2045_27 Ave & 41 St_AM (Site Folder: 2045 Background Traffic)]

2045 Background Traffic
Site Category: G8
Roundabout

Layout pictures are schematic functional drawings reflecting input data. They are not design drawings.



MOVEMENT SUMMARY

Site: 11 [EX_27 Ave & 41 St_AM (Site Folder: Existing Traffic)]

Existing Traffic
Site Category: G8
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South: 41 Street														
1	L2	19	2.0	21	2.0	0.356	8.0	LOS A	2.5	17.9	0.36	0.41	0.36	48.1
2	T1	393	4.0	427	4.0	0.356	3.5	LOS A	2.5	17.9	0.36	0.41	0.36	47.9
3	R2	19	5.0	21	5.0	0.356	3.6	LOS A	2.5	17.9	0.36	0.41	0.36	46.8
Approach		431	4.0	468	4.0	0.356	3.7	LOS A	2.5	17.9	0.36	0.41	0.36	47.8
East: 27 Avenue														
4	L2	5	25.0	5	25.0	0.037	12.2	LOS B	0.2	1.6	0.60	0.62	0.60	52.7
5	T1	14	14.0	15	14.0	0.037	7.2	LOS A	0.2	1.6	0.60	0.62	0.60	53.4
6	R2	9	11.0	10	11.0	0.037	6.9	LOS A	0.2	1.6	0.60	0.62	0.60	52.1
Approach		28	15.0	30	15.0	0.037	8.0	LOS A	0.2	1.6	0.60	0.62	0.60	52.8
North: 41 Street														
7	L2	13	8.0	14	8.0	0.322	9.0	LOS A	2.2	15.5	0.20	0.43	0.20	55.6
8	T1	267	3.0	290	3.0	0.322	4.3	LOS A	2.2	15.5	0.20	0.43	0.20	55.9
9	R2	163	2.0	177	2.0	0.322	4.1	LOS A	2.2	15.5	0.20	0.43	0.20	54.6
Approach		443	2.8	482	2.8	0.322	4.4	LOS A	2.2	15.5	0.20	0.43	0.20	55.4
West: 27 Avenue														
10	L2	86	2.0	93	2.0	0.109	10.3	LOS B	0.6	4.1	0.46	0.65	0.46	52.4
11	T1	6	17.0	7	17.0	0.109	6.0	LOS A	0.6	4.1	0.46	0.65	0.46	52.1
12	R2	15	2.0	16	2.0	0.109	5.4	LOS A	0.6	4.1	0.46	0.65	0.46	51.3
Approach		107	2.8	116	2.8	0.109	9.4	LOS A	0.6	4.1	0.46	0.65	0.46	52.2
All Vehicles		1009	3.6	1097	3.6	0.356	4.7	LOS A	2.5	17.9	0.31	0.45	0.31	51.5

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

MOVEMENT SUMMARY

Site: 11 [EX_27 Ave & 41 St_PM (Site Folder: Existing Traffic)]

Existing Traffic
Site Category: G8
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South: 41 Street														
1	L2	34	2.0	37	2.0	0.327	8.3	LOS A	2.2	15.8	0.44	0.46	0.44	47.7
2	T1	316	2.0	340	2.0	0.327	3.8	LOS A	2.2	15.8	0.44	0.46	0.44	47.5
3	R2	21	2.0	23	2.0	0.327	3.9	LOS A	2.2	15.8	0.44	0.46	0.44	46.5
Approach		371	2.0	399	2.0	0.327	4.2	LOS A	2.2	15.8	0.44	0.46	0.44	47.5
East: 27 Avenue														
4	L2	7	2.0	8	2.0	0.043	11.3	LOS B	0.2	1.7	0.58	0.62	0.58	53.7
5	T1	14	2.0	15	2.0	0.043	6.7	LOS A	0.2	1.7	0.58	0.62	0.58	53.8
6	R2	15	2.0	16	2.0	0.043	6.5	LOS A	0.2	1.7	0.58	0.62	0.58	52.5
Approach		36	2.0	39	2.0	0.043	7.5	LOS A	0.2	1.7	0.58	0.62	0.58	53.3
North: 41 Street														
7	L2	5	2.0	5	2.0	0.505	9.2	LOS A	4.2	30.3	0.29	0.44	0.29	55.6
8	T1	351	2.0	377	2.0	0.505	4.5	LOS A	4.2	30.3	0.29	0.44	0.29	55.7
9	R2	342	2.0	368	2.0	0.505	4.3	LOS A	4.2	30.3	0.29	0.44	0.29	54.3
Approach		698	2.0	751	2.0	0.505	4.4	LOS A	4.2	30.3	0.29	0.44	0.29	55.0
West: 27 Avenue														
10	L2	132	2.0	142	2.0	0.185	10.9	LOS B	1.0	7.5	0.55	0.70	0.55	52.2
11	T1	22	9.0	24	9.0	0.185	6.4	LOS A	1.0	7.5	0.55	0.70	0.55	52.1
12	R2	17	2.0	18	2.0	0.185	6.0	LOS A	1.0	7.5	0.55	0.70	0.55	51.1
Approach		171	2.9	184	2.9	0.185	9.8	LOS A	1.0	7.5	0.55	0.70	0.55	52.1
All Vehicles		1276	2.1	1372	2.1	0.505	5.2	LOS A	4.2	30.3	0.38	0.48	0.38	52.1

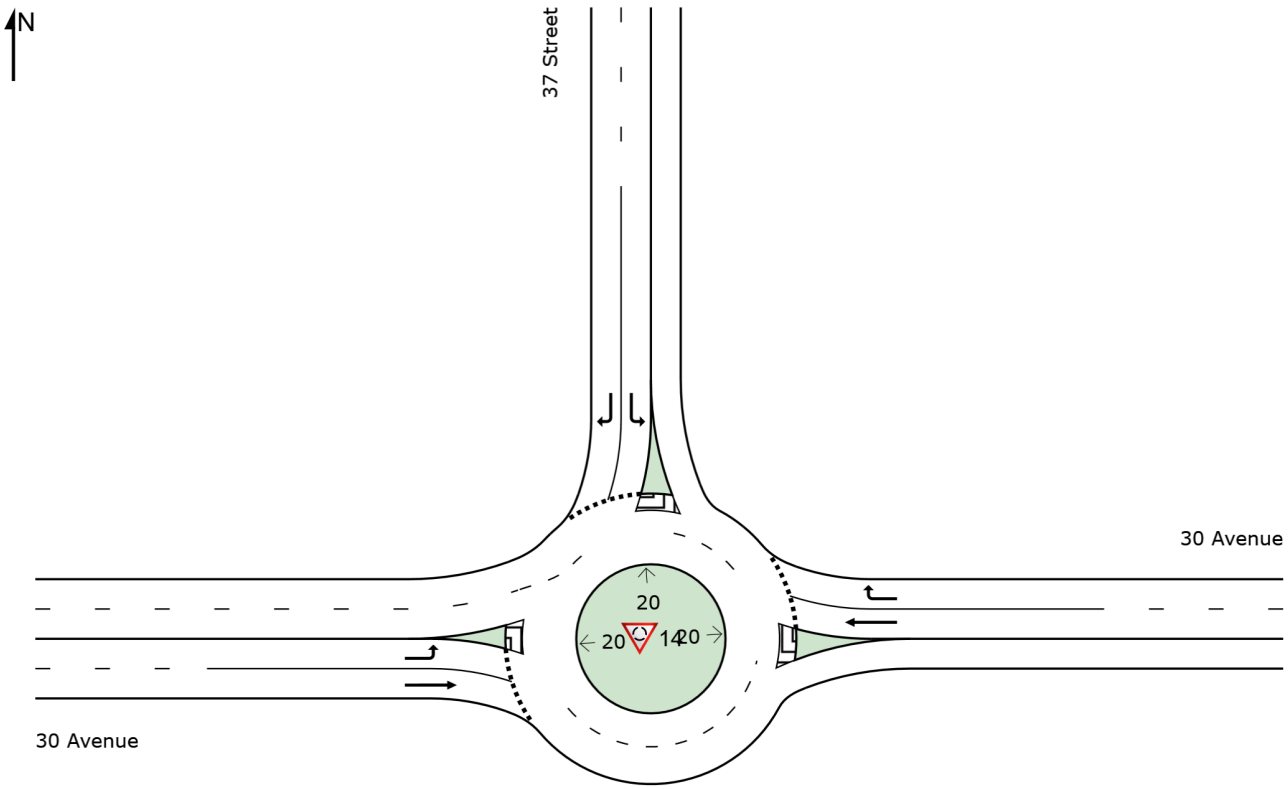
Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

SITE LAYOUT

Site: 14 [BG2045_30 Ave & 37 St_AM (Site Folder: 2045 Background Traffic)]

2045 Background Traffic
Site Category: G1
Roundabout

Layout pictures are schematic functional drawings reflecting input data. They are not design drawings.



MOVEMENT SUMMARY

Site: 14 [EX_30 Ave & 37 St_AM (Site Folder: Existing Traffic)]

Existing Traffic
Site Category: G1
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
East: 30 Avenue														
5	T1	160	4.0	172	4.0	0.379	8.6	LOS A	2.8	20.0	0.84	0.84	0.84	52.9
6	R2	90	4.0	97	4.0	0.379	8.4	LOS A	2.8	20.0	0.84	0.84	0.84	51.7
Approach		250	4.0	269	4.0	0.379	8.6	LOS A	2.8	20.0	0.84	0.84	0.84	52.5
North: 37 Street														
7	L2	170	2.0	183	2.0	0.476	9.9	LOS A	4.0	29.0	0.55	0.60	0.55	53.9
9	R2	367	4.0	395	4.0	0.476	5.1	LOS A	4.0	29.0	0.55	0.60	0.55	52.6
Approach		537	3.4	577	3.4	0.476	6.7	LOS A	4.0	29.0	0.55	0.60	0.55	53.0
West: 30 Avenue														
10	L2	606	3.0	652	3.0	0.767	11.4	LOS B	10.3	74.0	0.79	0.68	0.82	51.7
11	T1	288	2.0	310	2.0	0.767	6.8	LOS A	10.3	74.0	0.79	0.68	0.82	51.8
Approach		894	2.7	961	2.7	0.767	9.9	LOS A	10.3	74.0	0.79	0.68	0.82	51.7
All Vehicles		1681	3.1	1808	3.1	0.767	8.7	LOS A	10.3	74.0	0.72	0.68	0.74	52.2

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

MOVEMENT SUMMARY

Site: 14 [EX_30 Ave & 37 St_PM (Site Folder: Existing Traffic)]

Existing Traffic
Site Category: G1
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
East: 30 Avenue														
5	T1	359	2.0	378	2.0	0.609	9.1	LOS A	6.1	43.4	0.84	0.86	0.97	52.9
6	R2	172	3.0	181	3.0	0.609	8.9	LOS A	6.1	43.4	0.84	0.86	0.97	51.6
Approach		531	2.3	559	2.3	0.609	9.0	LOS A	6.1	43.4	0.84	0.86	0.97	52.5
North: 37 Street														
7	L2	194	2.0	204	2.0	0.860	19.5	LOS B	16.6	118.0	1.00	1.08	1.47	48.1
9	R2	615	2.0	647	2.0	0.860	14.6	LOS B	16.6	118.0	1.00	1.08	1.47	47.2
Approach		809	2.0	852	2.0	0.860	15.8	LOS B	16.6	118.0	1.00	1.08	1.47	47.4
West: 30 Avenue														
10	L2	420	2.0	442	2.0	0.592	10.4	LOS B	5.8	41.5	0.68	0.65	0.68	52.2
11	T1	243	2.0	256	2.0	0.592	5.7	LOS A	5.8	41.5	0.68	0.65	0.68	52.2
Approach		663	2.0	698	2.0	0.592	8.7	LOS A	5.8	41.5	0.68	0.65	0.68	52.2
All Vehicles		2003	2.1	2108	2.1	0.860	11.6	LOS B	16.6	118.0	0.85	0.88	1.07	50.2

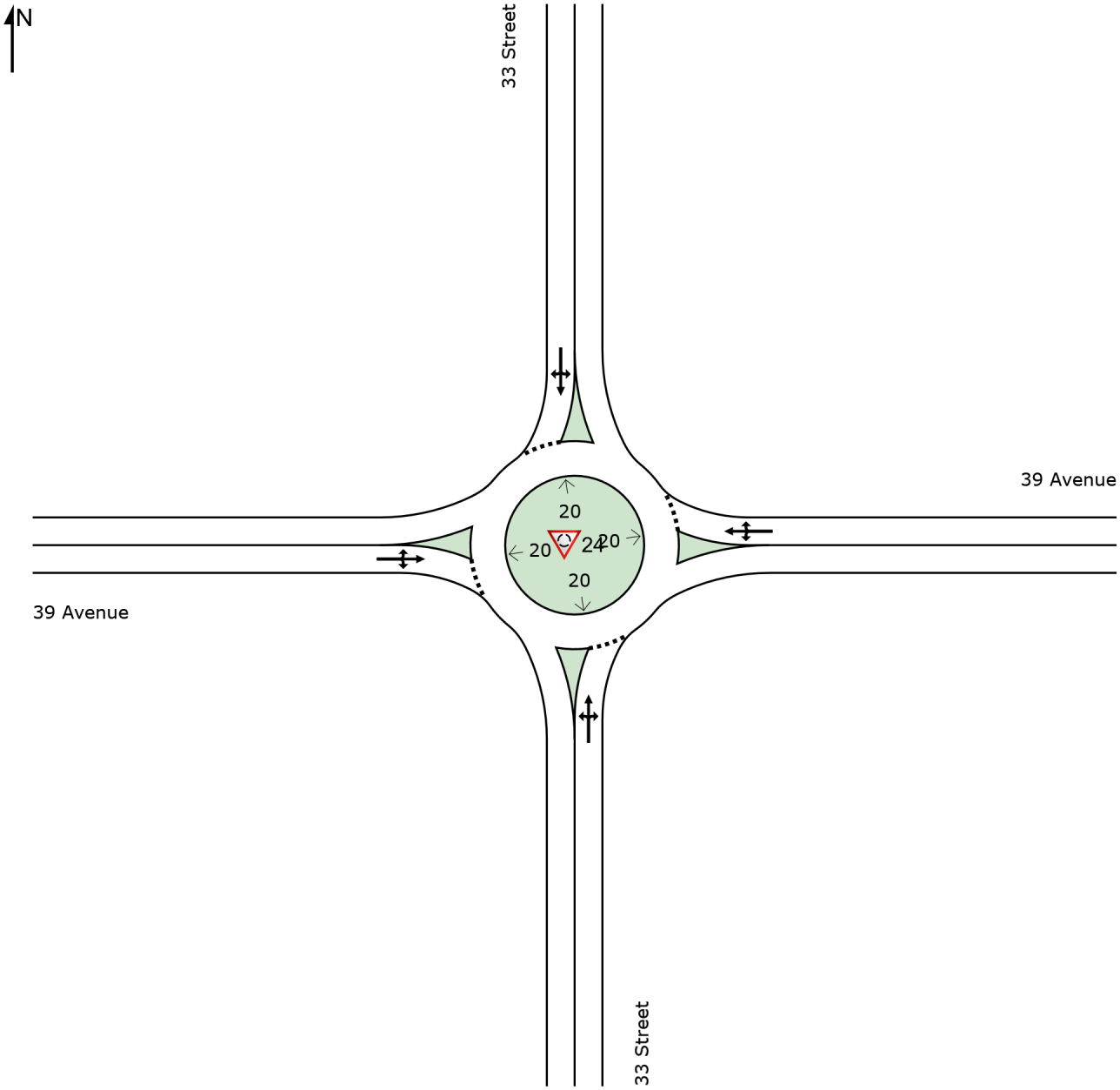
Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

SITE LAYOUT

Site: 24 [BG2045_39 Ave & 33 St_AM (Site Folder: 2045 Background Traffic)]

2045 Background Traffic
Site Category: G5
Roundabout

Layout pictures are schematic functional drawings reflecting input data. They are not design drawings.



MOVEMENT SUMMARY

Site: 24 [EX_39 Ave & 33 St_AM (Site Folder: Existing Traffic)]

Existing Traffic
Site Category: G5
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South: 33 Street														
1	L2	60	12.0	71	12.0	0.263	9.1	LOS A	1.6	11.9	0.52	0.59	0.52	47.4
2	T1	6	2.0	7	2.0	0.263	4.3	LOS A	1.6	11.9	0.52	0.59	0.52	47.3
3	R2	172	2.0	202	2.0	0.263	4.4	LOS A	1.6	11.9	0.52	0.59	0.52	46.3
Approach		238	4.5	280	4.5	0.263	5.6	LOS A	1.6	11.9	0.52	0.59	0.52	46.6
East: 39 Avenue														
4	L2	245	2.0	288	2.0	0.389	9.3	LOS A	2.9	20.8	0.33	0.55	0.33	53.6
5	T1	200	3.0	235	3.0	0.389	4.7	LOS A	2.9	20.8	0.33	0.55	0.33	53.7
6	R2	13	8.0	15	8.0	0.389	4.5	LOS A	2.9	20.8	0.33	0.55	0.33	52.3
Approach		458	2.6	539	2.6	0.389	7.1	LOS A	2.9	20.8	0.33	0.55	0.33	53.6
North: 33 Street														
7	L2	5	2.0	6	2.0	0.022	11.8	LOS B	0.1	0.9	0.62	0.62	0.62	52.9
8	T1	5	20.0	6	20.0	0.022	7.7	LOS A	0.1	0.9	0.62	0.62	0.62	52.5
9	R2	5	2.0	6	2.0	0.022	6.9	LOS A	0.1	0.9	0.62	0.62	0.62	51.7
Approach		15	8.0	18	8.0	0.022	8.8	LOS A	0.1	0.9	0.62	0.62	0.62	52.4
West: 39 Avenue														
10	L2	5	2.0	6	2.0	0.329	10.6	LOS B	2.1	15.0	0.55	0.60	0.55	54.3
11	T1	220	2.0	259	2.0	0.329	6.0	LOS A	2.1	15.0	0.55	0.60	0.55	54.3
12	R2	71	10.0	84	10.0	0.329	6.0	LOS A	2.1	15.0	0.55	0.60	0.55	52.8
Approach		296	3.9	348	3.9	0.329	6.0	LOS A	2.1	15.0	0.55	0.60	0.55	54.0
All Vehicles		1007	3.5	1185	3.5	0.389	6.5	LOS A	2.9	20.8	0.44	0.57	0.44	51.9

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

MOVEMENT SUMMARY

Site: 24 [EX_39 Ave & 33 St_PM (Site Folder: Existing Traffic)]

Existing Traffic
Site Category: G5
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South: 33 Street														
1	L2	42	2.0	44	2.0	0.336	8.2	LOS A	2.2	16.0	0.40	0.49	0.40	48.1
2	T1	7	2.0	7	2.0	0.336	3.7	LOS A	2.2	16.0	0.40	0.49	0.40	48.0
3	R2	360	2.0	375	2.0	0.336	3.7	LOS A	2.2	16.0	0.40	0.49	0.40	46.8
Approach		409	2.0	426	2.0	0.336	4.2	LOS A	2.2	16.0	0.40	0.49	0.40	47.0
East: 39 Avenue														
4	L2	231	3.0	241	3.0	0.329	9.1	LOS A	2.3	16.1	0.24	0.53	0.24	54.0
5	T1	210	2.0	219	2.0	0.329	4.4	LOS A	2.3	16.1	0.24	0.53	0.24	54.1
6	R2	19	2.0	20	2.0	0.329	4.2	LOS A	2.3	16.1	0.24	0.53	0.24	52.9
Approach		460	2.5	479	2.5	0.329	6.7	LOS A	2.3	16.1	0.24	0.53	0.24	54.0
North: 33 Street														
7	L2	16	2.0	17	2.0	0.039	11.2	LOS B	0.2	1.5	0.56	0.63	0.56	53.0
8	T1	9	2.0	9	2.0	0.039	6.6	LOS A	0.2	1.5	0.56	0.63	0.56	53.1
9	R2	10	2.0	10	2.0	0.039	6.4	LOS A	0.2	1.5	0.56	0.63	0.56	51.8
Approach		35	2.0	36	2.0	0.039	8.6	LOS A	0.2	1.5	0.56	0.63	0.56	52.7
West: 39 Avenue														
10	L2	5	2.0	5	2.0	0.162	10.1	LOS B	0.9	6.2	0.44	0.54	0.44	54.7
11	T1	122	2.0	127	2.0	0.162	5.5	LOS A	0.9	6.2	0.44	0.54	0.44	54.8
12	R2	45	2.0	47	2.0	0.162	5.3	LOS A	0.9	6.2	0.44	0.54	0.44	53.5
Approach		172	2.0	179	2.0	0.162	5.6	LOS A	0.9	6.2	0.44	0.54	0.44	54.4
All Vehicles		1076	2.2	1121	2.2	0.336	5.6	LOS A	2.3	16.1	0.34	0.52	0.34	51.2

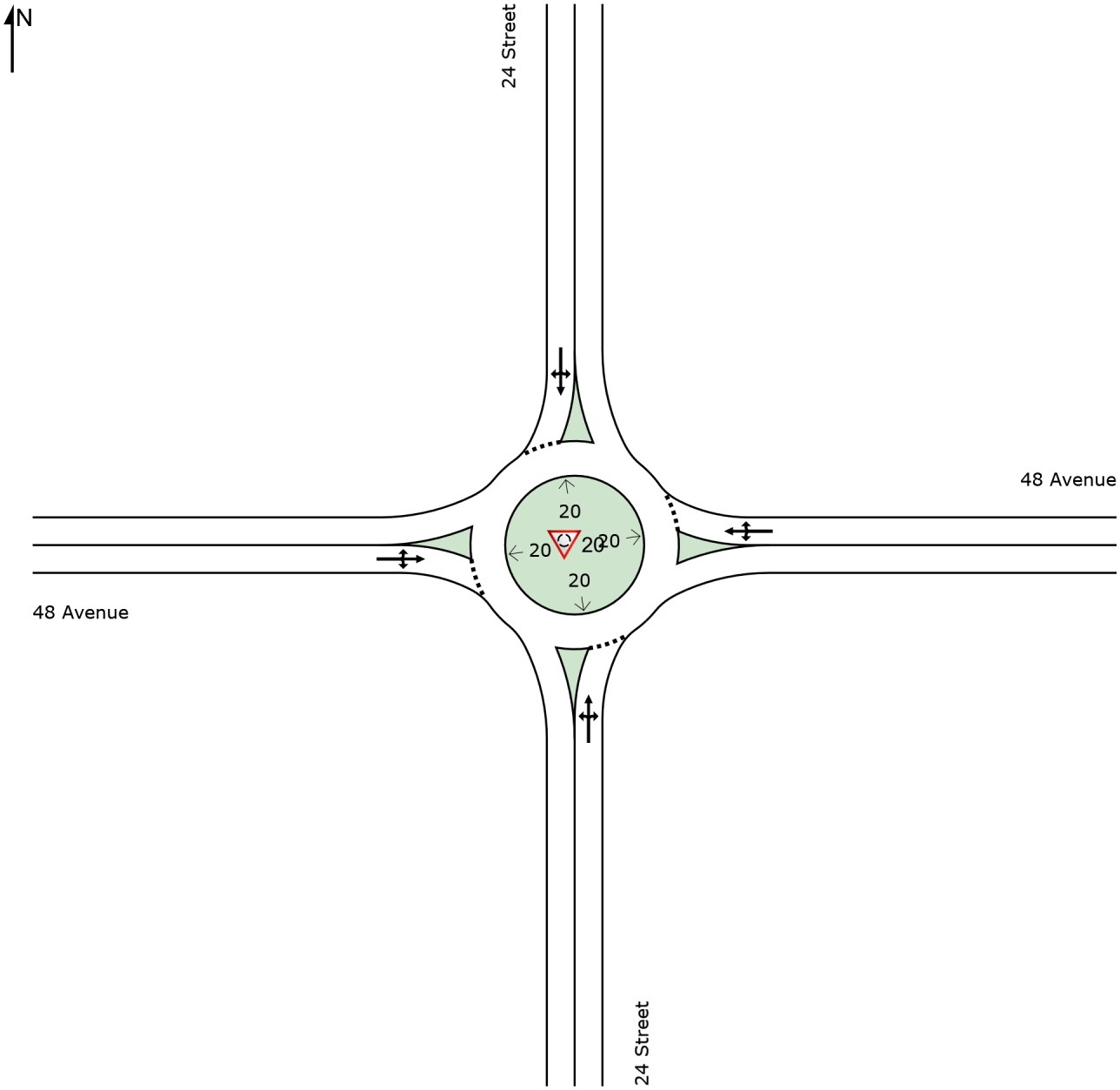
Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

SITE LAYOUT

Site: 20 [BG2045_48 Ave & 24 St_AM (Site Folder: 2045 Background Traffic)]

2045 Background Traffic
Site Category: G6
Roundabout

Layout pictures are schematic functional drawings reflecting input data. They are not design drawings.



MOVEMENT SUMMARY

Site: 20 [EX_48 Ave & 24 St_AM (Site Folder: Existing Traffic)]

Existing Traffic
Site Category: G6
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South: 24 Street														
1	L2	5	2.0	5	2.0	0.017	9.2	LOS A	0.1	0.6	0.50	0.54	0.50	47.0
2	T1	5	2.0	5	2.0	0.017	4.7	LOS A	0.1	0.6	0.50	0.54	0.50	46.9
3	R2	5	20.0	5	20.0	0.017	5.2	LOS A	0.1	0.6	0.50	0.54	0.50	45.7
Approach		15	8.0	16	8.0	0.017	6.4	LOS A	0.1	0.6	0.50	0.54	0.50	46.5
East: 48 Avenue														
4	L2	5	2.0	5	2.0	0.522	9.7	LOS A	4.2	30.3	0.44	0.49	0.44	54.7
5	T1	550	4.0	598	4.0	0.522	5.1	LOS A	4.2	30.3	0.44	0.49	0.44	54.7
6	R2	83	2.0	90	2.0	0.522	4.8	LOS A	4.2	30.3	0.44	0.49	0.44	53.5
Approach		638	3.7	693	3.7	0.522	5.1	LOS A	4.2	30.3	0.44	0.49	0.44	54.6
North: 24 Street														
7	L2	30	7.0	33	7.0	0.182	12.6	LOS B	1.1	8.0	0.70	0.74	0.70	52.9
8	T1	5	2.0	5	2.0	0.182	7.7	LOS A	1.1	8.0	0.70	0.74	0.70	53.2
9	R2	100	2.0	109	2.0	0.182	7.5	LOS A	1.1	8.0	0.70	0.74	0.70	51.9
Approach		135	3.1	147	3.1	0.182	8.6	LOS A	1.1	8.0	0.70	0.74	0.70	52.2
West: 48 Avenue														
10	L2	107	3.0	116	3.0	0.268	9.0	LOS A	1.8	13.8	0.21	0.48	0.21	54.7
11	T1	238	11.0	259	11.0	0.268	4.4	LOS A	1.8	13.8	0.21	0.48	0.21	54.6
12	R2	5	33.0	5	33.0	0.268	4.5	LOS A	1.8	13.8	0.21	0.48	0.21	52.6
Approach		350	8.9	380	8.9	0.268	5.8	LOS A	1.8	13.8	0.21	0.48	0.21	54.6
All Vehicles		1138	5.3	1237	5.3	0.522	5.8	LOS A	4.2	30.3	0.40	0.52	0.40	54.2

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

MOVEMENT SUMMARY

Site: 20 [EX_48 Ave & 24 St_PM (Site Folder: Existing Traffic)]

Existing Traffic
Site Category: G6
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South: 24 Street														
1	L2	5	2.0	5	2.0	0.021	11.8	LOS B	0.1	0.9	0.72	0.64	0.72	45.9
2	T1	5	2.0	5	2.0	0.021	7.3	LOS A	0.1	0.9	0.72	0.64	0.72	45.7
3	R2	5	2.0	5	2.0	0.021	7.3	LOS A	0.1	0.9	0.72	0.64	0.72	44.7
Approach		15	2.0	15	2.0	0.021	8.8	LOS A	0.1	0.9	0.72	0.64	0.72	45.4
East: 48 Avenue														
4	L2	5	2.0	5	2.0	0.461	10.0	LOS B	3.5	24.7	0.51	0.54	0.51	54.4
5	T1	462	2.0	467	2.0	0.461	5.4	LOS A	3.5	24.7	0.51	0.54	0.51	54.5
6	R2	92	2.0	93	2.0	0.461	5.2	LOS A	3.5	24.7	0.51	0.54	0.51	53.2
Approach		559	2.0	565	2.0	0.461	5.4	LOS A	3.5	24.7	0.51	0.54	0.51	54.3
North: 24 Street														
7	L2	81	2.0	82	2.0	0.395	11.9	LOS B	2.7	19.4	0.71	0.76	0.71	53.4
8	T1	5	2.0	5	2.0	0.395	7.3	LOS A	2.7	19.4	0.71	0.76	0.71	53.5
9	R2	269	2.0	272	2.0	0.395	7.1	LOS A	2.7	19.4	0.71	0.76	0.71	52.2
Approach		355	2.0	359	2.0	0.395	8.2	LOS A	2.7	19.4	0.71	0.76	0.71	52.5
West: 48 Avenue														
10	L2	177	2.0	179	2.0	0.502	9.4	LOS A	4.6	32.5	0.41	0.50	0.41	54.1
11	T1	509	2.0	514	2.0	0.502	4.8	LOS A	4.6	32.5	0.41	0.50	0.41	54.2
12	R2	5	2.0	5	2.0	0.502	4.5	LOS A	4.6	32.5	0.41	0.50	0.41	52.9
Approach		691	2.0	698	2.0	0.502	5.9	LOS A	4.6	32.5	0.41	0.50	0.41	54.2
All Vehicles		1620	2.0	1636	2.0	0.502	6.3	LOS A	4.6	32.5	0.51	0.57	0.51	53.7

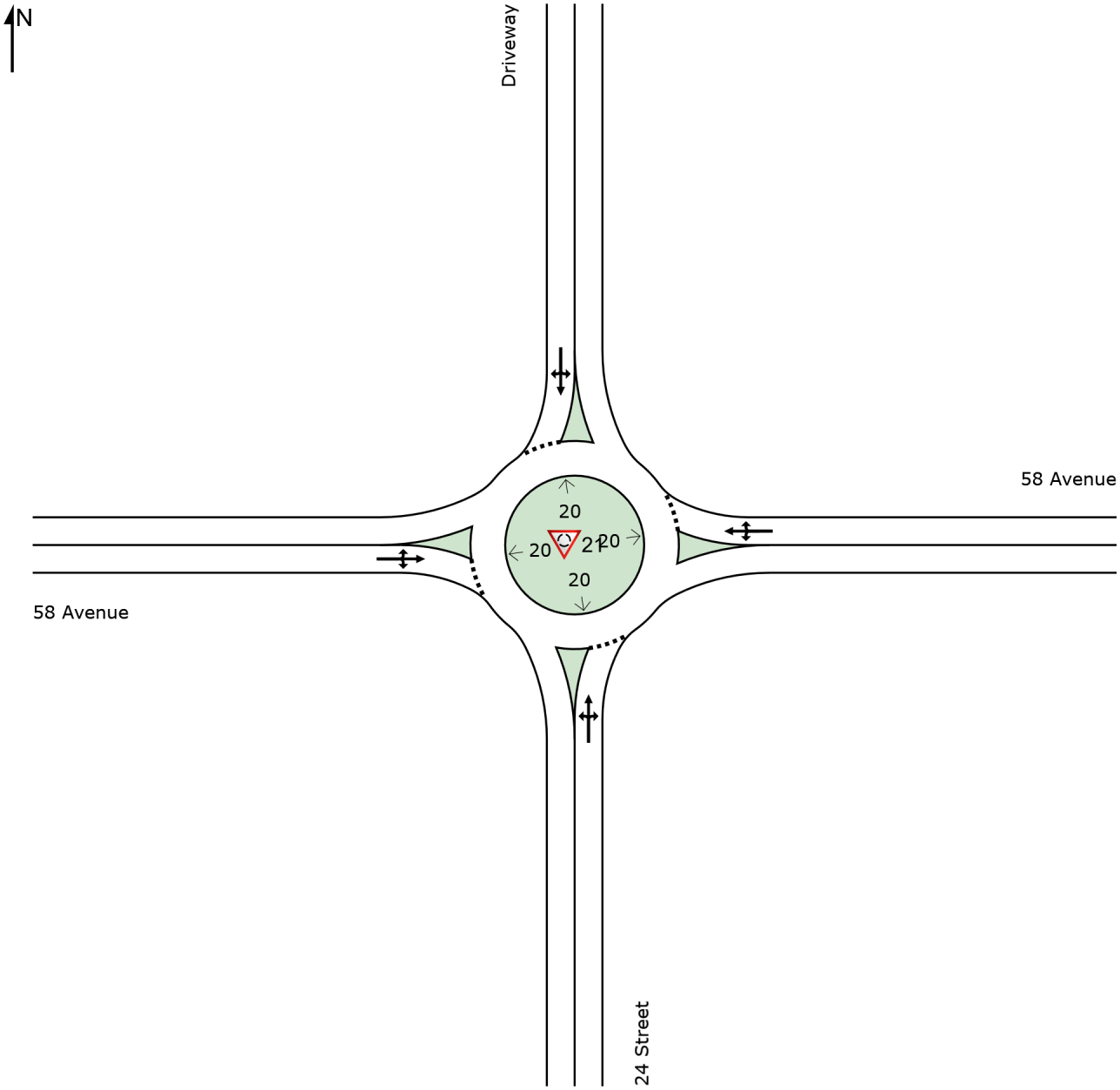
Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

SITE LAYOUT

Site: 21 [BG2045_58 Ave & 24 St_AM (Site Folder: 2045 Background Traffic)]

2045 Background Traffic
Site Category: G6
Roundabout

Layout pictures are schematic functional drawings reflecting input data. They are not design drawings.



MOVEMENT SUMMARY

Site: 21 [EX_58 Ave & 24 St_AM (Site Folder: Existing Traffic)]

Existing Traffic
Site Category: G6
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South: 24 Street														
1	L2	14	7.0	15	7.0	0.063	9.0	LOS A	0.3	2.4	0.47	0.54	0.47	47.4
2	T1	27	4.0	29	4.0	0.063	4.4	LOS A	0.3	2.4	0.47	0.54	0.47	47.2
3	R2	18	11.0	20	11.0	0.063	4.6	LOS A	0.3	2.4	0.47	0.54	0.47	46.1
Approach		59	6.8	64	6.8	0.063	5.5	LOS A	0.3	2.4	0.47	0.54	0.47	46.9
East: 58 Avenue														
4	L2	31	2.0	34	2.0	0.264	9.9	LOS A	1.5	11.3	0.42	0.53	0.42	54.5
5	T1	216	6.0	235	6.0	0.264	5.3	LOS A	1.5	11.3	0.42	0.53	0.42	54.5
6	R2	35	2.0	38	2.0	0.264	5.0	LOS A	1.5	11.3	0.42	0.53	0.42	53.3
Approach		282	5.1	307	5.1	0.264	5.8	LOS A	1.5	11.3	0.42	0.53	0.42	54.3
North: Driveway														
7	L2	16	2.0	17	2.0	0.212	10.3	LOS B	1.2	8.9	0.50	0.60	0.50	54.9
8	T1	15	2.0	16	2.0	0.212	5.7	LOS A	1.2	8.9	0.50	0.60	0.50	54.9
9	R2	179	2.0	195	2.0	0.212	5.5	LOS A	1.2	8.9	0.50	0.60	0.50	53.6
Approach		210	2.0	228	2.0	0.212	5.9	LOS A	1.2	8.9	0.50	0.60	0.50	53.8
West: 58 Avenue														
10	L2	145	3.0	158	3.0	0.267	9.1	LOS A	1.6	11.9	0.24	0.52	0.24	54.3
11	T1	141	9.0	153	9.0	0.267	4.5	LOS A	1.6	11.9	0.24	0.52	0.24	54.2
12	R2	55	2.0	60	2.0	0.267	4.2	LOS A	1.6	11.9	0.24	0.52	0.24	53.1
Approach		341	5.3	371	5.3	0.267	6.4	LOS A	1.6	11.9	0.24	0.52	0.24	54.1
All Vehicles		892	4.6	970	4.6	0.267	6.0	LOS A	1.6	11.9	0.37	0.55	0.37	53.5

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

MOVEMENT SUMMARY

Site: 21 [EX_58 Ave & 24 St_PM (Site Folder: Existing Traffic)]

Existing Traffic
Site Category: G6
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South: 24 Street														
1	L2	62	3.0	67	3.0	0.207	10.0	LOS A	1.2	8.8	0.61	0.68	0.61	46.8
2	T1	19	5.0	21	5.0	0.207	5.5	LOS A	1.2	8.8	0.61	0.68	0.61	46.6
3	R2	97	2.0	105	2.0	0.207	5.5	LOS A	1.2	8.8	0.61	0.68	0.61	45.6
Approach		178	2.7	193	2.7	0.207	7.0	LOS A	1.2	8.8	0.61	0.68	0.61	46.1
East: 58 Avenue														
4	L2	65	2.0	71	2.0	0.378	10.1	LOS B	2.5	17.8	0.48	0.57	0.48	54.1
5	T1	321	2.0	349	2.0	0.378	5.5	LOS A	2.5	17.8	0.48	0.57	0.48	54.2
6	R2	26	2.0	28	2.0	0.378	5.3	LOS A	2.5	17.8	0.48	0.57	0.48	52.9
Approach		412	2.0	448	2.0	0.378	6.2	LOS A	2.5	17.8	0.48	0.57	0.48	54.1
North: Driveway														
7	L2	11	2.0	12	2.0	0.231	11.6	LOS B	1.4	10.1	0.64	0.70	0.64	54.3
8	T1	15	2.0	16	2.0	0.231	6.9	LOS A	1.4	10.1	0.64	0.70	0.64	54.3
9	R2	168	2.0	183	2.0	0.231	6.7	LOS A	1.4	10.1	0.64	0.70	0.64	53.0
Approach		194	2.0	211	2.0	0.231	7.0	LOS A	1.4	10.1	0.64	0.70	0.64	53.2
West: 58 Avenue														
10	L2	117	2.0	127	2.0	0.440	9.4	LOS A	3.4	23.9	0.36	0.50	0.36	54.6
11	T1	299	2.0	325	2.0	0.440	4.8	LOS A	3.4	23.9	0.36	0.50	0.36	54.7
12	R2	142	2.0	154	2.0	0.440	4.5	LOS A	3.4	23.9	0.36	0.50	0.36	53.4
Approach		558	2.0	607	2.0	0.440	5.7	LOS A	3.4	23.9	0.36	0.50	0.36	54.3
All Vehicles		1342	2.1	1459	2.1	0.440	6.2	LOS A	3.4	23.9	0.47	0.57	0.47	52.8

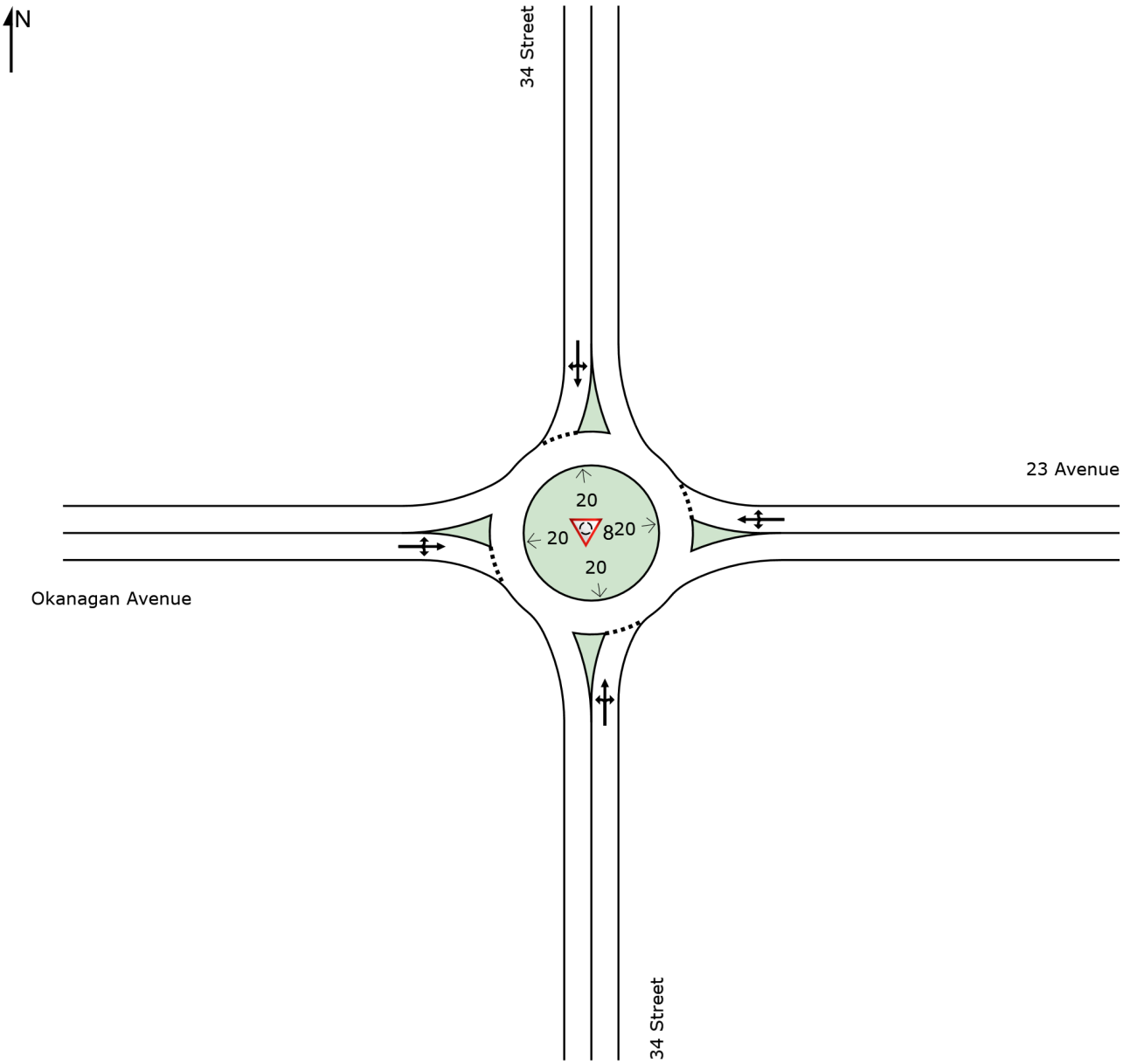
Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

SITE LAYOUT

Site: 8 [BG2045_34 St & Okanagan Ave/23 Ave_AM (Site Folder: 2045 Background Traffic)]

2045 Background Traffic
Site Category: G3
Roundabout

Layout pictures are schematic functional drawings reflecting input data. They are not design drawings.



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MOVEMENT SUMMARY

Site: 8 [BG2030_34 St & Okanagan Ave/23 Ave_AM (Site Folder: 2030 Background Traffic)]

2030 Background Traffic
Site Category: G3
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South: 34 Street														
1	L2	52	2.0	57	2.0	0.344	8.3	LOS A	2.3	16.4	0.42	0.46	0.42	47.7
2	T1	338	2.0	367	2.0	0.344	3.8	LOS A	2.3	16.4	0.42	0.46	0.42	47.5
3	R2	5	2.0	5	2.0	0.344	3.8	LOS A	2.3	16.4	0.42	0.46	0.42	46.4
Approach		395	2.0	429	2.0	0.344	4.4	LOS A	2.3	16.4	0.42	0.46	0.42	47.5
East: 23 Avenue														
4	L2	5	2.0	5	2.0	0.087	11.8	LOS B	0.5	3.6	0.62	0.66	0.62	53.8
5	T1	19	2.0	21	2.0	0.087	7.2	LOS A	0.5	3.6	0.62	0.66	0.62	53.9
6	R2	43	10.0	47	10.0	0.087	7.2	LOS A	0.5	3.6	0.62	0.66	0.62	52.4
Approach		67	7.1	73	7.1	0.087	7.5	LOS A	0.5	3.6	0.62	0.66	0.62	52.9
North: 34 Street														
7	L2	8	2.0	9	2.0	0.200	9.1	LOS A	1.2	8.3	0.25	0.44	0.25	55.5
8	T1	181	3.0	197	3.0	0.200	4.5	LOS A	1.2	8.3	0.25	0.44	0.25	55.6
9	R2	60	2.0	65	2.0	0.200	4.3	LOS A	1.2	8.3	0.25	0.44	0.25	54.3
Approach		249	2.7	271	2.7	0.200	4.6	LOS A	1.2	8.3	0.25	0.44	0.25	55.3
West: Okanagan Avenue														
10	L2	134	2.0	146	2.0	0.193	9.9	LOS A	1.1	7.7	0.41	0.62	0.41	53.1
11	T1	7	2.0	8	2.0	0.193	5.2	LOS A	1.1	7.7	0.41	0.62	0.41	53.2
12	R2	64	2.0	70	2.0	0.193	5.0	LOS A	1.1	7.7	0.41	0.62	0.41	52.0
Approach		205	2.0	223	2.0	0.193	8.2	LOS A	1.1	7.7	0.41	0.62	0.41	52.8
All Vehicles		916	2.6	996	2.6	0.344	5.5	LOS A	2.3	16.4	0.39	0.51	0.39	51.0

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

MOVEMENT SUMMARY

Site: 8 [BG2030_34 St & Okanagan Ave/23 Ave_PM (Site Folder: 2030 Background Traffic)]

2030 Background Traffic
Site Category: G3
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South: 34 Street														
1	L2	48	2.0	50	2.0	0.296	8.0	LOS A	1.9	13.8	0.37	0.44	0.37	47.9
2	T1	310	3.0	323	3.0	0.296	3.5	LOS A	1.9	13.8	0.37	0.44	0.37	47.7
3	R2	5	2.0	5	2.0	0.296	3.6	LOS A	1.9	13.8	0.37	0.44	0.37	46.6
Approach		363	2.9	378	2.9	0.296	4.1	LOS A	1.9	13.8	0.37	0.44	0.37	47.7
East: 23 Avenue														
4	L2	5	2.0	5	2.0	0.108	11.3	LOS B	0.6	4.2	0.58	0.63	0.58	54.3
5	T1	32	2.0	33	2.0	0.108	6.7	LOS A	0.6	4.2	0.58	0.63	0.58	54.4
6	R2	59	2.0	61	2.0	0.108	6.4	LOS A	0.6	4.2	0.58	0.63	0.58	53.1
Approach		96	2.0	100	2.0	0.108	6.8	LOS A	0.6	4.2	0.58	0.63	0.58	53.6
North: 34 Street														
7	L2	10	11.0	10	11.0	0.328	9.4	LOS A	2.1	15.2	0.29	0.45	0.29	55.1
8	T1	282	2.0	294	2.0	0.328	4.6	LOS A	2.1	15.2	0.29	0.45	0.29	55.5
9	R2	142	2.0	148	2.0	0.328	4.4	LOS A	2.1	15.2	0.29	0.45	0.29	54.2
Approach		434	2.2	452	2.2	0.328	4.6	LOS A	2.1	15.2	0.29	0.45	0.29	55.1
West: Okanagan Avenue														
10	L2	109	2.0	114	2.0	0.136	10.3	LOS B	0.7	5.2	0.47	0.66	0.47	52.4
11	T1	6	2.0	6	2.0	0.136	5.7	LOS A	0.7	5.2	0.47	0.66	0.47	52.5
12	R2	24	2.0	25	2.0	0.136	5.5	LOS A	0.7	5.2	0.47	0.66	0.47	51.3
Approach		139	2.0	145	2.0	0.136	9.3	LOS A	0.7	5.2	0.47	0.66	0.47	52.3
All Vehicles		1032	2.4	1075	2.4	0.328	5.3	LOS A	2.1	15.2	0.37	0.49	0.37	51.7

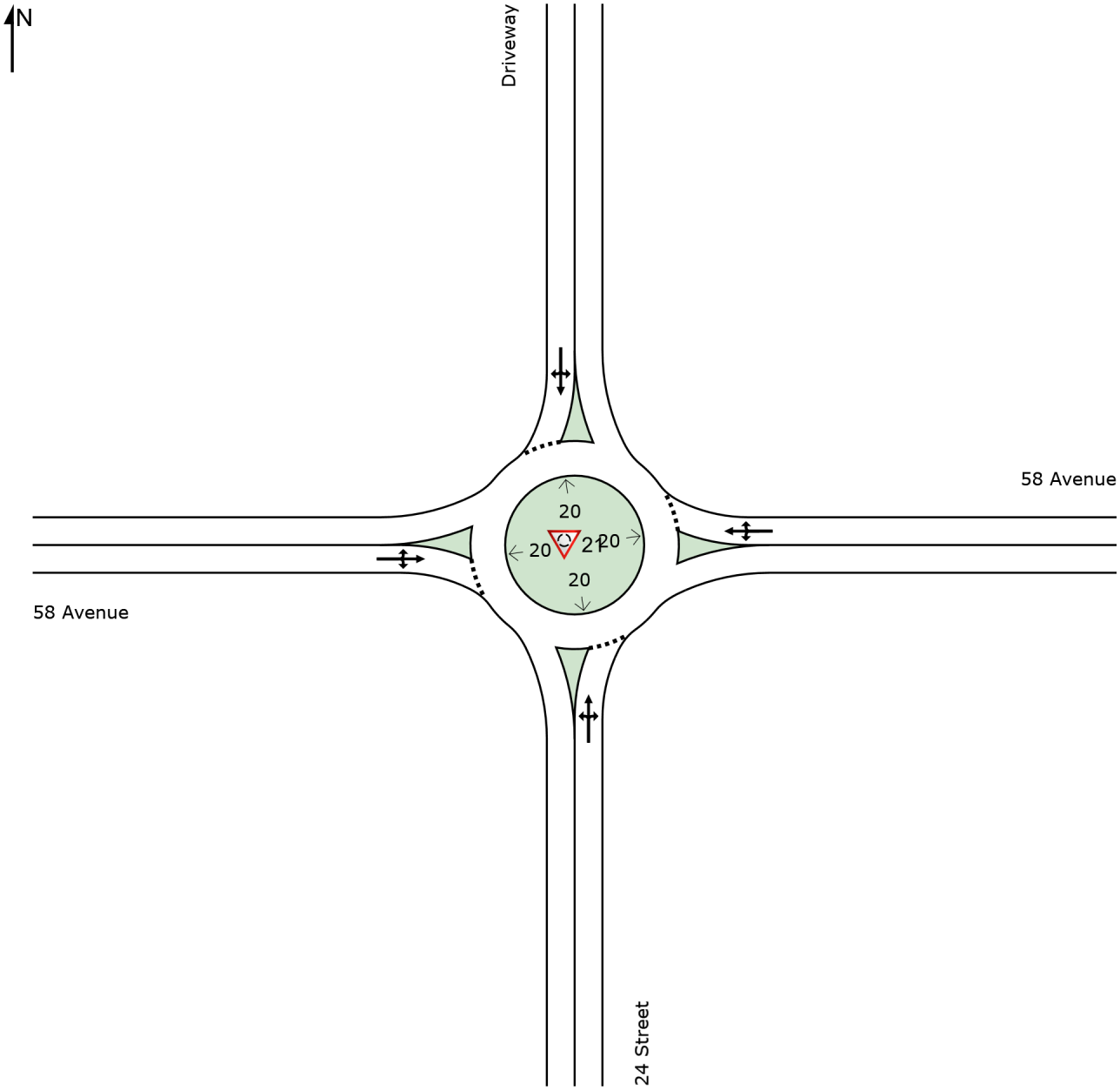
Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
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Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

SITE LAYOUT

Site: 21 [BG2045_58 Ave & 24 St_AM (Site Folder: 2045 Background Traffic)]

2045 Background Traffic
Site Category: G6
Roundabout

Layout pictures are schematic functional drawings reflecting input data. They are not design drawings.



MOVEMENT SUMMARY

Site: 21 [BG2030_58 Ave & 24 St_AM (Site Folder: 2030 Background Traffic)]

2030 Background Traffic
Site Category: G6
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South: 24 Street														
1	L2	15	7.0	16	7.0	0.070	9.2	LOS A	0.4	2.7	0.49	0.55	0.49	47.3
2	T1	29	4.0	32	4.0	0.070	4.6	LOS A	0.4	2.7	0.49	0.55	0.49	47.2
3	R2	20	11.0	22	11.0	0.070	4.8	LOS A	0.4	2.7	0.49	0.55	0.49	46.0
Approach		64	6.9	70	6.9	0.070	5.7	LOS A	0.4	2.7	0.49	0.55	0.49	46.8
East: 58 Avenue														
4	L2	34	2.0	37	2.0	0.293	10.0	LOS B	1.8	12.8	0.45	0.55	0.45	54.4
5	T1	236	6.0	257	6.0	0.293	5.5	LOS A	1.8	12.8	0.45	0.55	0.45	54.4
6	R2	38	2.0	41	2.0	0.293	5.2	LOS A	1.8	12.8	0.45	0.55	0.45	53.2
Approach		308	5.1	335	5.1	0.293	6.0	LOS A	1.8	12.8	0.45	0.55	0.45	54.2
North: Driveway														
7	L2	17	2.0	18	2.0	0.235	10.5	LOS B	1.4	10.1	0.53	0.62	0.53	54.7
8	T1	16	2.0	17	2.0	0.235	5.9	LOS A	1.4	10.1	0.53	0.62	0.53	54.8
9	R2	195	2.0	212	2.0	0.235	5.7	LOS A	1.4	10.1	0.53	0.62	0.53	53.5
Approach		228	2.0	248	2.0	0.235	6.0	LOS A	1.4	10.1	0.53	0.62	0.53	53.7
West: 58 Avenue														
10	L2	158	3.0	172	3.0	0.292	9.1	LOS A	1.8	13.5	0.26	0.53	0.26	54.2
11	T1	154	9.0	167	9.0	0.292	4.6	LOS A	1.8	13.5	0.26	0.53	0.26	54.2
12	R2	60	2.0	65	2.0	0.292	4.3	LOS A	1.8	13.5	0.26	0.53	0.26	53.0
Approach		372	5.3	404	5.3	0.292	6.5	LOS A	1.8	13.5	0.26	0.53	0.26	54.0
All Vehicles		972	4.6	1057	4.6	0.293	6.2	LOS A	1.8	13.5	0.40	0.56	0.40	53.5

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

MOVEMENT SUMMARY

Site: 21 [BG2030_58 Ave & 24 St_PM (Site Folder: 2030 Background Traffic)]

2030 Background Traffic
Site Category: G6
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South: 24 Street														
1	L2	68	3.0	74	3.0	0.236	10.3	LOS B	1.4	10.3	0.65	0.71	0.65	46.6
2	T1	21	5.0	23	5.0	0.236	5.9	LOS A	1.4	10.3	0.65	0.71	0.65	46.4
3	R2	106	2.0	115	2.0	0.236	5.8	LOS A	1.4	10.3	0.65	0.71	0.65	45.4
Approach		195	2.7	212	2.7	0.236	7.4	LOS A	1.4	10.3	0.65	0.71	0.65	45.9
East: 58 Avenue														
4	L2	71	2.0	77	2.0	0.419	10.3	LOS B	2.9	20.6	0.53	0.59	0.53	53.9
5	T1	350	2.0	380	2.0	0.419	5.7	LOS A	2.9	20.6	0.53	0.59	0.53	54.0
6	R2	28	2.0	30	2.0	0.419	5.5	LOS A	2.9	20.6	0.53	0.59	0.53	52.7
Approach		449	2.0	488	2.0	0.419	6.4	LOS A	2.9	20.6	0.53	0.59	0.53	53.9
North: Driveway														
7	L2	12	2.0	13	2.0	0.262	12.0	LOS B	1.7	11.8	0.68	0.73	0.68	54.0
8	T1	16	2.0	17	2.0	0.262	7.3	LOS A	1.7	11.8	0.68	0.73	0.68	54.0
9	R2	183	2.0	199	2.0	0.262	7.1	LOS A	1.7	11.8	0.68	0.73	0.68	52.8
Approach		211	2.0	229	2.0	0.262	7.4	LOS A	1.7	11.8	0.68	0.73	0.68	52.9
West: 58 Avenue														
10	L2	128	2.0	139	2.0	0.484	9.5	LOS A	3.9	28.0	0.40	0.51	0.40	54.4
11	T1	326	2.0	354	2.0	0.484	4.9	LOS A	3.9	28.0	0.40	0.51	0.40	54.5
12	R2	155	2.0	168	2.0	0.484	4.6	LOS A	3.9	28.0	0.40	0.51	0.40	53.2
Approach		609	2.0	662	2.0	0.484	5.8	LOS A	3.9	28.0	0.40	0.51	0.40	54.2
All Vehicles		1464	2.1	1591	2.1	0.484	6.4	LOS A	3.9	28.0	0.51	0.59	0.51	52.6

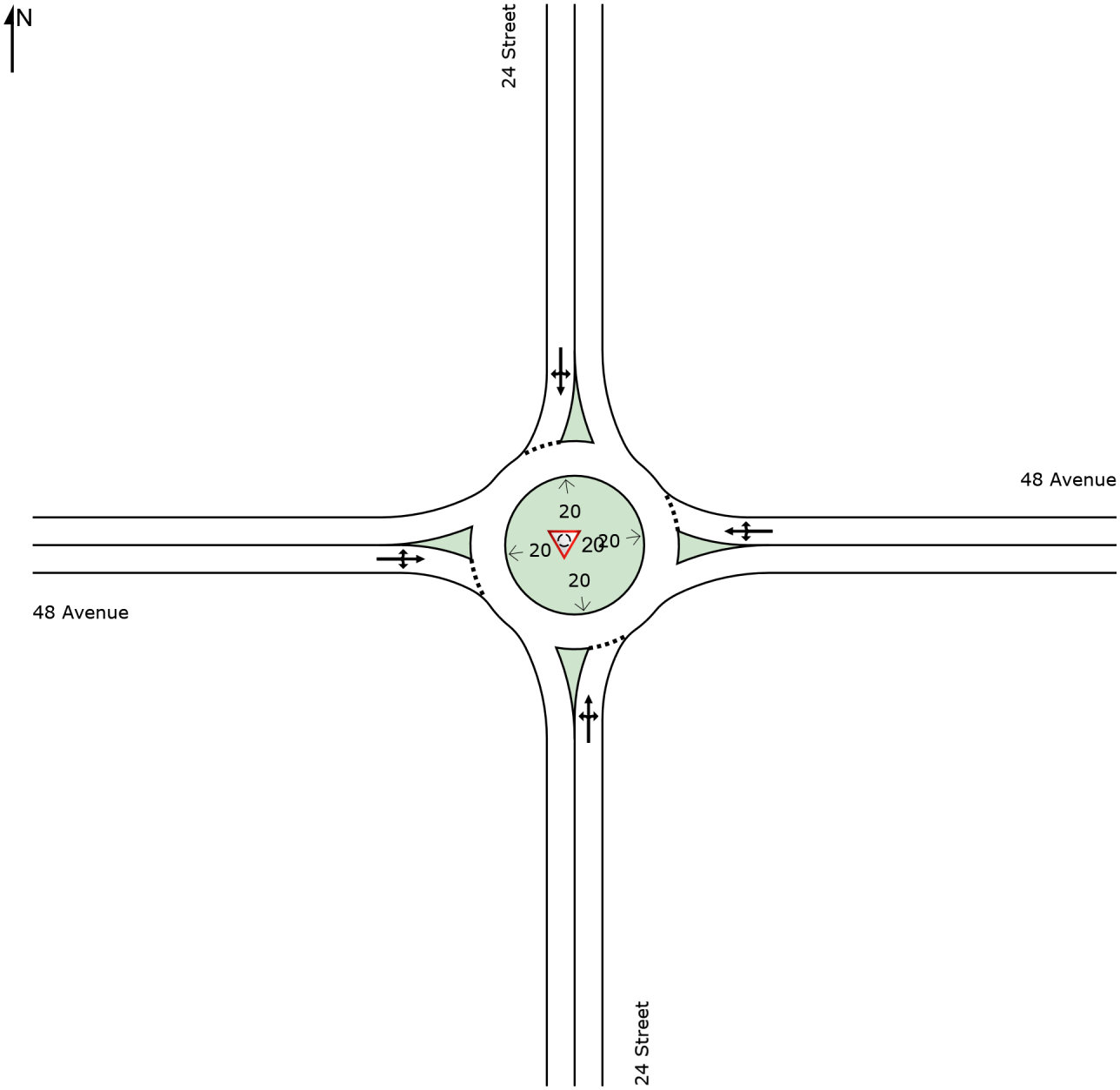
Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

SITE LAYOUT

Site: 20 [BG2045_48 Ave & 24 St_AM (Site Folder: 2045 Background Traffic)]

2045 Background Traffic
Site Category: G6
Roundabout

Layout pictures are schematic functional drawings reflecting input data. They are not design drawings.



MOVEMENT SUMMARY

Site: 20 [BG2030_48 Ave & 24 St_AM (Site Folder: 2030 Background Traffic)]

2030 Background Traffic
Site Category: G6
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South: 24 Street														
1	L2	5	2.0	5	2.0	0.018	9.4	LOS A	0.1	0.7	0.53	0.55	0.53	46.9
2	T1	5	2.0	5	2.0	0.018	4.9	LOS A	0.1	0.7	0.53	0.55	0.53	46.8
3	R2	5	20.0	5	20.0	0.018	5.4	LOS A	0.1	0.7	0.53	0.55	0.53	45.6
Approach		15	8.0	16	8.0	0.018	6.6	LOS A	0.1	0.7	0.53	0.55	0.53	46.4
East: 48 Avenue														
4	L2	5	2.0	5	2.0	0.575	9.9	LOS A	5.0	36.0	0.49	0.51	0.49	54.5
5	T1	600	4.0	652	4.0	0.575	5.3	LOS A	5.0	36.0	0.49	0.51	0.49	54.5
6	R2	91	2.0	99	2.0	0.575	5.0	LOS A	5.0	36.0	0.49	0.51	0.49	53.2
Approach		696	3.7	757	3.7	0.575	5.3	LOS A	5.0	36.0	0.49	0.51	0.49	54.3
North: 24 Street														
7	L2	33	7.0	36	7.0	0.211	13.1	LOS B	1.3	9.7	0.74	0.78	0.74	52.5
8	T1	5	2.0	5	2.0	0.211	8.3	LOS A	1.3	9.7	0.74	0.78	0.74	52.8
9	R2	109	2.0	118	2.0	0.211	8.0	LOS A	1.3	9.7	0.74	0.78	0.74	51.5
Approach		147	3.1	160	3.1	0.211	9.2	LOS A	1.3	9.7	0.74	0.78	0.74	51.8
West: 48 Avenue														
10	L2	117	3.0	127	3.0	0.293	9.0	LOS A	2.1	15.8	0.23	0.48	0.23	54.6
11	T1	260	11.0	283	11.0	0.293	4.5	LOS A	2.1	15.8	0.23	0.48	0.23	54.5
12	R2	5	33.0	5	33.0	0.293	4.5	LOS A	2.1	15.8	0.23	0.48	0.23	52.5
Approach		382	8.8	415	8.8	0.293	5.8	LOS A	2.1	15.8	0.23	0.48	0.23	54.5
All Vehicles		1240	5.3	1348	5.3	0.575	5.9	LOS A	5.0	36.0	0.44	0.53	0.44	54.0

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

MOVEMENT SUMMARY

Site: 20 [BG2030_48 Ave & 24 St_PM (Site Folder: 2030 Background Traffic)]

2030 Background Traffic
Site Category: G6
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South: 24 Street														
1	L2	5	2.0	5	2.0	0.023	12.5	LOS B	0.1	1.0	0.76	0.66	0.76	45.5
2	T1	5	2.0	5	2.0	0.023	8.0	LOS A	0.1	1.0	0.76	0.66	0.76	45.3
3	R2	5	2.0	5	2.0	0.023	8.0	LOS A	0.1	1.0	0.76	0.66	0.76	44.3
Approach		15	2.0	15	2.0	0.023	9.5	LOS A	0.1	1.0	0.76	0.66	0.76	45.0
East: 48 Avenue														
4	L2	5	2.0	5	2.0	0.511	10.2	LOS B	4.1	29.1	0.56	0.56	0.56	54.2
5	T1	504	2.0	509	2.0	0.511	5.6	LOS A	4.1	29.1	0.56	0.56	0.56	54.2
6	R2	100	2.0	101	2.0	0.511	5.4	LOS A	4.1	29.1	0.56	0.56	0.56	53.0
Approach		609	2.0	615	2.0	0.511	5.6	LOS A	4.1	29.1	0.56	0.56	0.56	54.0
North: 24 Street														
7	L2	88	2.0	89	2.0	0.451	12.5	LOS B	3.3	23.7	0.77	0.81	0.79	53.0
8	T1	5	2.0	5	2.0	0.451	7.9	LOS A	3.3	23.7	0.77	0.81	0.79	53.0
9	R2	294	2.0	297	2.0	0.451	7.7	LOS A	3.3	23.7	0.77	0.81	0.79	51.8
Approach		387	2.0	391	2.0	0.451	8.8	LOS A	3.3	23.7	0.77	0.81	0.79	52.1
West: 48 Avenue														
10	L2	193	2.0	195	2.0	0.552	9.5	LOS A	5.4	38.6	0.46	0.51	0.46	53.9
11	T1	555	2.0	561	2.0	0.552	4.9	LOS A	5.4	38.6	0.46	0.51	0.46	54.0
12	R2	5	2.0	5	2.0	0.552	4.6	LOS A	5.4	38.6	0.46	0.51	0.46	52.7
Approach		753	2.0	761	2.0	0.552	6.1	LOS A	5.4	38.6	0.46	0.51	0.46	54.0
All Vehicles		1764	2.0	1782	2.0	0.552	6.5	LOS A	5.4	38.6	0.57	0.59	0.57	53.5

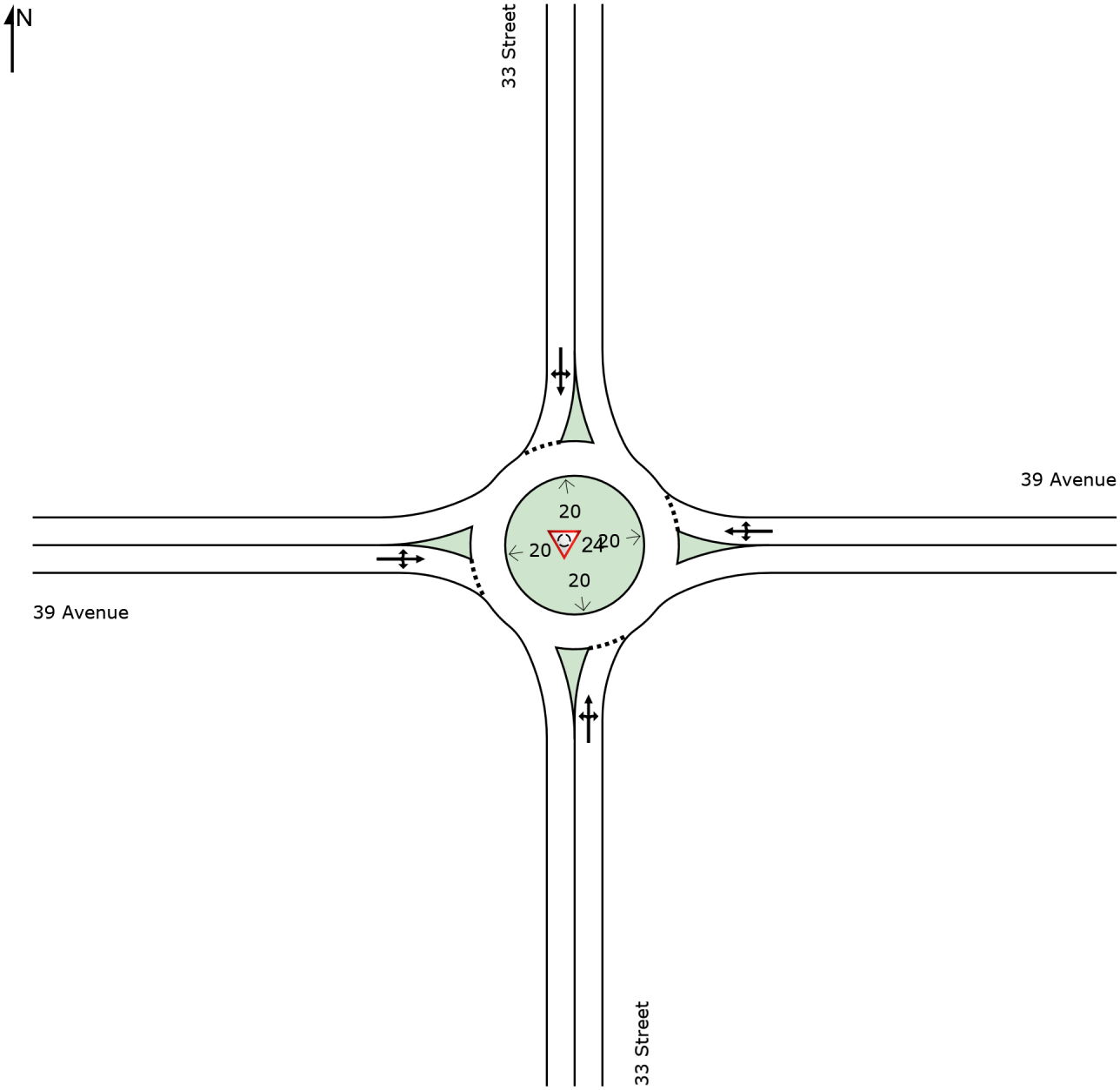
Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

SITE LAYOUT

Site: 24 [BG2045_39 Ave & 33 St_AM (Site Folder: 2045 Background Traffic)]

2045 Background Traffic
Site Category: G5
Roundabout

Layout pictures are schematic functional drawings reflecting input data. They are not design drawings.



MOVEMENT SUMMARY

Site: 24 [BG2030_39 Ave & 33 St_AM (Site Folder: 2030 Background Traffic)]

2030 Background Traffic
Site Category: G5
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South: 33 Street														
1	L2	65	12.0	76	12.0	0.295	9.3	LOS A	1.9	13.8	0.55	0.61	0.55	47.3
2	T1	7	2.0	8	2.0	0.295	4.5	LOS A	1.9	13.8	0.55	0.61	0.55	47.3
3	R2	188	2.0	221	2.0	0.295	4.6	LOS A	1.9	13.8	0.55	0.61	0.55	46.2
Approach		260	4.5	306	4.5	0.295	5.8	LOS A	1.9	13.8	0.55	0.61	0.55	46.5
East: 39 Avenue														
4	L2	267	2.0	314	2.0	0.427	9.3	LOS A	3.4	24.1	0.36	0.55	0.36	53.5
5	T1	218	3.0	256	3.0	0.427	4.7	LOS A	3.4	24.1	0.36	0.55	0.36	53.6
6	R2	14	8.0	16	8.0	0.427	4.6	LOS A	3.4	24.1	0.36	0.55	0.36	52.2
Approach		499	2.6	587	2.6	0.427	7.2	LOS A	3.4	24.1	0.36	0.55	0.36	53.5
North: 33 Street														
7	L2	5	2.0	6	2.0	0.023	12.2	LOS B	0.1	0.9	0.65	0.64	0.65	52.6
8	T1	5	20.0	6	20.0	0.023	8.1	LOS A	0.1	0.9	0.65	0.64	0.65	52.3
9	R2	5	2.0	6	2.0	0.023	7.3	LOS A	0.1	0.9	0.65	0.64	0.65	51.5
Approach		15	8.0	18	8.0	0.023	9.2	LOS A	0.1	0.9	0.65	0.64	0.65	52.1
West: 39 Avenue														
10	L2	5	2.0	6	2.0	0.366	10.8	LOS B	2.4	17.3	0.59	0.63	0.59	54.1
11	T1	240	2.0	282	2.0	0.366	6.2	LOS A	2.4	17.3	0.59	0.63	0.59	54.2
12	R2	77	10.0	91	10.0	0.366	6.2	LOS A	2.4	17.3	0.59	0.63	0.59	52.7
Approach		322	3.9	379	3.9	0.366	6.3	LOS A	2.4	17.3	0.59	0.63	0.59	53.8
All Vehicles		1096	3.5	1289	3.5	0.427	6.6	LOS A	3.4	24.1	0.48	0.59	0.48	51.7

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

MOVEMENT SUMMARY

Site: 24 [BG2030_39 Ave & 33 St_PM (Site Folder: 2030 Background Traffic)]

2030 Background Traffic
Site Category: G5
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South: 33 Street														
1	L2	46	2.0	48	2.0	0.372	8.3	LOS A	2.6	18.4	0.44	0.51	0.44	48.0
2	T1	8	2.0	8	2.0	0.372	3.8	LOS A	2.6	18.4	0.44	0.51	0.44	47.9
3	R2	393	2.0	409	2.0	0.372	3.8	LOS A	2.6	18.4	0.44	0.51	0.44	46.8
Approach		447	2.0	466	2.0	0.372	4.3	LOS A	2.6	18.4	0.44	0.51	0.44	46.9
East: 39 Avenue														
4	L2	252	3.0	263	3.0	0.362	9.1	LOS A	2.6	18.6	0.26	0.53	0.26	54.0
5	T1	229	2.0	239	2.0	0.362	4.5	LOS A	2.6	18.6	0.26	0.53	0.26	54.1
6	R2	21	2.0	22	2.0	0.362	4.2	LOS A	2.6	18.6	0.26	0.53	0.26	52.8
Approach		502	2.5	523	2.5	0.362	6.8	LOS A	2.6	18.6	0.26	0.53	0.26	54.0
North: 33 Street														
7	L2	17	2.0	18	2.0	0.044	11.5	LOS B	0.2	1.7	0.59	0.65	0.59	52.8
8	T1	10	2.0	10	2.0	0.044	6.9	LOS A	0.2	1.7	0.59	0.65	0.59	52.9
9	R2	11	2.0	11	2.0	0.044	6.7	LOS A	0.2	1.7	0.59	0.65	0.59	51.7
Approach		38	2.0	40	2.0	0.044	8.9	LOS A	0.2	1.7	0.59	0.65	0.59	52.5
West: 39 Avenue														
10	L2	5	2.0	5	2.0	0.180	10.3	LOS B	1.0	7.1	0.47	0.56	0.47	54.6
11	T1	133	2.0	139	2.0	0.180	5.7	LOS A	1.0	7.1	0.47	0.56	0.47	54.7
12	R2	49	2.0	51	2.0	0.180	5.4	LOS A	1.0	7.1	0.47	0.56	0.47	53.4
Approach		187	2.0	195	2.0	0.180	5.7	LOS A	1.0	7.1	0.47	0.56	0.47	54.3
All Vehicles		1174	2.2	1223	2.2	0.372	5.7	LOS A	2.6	18.6	0.37	0.53	0.37	51.1

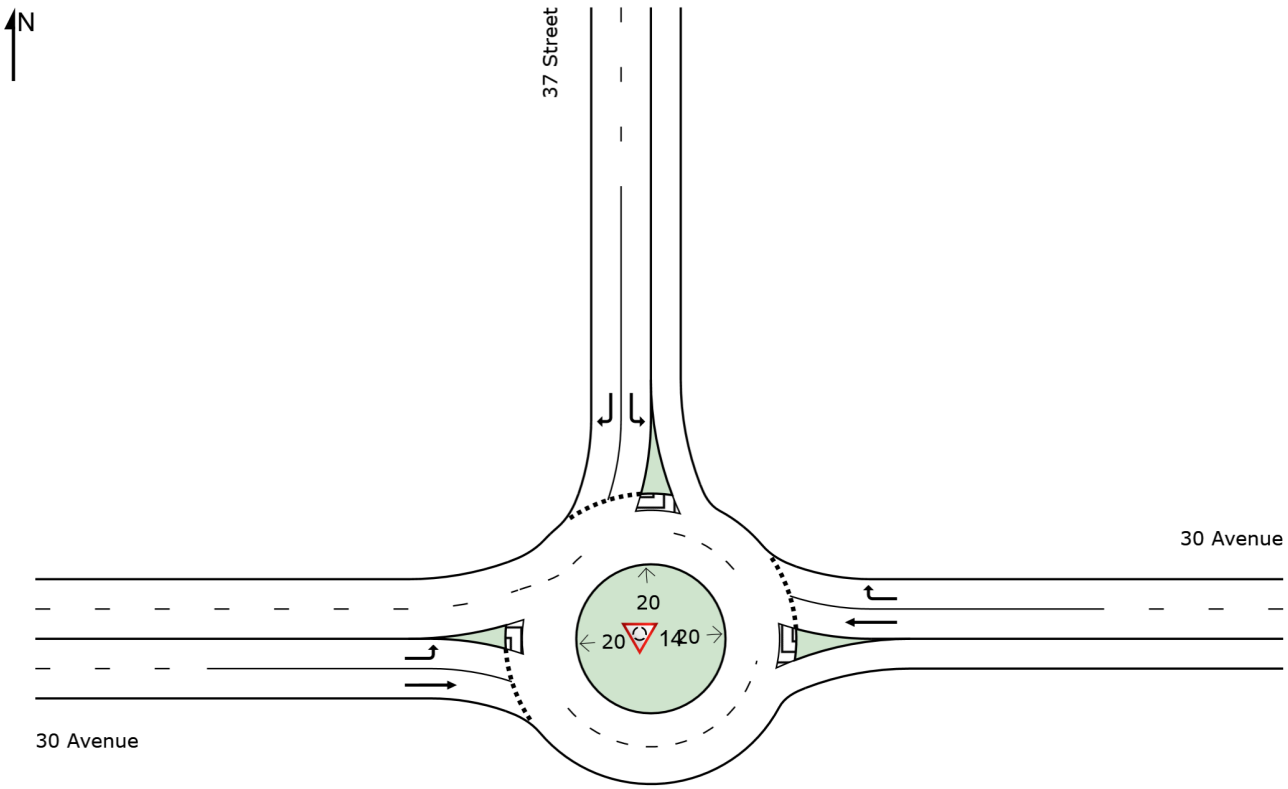
Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

SITE LAYOUT

Site: 14 [BG2045_30 Ave & 37 St_AM (Site Folder: 2045 Background Traffic)]

2045 Background Traffic
Site Category: G1
Roundabout

Layout pictures are schematic functional drawings reflecting input data. They are not design drawings.



MOVEMENT SUMMARY

Site: 14 [BG2030_30 Ave & 37 St_AM (Site Folder: 2030 Background Traffic)]

2030 Background Traffic
Site Category: G1
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
East: 30 Avenue														
5	T1	175	4.0	188	4.0	0.469	10.4	LOS B	3.9	28.6	0.93	0.95	1.02	51.9
6	R2	98	4.0	105	4.0	0.469	10.2	LOS B	3.9	28.6	0.93	0.95	1.02	50.7
Approach		273	4.0	294	4.0	0.469	10.3	LOS B	3.9	28.6	0.93	0.95	1.02	51.4
North: 37 Street														
7	L2	185	2.0	199	2.0	0.530	10.1	LOS B	4.8	34.6	0.61	0.62	0.61	53.7
9	R2	400	4.0	430	4.0	0.530	5.3	LOS A	4.8	34.6	0.61	0.62	0.61	52.5
Approach		585	3.4	629	3.4	0.530	6.9	LOS A	4.8	34.6	0.61	0.62	0.61	52.8
West: 30 Avenue														
10	L2	661	3.0	711	3.0	0.852	13.9	LOS B	16.1	115.0	0.96	0.76	1.09	50.4
11	T1	314	2.0	338	2.0	0.852	9.3	LOS A	16.1	115.0	0.96	0.76	1.09	50.5
Approach		975	2.7	1048	2.7	0.852	12.4	LOS B	16.1	115.0	0.96	0.76	1.09	50.4
All Vehicles		1833	3.1	1971	3.1	0.852	10.3	LOS B	16.1	115.0	0.84	0.75	0.93	51.3

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

MOVEMENT SUMMARY

Site: 14 [BG2030_30 Ave & 37 St_PM (Site Folder: 2030 Background Traffic)]

2030 Background Traffic
Site Category: G1
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
East: 30 Avenue														
5	T1	392	2.0	413	2.0	0.698	11.4	LOS B	8.4	60.2	0.93	0.99	1.19	51.2
6	R2	188	3.0	198	3.0	0.698	11.2	LOS B	8.4	60.2	0.93	0.99	1.19	50.0
Approach		580	2.3	611	2.3	0.698	11.3	LOS B	8.4	60.2	0.93	0.99	1.19	50.8
North: 37 Street														
7	L2	212	2.0	223	2.0	0.981	34.8	LOS C	31.0	220.7	1.00	1.47	2.25	40.1
9	R2	671	2.0	706	2.0	0.981	30.0	LOS C	31.0	220.7	1.00	1.47	2.25	39.4
Approach		883	2.0	929	2.0	0.981	31.1	LOS C	31.0	220.7	1.00	1.47	2.25	39.6
West: 30 Avenue														
10	L2	458	2.0	482	2.0	0.657	10.9	LOS B	7.1	50.9	0.76	0.68	0.77	51.9
11	T1	265	2.0	279	2.0	0.657	6.2	LOS A	7.1	50.9	0.76	0.68	0.77	52.0
Approach		723	2.0	761	2.0	0.657	9.2	LOS A	7.1	50.9	0.76	0.68	0.77	51.9
All Vehicles		2186	2.1	2301	2.1	0.981	18.6	LOS B	31.0	220.7	0.90	1.08	1.48	45.9

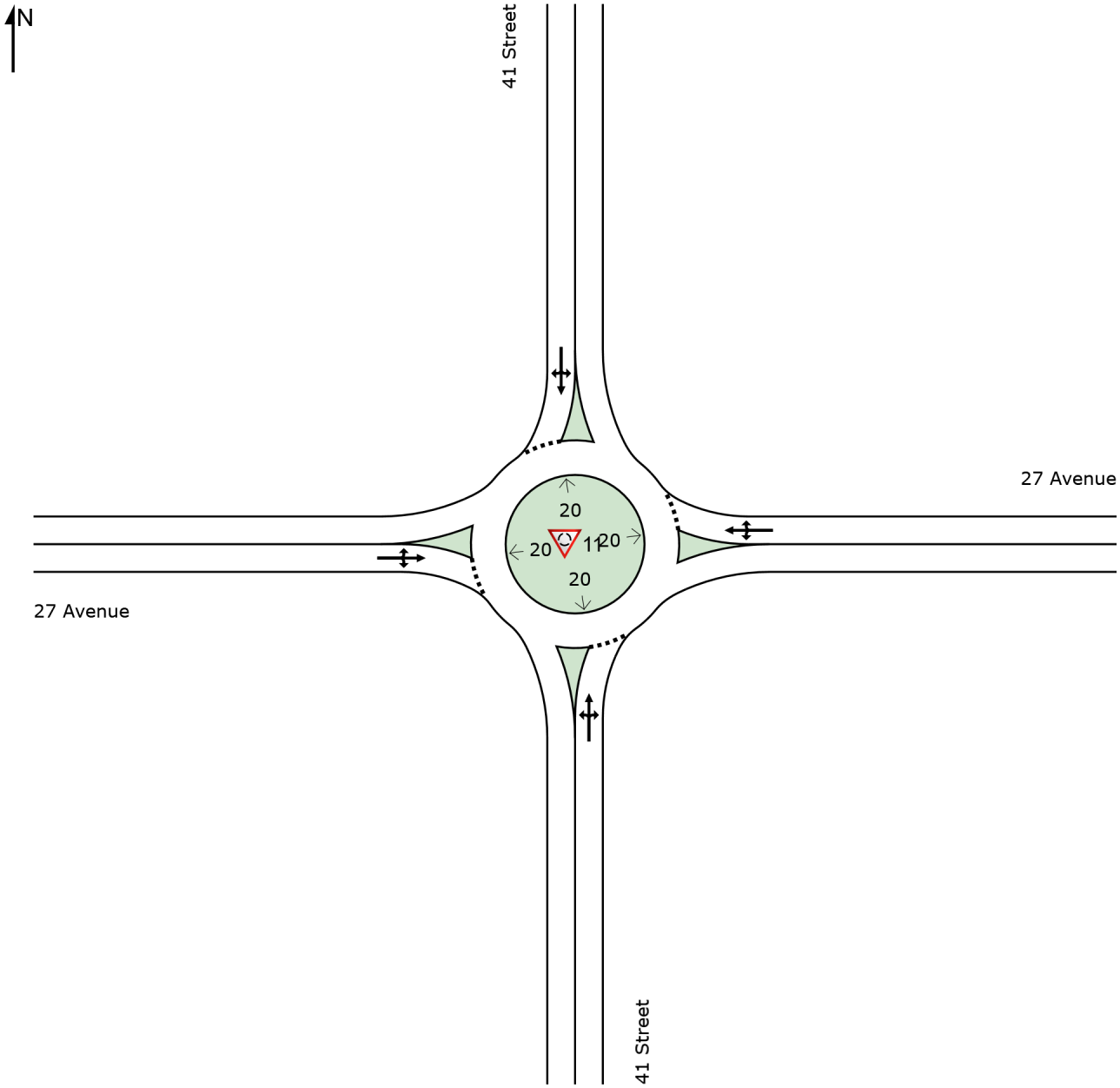
Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

SITE LAYOUT

Site: 11 [BG2045_27 Ave & 41 St_AM (Site Folder: 2045 Background Traffic)]

2045 Background Traffic
Site Category: G8
Roundabout

Layout pictures are schematic functional drawings reflecting input data. They are not design drawings.



MOVEMENT SUMMARY

Site: 11 [BG2030_27 Ave & 41 St_AM (Site Folder: 2030 Background Traffic)]

2030 Background Traffic
Site Category: G8
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South: 41 Street														
1	L2	21	2.0	23	2.0	0.394	8.1	LOS A	2.8	20.6	0.40	0.42	0.40	48.0
2	T1	429	4.0	466	4.0	0.394	3.6	LOS A	2.8	20.6	0.40	0.42	0.40	47.8
3	R2	21	5.0	23	5.0	0.394	3.7	LOS A	2.8	20.6	0.40	0.42	0.40	46.7
Approach		471	4.0	512	4.0	0.394	3.8	LOS A	2.8	20.6	0.40	0.42	0.40	47.7
East: 27 Avenue														
4	L2	5	25.0	5	25.0	0.042	12.6	LOS B	0.2	1.8	0.63	0.64	0.63	52.5
5	T1	15	14.0	16	14.0	0.042	7.6	LOS A	0.2	1.8	0.63	0.64	0.63	53.2
6	R2	10	11.0	11	11.0	0.042	7.3	LOS A	0.2	1.8	0.63	0.64	0.63	52.0
Approach		30	14.8	33	14.8	0.042	8.3	LOS A	0.2	1.8	0.63	0.64	0.63	52.7
North: 41 Street														
7	L2	14	8.0	15	8.0	0.352	9.1	LOS A	2.5	17.6	0.21	0.43	0.21	55.5
8	T1	291	3.0	316	3.0	0.352	4.4	LOS A	2.5	17.6	0.21	0.43	0.21	55.9
9	R2	178	2.0	193	2.0	0.352	4.1	LOS A	2.5	17.6	0.21	0.43	0.21	54.5
Approach		483	2.8	525	2.8	0.352	4.4	LOS A	2.5	17.6	0.21	0.43	0.21	55.3
West: 27 Avenue														
10	L2	94	2.0	102	2.0	0.122	10.5	LOS B	0.6	4.6	0.48	0.67	0.48	52.3
11	T1	7	17.0	8	17.0	0.122	6.2	LOS A	0.6	4.6	0.48	0.67	0.48	52.1
12	R2	16	2.0	17	2.0	0.122	5.6	LOS A	0.6	4.6	0.48	0.67	0.48	51.2
Approach		117	2.9	127	2.9	0.122	9.5	LOS A	0.6	4.6	0.48	0.67	0.48	52.2
All Vehicles		1101	3.6	1197	3.6	0.394	4.8	LOS A	2.8	20.6	0.33	0.46	0.33	51.4

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

MOVEMENT SUMMARY

Site: 11 [BG2030_27 Ave & 41 St_PM (Site Folder: 2030 Background Traffic)]

2030 Background Traffic
Site Category: G8
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South: 41 Street														
1	L2	37	2.0	40	2.0	0.362	8.4	LOS A	2.5	18.2	0.48	0.47	0.48	47.6
2	T1	345	2.0	371	2.0	0.362	3.9	LOS A	2.5	18.2	0.48	0.47	0.48	47.4
3	R2	23	2.0	25	2.0	0.362	4.0	LOS A	2.5	18.2	0.48	0.47	0.48	46.4
Approach		405	2.0	435	2.0	0.362	4.4	LOS A	2.5	18.2	0.48	0.47	0.48	47.4
East: 27 Avenue														
4	L2	8	2.0	9	2.0	0.048	11.6	LOS B	0.3	1.9	0.61	0.64	0.61	53.5
5	T1	15	2.0	16	2.0	0.048	7.0	LOS A	0.3	1.9	0.61	0.64	0.61	53.6
6	R2	16	2.0	17	2.0	0.048	6.8	LOS A	0.3	1.9	0.61	0.64	0.61	52.3
Approach		39	2.0	42	2.0	0.048	7.9	LOS A	0.3	1.9	0.61	0.64	0.61	53.0
North: 41 Street														
7	L2	5	2.0	5	2.0	0.553	9.2	LOS A	5.0	35.9	0.33	0.44	0.33	55.4
8	T1	383	2.0	412	2.0	0.553	4.6	LOS A	5.0	35.9	0.33	0.44	0.33	55.5
9	R2	373	2.0	401	2.0	0.553	4.4	LOS A	5.0	35.9	0.33	0.44	0.33	54.2
Approach		761	2.0	818	2.0	0.553	4.5	LOS A	5.0	35.9	0.33	0.44	0.33	54.8
West: 27 Avenue														
10	L2	144	2.0	155	2.0	0.208	11.1	LOS B	1.2	8.7	0.58	0.72	0.58	52.1
11	T1	24	9.0	26	9.0	0.208	6.7	LOS A	1.2	8.7	0.58	0.72	0.58	52.0
12	R2	19	2.0	20	2.0	0.208	6.3	LOS A	1.2	8.7	0.58	0.72	0.58	51.0
Approach		187	2.9	201	2.9	0.208	10.1	LOS B	1.2	8.7	0.58	0.72	0.58	51.9
All Vehicles		1392	2.1	1497	2.1	0.553	5.3	LOS A	5.0	35.9	0.41	0.50	0.41	52.0

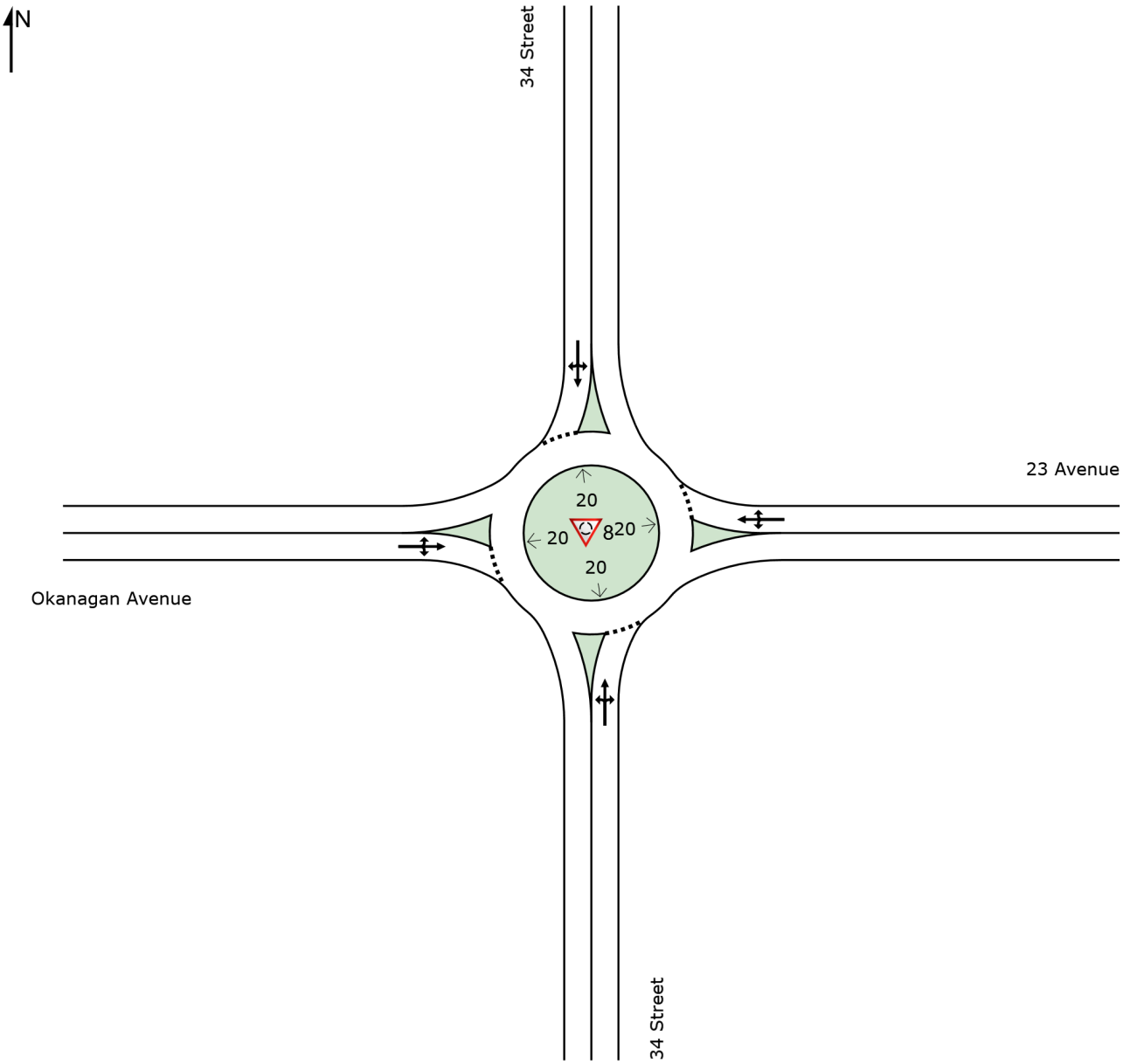
Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

SITE LAYOUT

Site: 8 [BG2045_34 St & Okanagan Ave/23 Ave_AM (Site Folder: 2045 Background Traffic)]

2045 Background Traffic
Site Category: G3
Roundabout

Layout pictures are schematic functional drawings reflecting input data. They are not design drawings.



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MOVEMENT SUMMARY

Site: 8 [BG2035_34 St & Okanagan Ave/23 Ave_AM (Site Folder: 2035 Background Traffic)]

2035 Background Traffic
Site Category: G3
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South: 34 Street														
1	L2	56	2.0	61	2.0	0.371	8.4	LOS A	2.6	18.2	0.45	0.47	0.45	47.6
2	T1	361	2.0	392	2.0	0.371	3.9	LOS A	2.6	18.2	0.45	0.47	0.45	47.4
3	R2	5	2.0	5	2.0	0.371	3.9	LOS A	2.6	18.2	0.45	0.47	0.45	46.4
Approach		422	2.0	459	2.0	0.371	4.4	LOS A	2.6	18.2	0.45	0.47	0.45	47.4
East: 23 Avenue														
4	L2	5	2.0	5	2.0	0.096	12.1	LOS B	0.5	4.0	0.65	0.68	0.65	53.6
5	T1	20	2.0	22	2.0	0.096	7.5	LOS A	0.5	4.0	0.65	0.68	0.65	53.7
6	R2	46	10.0	50	10.0	0.096	7.5	LOS A	0.5	4.0	0.65	0.68	0.65	52.2
Approach		71	7.2	77	7.2	0.096	7.8	LOS A	0.5	4.0	0.65	0.68	0.65	52.7
North: 34 Street														
7	L2	8	2.0	9	2.0	0.215	9.2	LOS A	1.3	9.0	0.27	0.44	0.27	55.5
8	T1	193	3.0	210	3.0	0.215	4.6	LOS A	1.3	9.0	0.27	0.44	0.27	55.5
9	R2	64	2.0	70	2.0	0.215	4.3	LOS A	1.3	9.0	0.27	0.44	0.27	54.2
Approach		265	2.7	288	2.7	0.215	4.7	LOS A	1.3	9.0	0.27	0.44	0.27	55.2
West: Okanagan Avenue														
10	L2	143	2.0	155	2.0	0.209	10.0	LOS A	1.2	8.4	0.43	0.63	0.43	53.1
11	T1	7	2.0	8	2.0	0.209	5.3	LOS A	1.2	8.4	0.43	0.63	0.43	53.1
12	R2	69	2.0	75	2.0	0.209	5.1	LOS A	1.2	8.4	0.43	0.63	0.43	51.9
Approach		219	2.0	238	2.0	0.209	8.3	LOS A	1.2	8.4	0.43	0.63	0.43	52.7
All Vehicles		977	2.6	1062	2.6	0.371	5.6	LOS A	2.6	18.2	0.41	0.51	0.41	50.9

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

MOVEMENT SUMMARY

Site: 8 [BG2035_34 St & Okanagan Ave/23 Ave_PM (Site Folder: 2035 Background Traffic)]

2035 Background Traffic
Site Category: G3
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South: 34 Street														
1	L2	51	2.0	53	2.0	0.318	8.1	LOS A	2.1	15.2	0.39	0.44	0.39	47.8
2	T1	332	3.0	346	3.0	0.318	3.6	LOS A	2.1	15.2	0.39	0.44	0.39	47.6
3	R2	5	2.0	5	2.0	0.318	3.6	LOS A	2.1	15.2	0.39	0.44	0.39	46.5
Approach		388	2.9	404	2.9	0.318	4.2	LOS A	2.1	15.2	0.39	0.44	0.39	47.6
East: 23 Avenue														
4	L2	5	2.0	5	2.0	0.118	11.5	LOS B	0.7	4.7	0.60	0.65	0.60	54.2
5	T1	34	2.0	35	2.0	0.118	6.9	LOS A	0.7	4.7	0.60	0.65	0.60	54.2
6	R2	63	2.0	66	2.0	0.118	6.7	LOS A	0.7	4.7	0.60	0.65	0.60	52.9
Approach		102	2.0	106	2.0	0.118	7.0	LOS A	0.7	4.7	0.60	0.65	0.60	53.4
North: 34 Street														
7	L2	11	11.0	11	11.0	0.353	9.4	LOS A	2.4	16.9	0.31	0.46	0.31	55.0
8	T1	302	2.0	315	2.0	0.353	4.7	LOS A	2.4	16.9	0.31	0.46	0.31	55.4
9	R2	152	2.0	158	2.0	0.353	4.4	LOS A	2.4	16.9	0.31	0.46	0.31	54.1
Approach		465	2.2	484	2.2	0.353	4.7	LOS A	2.4	16.9	0.31	0.46	0.31	55.0
West: Okanagan Avenue														
10	L2	116	2.0	121	2.0	0.147	10.5	LOS B	0.8	5.8	0.50	0.67	0.50	52.4
11	T1	6	2.0	6	2.0	0.147	5.8	LOS A	0.8	5.8	0.50	0.67	0.50	52.5
12	R2	26	2.0	27	2.0	0.147	5.6	LOS A	0.8	5.8	0.50	0.67	0.50	51.3
Approach		148	2.0	154	2.0	0.147	9.4	LOS A	0.8	5.8	0.50	0.67	0.50	52.2
All Vehicles		1103	2.4	1149	2.4	0.353	5.4	LOS A	2.4	16.9	0.39	0.50	0.39	51.7

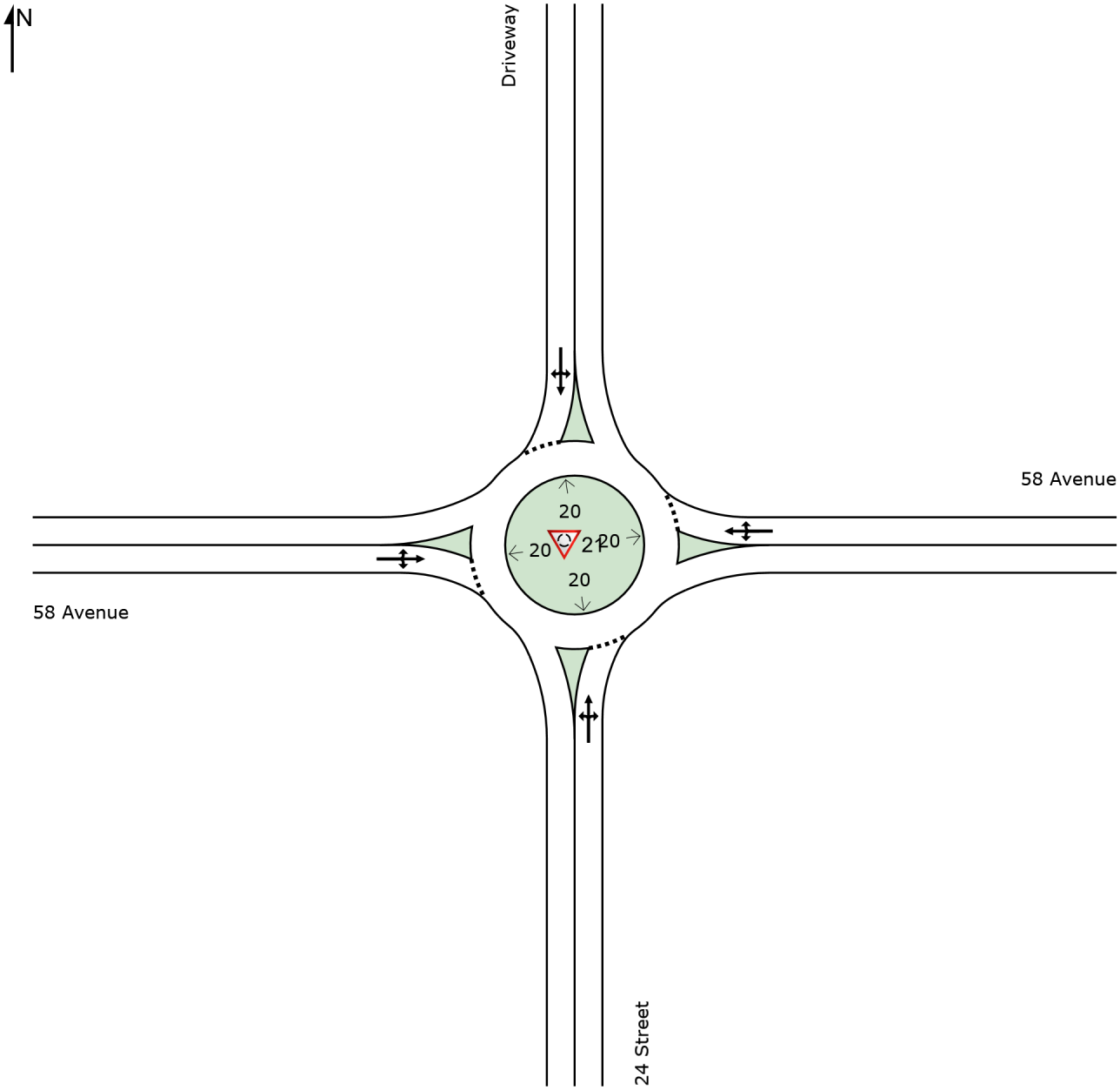
Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

SITE LAYOUT

Site: 21 [BG2045_58 Ave & 24 St_AM (Site Folder: 2045 Background Traffic)]

2045 Background Traffic
Site Category: G6
Roundabout

Layout pictures are schematic functional drawings reflecting input data. They are not design drawings.



MOVEMENT SUMMARY

Site: 21 [BG2035_58 Ave & 24 St_AM (Site Folder: 2035 Background Traffic)]

2035 Background Traffic
Site Category: G6
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South: 24 Street														
1	L2	16	7.0	17	7.0	0.077	9.3	LOS A	0.4	3.0	0.51	0.57	0.51	47.2
2	T1	32	4.0	35	4.0	0.077	4.7	LOS A	0.4	3.0	0.51	0.57	0.51	47.1
3	R2	21	11.0	23	11.0	0.077	4.9	LOS A	0.4	3.0	0.51	0.57	0.51	46.0
Approach		69	6.8	75	6.8	0.077	5.9	LOS A	0.4	3.0	0.51	0.57	0.51	46.8
East: 58 Avenue														
4	L2	36	2.0	39	2.0	0.318	10.2	LOS B	2.0	14.3	0.48	0.57	0.48	54.3
5	T1	252	6.0	274	6.0	0.318	5.6	LOS A	2.0	14.3	0.48	0.57	0.48	54.2
6	R2	41	2.0	45	2.0	0.318	5.3	LOS A	2.0	14.3	0.48	0.57	0.48	53.0
Approach		329	5.1	358	5.1	0.318	6.1	LOS A	2.0	14.3	0.48	0.57	0.48	54.1
North: Driveway														
7	L2	19	2.0	21	2.0	0.260	10.7	LOS B	1.6	11.4	0.56	0.63	0.56	54.6
8	T1	18	2.0	20	2.0	0.260	6.1	LOS A	1.6	11.4	0.56	0.63	0.56	54.7
9	R2	209	2.0	227	2.0	0.260	5.8	LOS A	1.6	11.4	0.56	0.63	0.56	53.4
Approach		246	2.0	267	2.0	0.260	6.2	LOS A	1.6	11.4	0.56	0.63	0.56	53.6
West: 58 Avenue														
10	L2	169	3.0	184	3.0	0.315	9.2	LOS A	2.0	15.0	0.28	0.53	0.28	54.1
11	T1	165	9.0	179	9.0	0.315	4.6	LOS A	2.0	15.0	0.28	0.53	0.28	54.1
12	R2	64	2.0	70	2.0	0.315	4.3	LOS A	2.0	15.0	0.28	0.53	0.28	53.0
Approach		398	5.3	433	5.3	0.315	6.5	LOS A	2.0	15.0	0.28	0.53	0.28	53.9
All Vehicles		1042	4.6	1133	4.6	0.318	6.3	LOS A	2.0	15.0	0.42	0.57	0.42	53.4

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

MOVEMENT SUMMARY

Site: 21 [BG2035_58 Ave & 24 St_PM (Site Folder: 2035 Background Traffic)]

2035 Background Traffic
Site Category: G6
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South: 24 Street														
1	L2	72	3.0	78	3.0	0.261	10.6	LOS B	1.6	11.7	0.68	0.73	0.68	46.4
2	T1	22	5.0	24	5.0	0.261	6.2	LOS A	1.6	11.7	0.68	0.73	0.68	46.3
3	R2	113	2.0	123	2.0	0.261	6.1	LOS A	1.6	11.7	0.68	0.73	0.68	45.3
Approach		207	2.7	225	2.7	0.261	7.7	LOS A	1.6	11.7	0.68	0.73	0.68	45.8
East: 58 Avenue														
4	L2	76	2.0	83	2.0	0.455	10.5	LOS B	3.3	23.2	0.56	0.61	0.56	53.8
5	T1	375	2.0	408	2.0	0.455	5.9	LOS A	3.3	23.2	0.56	0.61	0.56	53.8
6	R2	30	2.0	33	2.0	0.455	5.6	LOS A	3.3	23.2	0.56	0.61	0.56	52.6
Approach		481	2.0	523	2.0	0.455	6.6	LOS A	3.3	23.2	0.56	0.61	0.56	53.7
North: Driveway														
7	L2	13	2.0	14	2.0	0.294	12.3	LOS B	1.9	13.6	0.72	0.76	0.72	53.7
8	T1	18	2.0	20	2.0	0.294	7.7	LOS A	1.9	13.6	0.72	0.76	0.72	53.8
9	R2	196	2.0	213	2.0	0.294	7.5	LOS A	1.9	13.6	0.72	0.76	0.72	52.5
Approach		227	2.0	247	2.0	0.294	7.8	LOS A	1.9	13.6	0.72	0.76	0.72	52.7
West: 58 Avenue														
10	L2	137	2.0	149	2.0	0.523	9.6	LOS A	4.5	31.9	0.44	0.52	0.44	54.3
11	T1	349	2.0	379	2.0	0.523	5.0	LOS A	4.5	31.9	0.44	0.52	0.44	54.3
12	R2	166	2.0	180	2.0	0.523	4.7	LOS A	4.5	31.9	0.44	0.52	0.44	53.1
Approach		652	2.0	709	2.0	0.523	5.9	LOS A	4.5	31.9	0.44	0.52	0.44	54.0
All Vehicles		1567	2.1	1703	2.1	0.523	6.6	LOS A	4.5	31.9	0.55	0.61	0.55	52.5

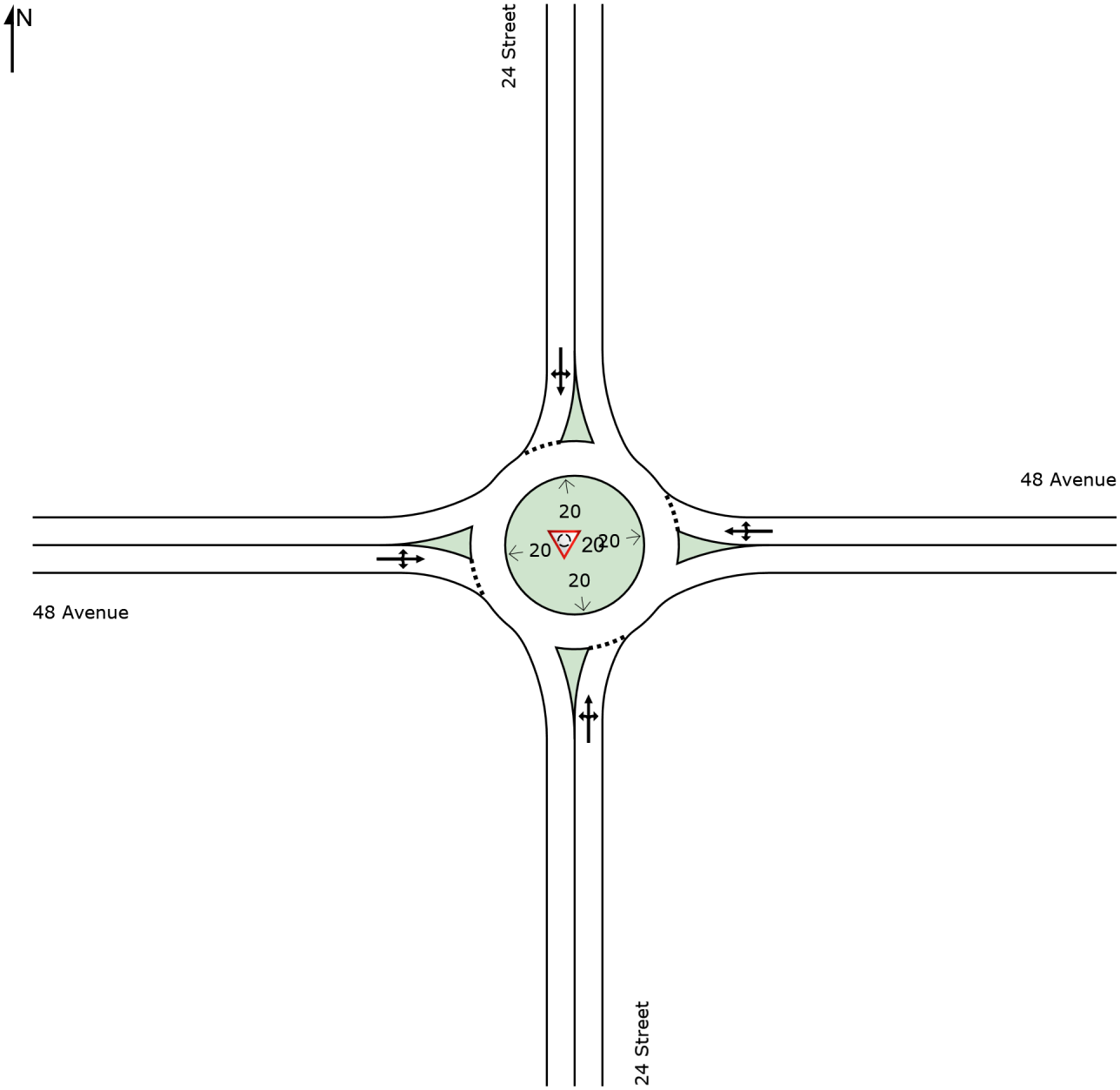
Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

SITE LAYOUT

Site: 20 [BG2045_48 Ave & 24 St_AM (Site Folder: 2045 Background Traffic)]

2045 Background Traffic
Site Category: G6
Roundabout

Layout pictures are schematic functional drawings reflecting input data. They are not design drawings.



MOVEMENT SUMMARY

Site: 20 [BG2035_48 Ave & 24 St_AM (Site Folder: 2035 Background Traffic)]

2035 Background Traffic
Site Category: G6
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South: 24 Street														
1	L2	5	2.0	5	2.0	0.018	9.6	LOS A	0.1	0.7	0.55	0.56	0.55	46.8
2	T1	5	2.0	5	2.0	0.018	5.1	LOS A	0.1	0.7	0.55	0.56	0.55	46.7
3	R2	5	20.0	5	20.0	0.018	5.6	LOS A	0.1	0.7	0.55	0.56	0.55	45.5
Approach		15	8.0	16	8.0	0.018	6.8	LOS A	0.1	0.7	0.55	0.56	0.55	46.3
East: 48 Avenue														
4	L2	5	2.0	5	2.0	0.619	10.0	LOS B	5.7	41.3	0.54	0.52	0.54	54.3
5	T1	642	4.0	698	4.0	0.619	5.4	LOS A	5.7	41.3	0.54	0.52	0.54	54.3
6	R2	97	2.0	105	2.0	0.619	5.2	LOS A	5.7	41.3	0.54	0.52	0.54	53.0
Approach		744	3.7	809	3.7	0.619	5.4	LOS A	5.7	41.3	0.54	0.52	0.54	54.1
North: 24 Street														
7	L2	35	7.0	38	7.0	0.239	13.6	LOS B	1.6	11.4	0.78	0.81	0.78	52.2
8	T1	5	2.0	5	2.0	0.239	8.8	LOS A	1.6	11.4	0.78	0.81	0.78	52.4
9	R2	117	2.0	127	2.0	0.239	8.5	LOS A	1.6	11.4	0.78	0.81	0.78	51.2
Approach		157	3.1	171	3.1	0.239	9.7	LOS A	1.6	11.4	0.78	0.81	0.78	51.4
West: 48 Avenue														
10	L2	125	3.0	136	3.0	0.314	9.0	LOS A	2.3	17.4	0.24	0.48	0.24	54.6
11	T1	278	11.0	302	11.0	0.314	4.5	LOS A	2.3	17.4	0.24	0.48	0.24	54.4
12	R2	5	33.0	5	33.0	0.314	4.5	LOS A	2.3	17.4	0.24	0.48	0.24	52.5
Approach		408	8.8	443	8.8	0.314	5.9	LOS A	2.3	17.4	0.24	0.48	0.24	54.5
All Vehicles		1324	5.3	1439	5.3	0.619	6.1	LOS A	5.7	41.3	0.48	0.55	0.48	53.8

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

MOVEMENT SUMMARY

Site: 20 [BG2035_48 Ave & 24 St_PM (Site Folder: 2035 Background Traffic)]

2035 Background Traffic
Site Category: G6
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South: 24 Street														
1	L2	5	2.0	5	2.0	0.026	13.2	LOS B	0.2	1.2	0.80	0.69	0.80	45.1
2	T1	5	2.0	5	2.0	0.026	8.7	LOS A	0.2	1.2	0.80	0.69	0.80	44.9
3	R2	5	2.0	5	2.0	0.026	8.8	LOS A	0.2	1.2	0.80	0.69	0.80	43.9
Approach		15	2.0	15	2.0	0.026	10.3	LOS B	0.2	1.2	0.80	0.69	0.80	44.6
East: 48 Avenue														
4	L2	5	2.0	5	2.0	0.554	10.4	LOS B	4.7	33.4	0.61	0.58	0.61	54.0
5	T1	539	2.0	544	2.0	0.554	5.8	LOS A	4.7	33.4	0.61	0.58	0.61	54.0
6	R2	107	2.0	108	2.0	0.554	5.6	LOS A	4.7	33.4	0.61	0.58	0.61	52.8
Approach		651	2.0	658	2.0	0.554	5.8	LOS A	4.7	33.4	0.61	0.58	0.61	53.8
North: 24 Street														
7	L2	95	2.0	96	2.0	0.503	13.6	LOS B	4.2	29.6	0.82	0.87	0.90	52.2
8	T1	5	2.0	5	2.0	0.503	8.9	LOS A	4.2	29.6	0.82	0.87	0.90	52.2
9	R2	314	2.0	317	2.0	0.503	8.7	LOS A	4.2	29.6	0.82	0.87	0.90	51.0
Approach		414	2.0	418	2.0	0.503	9.8	LOS A	4.2	29.6	0.82	0.87	0.90	51.3
West: 48 Avenue														
10	L2	207	2.0	209	2.0	0.596	9.6	LOS A	6.3	44.8	0.51	0.52	0.51	53.7
11	T1	594	2.0	600	2.0	0.596	5.0	LOS A	6.3	44.8	0.51	0.52	0.51	53.8
12	R2	5	2.0	5	2.0	0.596	4.8	LOS A	6.3	44.8	0.51	0.52	0.51	52.5
Approach		806	2.0	814	2.0	0.596	6.2	LOS A	6.3	44.8	0.51	0.52	0.51	53.8
All Vehicles		1886	2.0	1905	2.0	0.596	6.9	LOS A	6.3	44.8	0.62	0.62	0.63	53.1

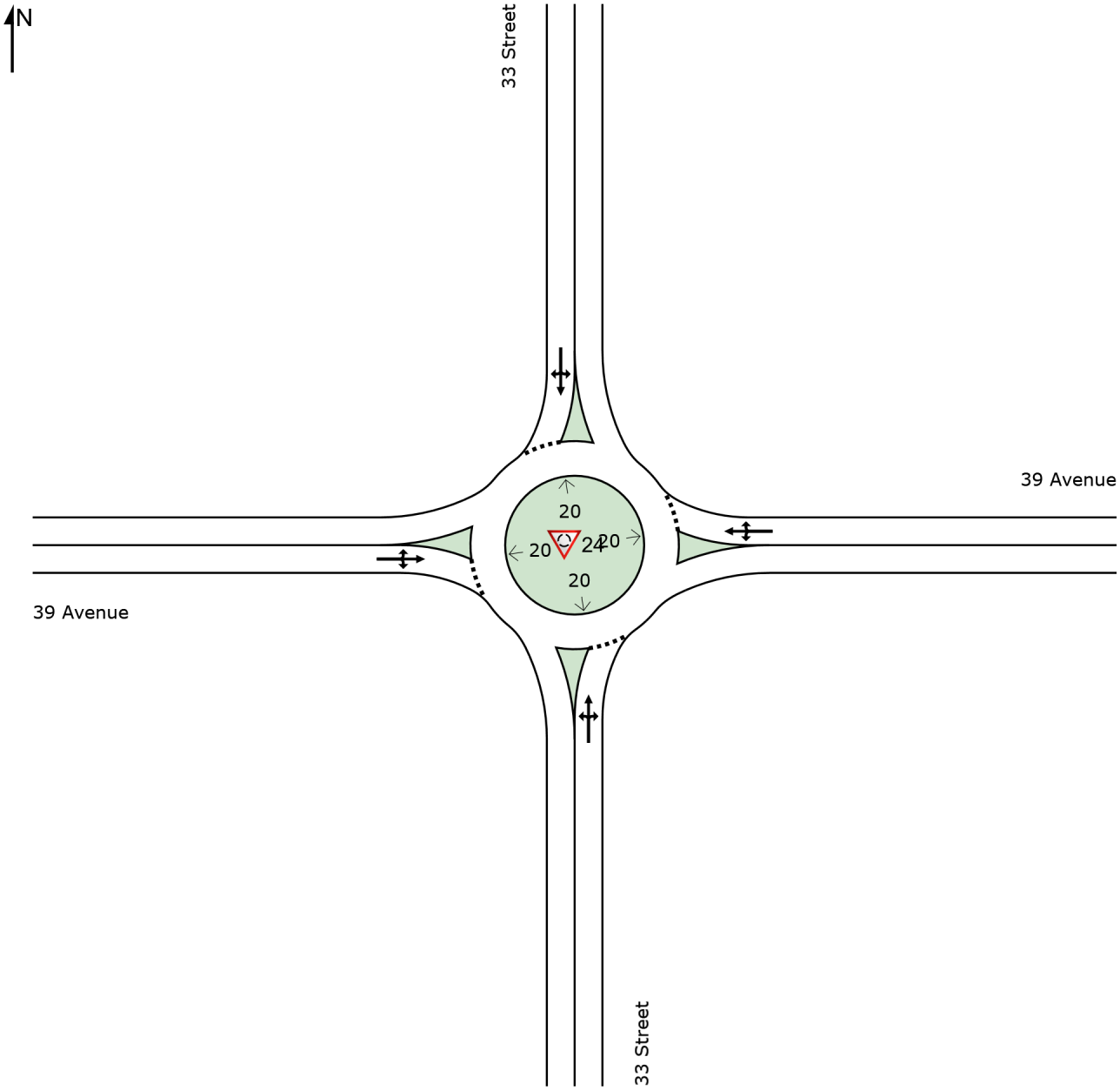
Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

SITE LAYOUT

Site: 24 [BG2045_39 Ave & 33 St_AM (Site Folder: 2045 Background Traffic)]

2045 Background Traffic
Site Category: G5
Roundabout

Layout pictures are schematic functional drawings reflecting input data. They are not design drawings.



MOVEMENT SUMMARY

Site: 24 [BG2035_39 Ave & 33 St_AM (Site Folder: 2035 Background Traffic)]

2035 Background Traffic
Site Category: G5
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South: 33 Street														
1	L2	70	12.0	82	12.0	0.321	9.5	LOS A	2.1	15.4	0.58	0.63	0.58	47.2
2	T1	7	2.0	8	2.0	0.321	4.7	LOS A	2.1	15.4	0.58	0.63	0.58	47.2
3	R2	201	2.0	236	2.0	0.321	4.8	LOS A	2.1	15.4	0.58	0.63	0.58	46.1
Approach		278	4.5	327	4.5	0.321	5.9	LOS A	2.1	15.4	0.58	0.63	0.58	46.4
East: 39 Avenue														
4	L2	286	2.0	336	2.0	0.460	9.4	LOS A	3.8	27.2	0.39	0.55	0.39	53.4
5	T1	233	3.0	274	3.0	0.460	4.8	LOS A	3.8	27.2	0.39	0.55	0.39	53.4
6	R2	15	8.0	18	8.0	0.460	4.7	LOS A	3.8	27.2	0.39	0.55	0.39	52.1
Approach		534	2.6	628	2.6	0.460	7.3	LOS A	3.8	27.2	0.39	0.55	0.39	53.4
North: 33 Street														
7	L2	5	2.0	6	2.0	0.024	12.5	LOS B	0.1	1.0	0.68	0.65	0.68	52.4
8	T1	5	20.0	6	20.0	0.024	8.5	LOS A	0.1	1.0	0.68	0.65	0.68	52.0
9	R2	5	2.0	6	2.0	0.024	7.7	LOS A	0.1	1.0	0.68	0.65	0.68	51.2
Approach		15	8.0	18	8.0	0.024	9.6	LOS A	0.1	1.0	0.68	0.65	0.68	51.9
West: 39 Avenue														
10	L2	5	2.0	6	2.0	0.401	11.1	LOS B	2.7	19.6	0.62	0.65	0.62	53.9
11	T1	257	2.0	302	2.0	0.401	6.4	LOS A	2.7	19.6	0.62	0.65	0.62	54.0
12	R2	83	10.0	98	10.0	0.401	6.4	LOS A	2.7	19.6	0.62	0.65	0.62	52.5
Approach		345	3.9	406	3.9	0.401	6.5	LOS A	2.7	19.6	0.62	0.65	0.62	53.6
All Vehicles		1172	3.5	1379	3.5	0.460	6.8	LOS A	3.8	27.2	0.51	0.60	0.51	51.6

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

MOVEMENT SUMMARY

Site: 24 [BG2035_39 Ave & 33 St_PM (Site Folder: 2035 Background Traffic)]

2035 Background Traffic
Site Category: G5
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South: 33 Street														
1	L2	49	2.0	51	2.0	0.401	8.4	LOS A	2.9	20.5	0.46	0.52	0.46	48.0
2	T1	8	2.0	8	2.0	0.401	3.9	LOS A	2.9	20.5	0.46	0.52	0.46	47.8
3	R2	420	2.0	438	2.0	0.401	3.9	LOS A	2.9	20.5	0.46	0.52	0.46	46.7
Approach		477	2.0	497	2.0	0.401	4.4	LOS A	2.9	20.5	0.46	0.52	0.46	46.8
East: 39 Avenue														
4	L2	270	3.0	281	3.0	0.388	9.1	LOS A	2.9	20.7	0.28	0.53	0.28	53.9
5	T1	245	2.0	255	2.0	0.388	4.5	LOS A	2.9	20.7	0.28	0.53	0.28	54.0
6	R2	22	2.0	23	2.0	0.388	4.3	LOS A	2.9	20.7	0.28	0.53	0.28	52.7
Approach		537	2.5	559	2.5	0.388	6.8	LOS A	2.9	20.7	0.28	0.53	0.28	53.9
North: 33 Street														
7	L2	19	2.0	20	2.0	0.051	11.8	LOS B	0.3	2.0	0.61	0.67	0.61	52.6
8	T1	11	2.0	11	2.0	0.051	7.2	LOS A	0.3	2.0	0.61	0.67	0.61	52.7
9	R2	12	2.0	13	2.0	0.051	7.0	LOS A	0.3	2.0	0.61	0.67	0.61	51.5
Approach		42	2.0	44	2.0	0.051	9.2	LOS A	0.3	2.0	0.61	0.67	0.61	52.3
West: 39 Avenue														
10	L2	5	2.0	5	2.0	0.196	10.4	LOS B	1.1	7.8	0.49	0.57	0.49	54.5
11	T1	142	2.0	148	2.0	0.196	5.8	LOS A	1.1	7.8	0.49	0.57	0.49	54.6
12	R2	53	2.0	55	2.0	0.196	5.6	LOS A	1.1	7.8	0.49	0.57	0.49	53.3
Approach		200	2.0	208	2.0	0.196	5.9	LOS A	1.1	7.8	0.49	0.57	0.49	54.2
All Vehicles		1256	2.2	1308	2.2	0.401	5.8	LOS A	2.9	20.7	0.39	0.54	0.39	51.0

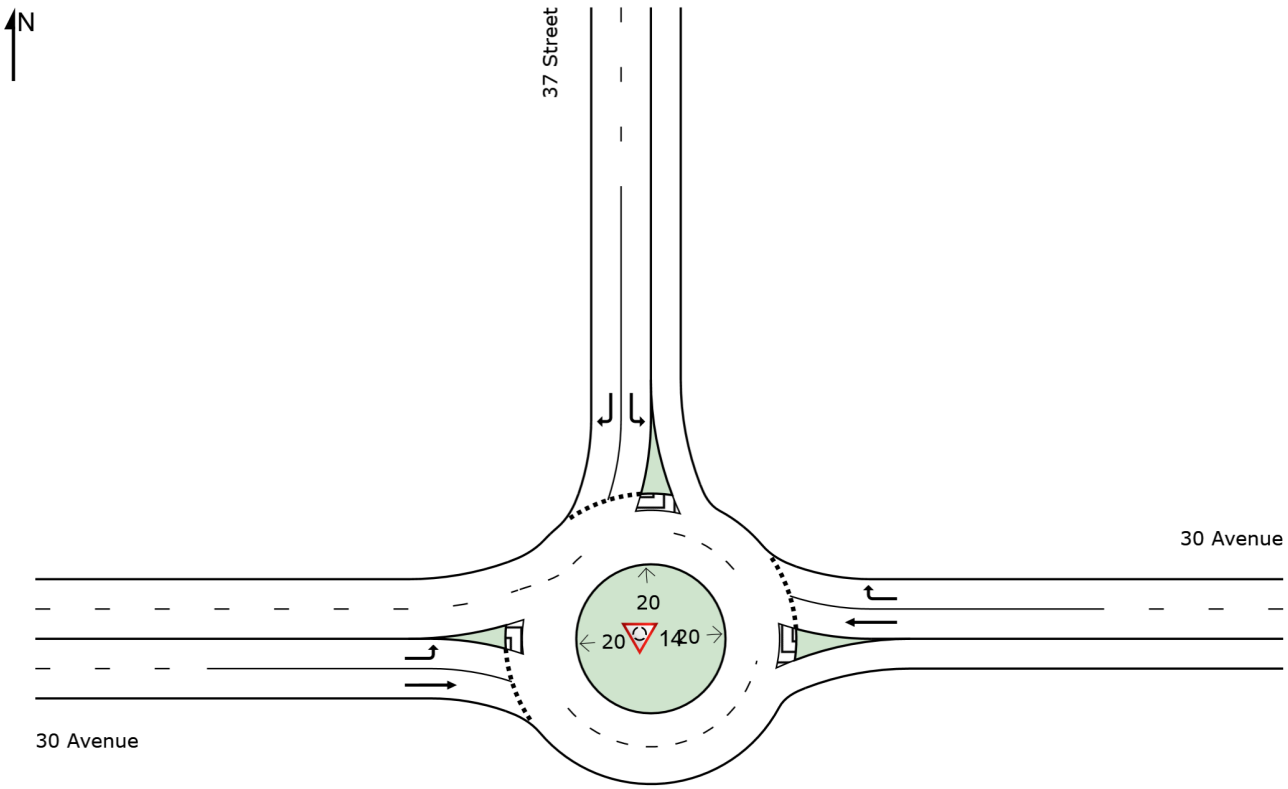
Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

SITE LAYOUT

Site: 14 [BG2045_30 Ave & 37 St_AM (Site Folder: 2045 Background Traffic)]

2045 Background Traffic
Site Category: G1
Roundabout

Layout pictures are schematic functional drawings reflecting input data. They are not design drawings.



MOVEMENT SUMMARY

Site: 14 [BG2035_30 Ave & 37 St_AM (Site Folder: 2035 Background Traffic)]

2035 Background Traffic
Site Category: G1
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
East: 30 Avenue														
5	T1	187	4.0	201	4.0	0.237	8.3	LOS A	1.8	12.7	0.82	0.77	0.82	52.9
6	R2	105	4.0	113	4.0	0.177	9.4	LOS A	1.1	8.2	0.79	0.80	0.79	51.2
Approach		292	4.0	314	4.0	0.237	8.7	LOS A	1.8	12.7	0.81	0.78	0.81	52.3
North: 37 Street														
7	L2	198	2.0	213	2.0	0.201	9.9	LOS A	1.2	8.9	0.46	0.65	0.46	51.7
9	R2	428	4.0	460	4.0	0.337	5.1	LOS A	2.5	18.3	0.49	0.56	0.49	53.5
Approach		626	3.4	673	3.4	0.337	6.6	LOS A	2.5	18.3	0.48	0.59	0.48	52.9
West: 30 Avenue														
10	L2	707	3.0	760	3.0	0.541	10.0	LOS B	4.7	33.4	0.56	0.66	0.56	51.3
11	T1	336	2.0	361	2.0	0.332	5.5	LOS A	2.2	15.4	0.49	0.54	0.49	54.5
Approach		1043	2.7	1122	2.7	0.541	8.6	LOS A	4.7	33.4	0.54	0.62	0.54	52.3
All Vehicles		1961	3.1	2109	3.1	0.541	8.0	LOS A	4.7	33.4	0.56	0.63	0.56	52.5

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

MOVEMENT SUMMARY

Site: 14 [BG2035_30 Ave & 37 St_PM (Site Folder: 2035 Background Traffic)]

2035 Background Traffic
Site Category: G1
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
East: 30 Avenue														
5	T1	419	2.0	441	2.0	0.403	6.9	LOS A	3.1	21.7	0.73	0.68	0.73	53.3
6	R2	201	3.0	212	3.0	0.257	7.5	LOS A	1.6	11.6	0.68	0.74	0.68	52.6
Approach		620	2.3	653	2.3	0.403	7.1	LOS A	3.1	21.7	0.72	0.70	0.72	53.1
North: 37 Street														
7	L2	226	2.0	238	2.0	0.303	11.9	LOS B	1.9	13.9	0.69	0.79	0.69	50.9
9	R2	718	2.0	756	2.0	0.664	8.6	LOS A	7.8	55.7	0.87	0.85	1.01	51.7
Approach		944	2.0	994	2.0	0.664	9.4	LOS A	7.8	55.7	0.83	0.84	0.93	51.5
West: 30 Avenue														
10	L2	490	2.0	516	2.0	0.381	9.9	LOS A	2.9	20.5	0.53	0.66	0.53	51.5
11	T1	284	2.0	299	2.0	0.276	5.5	LOS A	1.8	12.8	0.51	0.55	0.51	54.4
Approach		774	2.0	815	2.0	0.381	8.3	LOS A	2.9	20.5	0.52	0.62	0.52	52.5
All Vehicles		2338	2.1	2461	2.1	0.664	8.4	LOS A	7.8	55.7	0.70	0.73	0.74	52.2

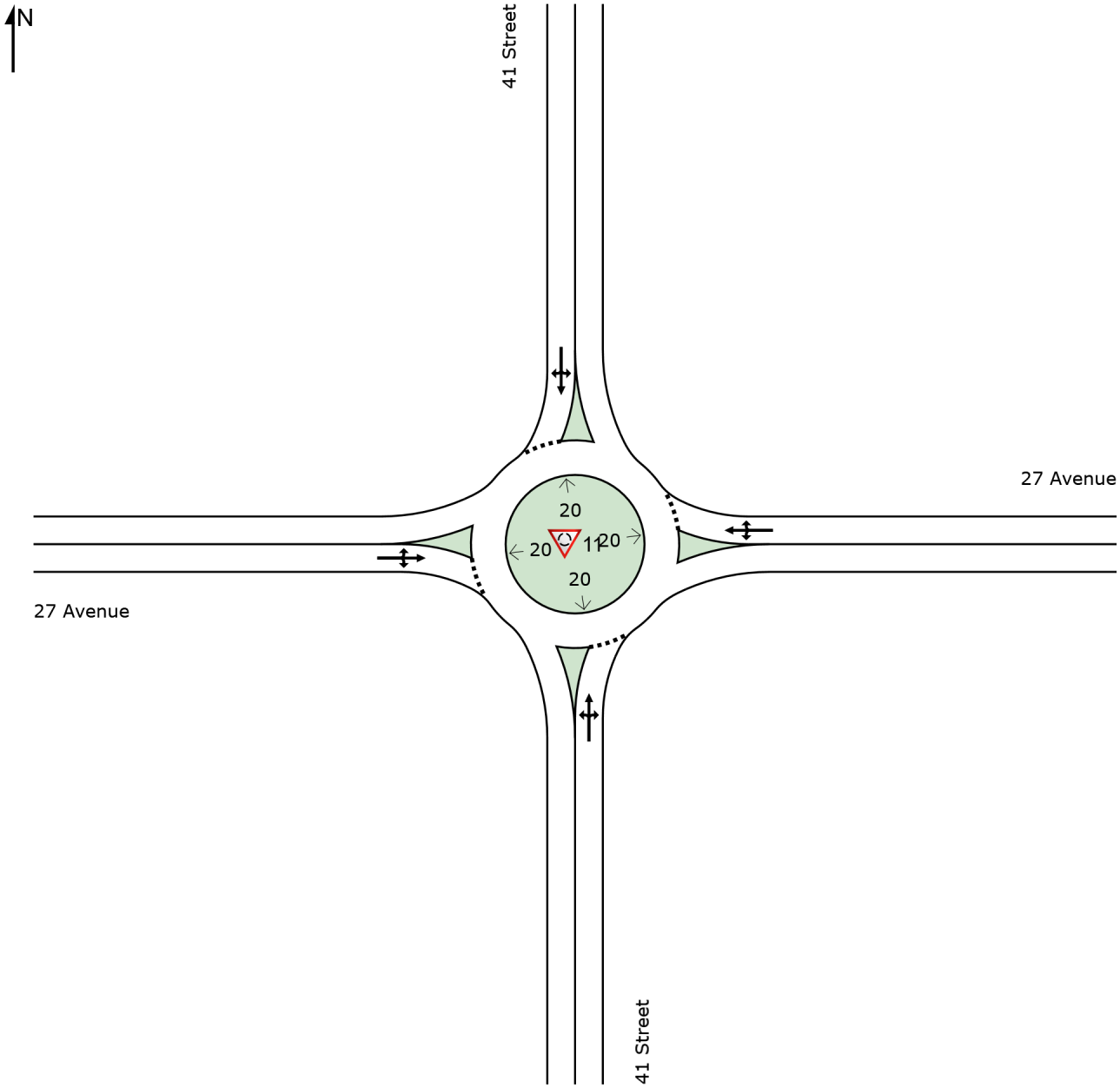
Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

SITE LAYOUT

Site: 11 [BG2045_27 Ave & 41 St_AM (Site Folder: 2045 Background Traffic)]

2045 Background Traffic
Site Category: G8
Roundabout

Layout pictures are schematic functional drawings reflecting input data. They are not design drawings.



MOVEMENT SUMMARY

Site: 11 [BG2035_27 Ave & 41 St_AM (Site Folder: 2035 Background Traffic)]

2035 Background Traffic
Site Category: G8
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South: 41 Street														
1	L2	22	2.0	24	2.0	0.424	8.2	LOS A	3.2	23.0	0.42	0.43	0.42	47.9
2	T1	459	4.0	499	4.0	0.424	3.7	LOS A	3.2	23.0	0.42	0.43	0.42	47.7
3	R2	22	5.0	24	5.0	0.424	3.7	LOS A	3.2	23.0	0.42	0.43	0.42	46.6
Approach		503	4.0	547	4.0	0.424	3.9	LOS A	3.2	23.0	0.42	0.43	0.42	47.6
East: 27 Avenue														
4	L2	5	25.0	5	25.0	0.047	13.0	LOS B	0.3	2.0	0.65	0.66	0.65	52.3
5	T1	16	14.0	17	14.0	0.047	7.9	LOS A	0.3	2.0	0.65	0.66	0.65	53.0
6	R2	11	11.0	12	11.0	0.047	7.6	LOS A	0.3	2.0	0.65	0.66	0.65	51.8
Approach		32	14.7	35	14.7	0.047	8.6	LOS A	0.3	2.0	0.65	0.66	0.65	52.5
North: 41 Street														
7	L2	15	8.0	16	8.0	0.378	9.1	LOS A	2.7	19.6	0.23	0.43	0.23	55.5
8	T1	312	3.0	339	3.0	0.378	4.4	LOS A	2.7	19.6	0.23	0.43	0.23	55.8
9	R2	190	2.0	207	2.0	0.378	4.2	LOS A	2.7	19.6	0.23	0.43	0.23	54.5
Approach		517	2.8	562	2.8	0.378	4.4	LOS A	2.7	19.6	0.23	0.43	0.23	55.3
West: 27 Avenue														
10	L2	100	2.0	109	2.0	0.133	10.6	LOS B	0.7	5.1	0.50	0.68	0.50	52.3
11	T1	7	17.0	8	17.0	0.133	6.3	LOS A	0.7	5.1	0.50	0.68	0.50	52.0
12	R2	18	2.0	20	2.0	0.133	5.8	LOS A	0.7	5.1	0.50	0.68	0.50	51.2
Approach		125	2.8	136	2.8	0.133	9.7	LOS A	0.7	5.1	0.50	0.68	0.50	52.1
All Vehicles		1177	3.6	1279	3.6	0.424	4.9	LOS A	3.2	23.0	0.35	0.46	0.35	51.3

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

MOVEMENT SUMMARY

Site: 11 [BG2035_27 Ave & 41 St_PM (Site Folder: 2035 Background Traffic)]

2035 Background Traffic
Site Category: G8
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South: 41 Street														
1	L2	40	2.0	43	2.0	0.394	8.6	LOS A	2.9	20.4	0.51	0.49	0.51	47.5
2	T1	369	2.0	397	2.0	0.394	4.1	LOS A	2.9	20.4	0.51	0.49	0.51	47.3
3	R2	25	2.0	27	2.0	0.394	4.1	LOS A	2.9	20.4	0.51	0.49	0.51	46.2
Approach		434	2.0	467	2.0	0.394	4.5	LOS A	2.9	20.4	0.51	0.49	0.51	47.3
East: 27 Avenue														
4	L2	8	2.0	9	2.0	0.054	11.9	LOS B	0.3	2.2	0.64	0.65	0.64	53.4
5	T1	16	2.0	17	2.0	0.054	7.3	LOS A	0.3	2.2	0.64	0.65	0.64	53.4
6	R2	18	2.0	19	2.0	0.054	7.1	LOS A	0.3	2.2	0.64	0.65	0.64	52.2
Approach		42	2.0	45	2.0	0.054	8.1	LOS A	0.3	2.2	0.64	0.65	0.64	52.9
North: 41 Street														
7	L2	5	2.0	5	2.0	0.594	9.3	LOS A	5.8	41.5	0.37	0.45	0.37	55.3
8	T1	410	2.0	441	2.0	0.594	4.7	LOS A	5.8	41.5	0.37	0.45	0.37	55.3
9	R2	399	2.0	429	2.0	0.594	4.5	LOS A	5.8	41.5	0.37	0.45	0.37	54.0
Approach		814	2.0	875	2.0	0.594	4.6	LOS A	5.8	41.5	0.37	0.45	0.37	54.7
West: 27 Avenue														
10	L2	154	2.0	166	2.0	0.230	11.4	LOS B	1.4	9.8	0.61	0.73	0.61	51.9
11	T1	26	9.0	28	9.0	0.230	6.9	LOS A	1.4	9.8	0.61	0.73	0.61	51.8
12	R2	20	2.0	22	2.0	0.230	6.5	LOS A	1.4	9.8	0.61	0.73	0.61	50.8
Approach		200	2.9	215	2.9	0.230	10.3	LOS B	1.4	9.8	0.61	0.73	0.61	51.8
All Vehicles		1490	2.1	1602	2.1	0.594	5.4	LOS A	5.8	41.5	0.45	0.50	0.45	51.9

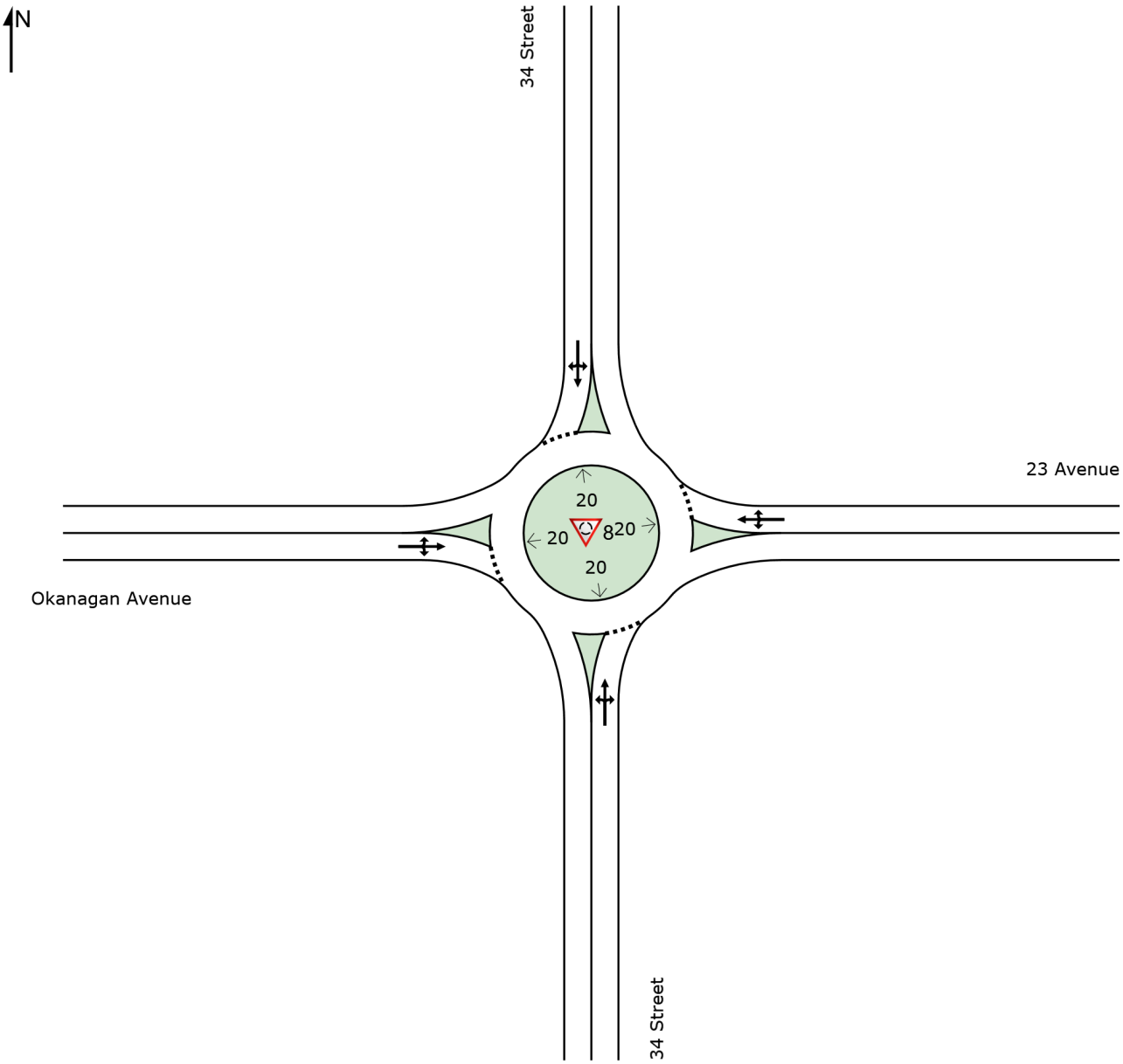
Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

SITE LAYOUT

Site: 8 [BG2045_34 St & Okanagan Ave/23 Ave_AM (Site Folder: 2045 Background Traffic)]

2045 Background Traffic
Site Category: G3
Roundabout

Layout pictures are schematic functional drawings reflecting input data. They are not design drawings.



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MOVEMENT SUMMARY

Site: 8 [BG2045_34 St & Okanagan Ave/23 Ave_AM (Site Folder: 2045 Background Traffic)]

2045 Background Traffic
Site Category: G3
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South: 34 Street														
1	L2	63	2.0	68	2.0	0.428	8.6	LOS A	3.1	22.4	0.50	0.50	0.50	47.4
2	T1	408	2.0	443	2.0	0.428	4.1	LOS A	3.1	22.4	0.50	0.50	0.50	47.2
3	R2	5	2.0	5	2.0	0.428	4.1	LOS A	3.1	22.4	0.50	0.50	0.50	46.2
Approach		476	2.0	517	2.0	0.428	4.7	LOS A	3.1	22.4	0.50	0.50	0.50	47.3
East: 23 Avenue														
4	L2	5	2.0	5	2.0	0.117	12.8	LOS B	0.7	5.2	0.71	0.72	0.71	53.2
5	T1	23	2.0	25	2.0	0.117	8.2	LOS A	0.7	5.2	0.71	0.72	0.71	53.3
6	R2	52	10.0	57	10.0	0.117	8.2	LOS A	0.7	5.2	0.71	0.72	0.71	51.8
Approach		80	7.2	87	7.2	0.117	8.5	LOS A	0.7	5.2	0.71	0.72	0.71	52.3
North: 34 Street														
7	L2	9	2.0	10	2.0	0.245	9.3	LOS A	1.5	10.7	0.30	0.45	0.30	55.4
8	T1	218	3.0	237	3.0	0.245	4.6	LOS A	1.5	10.7	0.30	0.45	0.30	55.4
9	R2	72	2.0	78	2.0	0.245	4.4	LOS A	1.5	10.7	0.30	0.45	0.30	54.1
Approach		299	2.7	325	2.7	0.245	4.7	LOS A	1.5	10.7	0.30	0.45	0.30	55.1
West: Okanagan Avenue														
10	L2	162	2.0	176	2.0	0.243	10.2	LOS B	1.4	10.1	0.47	0.65	0.47	52.9
11	T1	8	2.0	9	2.0	0.243	5.5	LOS A	1.4	10.1	0.47	0.65	0.47	53.0
12	R2	78	2.0	85	2.0	0.243	5.3	LOS A	1.4	10.1	0.47	0.65	0.47	51.8
Approach		248	2.0	270	2.0	0.243	8.5	LOS A	1.4	10.1	0.47	0.65	0.47	52.6
All Vehicles		1103	2.6	1199	2.6	0.428	5.8	LOS A	3.1	22.4	0.45	0.53	0.45	50.7

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

MOVEMENT SUMMARY

Site: 8 [BG2045_34 St & Okanagan Ave/23 Ave_PM (Site Folder: 2045 Background Traffic)]

2045 Background Traffic
Site Category: G3
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South: 34 Street														
1	L2	58	2.0	60	2.0	0.366	8.3	LOS A	2.6	18.4	0.43	0.46	0.43	47.6
2	T1	375	3.0	391	3.0	0.366	3.8	LOS A	2.6	18.4	0.43	0.46	0.43	47.5
3	R2	5	2.0	5	2.0	0.366	3.8	LOS A	2.6	18.4	0.43	0.46	0.43	46.4
Approach		438	2.9	456	2.9	0.366	4.4	LOS A	2.6	18.4	0.43	0.46	0.43	47.5
East: 23 Avenue														
4	L2	5	2.0	5	2.0	0.141	12.1	LOS B	0.8	5.9	0.65	0.69	0.65	53.8
5	T1	39	2.0	41	2.0	0.141	7.4	LOS A	0.8	5.9	0.65	0.69	0.65	53.9
6	R2	71	2.0	74	2.0	0.141	7.2	LOS A	0.8	5.9	0.65	0.69	0.65	52.6
Approach		115	2.0	120	2.0	0.141	7.5	LOS A	0.8	5.9	0.65	0.69	0.65	53.1
North: 34 Street														
7	L2	12	11.0	13	11.0	0.403	9.6	LOS A	2.9	20.5	0.35	0.47	0.35	54.8
8	T1	342	2.0	356	2.0	0.403	4.8	LOS A	2.9	20.5	0.35	0.47	0.35	55.3
9	R2	171	2.0	178	2.0	0.403	4.5	LOS A	2.9	20.5	0.35	0.47	0.35	53.9
Approach		525	2.2	547	2.2	0.403	4.8	LOS A	2.9	20.5	0.35	0.47	0.35	54.8
West: Okanagan Avenue														
10	L2	131	2.0	136	2.0	0.173	10.7	LOS B	1.0	7.0	0.54	0.69	0.54	52.3
11	T1	7	2.0	7	2.0	0.173	6.1	LOS A	1.0	7.0	0.54	0.69	0.54	52.3
12	R2	29	2.0	30	2.0	0.173	5.9	LOS A	1.0	7.0	0.54	0.69	0.54	51.1
Approach		167	2.0	174	2.0	0.173	9.7	LOS A	1.0	7.0	0.54	0.69	0.54	52.1
All Vehicles		1245	2.4	1297	2.4	0.403	5.6	LOS A	2.9	20.5	0.43	0.52	0.43	51.5

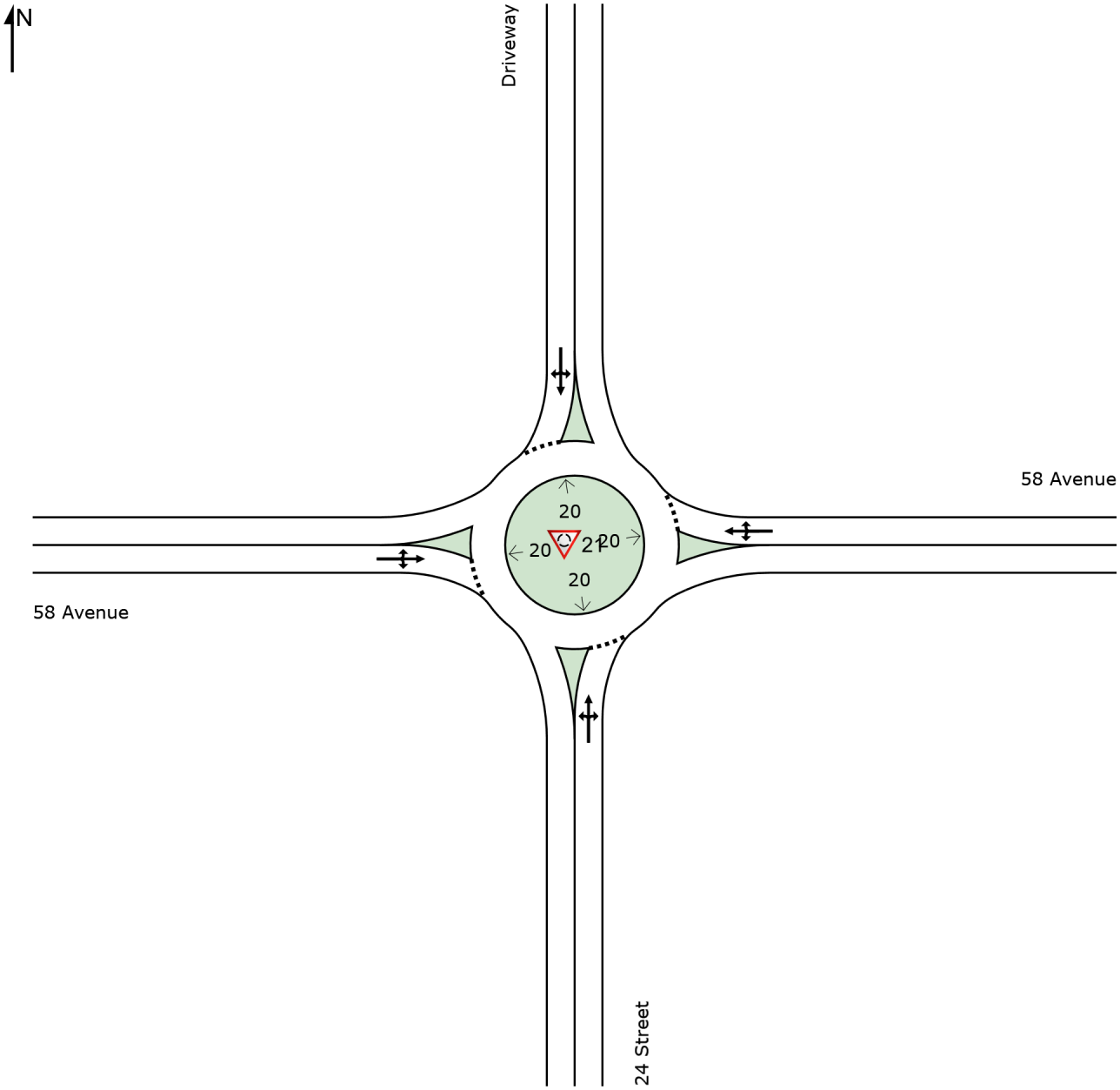
Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

SITE LAYOUT

Site: 21 [BG2045_58 Ave & 24 St_AM (Site Folder: 2045 Background Traffic)]

2045 Background Traffic
Site Category: G6
Roundabout

Layout pictures are schematic functional drawings reflecting input data. They are not design drawings.



MOVEMENT SUMMARY

Site: 21 [BG2045_58 Ave & 24 St_AM (Site Folder: 2045 Background Traffic)]

2045 Background Traffic
Site Category: G6
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South: 24 Street														
1	L2	18	7.0	20	7.0	0.091	9.7	LOS A	0.5	3.6	0.55	0.59	0.55	47.1
2	T1	36	4.0	39	4.0	0.091	5.1	LOS A	0.5	3.6	0.55	0.59	0.55	47.0
3	R2	24	11.0	26	11.0	0.091	5.3	LOS A	0.5	3.6	0.55	0.59	0.55	45.8
Approach		78	6.8	85	6.8	0.091	6.2	LOS A	0.5	3.6	0.55	0.59	0.55	46.6
East: 58 Avenue														
4	L2	41	2.0	45	2.0	0.368	10.4	LOS B	2.4	17.4	0.53	0.60	0.53	54.0
5	T1	285	6.0	310	6.0	0.368	5.9	LOS A	2.4	17.4	0.53	0.60	0.53	54.0
6	R2	46	2.0	50	2.0	0.368	5.6	LOS A	2.4	17.4	0.53	0.60	0.53	52.8
Approach		372	5.1	404	5.1	0.368	6.4	LOS A	2.4	17.4	0.53	0.60	0.53	53.9
North: Driveway														
7	L2	21	2.0	23	2.0	0.304	11.0	LOS B	2.0	14.0	0.61	0.67	0.61	54.4
8	T1	20	2.0	22	2.0	0.304	6.4	LOS A	2.0	14.0	0.61	0.67	0.61	54.5
9	R2	236	2.0	257	2.0	0.304	6.2	LOS A	2.0	14.0	0.61	0.67	0.61	53.2
Approach		277	2.0	301	2.0	0.304	6.6	LOS A	2.0	14.0	0.61	0.67	0.61	53.4
West: 58 Avenue														
10	L2	191	3.0	208	3.0	0.359	9.3	LOS A	2.5	18.0	0.31	0.53	0.31	54.0
11	T1	186	9.0	202	9.0	0.359	4.7	LOS A	2.5	18.0	0.31	0.53	0.31	54.0
12	R2	73	2.0	79	2.0	0.359	4.4	LOS A	2.5	18.0	0.31	0.53	0.31	52.9
Approach		450	5.3	489	5.3	0.359	6.6	LOS A	2.5	18.0	0.31	0.53	0.31	53.8
All Vehicles		1177	4.6	1279	4.6	0.368	6.5	LOS A	2.5	18.0	0.47	0.59	0.47	53.2

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

MOVEMENT SUMMARY

Site: 21 [BG2045_58 Ave & 24 St_PM (Site Folder: 2045 Background Traffic)]

2045 Background Traffic
Site Category: G6
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South: 24 Street														
1	L2	82	3.0	89	3.0	0.320	11.3	LOS B	2.1	15.4	0.76	0.79	0.76	46.0
2	T1	25	5.0	27	5.0	0.320	6.9	LOS A	2.1	15.4	0.76	0.79	0.76	45.9
3	R2	128	2.0	139	2.0	0.320	6.8	LOS A	2.1	15.4	0.76	0.79	0.76	44.9
Approach		235	2.7	255	2.7	0.320	8.4	LOS A	2.1	15.4	0.76	0.79	0.76	45.4
East: 58 Avenue														
4	L2	86	2.0	93	2.0	0.530	10.9	LOS B	4.1	29.1	0.64	0.64	0.64	53.4
5	T1	424	2.0	461	2.0	0.530	6.3	LOS A	4.1	29.1	0.64	0.64	0.64	53.5
6	R2	34	2.0	37	2.0	0.530	6.0	LOS A	4.1	29.1	0.64	0.64	0.64	52.2
Approach		544	2.0	591	2.0	0.530	7.0	LOS A	4.1	29.1	0.64	0.64	0.64	53.4
North: Driveway														
7	L2	15	2.0	16	2.0	0.362	13.1	LOS B	2.5	17.9	0.80	0.82	0.80	53.1
8	T1	20	2.0	22	2.0	0.362	8.5	LOS A	2.5	17.9	0.80	0.82	0.80	53.2
9	R2	222	2.0	241	2.0	0.362	8.3	LOS A	2.5	17.9	0.80	0.82	0.80	51.9
Approach		257	2.0	279	2.0	0.362	8.6	LOS A	2.5	17.9	0.80	0.82	0.80	52.1
West: 58 Avenue														
10	L2	154	2.0	167	2.0	0.600	9.8	LOS A	5.8	41.0	0.52	0.54	0.52	54.0
11	T1	395	2.0	429	2.0	0.600	5.2	LOS A	5.8	41.0	0.52	0.54	0.52	54.0
12	R2	187	2.0	203	2.0	0.600	5.0	LOS A	5.8	41.0	0.52	0.54	0.52	52.8
Approach		736	2.0	800	2.0	0.600	6.1	LOS A	5.8	41.0	0.52	0.54	0.52	53.7
All Vehicles		1772	2.1	1926	2.1	0.600	7.0	LOS A	5.8	41.0	0.63	0.65	0.63	52.1

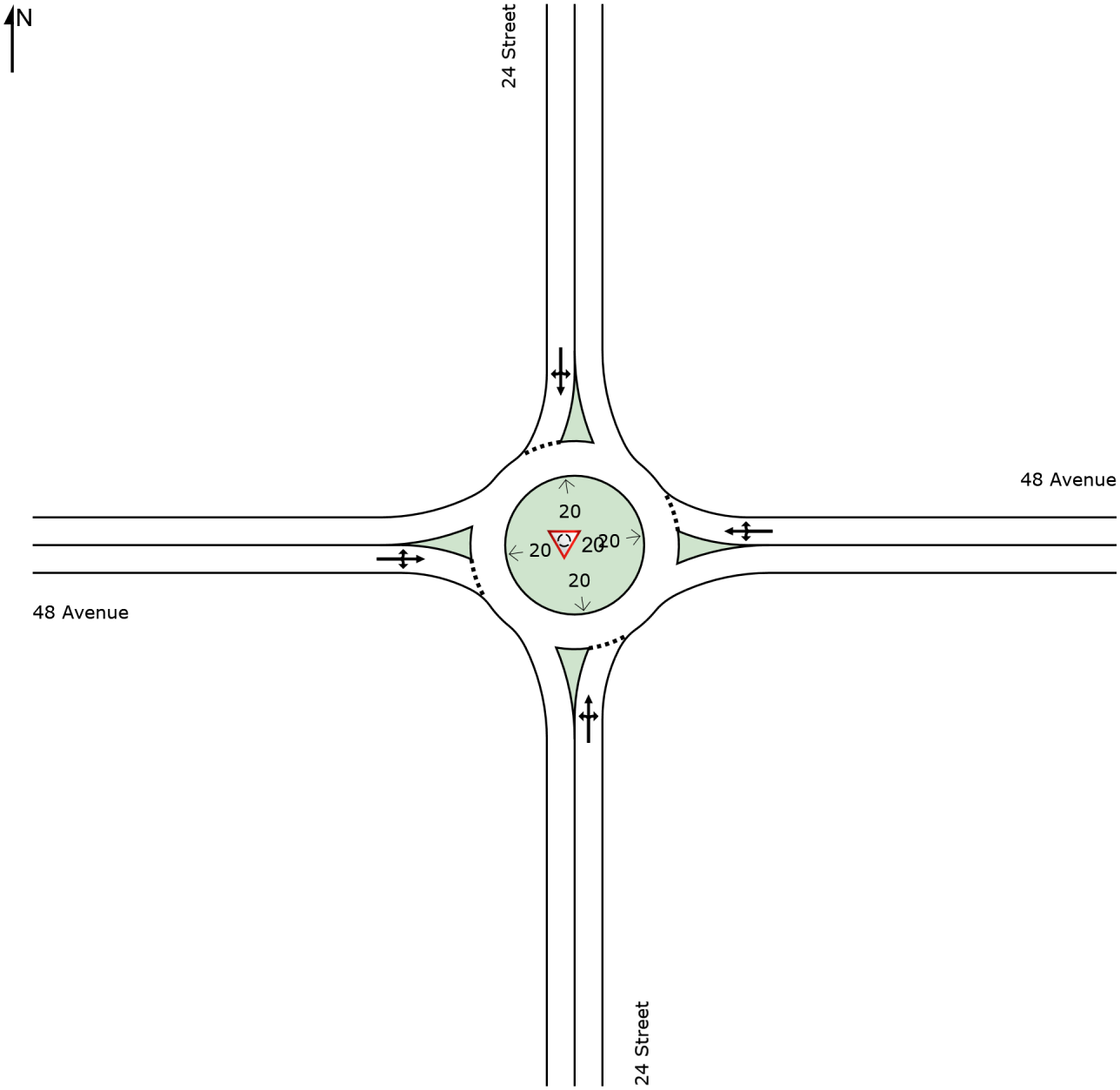
Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

SITE LAYOUT

Site: 20 [BG2045_48 Ave & 24 St_AM (Site Folder: 2045 Background Traffic)]

2045 Background Traffic
Site Category: G6
Roundabout

Layout pictures are schematic functional drawings reflecting input data. They are not design drawings.



MOVEMENT SUMMARY

Site: 20 [BG2045_48 Ave & 24 St_AM (Site Folder: 2045 Background Traffic)]

2045 Background Traffic
Site Category: G6
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South: 24 Street														
1	L2	5	2.0	5	2.0	0.020	10.0	LOS B	0.1	0.8	0.59	0.58	0.59	46.6
2	T1	5	2.0	5	2.0	0.020	5.5	LOS A	0.1	0.8	0.59	0.58	0.59	46.4
3	R2	5	25.0	5	25.0	0.020	6.2	LOS A	0.1	0.8	0.59	0.58	0.59	45.2
Approach		15	9.7	16	9.7	0.020	7.2	LOS A	0.1	0.8	0.59	0.58	0.59	46.1
East: 48 Avenue														
4	L2	5	2.0	5	2.0	0.711	10.4	LOS B	7.6	55.0	0.66	0.57	0.66	53.7
5	T1	726	4.0	789	4.0	0.711	5.9	LOS A	7.6	55.0	0.66	0.57	0.66	53.7
6	R2	110	2.0	120	2.0	0.711	5.6	LOS A	7.6	55.0	0.66	0.57	0.66	52.5
Approach		841	3.7	914	3.7	0.711	5.9	LOS A	7.6	55.0	0.66	0.57	0.66	53.6
North: 24 Street														
7	L2	40	7.0	43	7.0	0.312	14.8	LOS B	2.2	16.0	0.87	0.88	0.87	51.3
8	T1	5	2.0	5	2.0	0.312	9.9	LOS A	2.2	16.0	0.87	0.88	0.87	51.5
9	R2	132	2.0	143	2.0	0.312	9.7	LOS A	2.2	16.0	0.87	0.88	0.87	50.4
Approach		177	3.1	192	3.1	0.312	10.8	LOS B	2.2	16.0	0.87	0.88	0.87	50.6
West: 48 Avenue														
10	L2	141	3.0	153	3.0	0.356	9.1	LOS A	2.8	21.2	0.27	0.48	0.27	54.4
11	T1	314	11.0	341	11.0	0.356	4.5	LOS A	2.8	21.2	0.27	0.48	0.27	54.3
12	R2	5	33.0	5	33.0	0.356	4.6	LOS A	2.8	21.2	0.27	0.48	0.27	52.3
Approach		460	8.8	500	8.8	0.356	5.9	LOS A	2.8	21.2	0.27	0.48	0.27	54.3
All Vehicles		1493	5.3	1623	5.3	0.711	6.5	LOS A	7.6	55.0	0.56	0.58	0.56	53.4

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

MOVEMENT SUMMARY

Site: 20 [BG2045_48 Ave & 24 St_PM (Site Folder: 2045 Background Traffic)]

2045 Background Traffic
Site Category: G6
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South: 24 Street														
1	L2	5	2.0	5	2.0	0.031	15.1	LOS B	0.2	1.5	0.88	0.73	0.88	44.1
2	T1	5	2.0	5	2.0	0.031	10.6	LOS B	0.2	1.5	0.88	0.73	0.88	43.9
3	R2	5	2.0	5	2.0	0.031	10.6	LOS B	0.2	1.5	0.88	0.73	0.88	43.0
Approach		15	2.0	15	2.0	0.031	12.1	LOS B	0.2	1.5	0.88	0.73	0.88	43.7
East: 48 Avenue														
4	L2	5	2.0	5	2.0	0.646	11.2	LOS B	6.5	46.4	0.73	0.66	0.75	53.5
5	T1	610	2.0	616	2.0	0.646	6.6	LOS A	6.5	46.4	0.73	0.66	0.75	53.5
6	R2	121	2.0	122	2.0	0.646	6.4	LOS A	6.5	46.4	0.73	0.66	0.75	52.3
Approach		736	2.0	743	2.0	0.646	6.6	LOS A	6.5	46.4	0.73	0.66	0.75	53.3
North: 24 Street														
7	L2	107	2.0	108	2.0	0.627	16.7	LOS B	6.5	46.5	0.94	1.03	1.18	50.0
8	T1	5	2.0	5	2.0	0.627	12.1	LOS B	6.5	46.5	0.94	1.03	1.18	50.0
9	R2	355	2.0	359	2.0	0.627	11.9	LOS B	6.5	46.5	0.94	1.03	1.18	48.9
Approach		467	2.0	472	2.0	0.627	13.0	LOS B	6.5	46.5	0.94	1.03	1.18	49.2
West: 48 Avenue														
10	L2	234	2.0	236	2.0	0.684	9.9	LOS A	8.4	60.1	0.63	0.54	0.63	53.2
11	T1	672	2.0	679	2.0	0.684	5.3	LOS A	8.4	60.1	0.63	0.54	0.63	53.3
12	R2	5	2.0	5	2.0	0.684	5.0	LOS A	8.4	60.1	0.63	0.54	0.63	52.1
Approach		911	2.0	920	2.0	0.684	6.4	LOS A	8.4	60.1	0.63	0.54	0.63	53.3
All Vehicles		2129	2.0	2151	2.0	0.684	8.0	LOS A	8.4	60.1	0.73	0.69	0.79	52.3

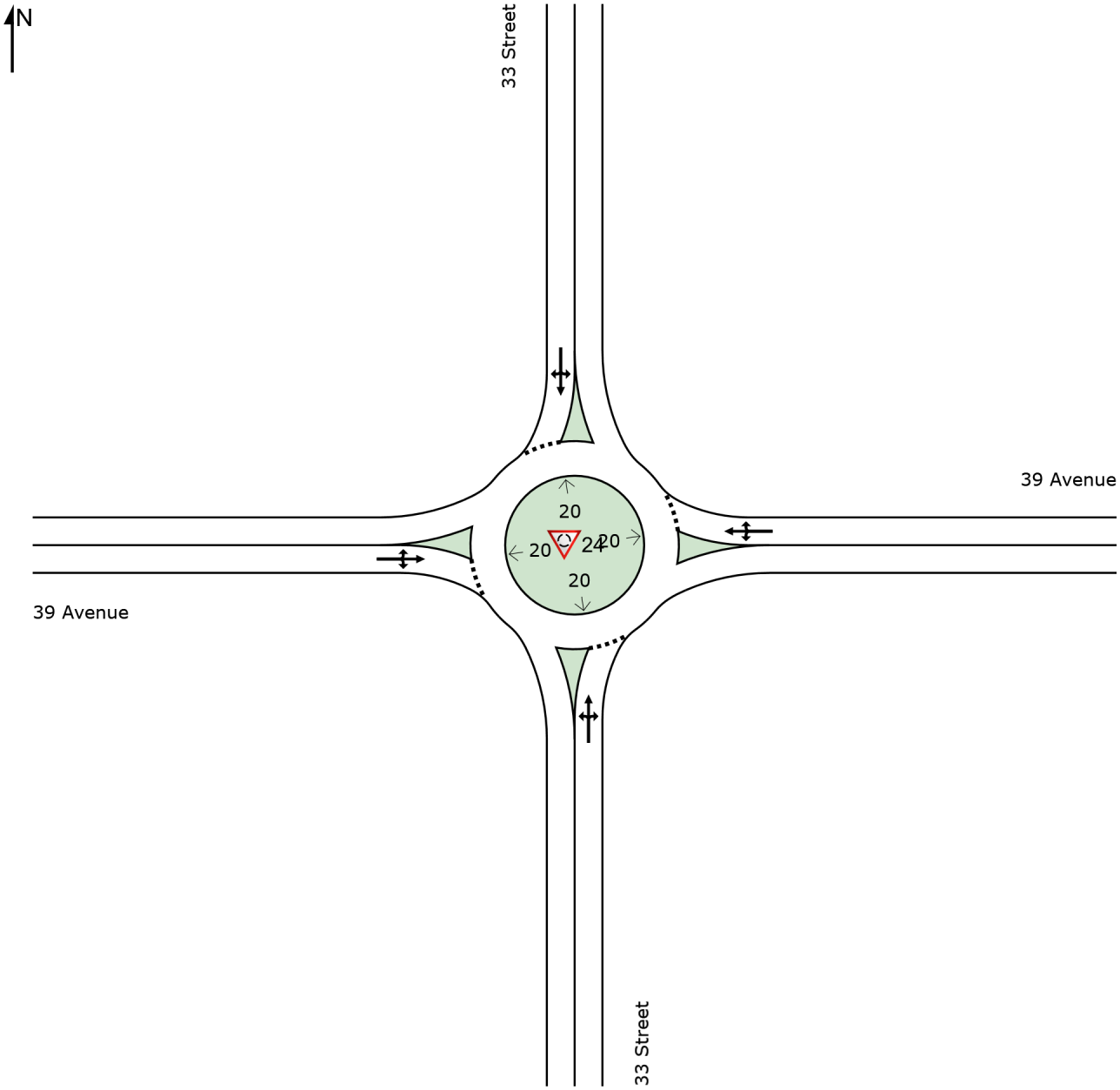
Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
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Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

SITE LAYOUT

Site: 24 [BG2045_39 Ave & 33 St_AM (Site Folder: 2045 Background Traffic)]

2045 Background Traffic
Site Category: G5
Roundabout

Layout pictures are schematic functional drawings reflecting input data. They are not design drawings.



MOVEMENT SUMMARY

Site: 24 [BG2045_39 Ave & 33 St_AM (Site Folder: 2045 Background Traffic)]

2045 Background Traffic
Site Category: G5
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South: 33 Street														
1	L2	79	12.0	93	12.0	0.378	9.9	LOS A	2.6	19.2	0.65	0.67	0.65	47.0
2	T1	8	2.0	9	2.0	0.378	5.1	LOS A	2.6	19.2	0.65	0.67	0.65	47.0
3	R2	227	2.0	267	2.0	0.378	5.1	LOS A	2.6	19.2	0.65	0.67	0.65	45.9
Approach		314	4.5	369	4.5	0.378	6.3	LOS A	2.6	19.2	0.65	0.67	0.65	46.2
East: 39 Avenue														
4	L2	323	2.0	380	2.0	0.528	9.6	LOS A	4.8	34.3	0.46	0.56	0.46	53.2
5	T1	264	3.0	311	3.0	0.528	5.0	LOS A	4.8	34.3	0.46	0.56	0.46	53.2
6	R2	17	8.0	20	8.0	0.528	4.8	LOS A	4.8	34.3	0.46	0.56	0.46	51.9
Approach		604	2.6	711	2.6	0.528	7.4	LOS A	4.8	34.3	0.46	0.56	0.46	53.2
North: 33 Street														
7	L2	5	2.0	6	2.0	0.029	13.4	LOS B	0.2	1.3	0.74	0.69	0.74	51.4
8	T1	5	50.0	6	50.0	0.029	10.8	LOS B	0.2	1.3	0.74	0.69	0.74	50.4
9	R2	5	2.0	6	2.0	0.029	8.5	LOS A	0.2	1.3	0.74	0.69	0.74	50.3
Approach		15	18.0	18	18.0	0.029	10.9	LOS B	0.2	1.3	0.74	0.69	0.74	50.7
West: 39 Avenue														
10	L2	5	2.0	6	2.0	0.471	11.5	LOS B	3.4	24.7	0.70	0.70	0.70	53.6
11	T1	290	2.0	341	2.0	0.471	6.9	LOS A	3.4	24.7	0.70	0.70	0.70	53.7
12	R2	94	10.0	111	10.0	0.471	7.0	LOS A	3.4	24.7	0.70	0.70	0.70	52.2
Approach		389	3.9	458	3.9	0.471	7.0	LOS A	3.4	24.7	0.70	0.70	0.70	53.3
All Vehicles		1322	3.6	1555	3.6	0.528	7.1	LOS A	4.8	34.3	0.58	0.63	0.58	51.4

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

MOVEMENT SUMMARY

Site: 24 [BG2045_39 Ave & 33 St_PM (Site Folder: 2045 Background Traffic)]

2045 Background Traffic
Site Category: G5
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South: 33 Street														
1	L2	55	2.0	57	2.0	0.463	8.6	LOS A	3.6	25.4	0.53	0.55	0.53	47.8
2	T1	9	2.0	9	2.0	0.463	4.1	LOS A	3.6	25.4	0.53	0.55	0.53	47.6
3	R2	475	2.0	495	2.0	0.463	4.2	LOS A	3.6	25.4	0.53	0.55	0.53	46.5
Approach		539	2.0	561	2.0	0.463	4.6	LOS A	3.6	25.4	0.53	0.55	0.53	46.7
East: 39 Avenue														
4	L2	305	3.0	318	3.0	0.441	9.2	LOS A	3.6	25.6	0.32	0.53	0.32	53.7
5	T1	277	2.0	289	2.0	0.441	4.6	LOS A	3.6	25.6	0.32	0.53	0.32	53.9
6	R2	25	2.0	26	2.0	0.441	4.3	LOS A	3.6	25.6	0.32	0.53	0.32	52.6
Approach		607	2.5	632	2.5	0.441	6.9	LOS A	3.6	25.6	0.32	0.53	0.32	53.7
North: 33 Street														
7	L2	21	2.0	22	2.0	0.060	12.4	LOS B	0.3	2.4	0.66	0.70	0.66	52.2
8	T1	12	2.0	13	2.0	0.060	7.8	LOS A	0.3	2.4	0.66	0.70	0.66	52.3
9	R2	13	2.0	14	2.0	0.060	7.6	LOS A	0.3	2.4	0.66	0.70	0.66	51.1
Approach		46	2.0	48	2.0	0.060	9.8	LOS A	0.3	2.4	0.66	0.70	0.66	51.9
West: 39 Avenue														
10	L2	5	2.0	5	2.0	0.228	10.7	LOS B	1.3	9.4	0.54	0.60	0.54	54.3
11	T1	161	2.0	168	2.0	0.228	6.1	LOS A	1.3	9.4	0.54	0.60	0.54	54.4
12	R2	59	2.0	61	2.0	0.228	5.9	LOS A	1.3	9.4	0.54	0.60	0.54	53.1
Approach		225	2.0	234	2.0	0.228	6.1	LOS A	1.3	9.4	0.54	0.60	0.54	54.1
All Vehicles		1417	2.2	1476	2.2	0.463	6.0	LOS A	3.6	25.6	0.44	0.56	0.44	50.8

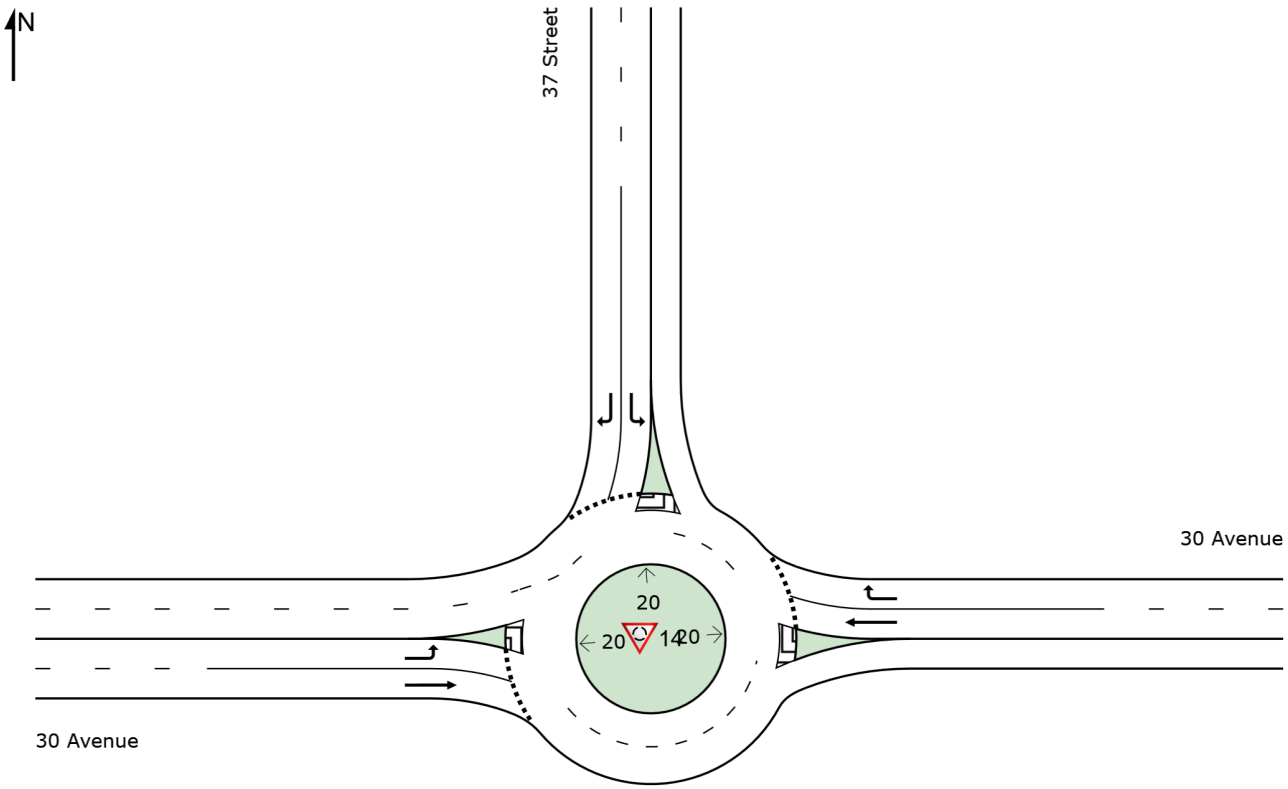
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Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

SITE LAYOUT

Site: 14 [BG2045_30 Ave & 37 St_AM (Site Folder: 2045 Background Traffic)]

2045 Background Traffic
Site Category: G1
Roundabout

Layout pictures are schematic functional drawings reflecting input data. They are not design drawings.



MOVEMENT SUMMARY

Site: 14 [BG2045_30 Ave & 37 St_AM (Site Folder: 2045 Background Traffic)]

2045 Background Traffic
Site Category: G1
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
East: 30 Avenue														
5	T1	211	4.0	227	4.0	0.310	9.5	LOS A	2.5	18.1	0.92	0.85	0.92	52.5
6	R2	119	4.0	128	4.0	0.234	10.7	LOS B	1.6	11.7	0.87	0.87	0.87	50.2
Approach		330	4.0	355	4.0	0.310	9.9	LOS A	2.5	18.1	0.90	0.86	0.90	51.6
North: 37 Street														
7	L2	224	2.0	241	2.0	0.234	10.1	LOS B	1.5	10.8	0.51	0.67	0.51	51.5
9	R2	484	4.0	520	4.0	0.392	5.3	LOS A	3.1	22.7	0.55	0.58	0.55	53.3
Approach		708	3.4	761	3.4	0.392	6.8	LOS A	3.1	22.7	0.54	0.61	0.54	52.7
West: 30 Avenue														
10	L2	800	3.0	860	3.0	0.627	10.4	LOS B	6.0	43.0	0.66	0.68	0.66	51.0
11	T1	380	2.0	409	2.0	0.386	5.8	LOS A	2.7	18.9	0.55	0.57	0.55	54.2
Approach		1180	2.7	1269	2.7	0.627	8.9	LOS A	6.0	43.0	0.62	0.65	0.62	52.0
All Vehicles		2218	3.1	2385	3.1	0.627	8.4	LOS A	6.0	43.0	0.64	0.67	0.64	52.2

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
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Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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MOVEMENT SUMMARY

Site: 14 [BG2045_30 Ave & 37 St_PM (Site Folder: 2045 Background Traffic)]

2045 Background Traffic
Site Category: G1
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
East: 30 Avenue														
5	T1	474	2.0	499	2.0	0.488	7.8	LOS A	4.2	29.7	0.83	0.79	0.86	52.9
6	R2	227	3.0	239	3.0	0.313	8.2	LOS A	2.1	14.9	0.75	0.79	0.75	52.0
Approach		701	2.3	738	2.3	0.488	7.9	LOS A	4.2	29.7	0.80	0.79	0.82	52.6
North: 37 Street														
7	L2	256	2.0	269	2.0	0.366	12.5	LOS B	2.5	17.8	0.76	0.83	0.76	50.5
9	R2	811	2.0	854	2.0	0.800	12.8	LOS B	13.3	94.7	1.00	1.05	1.39	48.8
Approach		1067	2.0	1123	2.0	0.800	12.7	LOS B	13.3	94.7	0.94	1.00	1.24	49.2
West: 30 Avenue														
10	L2	554	2.0	583	2.0	0.444	10.2	LOS B	3.6	25.7	0.60	0.68	0.60	51.3
11	T1	321	2.0	338	2.0	0.322	5.8	LOS A	2.2	15.7	0.56	0.57	0.56	54.1
Approach		875	2.0	921	2.0	0.444	8.6	LOS A	3.6	25.7	0.59	0.64	0.59	52.3
All Vehicles		2643	2.1	2782	2.1	0.800	10.1	LOS B	13.3	94.7	0.79	0.82	0.91	51.1

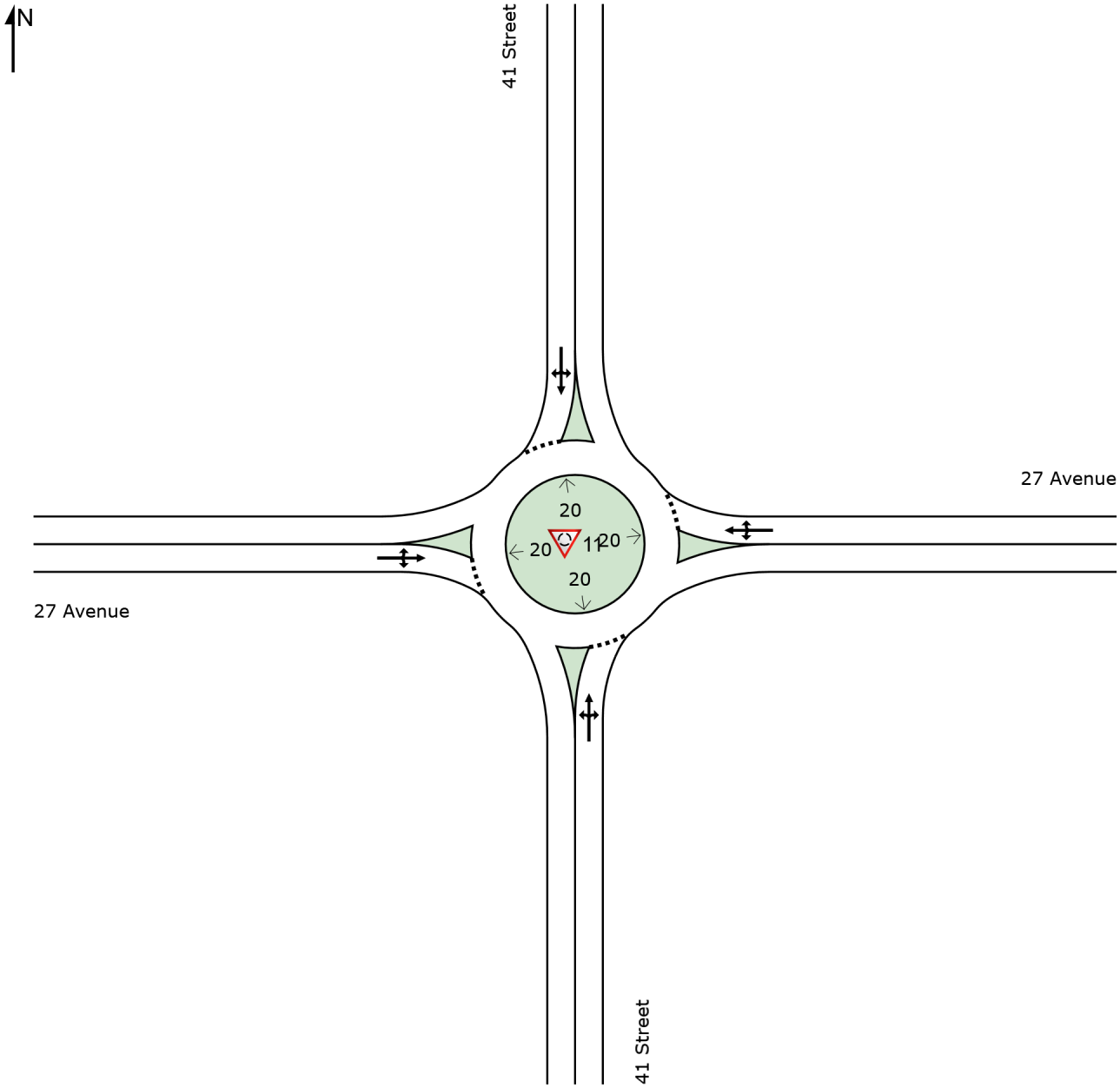
Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

SITE LAYOUT

Site: 11 [BG2045_27 Ave & 41 St_AM (Site Folder: 2045 Background Traffic)]

2045 Background Traffic
Site Category: G8
Roundabout

Layout pictures are schematic functional drawings reflecting input data. They are not design drawings.



MOVEMENT SUMMARY

Site: 11 [BG2045_27 Ave & 41 St_AM (Site Folder: 2045 Background Traffic)]

2045 Background Traffic
Site Category: G8
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South: 41 Street														
1	L2	25	2.0	27	2.0	0.488	8.4	LOS A	3.9	28.6	0.49	0.45	0.49	47.6
2	T1	519	4.0	564	4.0	0.488	3.9	LOS A	3.9	28.6	0.49	0.45	0.49	47.5
3	R2	25	5.0	27	5.0	0.488	4.0	LOS A	3.9	28.6	0.49	0.45	0.49	46.4
Approach		569	4.0	618	4.0	0.488	4.1	LOS A	3.9	28.6	0.49	0.45	0.49	47.4
East: 27 Avenue														
4	L2	5	25.0	5	25.0	0.056	13.8	LOS B	0.3	2.5	0.71	0.69	0.71	51.9
5	T1	18	14.0	20	14.0	0.056	8.7	LOS A	0.3	2.5	0.71	0.69	0.71	52.6
6	R2	12	11.0	13	11.0	0.056	8.3	LOS A	0.3	2.5	0.71	0.69	0.71	51.4
Approach		35	14.5	38	14.5	0.056	9.3	LOS A	0.3	2.5	0.71	0.69	0.71	52.1
North: 41 Street														
7	L2	17	8.0	18	8.0	0.429	9.2	LOS A	3.3	23.8	0.26	0.43	0.26	55.4
8	T1	352	3.0	383	3.0	0.429	4.5	LOS A	3.3	23.8	0.26	0.43	0.26	55.7
9	R2	215	2.0	234	2.0	0.429	4.2	LOS A	3.3	23.8	0.26	0.43	0.26	54.3
Approach		584	2.8	635	2.8	0.429	4.5	LOS A	3.3	23.8	0.26	0.43	0.26	55.2
West: 27 Avenue														
10	L2	113	2.0	123	2.0	0.156	10.9	LOS B	0.9	6.2	0.54	0.70	0.54	52.2
11	T1	8	17.0	9	17.0	0.156	6.7	LOS A	0.9	6.2	0.54	0.70	0.54	51.9
12	R2	20	2.0	22	2.0	0.156	6.1	LOS A	0.9	6.2	0.54	0.70	0.54	51.0
Approach		141	2.9	153	2.9	0.156	10.0	LOS A	0.9	6.2	0.54	0.70	0.54	52.0
All Vehicles		1329	3.6	1445	3.6	0.488	5.0	LOS A	3.9	28.6	0.40	0.48	0.40	51.2

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

MOVEMENT SUMMARY

Site: 11 [BG2045_27 Ave & 41 St_PM (Site Folder: 2045 Background Traffic)]

2045 Background Traffic
Site Category: G8
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South: 41 Street														
1	L2	45	2.0	48	2.0	0.456	8.8	LOS A	3.5	25.3	0.57	0.52	0.57	47.3
2	T1	417	2.0	448	2.0	0.456	4.3	LOS A	3.5	25.3	0.57	0.52	0.57	47.1
3	R2	28	2.0	30	2.0	0.456	4.4	LOS A	3.5	25.3	0.57	0.52	0.57	46.0
Approach		490	2.0	527	2.0	0.456	4.7	LOS A	3.5	25.3	0.57	0.52	0.57	47.0
East: 27 Avenue														
4	L2	9	2.0	10	2.0	0.066	12.6	LOS B	0.4	2.8	0.69	0.69	0.69	52.9
5	T1	18	2.0	19	2.0	0.066	8.0	LOS A	0.4	2.8	0.69	0.69	0.69	53.0
6	R2	20	2.0	22	2.0	0.066	7.7	LOS A	0.4	2.8	0.69	0.69	0.69	51.8
Approach		47	2.0	51	2.0	0.066	8.7	LOS A	0.4	2.8	0.69	0.69	0.69	52.5
North: 41 Street														
7	L2	5	2.0	5	2.0	0.677	9.5	LOS A	7.8	55.4	0.46	0.46	0.46	54.9
8	T1	463	2.0	498	2.0	0.677	4.9	LOS A	7.8	55.4	0.46	0.46	0.46	55.0
9	R2	451	2.0	485	2.0	0.677	4.7	LOS A	7.8	55.4	0.46	0.46	0.46	53.7
Approach		919	2.0	988	2.0	0.677	4.8	LOS A	7.8	55.4	0.46	0.46	0.46	54.3
West: 27 Avenue														
10	L2	174	2.0	187	2.0	0.274	11.9	LOS B	1.7	12.4	0.67	0.77	0.67	51.5
11	T1	29	9.0	31	9.0	0.274	7.5	LOS A	1.7	12.4	0.67	0.77	0.67	51.5
12	R2	22	2.0	24	2.0	0.274	7.0	LOS A	1.7	12.4	0.67	0.77	0.67	50.5
Approach		225	2.9	242	2.9	0.274	10.8	LOS B	1.7	12.4	0.67	0.77	0.67	51.4
All Vehicles		1681	2.1	1808	2.1	0.677	5.7	LOS A	7.8	55.4	0.53	0.53	0.53	51.5

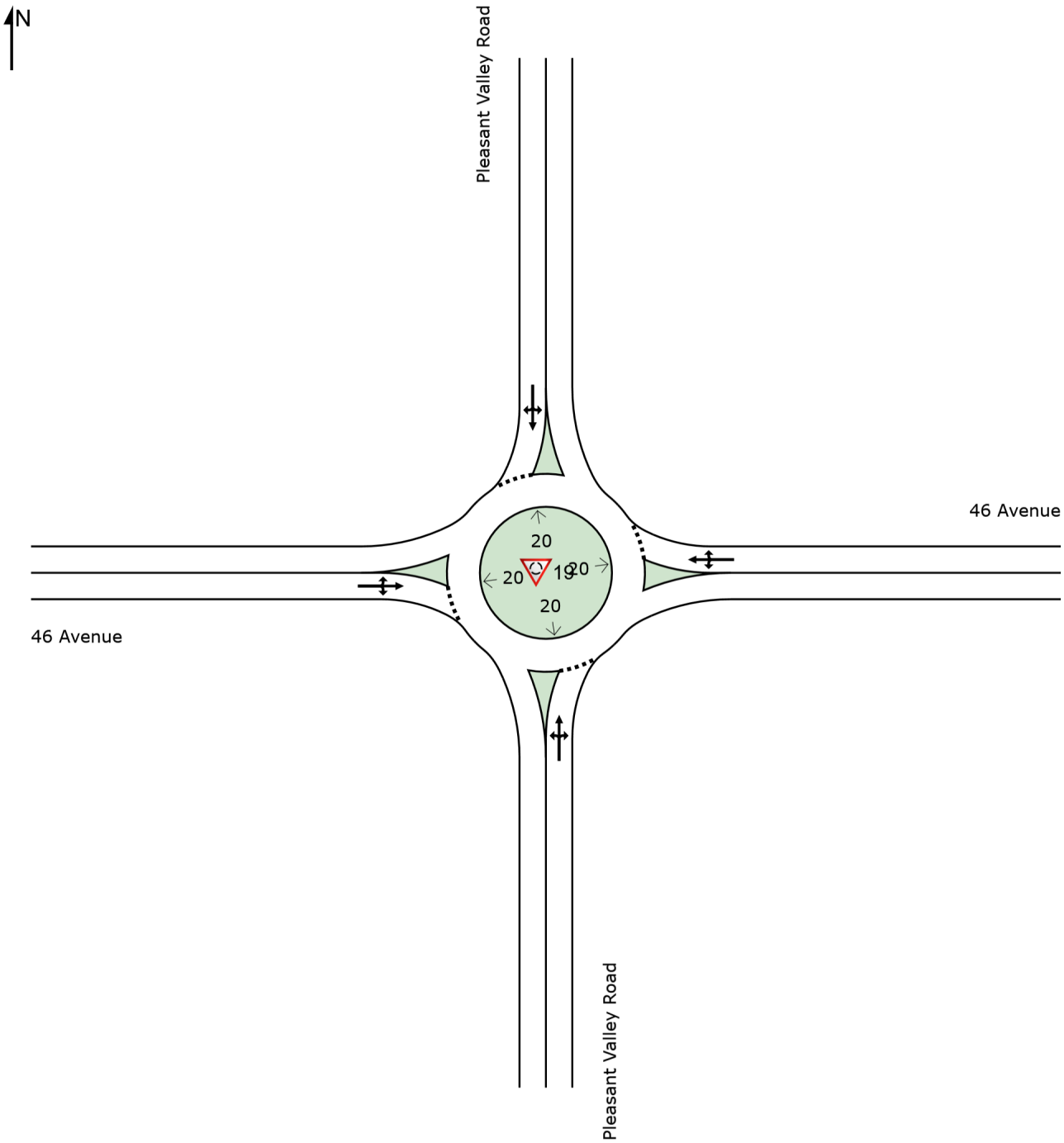
Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

SITE LAYOUT

Site: 19 [BG2045_Pleasant Valley Road & 46 Avenue_AM (Site Folder: 2045 Background Traffic)]

2045 Background Traffic
Site Category: G6
Roundabout

Layout pictures are schematic functional drawings reflecting input data. They are not design drawings.



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MOVEMENT SUMMARY

Site: 19 [BG2045_Pleasant Valley Road & 46 Avenue_AM (Site Folder: 2045 Background Traffic)]

2045 Background Traffic
Site Category: G6
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South: Pleasant Valley Road														
1	L2	41	2.0	42	2.0	0.379	7.8	LOS A	2.6	18.8	0.29	0.39	0.29	48.3
2	T1	431	2.0	444	2.0	0.379	3.3	LOS A	2.6	18.8	0.29	0.39	0.29	48.1
3	R2	46	2.0	47	2.0	0.379	3.3	LOS A	2.6	18.8	0.29	0.39	0.29	47.0
Approach		518	2.0	534	2.0	0.379	3.6	LOS A	2.6	18.8	0.29	0.39	0.29	48.0
East: 46 Avenue														
4	L2	42	2.0	43	2.0	0.166	11.5	LOS B	0.9	6.8	0.60	0.68	0.60	53.3
5	T1	57	2.0	59	2.0	0.166	6.9	LOS A	0.9	6.8	0.60	0.68	0.60	53.4
6	R2	49	3.0	51	3.0	0.166	6.7	LOS A	0.9	6.8	0.60	0.68	0.60	52.1
Approach		148	2.3	153	2.3	0.166	8.1	LOS A	0.9	6.8	0.60	0.68	0.60	52.9
North: Pleasant Valley Road														
7	L2	46	6.0	47	6.0	0.407	9.7	LOS A	3.0	21.2	0.43	0.50	0.43	54.3
8	T1	449	2.0	463	2.0	0.407	5.0	LOS A	3.0	21.2	0.43	0.50	0.43	54.6
9	R2	11	2.0	11	2.0	0.407	4.8	LOS A	3.0	21.2	0.43	0.50	0.43	53.3
Approach		506	2.4	522	2.4	0.407	5.5	LOS A	3.0	21.2	0.43	0.50	0.43	54.5
West: 46 Avenue														
10	L2	9	2.0	9	2.0	0.065	11.6	LOS B	0.4	2.6	0.62	0.64	0.62	53.6
11	T1	22	2.0	23	2.0	0.065	7.0	LOS A	0.4	2.6	0.62	0.64	0.62	53.7
12	R2	24	2.0	25	2.0	0.065	6.8	LOS A	0.4	2.6	0.62	0.64	0.62	52.4
Approach		55	2.0	57	2.0	0.065	7.6	LOS A	0.4	2.6	0.62	0.64	0.62	53.1
All Vehicles		1227	2.2	1265	2.2	0.407	5.1	LOS A	3.0	21.2	0.40	0.48	0.40	51.3

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

MOVEMENT SUMMARY

Site: 19 [BG2045_Pleasant Valley Road & 46 Avenue_PM (Site Folder: 2045 Background Traffic)]

2045 Background Traffic
Site Category: G6
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South: Pleasant Valley Road														
1	L2	21	2.0	22	2.0	0.421	8.0	LOS A	3.0	21.6	0.37	0.42	0.37	48.1
2	T1	451	2.0	480	2.0	0.421	3.5	LOS A	3.0	21.6	0.37	0.42	0.37	47.9
3	R2	62	2.0	66	2.0	0.421	3.6	LOS A	3.0	21.6	0.37	0.42	0.37	46.8
Approach		534	2.0	568	2.0	0.421	3.7	LOS A	3.0	21.6	0.37	0.42	0.37	47.8
East: 46 Avenue														
4	L2	40	5.0	43	5.0	0.148	11.6	LOS B	0.8	6.1	0.62	0.69	0.62	53.1
5	T1	34	2.0	36	2.0	0.148	6.9	LOS A	0.8	6.1	0.62	0.69	0.62	53.3
6	R2	50	2.0	53	2.0	0.148	6.7	LOS A	0.8	6.1	0.62	0.69	0.62	52.0
Approach		124	3.0	132	3.0	0.148	8.3	LOS A	0.8	6.1	0.62	0.69	0.62	52.7
North: Pleasant Valley Road														
7	L2	70	2.0	74	2.0	0.441	9.4	LOS A	3.5	24.8	0.38	0.48	0.38	54.6
8	T1	482	2.0	513	2.0	0.441	4.8	LOS A	3.5	24.8	0.38	0.48	0.38	54.7
9	R2	15	2.0	16	2.0	0.441	4.5	LOS A	3.5	24.8	0.38	0.48	0.38	53.4
Approach		567	2.0	603	2.0	0.441	5.3	LOS A	3.5	24.8	0.38	0.48	0.38	54.6
West: 46 Avenue														
10	L2	8	2.0	9	2.0	0.098	12.3	LOS B	0.6	4.1	0.66	0.69	0.66	53.4
11	T1	29	2.0	31	2.0	0.098	7.6	LOS A	0.6	4.1	0.66	0.69	0.66	53.5
12	R2	37	4.0	39	4.0	0.098	7.5	LOS A	0.6	4.1	0.66	0.69	0.66	52.2
Approach		74	3.0	79	3.0	0.098	8.1	LOS A	0.6	4.1	0.66	0.69	0.66	52.8
All Vehicles		1299	2.1	1382	2.1	0.441	5.1	LOS A	3.5	24.8	0.41	0.48	0.41	51.3

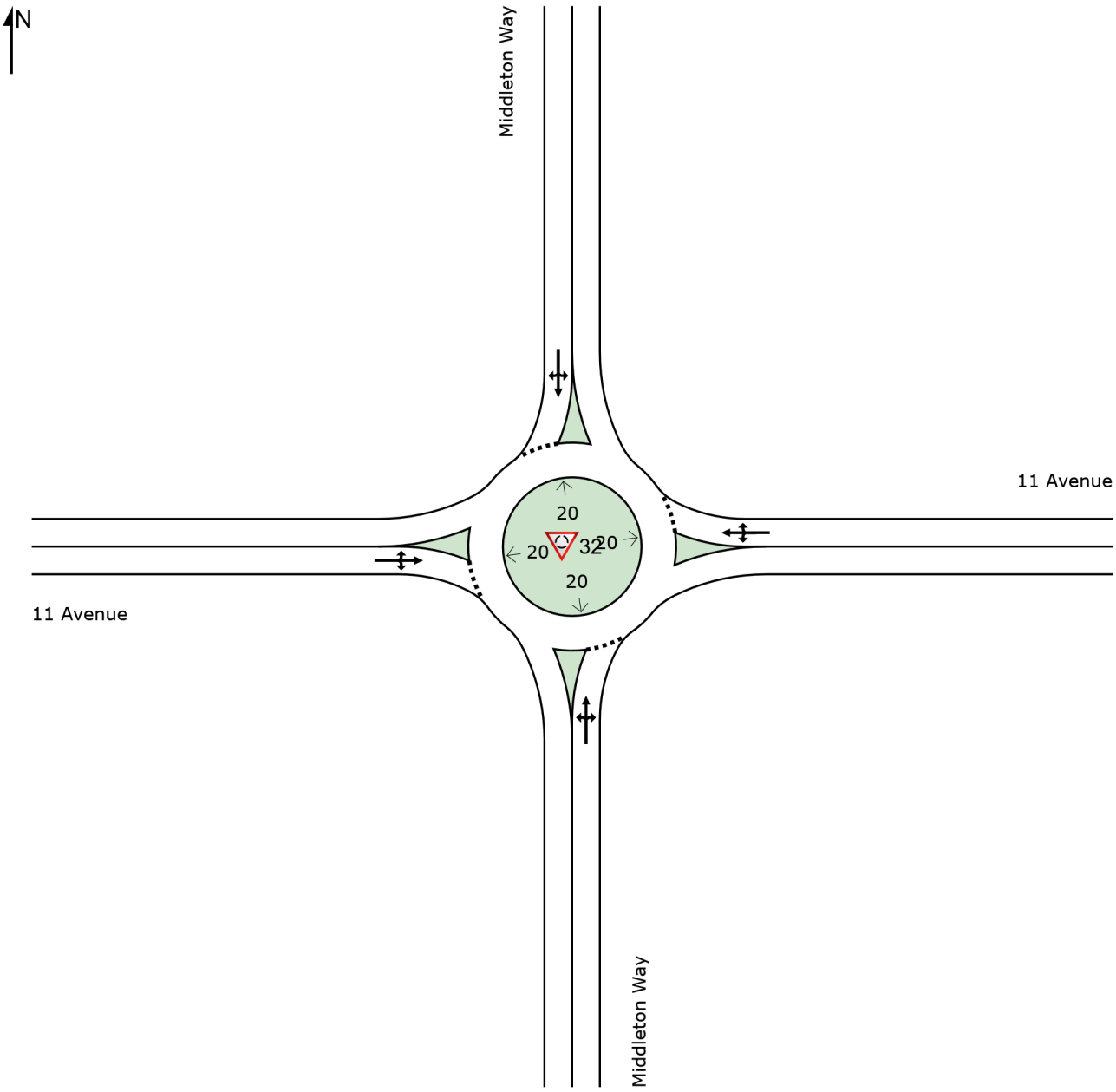
Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

SITE LAYOUT

Site: 32 [BG2045_Middleton Way & 11 Ave_AM (Site Folder: 2045 Background Traffic)]

2045 Background Traffic
Site Category: G9
Roundabout

Layout pictures are schematic functional drawings reflecting input data. They are not design drawings.



MOVEMENT SUMMARY

Site: 32 [BG2045_Middleton Way & 11 Ave_AM (Site Folder: 2045 Background Traffic)]

2045 Background Traffic
Site Category: G9
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South: Middleton Way														
1	L2	166	2.0	184	2.0	0.551	8.0	LOS A	5.1	36.8	0.40	0.45	0.40	47.5
2	T1	524	5.0	582	5.0	0.551	3.5	LOS A	5.1	36.8	0.40	0.45	0.40	47.3
3	R2	5	2.0	6	2.0	0.551	3.5	LOS A	5.1	36.8	0.40	0.45	0.40	46.3
Approach		695	4.3	772	4.3	0.551	4.6	LOS A	5.1	36.8	0.40	0.45	0.40	47.4
East: 11 Avenue														
4	L2	5	2.0	6	2.0	0.031	14.1	LOS B	0.2	1.3	0.76	0.69	0.76	51.6
5	T1	8	2.0	9	2.0	0.031	9.4	LOS A	0.2	1.3	0.76	0.69	0.76	51.7
6	R2	5	2.0	6	2.0	0.031	9.2	LOS A	0.2	1.3	0.76	0.69	0.76	50.5
Approach		18	2.0	20	2.0	0.031	10.7	LOS B	0.2	1.3	0.76	0.69	0.76	51.4
North: Middleton Way														
7	L2	5	2.0	6	2.0	0.286	9.9	LOS A	1.8	12.9	0.44	0.53	0.44	54.8
8	T1	215	5.0	239	5.0	0.286	5.3	LOS A	1.8	12.9	0.44	0.53	0.44	54.8
9	R2	80	2.0	89	2.0	0.286	5.0	LOS A	1.8	12.9	0.44	0.53	0.44	53.5
Approach		300	4.2	333	4.2	0.286	5.3	LOS A	1.8	12.9	0.44	0.53	0.44	54.4
West: 11 Avenue														
10	L2	62	23.0	69	23.0	0.119	10.5	LOS B	0.6	5.2	0.45	0.62	0.45	52.6
11	T1	5	2.0	6	2.0	0.119	5.4	LOS A	0.6	5.2	0.45	0.62	0.45	53.4
12	R2	40	13.0	44	13.0	0.119	5.4	LOS A	0.6	5.2	0.45	0.62	0.45	51.9
Approach		107	18.3	119	18.3	0.119	8.3	LOS A	0.6	5.2	0.45	0.62	0.45	52.3
All Vehicles		1120	5.5	1244	5.5	0.551	5.2	LOS A	5.1	36.8	0.42	0.49	0.42	49.6

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

MOVEMENT SUMMARY

Site: 32 [BG2045_Middleton Way & 11 Ave_PM (Site Folder: 2045 Background Traffic)]

2045 Background Traffic
Site Category: G9
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South: Middleton Way														
1	L2	88	2.0	97	2.0	0.369	8.3	LOS A	2.7	19.2	0.46	0.48	0.46	47.4
2	T1	322	2.0	354	2.0	0.369	3.8	LOS A	2.7	19.2	0.46	0.48	0.46	47.2
3	R2	5	2.0	5	2.0	0.369	3.8	LOS A	2.7	19.2	0.46	0.48	0.46	46.2
Approach		415	2.0	456	2.0	0.369	4.7	LOS A	2.7	19.2	0.46	0.48	0.46	47.3
East: 11 Avenue														
4	L2	8	2.0	9	2.0	0.028	11.7	LOS B	0.2	1.1	0.62	0.63	0.62	53.0
5	T1	5	2.0	5	2.0	0.028	7.0	LOS A	0.2	1.1	0.62	0.63	0.62	53.1
6	R2	9	2.0	10	2.0	0.028	6.8	LOS A	0.2	1.1	0.62	0.63	0.62	51.9
Approach		22	2.0	24	2.0	0.028	8.6	LOS A	0.2	1.1	0.62	0.63	0.62	52.6
North: Middleton Way														
7	L2	18	2.0	20	2.0	0.427	9.5	LOS A	3.2	23.0	0.38	0.47	0.38	54.9
8	T1	445	2.0	489	2.0	0.427	4.8	LOS A	3.2	23.0	0.38	0.47	0.38	55.0
9	R2	61	2.0	67	2.0	0.427	4.6	LOS A	3.2	23.0	0.38	0.47	0.38	53.6
Approach		524	2.0	576	2.0	0.427	5.0	LOS A	3.2	23.0	0.38	0.47	0.38	54.8
West: 11 Avenue														
10	L2	117	4.0	129	4.0	0.460	12.7	LOS B	3.4	24.2	0.75	0.81	0.78	52.5
11	T1	12	2.0	13	2.0	0.460	8.0	LOS A	3.4	24.2	0.75	0.81	0.78	52.6
12	R2	245	2.0	269	2.0	0.460	7.8	LOS A	3.4	24.2	0.75	0.81	0.78	51.4
Approach		374	2.6	411	2.6	0.460	9.4	LOS A	3.4	24.2	0.75	0.81	0.78	51.8
All Vehicles		1335	2.2	1467	2.2	0.460	6.2	LOS A	3.4	24.2	0.51	0.57	0.52	51.4

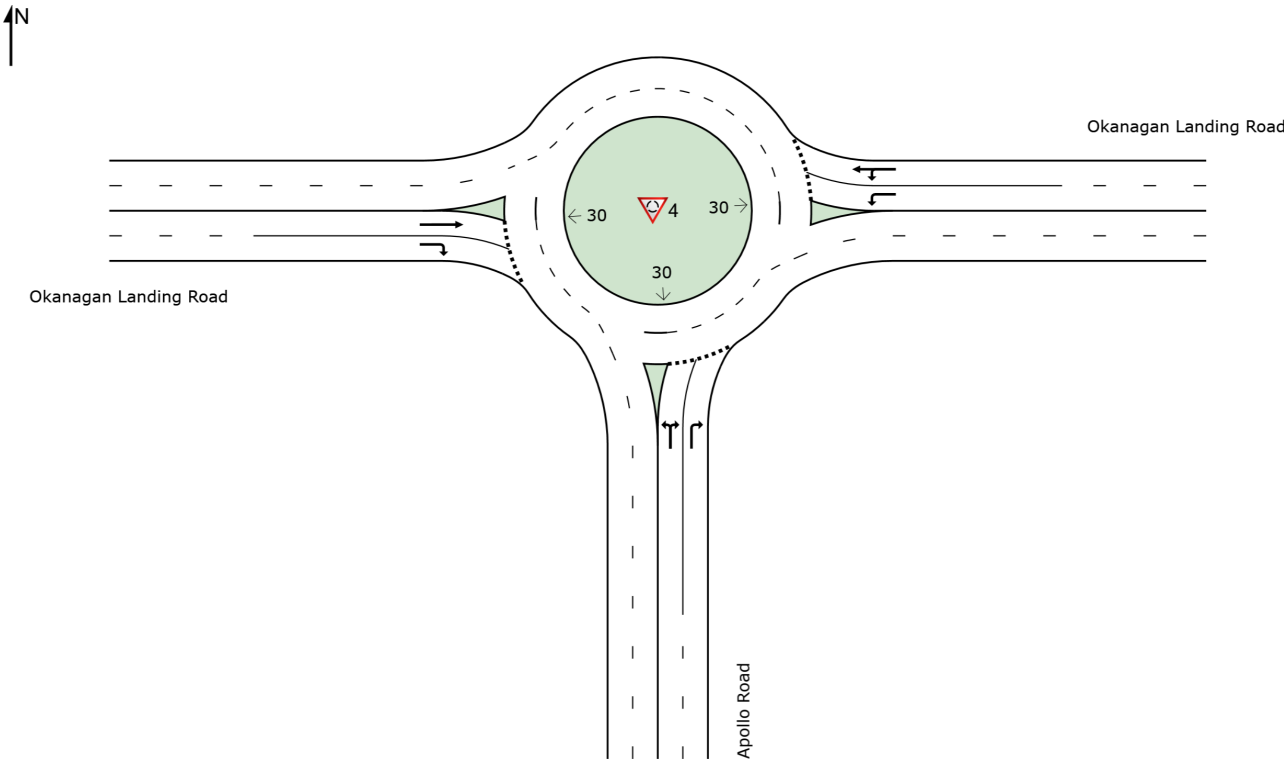
Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

SITE LAYOUT

Site: 4 [T2045_Apollo Rd & Okanagan Landing Rd_AM (Site Folder: 2045 Total Traffic)]

2045 Total Traffic
Site Category: G10
Roundabout

Layout pictures are schematic functional drawings reflecting input data. They are not design drawings.



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MOVEMENT SUMMARY

Site: 4 [T2045_Apollo Rd & Okanagan Landing Rd_AM (Site Folder: 2045 Total Traffic)]

2045 Total Traffic
Site Category: G10
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South: Apollo Road														
1	L2	171	2.0	186	2.0	0.747	14.0	LOS B	9.0	65.2	0.88	0.99	1.15	46.1
3	R2	1239	4.0	1347	4.0	0.747	8.5	LOS A	9.4	67.9	0.88	0.95	1.12	44.9
Approach		1410	3.8	1533	3.8	0.747	9.2	LOS A	9.4	67.9	0.88	0.96	1.13	45.0
East: Okanagan Landing Road														
4	L2	408	3.0	443	3.0	0.321	10.0	LOS B	2.1	14.9	0.43	0.62	0.43	53.1
5	T1	334	3.0	363	3.0	0.321	4.3	LOS A	2.1	14.9	0.42	0.46	0.42	55.6
Approach		742	3.0	807	3.0	0.321	7.4	LOS A	2.1	14.9	0.43	0.55	0.43	54.2
West: Okanagan Landing Road														
11	T1	417	3.0	453	3.0	0.394	5.2	LOS A	2.2	15.9	0.56	0.51	0.56	55.4
12	R2	63	2.0	68	2.0	0.095	6.0	LOS A	0.4	2.8	0.50	0.63	0.50	54.4
Approach		480	2.9	522	2.9	0.394	5.3	LOS A	2.2	15.9	0.55	0.53	0.55	55.2
All Vehicles		2632	3.4	2861	3.4	0.747	8.0	LOS A	9.4	67.9	0.69	0.76	0.82	49.1

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Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

MOVEMENT SUMMARY

Site: 4 [T2045_Apollo Rd & Okanagan Landing Rd_PM (Site Folder: 2045 Total Traffic)]

2045 Total Traffic
Site Category: G10
Roundabout

Vehicle Movement Performance

Mov ID	Turn	INPUT VOLUMES [Total veh/h	HV] %	DEMAND FLOWS [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. veh	Dist] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South: Apollo Road														
1	L2	119	2.0	129	2.0	0.490	9.9	LOS A	3.6	25.7	0.71	0.72	0.72	48.1
3	R2	802	3.0	872	3.0	0.490	4.7	LOS A	3.7	26.5	0.70	0.66	0.71	46.5
Approach		921	2.9	1001	2.9	0.490	5.4	LOS A	3.7	26.5	0.70	0.67	0.71	46.7
East: Okanagan Landing Road														
4	L2	1282	2.0	1393	2.0	0.717	10.3	LOS B	8.0	56.7	0.59	0.59	0.59	52.8
5	T1	538	2.0	585	2.0	0.717	4.5	LOS A	8.0	56.7	0.57	0.53	0.57	54.1
Approach		1820	2.0	1978	2.0	0.717	8.6	LOS A	8.0	56.7	0.58	0.57	0.58	53.2
West: Okanagan Landing Road														
11	T1	373	3.0	405	3.0	0.589	11.0	LOS B	4.5	32.1	0.90	1.03	1.19	52.4
12	R2	180	2.0	196	2.0	0.393	10.5	LOS B	2.1	15.3	0.82	0.93	0.93	51.1
Approach		553	2.7	601	2.7	0.589	10.9	LOS B	4.5	32.1	0.87	1.00	1.10	52.0
All Vehicles		3294	2.4	3580	2.4	0.717	8.0	LOS A	8.0	56.7	0.66	0.67	0.71	51.1

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Queue Model: SIDRA Standard.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.