RESOLUTION NO. 1120

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF GIG HARBOR, WASHINGTON, RELATING TO LAND USE AND ZONING, AUTHORIZING THE EXECUTION OF AMENDMENT NO. 3 TO THE DEVELOPMENT AGREEMENT WITH HARBOR HILL, LLC RELATED TO AN APPROVED PLANNED RESIDENTIAL DEVELOPMENT AND PRELIMINARY PLAT (FILE NOS. PL-PPLAT-08-0001 AND PL-PRD-08-0001) AND LOTS 1A, 1B, 3, 4B, AND 5 OF THE HARBOR HILL BUSINESS PARK (FILE NO. SUB 06-1208); APPLYING TO 235 ACRES OF PROPERTY, GENERALLY LOCATED NORTH AND SOUTH OF BORGEN BOULEVARD BETWEEN HARBOR HILL DRIVE AND PEACOCK HILL AVENUE N.W. IN THE CITY OF GIG HARBOR, WASHINGTON.

WHEREAS, RCW 36.70B.170 authorizes a local government and a person having ownership or control of real property within its jurisdiction to enter into a development agreement; and

WHEREAS, pursuant to Resolution No. 845 adopted by the City Council on November 8, 2010, the City and Harbor Hill, LLC entered into a Development Agreement dated November 9, 2010, which was recorded in the real property records of Pierce County, Washington, under Auditor's File No. 201011160780, with the recording cover sheet amended and rerecorded at Auditor's File No. 201011241249; and

WHEREAS, by a Joinder Agreement dated November 22, 2010, and recorded in the real property records of Pierce County, Washington, under Auditor's File No. 201012020196, OPG as the owner of a portion of the property subject to the Development Agreement joined in and agreed to be bound by the Development Agreement; and

WHEREAS, pursuant to Resolution No. 918 adopted by the City Council on November 26, 2012, the City and Harbor Hill, LLC entered into Amendment No. 1 to the Development Agreement, which was recorded in the real property records of Pierce County, Washington, under Auditor's File No. 201212040216; and

WHEREAS, pursuant to Resolution No. 962 adopted by the City Council on April 28, 2014, the City and Harbor Hill, LLC entered into Amendment No. 2 to the Development Agreement, which was recorded in the real property records of Pierce County, Washington, under Auditor's File No. 201405010313; and

WHEREAS, on December 29, 2017, Developer conveyed Lot 1 of the Plat of Business Park at Harbor Hill to the City by way of Special Warranty Deed, recorded under Pierce County Auditor's File No. 201712290498 (the "City Parcel"); and

WHEREAS, by Partial Assignment and Assumption Agreement dated December 29, 2017 and recorded under Pierce County Auditor's File No. 201712290501, Harbor Hill assigned to the City and the City assumed from Harbor Hill the obligations under the Development Agreement relating to the City Parcel, including the obligation to construct a road pursuant to Section 14(C)(i) of the Development Agreement; and

WHEREAS, the Development Agreement designated commercial development on the City Parcel but now that the City owns the City Parcel the City Parcel is no longer intended for commercial development. Instead the City contemplates development of a sports complex including ballfields among other things; and

WHEREAS, the City and Developer wish to amend the Development Agreement to remove the requirement of construction of a road through what is now envisioned as a sports complex; and

WHEREAS, on June 25, 2018, the City Council held a public hearing on Amendment No. 3 to the Development Agreement during a regular public meeting and after considering the application, the staff report and all public testimony presented, determined to approve such Amendment No.3; Now, Therefore,

THE CITY COUNCIL OF THE CITY OF GIG HARBOR, WASHINGTON, HEREBY RESOLVES AS FOLLOWS:

The City Council hereby approves and authorizes the Mayor to Section 1. execute Amendment No. 3 to the Development Agreement attached hereto as Exhibit A, with Harbor Hill, LLC.

Section 2. The City Council hereby directs the Planning Director to record Amendment No. 3 to the Development Agreement against the Property legally described in Exhibit A to Amendment No. 3 to the Development Agreement, at the cost of theCity, pursuant to RCW 36.70B.190.

PASSED by the Council and approved by the Mayor of the City of Gig Harbor this 25th day of June 2018.

CITY OF GIG HARBOR

Kit Kuhn Mayor Kit Kuhn

ATTEST/AUTHENTICATED:

Mally Dowslee Molly M. Towslee, City Clerk

APPROVED AS TO FORM: Office of the City Attorney

aughtsmit

Angela Summerfield

FILED WITH THE CITY CLERK: 06/18/18 PASSED BY THE CITY COUNCIL: 06/25/18 RESOLUTION NO. 1120 AFTER RECORDING RETURN TO:

The City of Gig Harbor Attn: City Clerk 3510 Grandview Street Gig Harbor, WA 98335

WASHINGTON STATE COUNTY AUDITOR/RECORDER'S INDEXING FORM

Document Title(s) (or transactions contained therein): Amendment No. 3 to Development Agreement

Grantor(s) (Last name first, then first name and initials) City of Gig Harbor Harbor Hill, LLC

Grantee(s) (Last name first, then first name and initials) Harbor Hill, LLC City of Gig Harbor

Legal Description (abbreviated: i.e., lot, block, plat or section, township, range) Lot 1, Plat of Business Park at Harbor Hill, AFN 200605235007; Complete legal description on Exhibit A attached hereto.

Assessor's Property Tax Parcel or Account Number: 4002470011, 4002470012

Reference Number(s) of Documents assigned or released: 201011160780 (development agreement); 201012020196 (joinder agreement); 201212040216 (Amendment No. 1); 201405010313 (Amendment No. 2)

AMENDMENT NO. 3 TO DEVELOPMENT AGREEMENT BETWEEN THE CITY OF GIG HARBOR AND HARBOR HILL LLC FOR THE HARBOR HILL DEVELOPMENT

This Amendment No. 3 to Development Agreement is made and entered into this <u>a5</u> day of <u>June</u>, 2018, by and among the CITY OF GIG HARBOR, a Washington municipal corporation (the "City"), and HARBOR HILL LLC, a Washington limited liability company ("Harbor Hill" or "Developer").

RECITALS

A. RCW 36.70B.170 authorizes the execution of a development agreement between a local government and a person having ownership or control of real property within its jurisdiction. Pursuant to Resolution No. 845 adopted by the City Council, the City and Harbor Hill entered into a development agreement dated November 9, 2010 (the "Original Development Agreement"), which was recorded in the real property records of Pierce County, Washington, under Auditor's File No. 201011160780, concerning the development of the property legally described on Exhibit A to the Original Development Agreement (the "Property") and generally located north and south of Borgen Boulevard between Harbor Hill Drive and Peacock Hill Avenue N.W. in the City of Gig Harbor, Pierce County, Washington.

B. By a subsequent Joinder Agreement dated November 22, 2010, and recorded in the real property records of Pierce County, Washington, under Auditor's File No. 201012020196, OPG Properties LLC, a Washington limited liability company ("OPG"), as the owner of a portion of the Property, joined in and agreed to be bound by the Original Development Agreement. Both Harbor Hill and the City consented to the Joinder Agreement.

C. By Amendment No. 1 recorded under Pierce County Auditor's File No. 201212040216, the parties amended certain provisions of the Original Development Agreement.

D. By Quit Claim Deed recorded under Pierce County Auditor's File No. 201308130540, OPG conveyed to Harbor Hill all of OPG's right, title, and interest in its portion of the Property.

E. Under that certain Omnibus Assignment and Assumption Agreement dated August 13, 2013, OPG assigned to Harbor Hill and Harbor Hill assumed from OPG all of OPG's right, title, and interest in the Development Agreement.

F. By Amendment No. 2 recorded under Pierce County Auditor's File No. 201405010313, the parties amended certain provisions of the Original Development Agreement. The Original Development Agreement, as amended by Amendment Nos. 1 and 2, is referred to here as the "Development Agreement".

G. On December 29, 2017, Harbor Hill LLC conveyed Lot 1 of the Plat of Business Park at Harbor Hill to the City by way of Special Warranty Deed, recorded under Pierce County Auditor's File No. 201712290498 (the "City Parcel").

H. By Partial Assignment and Assumption Agreement dated December 29, 2017 and recorded under Pierce County Auditor's File No. 201712290501, Harbor Hill assigned to the City and the City assumed from Harbor Hill the obligations relating to the City Parcel, including the obligation to construct a road pursuant to Section 14(C)(i) of the Development Agreement.

I. The Development Agreement contemplated commercial development on the City Parcel but now that the City owns the subject property the property is no longer intended for commercial development and instead the City contemplates development of a sports complex including ballfields among other things.

J. The City and Developer wish to amend the Development Agreement as described herein to remove the requirement of construction of a road through what is now envisioned as a sports complex.

K. This Amendment is made under the authority of the City's police power, contracting authority, and other authority, including without limitation the authority granted to the City under RCW 36.70B.170 et seq. to make development agreements and GHMC Chapter 19.08 as amended.

L. On <u>June 25</u>, 2018, the Gig Harbor City Council held a public hearing on this Amendment and approved Resolution <u>1120</u> authorizing the Mayor to execute this Amendment;

NOW, THEREFORE, the parties hereto agree as follows:

AGREEMENT

1. <u>Dedication of Public Lands</u>. Section 14 of the Development Agreement is hereby amended to delete subsection C in its entirety.

[Remainder of page intentionally left blank.]

Other Provisions. All other provisions of the Development Agreement 2. shall remain in full force and effect.

IN WITNESS WHEREOF, the parties hereto have caused this Amendment to be executed as of the dates set forth below:

HARBOR HILL LLC, a Washington limited liability company

CITY OF GIG HARBOR, a Washington municipal corporation

By:____

Jon Rose, President Dated:

By: Kit Kuhn Mayor Kit Kuhn Dated: 6-26-18

APPROVED AS TO FORM: OFFICE OF THE CITY ATTORNEY

City Attorney

STATE OF WASHINGTON

COUNTY OF KITSAP

I certify that I know or have satisfactory evidence that JON ROSE is the person who appeared before me, and said person acknowledged that he signed this instrument, on oath stated that he was authorized to execute the instrument and acknowledged it as the President of Harbor Hill LLC to be the free and voluntary act of such party for the uses and purposes mentioned in the instrument.

) ss.

DATED:

Printed:

NOTARY PUBLIC in and for Washington Residing at: My appointment expires:

- 4 -

STATE OF WASHINGTON)) ss. COUNTY OF PIERCE)

I certify that I know or have satisfactory evidence that KIT KUHN is the person who appeared before me, and said person acknowledged that he signed this instrument, on oath stated that he was authorized to execute the instrument and acknowledged it as Mayor of the City of Gig Harbor, to be the free and voluntary act of such party for the uses and purposes mentioned in the instrument.

DATED: _____26, 2018



Mally

Printed: <u>Molly M Towslee</u> NOTARY PUBLIC in and for Washington Residing at: <u>Gig Harbor</u> My appointment expires: <u>I2/2/19</u>

EXHIBIT A

LEGAL DESCRIPTION OF THE PROPERTY

TAX PARCEL NUMBER 4002470011

THAT PORTION OF LOT 1, BUSINESS PARK AT HARBOR HILL, PER THE PLAT THEREOF RECORDED UNDER AUDITOR'S FILE NUMBER 200605235007, SAID LOT 1 BEING A PORTION OF THE NORTHWEST QUARTER OF SECTION 31, TOWNSHIP 22 NORTH, RANGE 2 EAST, W.M., PIERCE COUNTY, WASHINGTON DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT ON THE EAST LINE OF SAID LOT 1 LYING 287.61 NORTHERLY OF THE SOUTHEAST CORNER OF SAID LOT 1, AS MEASURED ALONG THE EAST LINE OF SAID LOT 1, THENCE NORTH 77°06'13" WEST 644.52 FEET TO AN ANGLE POINT IN THE WEST LINE OF SAID LOT 1; THENCE ALONG THE BOUNDARY OF SAID LOT 1 THE FOLLOWING COURSES: THENCE NORTH 88°22'24" WEST 110.70 FEET; THENCE NORTH 05°55'53" EAST 181.58 FEET; THENCE SOUTH 88°22'24" EAST 33.73 FEET; THENCE NORTH 14°26'00" EAST 232.65 FEET; THENCE SOUTH 48°15'42" EAST 247.61 FEET; THENCE NORTH 77°19'55"EAST 95.23 FEET; THENCE NORTH 37°16'34" EAST 168.29 FEET; THENCE SOUTH 88°22'24" EAST 177.38 FEET TO A POINT ON A 766.00 FOOT CURVE TO THE RIGHT, THE RADIUS OF WHICH BEARS SOUTH 64°21'11"

WEST:

THENCE SOUTHERLY ALONG SAID CURVE, AN ARC DISTANCE OF 358.65 FEET, THROUGH A CENTRAL ANGLE OF 26°49'36";

THENCE SOUTH 01°10'47" WEST 189.56 TO THE POINT OF BEGINNING.

TAX PARCEL NUMBER 4002470012

THAT PORTION OF LOT 1, BUSINESS PARK AT HARBOR HILL, PER THE PLAT THEREOF RECORDED UNDER AUDITOR'S FILE NUMBER 200605235007, SAID LOT 1 BEING A PORTION OF THE NORTHWEST QUARTER OF SECTION 31, TOWNSHIP 22 NORTH, RANGE 2 EAST, W.M., PIERCE COUNTY, WASHINGTON DESCRIBED AS FOLLOWS:

{AXS1725403.DOCX;1/00008.900000/}

BEGINNING AT A POINT ON THE EAST LINE OF SAID LOT 1 LYING 287.61 NORTHERLY OF THE SOUTHEAST CORNER OF SAID LOT 1, AS MEASURED ALONG THE EAST LINE OF SAID LOT 1, THE FOLLOWING COURSES: THENCE SOUTH 01°10'47" WEST 287.61 FEET;

THENCE NORTH 88°22'24" WEST 631.54 FEET;

THENCE NORTH 01°15'21" EAST 412.28 FEET TO AN ANGLE POINT IN SAID BOUNDARY;

THENCE DEPARTING SAID BOUNDARY SOUTH 77°06'13" EAST 644.52 FEET TO THE POINT OF BEGINNING.

{AX\$1725403.D0CX;1/00008.900000/}



8250 - 165th Avenue NE Suite 100 Redmond, WA 98052-6628 T 425-883-4134 F 425-867-0898 www.tsinw.com

SUBJECT:

- To: Steve Misiurak, P.E. City Engineer City of Gig Harbor 3510 Grandview Street Gig Harbor, WA 98335
- From: Andrew Bratlien, P.E. Senior Transportation Engineer

MCCORMICK CREEK DRIVE EXTENSION

The purpose of this memorandum is to document the anticipated travel demand impacts of the proposed extension of McCormick Creek Drive from its existing terminus to Harbor Hill Drive to the east. This memorandum also summarizes operational impacts of the McCormick Creek Drive extension at the following intersections:

- 1. Burnham Drive NW / Canterwood Boulevard NW / SR 16 / Borgen Boulevard,
- 2. Borgen Boulevard and Harbor Hill Drive,
- 3. Harbor Hill Drive and Burnham Drive,
- 4. Harbor Hill Drive and Sentinel Drive, and
- 5. Harbor Hill Drive and McCormick Creek Drive

Baseline (2023) Conditions

The Gig Harbor concurrency model was used to evaluate the impacts of the proposed McCormick Creek Drive extension. The concurrency model includes all permitted land use developments, and assumes construction of transportation improvement projects to include (1) the Harbor Hill Drive extension, (2) roundabout restriping at Borgen Boulevard and Harbor Hill Drive, and (3) roundabout metering at Burnham Drive NW / Canterwood Boulevard NW / SR 16 / Borgen Boulevard.

A Baseline condition assumed no extension of McCormick Creek Drive. Baseline PM peak hour (4-6 PM) intersection delay and Level of Service (LOS) are summarized in **Table 1** for each of the five study intersections.



April 20, 2018

Steve Misiurak, P.E. McCormick Creek Drive Extension April 20, 2018 Page 2 of 4

Table 1	. 2023 PM Inter	rsection LOS Be	fore McCormick Cree	k Dr Extension	
Intersection	Eastbound LOS (Delay)	Westbound LOS (Delay)	Northbound LOS (Delay)	Southbound LOS (Delay)	Overall LOS (Delay)
Burnham/Borgen/ Canterwood & SR 16	C (27.2)	C (25.9)	Burnham: B (11.5) SR 16: B (16.9)	A (7.5)	B (16.9)
Borgen Blvd & Harbor Hill Dr	A (5.4)	A (10.0)	B (11.8)	A (9.2)	A (8.5)
Harbor Hill Dr & Burnham Dr	-	B (10.9)	A (4.6)	A (7.1)	A (7.1)
Harbor Hill Dr & Sentinel Dr	-	A (7.6)	A (4.7)	A (6.3)	A (5.9)
Harbor Hill Dr & McCormick Creek Dr	-	-	-		-

McCormick Creek Drive Extension

The McCormick Creek Drive extension was added to the concurrency model to evaluate traffic redistribution and intersection LOS impacts of the project. The model assumed McCormick Creek Drive will be constructed as a 2-lane 25 mph section with a new roundabout at the intersection with Harbor Hill Drive.

A difference plot showing travel demand redistribution resulting from the McCormick Creek Drive extension is shown in Figure 1. The model indicates the following travel demand changes:

- Approximately 125 vehicles (55 eastbound; 70 westbound) will use the McCormick Creek Drive . extension. This represents approximately 1,400 trips per day.
- Approximately 40 vehicles (35 northbound; 5 southbound) will be removed from Harbor Hill Drive between McCormick Creek Drive and Borgen Boulevard. This represents a decrease of 4 percent and 1 percent in the northbound and southbound directions, respectively.
- Approximately 50 vehicles (20 eastbound; 30 westbound) will be removed from Borgen Boulevard east of SR 16. This represents a decrease of 1.5 percent and 2.3 percent in the eastbound and westbound directions, respectively.
- Approximately 20 vehicles will be added to the northbound direction of Burnham Drive between McCormick Creek Drive and Borgen Boulevard. This represents an increase of 3.8 percent.
- All PM peak hour travel demand on the McCormick Creek Drive extension will reach an origin or destination on McCormick Drive. No cut-through demand is anticipated during the PM peak hour of travel.



Steve Misiurak, P.E. McCormick Creek Drive Extension April 20, 2018 Page 3 of 4



Figure 1. Trip Redistribution Due to McCormick Creek Drive Extension



Steve Misiurak, P.E. McCormick Creek Drive Extension April 20, 2018 Page 4 of 4

The travel demand statistics shown in **Table 2** were extracted from the model for the network links which will be influenced by the McCormick Creek Drive extension.

TONIC LI	Thirteak noar maver bennar	iu statistics
Scenario	Vehicle-Miles Traveled	Vehicle-Hours Traveled
Before Connection	6,617 miles	231:52:08
After Connection	6,581 miles	229:30:47
Difference	-36.4 miles	2:21:21
Difference (%)	0.6%	1.0%

1	Table 2.	PM Peak	Hour	Travel	Demand	Statistics	
1000	A COMPANY AND A	A CARLEND AND AND AND AND AND AND AND AND AND A	and the second second	Line barry in the strength	No. In State of the		

The travel demand statistics indicate that the McCormick Creek Drive extension will produce environmental benefits by reducing Vehicle-Miles Traveled (VMT) and thereby reducing vehicle-related carbon emissions. The extension will also produce the societal benefit of reducing PM peak hour driving time by a total of 2 hours 21 minutes.

Intersection delay and LOS after the McCormick Creek Drive extension are summarized in Table 3.

Intersection	Eastbound LOS (Delay)	Westbound LOS (Delay)	Northbound LOS (Delay)	Southbound LOS (Delay)	Overall LOS (Delay)
Burnham/Borgen/ Canterwood & SR 16	C (26.1)	C (32.1)	Burnham: B (12.0) SR 16: B (18.5)	A (7.6)	B (18.5)
Borgen Blvd & Harbor Hill Dr	A (5.5)	A (9.6)	B (11.1)	A (9.0)	A (8.2)
Harbor Hill Dr & Burnham Dr	-	B (10.8)	A (4.5)	A (7.0)	A (7.0)
Harbor Hill Dr & Sentinel Dr	-	A (7.5)	A (4.7)	A (6.3)	A (5.9)
Harbor Hill Dr & McCormick Creek Dr	A (9.1)	-	A (4.9)	A (3.9)	A (5.1)

Table 3. 2023 PM Intersection LOS After McCormick Creek Dr Extension

The McCormick Creek Drive extension will not result in any LOS changes. All study intersections will continue to operate at LOS B or better, assuming construction of baseline transportation network improvements.

Attachment: Intersection Level of Service Reports

V Site: [2. Borgen & Harbor Hill]

Gig Harbor 2023 PM w/o McCormick Creek Dr Roundabout

Mov	0D	Demand		Deg.	Average	Level of	95% Back	of Queue	Prop.	Effective	Average
D	Mov	Total	HIV	Sain	Delay	Service	Vehicles	Distance	Queued	Stop Rate	Speed
South	: Harbor Hi	veh/h	%	V/C	390		veh	ît		per veh	iqm
3	L2	550	1.0	0.744	16.3	LOS B	6.1	153.2	0.88	1.09	32.0
8	T1	42	1.0	0.744	10.4	LOS B	6.1	153.2	0.88	1.09	32.0
18	R2	317	1.0	0.191	4.1	LOS A	0.0	0.0	0.00	0.48	36.7
Appro	ach	909	1.0	0.744	11.8	LOS B	6.1	153.2	0.57	0.88	33.5
East: I	Borgen Blv	d									
1	L2	255	3.0	0.562	15.3	LOS B	5.2	133.6	0.89	0.94	33.4
6	T1	742	3.0	0.562	8.2	LOS A	5.7	145.0	0.90	0.86	34.5
16	R2	26	3.0	0.562	8.2	LOS A	5.7	145.0	0.90	0.83	33.9
Approa	ach	1022	3.0	0.562	10.0	LOS A	5.7	145.0	0.89	0.88	34.2
North:	Borgen Lo	ор									
7	L2	3	0.0	0.039	14.2	LOS B	0.2	4.3	0.74	0.80	35.1
4	T1	10	0.0	0.039	8.2	LOS A	0.2	4.3	0.74	0.80	35.0
14	R2	6	0.0	0.039	8.4	LOS A	0.2	4.3	0.74	0.80	34.0
Approa	ach	19	0.0	0.039	9.2	LOS A	0.2	4.3	0.74	0.80	34.7
West:	Borgen Blv	d									
5	L2	4	0.0	0.552	11.5	LOS B	4.7	118.1	0.67	0.55	35.8
2	T1	1211	0.0	0.552	5.4	LOS A	5.0	125.1	0.66	0.55	35.8
12	R2	203	0.0	0.552	5.4	LOS A	5.0	125.1	0.65	0.54	34.8
Approa	ach	1418	0.0	0.552	5.4	LOS A	5.0	125.1	0.66	0.55	35.7
All Veh	nicles	3369	1.2	0.744	8.5	LOSA	6.1	153.2	0.71	0.74	34.6

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). 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 and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6). Roundabout Capacity Model: SIDRA Standard.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

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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Organisation: TRANSPORTATION SOLUTIONS INC | Processed: Wednesday, April 18, 2018 12:59:03 PM Project: C:\Users\jakep\Dropbox (TSI)\TSI Projects\2017\217018 Gig Harbor Comprehensive Plan\50th St Analysis\LOS\2023 wo 50th St Connection.sip7

V Site: [7. Burnham & Harbor Hill]

Gig Harbor 2023 PM w/o McCormick Creek Dr Roundabout

Mov	ÓD	Demend	Flows	Deg.	Average	Level of	95% Back	of Oueue	Ргор.	Effective	Average
ID	Mov	Total veh/h	HIV %	Sain v/c	Delay	Service	Vehicles veh	Distance fi	Queued	Stop Rate per veh	Speed mph
South	: Burnham	Dr NW			The standard second			and the second s		prost restr	10240
8	T1	403	2.0	0.416	4.5	LOS A	2.8	71.7	0.39	0.46	36.8
18	R2	136	2.0	0.416	4.6	LOS A	2.8	71.7	0.39	0.46	35.7
Appro	ach	539	2.0	0.416	4.6	LOS A	2.8	71.7	0.39	0.46	36.5
East: I	Harbor Hill	Dr									
1	L2	264	2.0	0.396	12.6	LOS B	2.7	67.4	0.66	0.76	34.3
16	R2	109	2.0	0.396	6.7	LOS A	2.7	67.4	0.66	0.76	33.3
Appro	ach	373	2.0	0.396	10.9	LOS B	2.7	67.4	0.66	0.76	34.0
North:	Burnham [Dr NW									
7	L2	134	2.0	0.332	11.0	LOS B	2.1	53.2	0.50	0.58	35.6
4	T1	253	2.0	0.332	5.1	LOS A	2.1	53.2	0.50	0.58	35.5
Approa	ach	386	2.0	0.332	7.1	LOS A	2.1	53.2	0.50	0.58	35.6
All Veh	nicles	1298	2.0	0.416	7.1	LOSA	2.8	71.7	0.50	0.58	35.5

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). 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 and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6). Roundabout Capacity Model: SIDRA Standard.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

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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Project: C:\Users\jakep\Dropbox (TSI)\TSI Projects\2017\217018 Gig Harbor Comprehensive Plan\50th St Analysis\LOS\2023 wo 50th St Connection.sip7

V Site: [258. Harbor Hill & Sentinel Dr]

Gig Harbor 2023 PM w/o McCormick Creek Dr Roundabout

Mov	OD	Demane		Deg.	Average	Level of	95% Back	of Queue	Prop.	Effective	Average
ID	Mov	Total veh/h	FIV %	Satn v/c	Delay sec	Service	Vehicles veh	Distance fi	Queued	Stop Rate per veh	Speed mph
South:	Harbor Hil	ll Dr			and the second second		and the second	and the second		TATA ALDO	Succession of the Sector
8	T1	179	2.0	0.212	4.7	LOS A	1.1	26.9	0.36	0.49	36.9
18	R2	85	2.0	0.212	4.8	LOS A	1.1	26.9	0.36	0.49	35.8
Approa	ach	264	2.0	0.212	4.7	LOS A	1.1	26.9	0.36	0.49	36.5
East: S	Sentinel Dr										
1	L2	29	0.0	0.041	10.3	LOS B	0.2	4.7	0.30	0.57	35.7
16	R2	24	0.0	0.041	4.4	LOS A	0.2	4.7	0.30	0.57	34.6
Approa	ach	53	0.0	0.041	7.6	LOS A	0.2	4.7	0.30	0.57	35.2
North:	Harbor Hill	Dr									
7	L2	220	0.0	0.385	9.9	LOS A	2.5	62.0	0.15	0.50	36.5
4	T1	335	0.0	0.385	3.9	LOS A	2.5	62.0	0.15	0.50	36.4
Approa	ach	555	0.0	0.385	6.3	LOS A	2.5	62.0	0.15	0.50	36.5
All Veh	nicles	872	0.6	0.385	5.9	LOSA	2.5	62.0	0.23	0.50	36.4

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). 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 and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6). Roundabout Capacity Model: SIDRA Standard.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akcelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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VE Site: [308. Borgen-Burnham & SR16 WB + EB METER]

Gig Harbor 2023 PM w/o McCormick Creek Dr (Includes EB approach metering) Roundabout Metering

Mov	0D	Demand		Deg.	Average	Level of	95% Back	of Queue	Prop.	Effective	Average
D	Mov	Total	HV	Sam	Delay	Service	Vehicles	Distance	Queued	Stop Rate	Speed
South:	Burnham	vəh/h Dr NW	%	v/c	SPC		veh	<u>1</u>	NATION R	per veh	TAD
3	L2	179	1.0	0.692	14.8	LOS B	3.4	85.1	0.89	0.96	34.8
3a	L1	134	1.0	0.692	13.4	LOS B	3.4	85.1	0.89	0.96	34.
8	T1	143	1.0	0.692	7.5	LOS A	3.4	85.1	0.89	0.96	34.
18	R2	52	1.0	0.099	6.1	LOS A	0.3	7.8	0.74	0.71	35.
Approa	ach	507	1.0	0.692	11.5	LOS B	3.4	85.1	0.87	0.93	34.
Fast F	Borgen Blve	4									
1	L2	47	2.0	0.842	17.6	LOS B	5.0	126.3	0.93	1.10	35.
6	T1	458	2.0	0.842	10.4	LOS B	5.0	126.3	0.93	1.10	35.
16a	R1	743	2.0	1.023	34.2	LOS F	23.1	586.1	1.00	1.10	25.
16	R2	143	2.0	1.023	35.0	LOS F	23.1	586.1	1.00	1.95	25.
Approa		1,391	2.0	1.023	25.9	LOS C	23.1	586.1	0.97	1.65	28.
			2.0		20.0	2000	20.1	000.1	0.07	1.00	20.
		d Blvd NW	10	0.010	10.7	100.0					
7	L2	91	1.0	0.310	13.7	LOS B	1.1	27.4	0.79	0.82	35.
4	T1	72	1.0	0.310	6.5	LOS A	1.1	27.4	0.79	0.82	34.
14	R2	171	1.0	0.213	6.2	LOSA	1.1	27.6	0.83	0.74	35.
14b	R3	63	1.0	0.040	3.3	LOS A	0.0	0.0	0.00	0.45	37.
Approa	acn	398	1.0	0.310	7.5	LOS A	1.1	27.6	0.68	0.73	35.
West:	Burnham D	or NW									
5b	L3	138	3.0	0.941	34.0	LOS C	8.5	218.0	1.00	1.45	27.
5	L2	117	3.0	0.941	32.6	LOS C	8.5	218.0	1.00	1.45	27.
2	T1	395	3.0	0.941	24.5	LOS C	10.6	271.8	1.00	1.46	28.
12	R2	197	3.0	0.941	24.5	LOS C	10.6	271.8	1.00	1.46	28.
Approa	ach	847	3.0	0.941	27.2	LOS C	10.6	271.8	1.00	1.46	28.
South\	West: SR16	WB Offram	p								
5bx	L3	288	3.0	0.527	14.1	LOS B	2.6	66.8	0.63	0.84	34.
5x	L2	6	3.0	0.527	11.2	LOS B	2.6	66.8	0.63	0.84	34.
5ax	L1	212	3.0	0.527	11.3	LOS B	2.6	66.8	0.63	0.84	33.
12ax	R1	828	3.0	0.681	4.6	LOS A	4.7	119.2	0.74	0.55	36.
12bx	R3	189	3.0	0.123	3.3	LOS A	0.0	0.0	0.00	0.45	37.
Approa	ach	1522	3.0	0.681	7.2	LOS A	4.7	119.2	0.62	0.63	35.
			hall a				l en tha s		. Nada i		31.
All Veh	nicles	4665	2.3	1.023	16.9	LOS B	23.1	586.1	0.83	1.12	

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). 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 and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6). Roundabout Capacity Model: SIDRA Standard.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

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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♥ Site: [2. Borgen & Harbor Hill]

Gig Harbor 2023 PM w/ McCormick Creek Dr Roundabout

Mov	0D	Demand		Deg.	Average	Level of	95% Back	of Queue	Prop.	Effective	Average
1D	Mow	Total veh/h	HIV %	Satn v/c	Delay sec	Service	Vehicles veh	Distance fi	Queued	Stop Rate per veh	Speed mpt
South	: Harbor Hi	ill Dr	and a second		and a distance of a distance of					and the second	11127
3	L2	510	1.0	0.700	15.6	LOS B	5.3	134.0	0.87	1.06	32.3
8	T1	42	1.0	0.700	9.7	LOS A	5.3	134.0	0.87	1.06	32.3
18	R2	319	1.0	0.193	4.1	LOS A	0.0	0.0	0.00	0.48	36.7
Appro	ach	871	1.0	0.700	11.1	LOS B	5.3	134.0	0.55	0.85	33.8
East:	Borgen Blv	d									
1	L2	259	3.0	0.553	14.9	LOS B	5.0	128.7	0.87	0.92	33.5
6	T1	756	3.0	0.553	7.9	LOS A	5.4	138.4	0.87	0.83	34.6
16	R2	26	3.0	0.553	7.9	LOS A	5.4	138.4	0.87	0.79	34.0
Appro	ach	1041	3.0	0.553	9.6	LOS A	5.4	138.4	0.87	0.85	34.3
North:	Borgen Lo	ор									
7	L2	3	0.0	0.036	14.0	LOS B	0.2	4.0	0.73	0.79	35.2
4	Τ1	9	0.0	0.036	8.0	LOS A	0.2	4.0	0.73	0.79	35.1
14	R2	6	0.0	0.036	8.1	LOS A	0.2	4.0	0.73	0.79	34.0
Appro	ach	18	0.0	0.036	9.0	LOS A	0.2	4.0	0.73	0.79	34.7
West:	Borgen Blv	/d									
5	L2	21	0.0	0.556	11.5	LOS B	4.8	119.0	0.68	0.56	35.8
2	T1	1212	0.0	0.556	5.4	LOS A	5.0	126.0	0.66	0.55	35.8
12	R2	193	0.0	0.556	5.5	LOS A	5.0	126.0	0.65	0.54	34.8
Appro	ach	1427	0.0	0.556	5.5	LOS A	5.0	126.0	0.66	0.55	35.6
All Vel	nicles	3357	1.2	0.700	8.2	LOS A	5.4	138.4	0.70	0.72	34.7

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). 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 and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6). Roundabout Capacity Model: SIDRA Standard.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

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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𝒱 Site: [7. Burnham & Harbor Hill]

Gig Harbor 2023 PM w/ McCormick Creek Dr Roundabout

Mov	OD	Demand	1	Deg.	Average	Level of	95% Back	of Queue	Prop.	Effective	Average
(D)	Mov	Total veh/h	hIV %	Satn v/c	Delay sec	Service	Vehicles veh	Distance It	Queued	Stop Rate per veh	Speed mph
South	Burnham			and the state of the			A 90.1	15		nen ven	1021
8	T1	397	2.0	0.406	4.5	LOS A	2.7	69.4	0.36	0.45	36.9
18	R2	136	2.0	0.406	4.5	LOS A	2.7	69.4	0.36	0.45	35.8
Appro	ach	533	2.0	0.406	4.5	LOS A	2.7	69.4	0.36	0.45	36.6
East:	Harbor Hill	Dr									
1	L2	261	2.0	0.392	12.5	LOS B	2.6	66.2	0.65	0.75	34.4
16	R2	111	2.0	0.392	6.6	LOS A	2.6	66.2	0.65	0.75	33.3
Appro	ach	372	2.0	0.392	10.8	LOS B	2.6	66.2	0.65	0.75	34.0
North:	Burnham [Dr NW									
7	L2	120	2.0	0.318	11.0	LOS B	2.0	50.2	0.49	0.58	35.7
4	T1	252	2.0	0.318	5.0	LOS A	2.0	50.2	0.49	0.58	35.6
Appro	ach	371	2.0	0.318	7.0	LOS A	2.0	50.2	0.49	0.58	35.6
All Vel	nicles	1276	2.0	0.406	7.0	LOS A	2.7	69.4	0.49	0.58	35.5

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). 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 and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6). Roundabout Capacity Model: SIDRA Standard.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akcelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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V Site: [258. Harbor Hill & Sentinel Dr]

Gig Harbor 2023 PM w/ McCormick Creek Dr Roundabout

Mov	OD	Demand		Deg.	Average	Level of	95% Back	of Queue	Prop.	Effective	Average
ID	Mov	Total veh/h	HV %	Salta	Delay	Service	Vehicles	Distance	Queued	Stop Rate	Speed
South	: Harbor Hi	the strength of the Delivery of Delivery of the strength of th		v/c	990		veh	fi .		per veh	iqm
8	T1	169	2.0	0.201	4.7	LOS A	1.0	25.1	0.36	0.49	36.9
18	R2	80	2.0	0.201	4.8	LOS A	1.0	25.1	0.36	0.49	35.8
Approa	ach	249	2.0	0.201	4.7	LOS A	1.0	25.1	0.36	0.49	36.5
East: S	Sentinel Dr										
1	L2	26	0.0	0.038	10.3	LOS B	0.2	4.3	0.29	0.56	35.8
16	R2	23	0.0	0.038	4.4	LOS A	0.2	4.3	0.29	0.56	34.6
Approa	ach	49	0.0	0.038	7.5	LOS A	0.2	4.3	0.29	0.56	35.2
North:	Harbor Hill	l Dr									
7	L2	224	0.0	0.390	9.9	LOS A	2.5	63.1	0.14	0.50	36.6
4	T1	339	0.0	0.390	3.9	LOS A	2.5	63.1	0.14	0.50	36.4
Approa	ach	564	0.0	0.390	6.3	LOS A	2.5	63.1	0.14	0.50	36.5
All Ver	nicles	862	0.6	0.390	5.9	LOSA	2.5	63.1	0.22	0.50	36.4

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). 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 and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6). Roundabout Capacity Model: SIDRA Standard.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akcelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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₩ Site: [259. Harbor Hill & 50th Ave NW]

Gig Harbor 2023 PM w/ McCormick Creek Dr Roundabout

Mov	OD	Demand		Deg,	Average	Level of	95% Back		Prop.	Effective	Average
D	Mov	Total vah/h	HV %	Saith v/c	Delay sec	Service	Vehicles veh	Distance fi	Queued	Stop Rate per veh	Speed mph
South:	Harbor Hil	l Dr						2019 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
3	L2	26	2.0	0.125	9.9	LOS A	0.6	14.8	0.15	0.43	37.2
8	T1	148	2.0	0.125	4.0	LOS A	0.6	14.8	0.15	0.43	37.1
Appro	ach	175	2.0	0.125	4.9	LOS A	0.6	14.8	0.15	0.43	37.2
North:	Harbor Hill	Dr									
4	T1	113	2.0	0.112	3.9	LOS A	0.5	12.7	0.10	0.39	37.8
14	R2	46	2.0	0.112	4.0	LOS A	0.5	12.7	0.10	0.39	36.6
Appro	ach	159	2.0	0.112	3.9	LOS A	0.5	12.7	0.10	0.39	37.5
West:	50th Ave N	W									
5	L2	49	1.0	0.044	10.1	LOS B	0.2	4.6	0.22	0.60	35.0
12	R2	10	1.0	0.044	4.2	LOS A	0.2	4.6	0.22	0.60	33.9
Appro	ach	59	1.0	0.044	9.1	LOS A	0.2	4.6	0.22	0.60	34.8
All Vel	hicles	393	1.8	0.125	5.1	LOS A	0.6	14.8	0.14	0.44	36.9

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). 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 and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6). Roundabout Capacity Model: SIDRA Standard.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akcelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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Vi Site: [308. Borgen-Burnham & SR16 WB + EB METER]

Gig Harbor 2023 PM w/ McCormick Creek Dr (Includes EB approach metering) Roundabout Metering

Mov	ÖD Mov	Demand Flows		Deg.	Average	Level of	95% Back of Queue		Prop.	Effective	Average
1D		Toial	HM	Sain	Delay	Service	Vehicles	Distance	Queued	Stop Rate	Speed
South	Burnham	Veh/h	%	v/s	396		vəh	fi		per veh	mp
3	L2	204	1.0	0.730	15.1	LOS B	3.7	93.3	0.00	0.00	04.4
3a	L1	138	1.0	0.730	13.7	LOS B	3.7		0.90	0.98	34.
8	T1	138	1.0	0.730	7.9	LOS A		93.3	0.90	0.98	34.
18	R2	47	1.0	0.730			3.7	93.3	0.90	0.98	34.
	1 M. 1. 1. M. 1. M. 1. M. 1. M. 1. M. 1. M. 1.	a. 4. (1997) - 4. (1997) - 4. (1) (1997)			6.1	LOS A	0.3	7.0	0.74	0.71	35.
Approach		531	1.0	0.730	12.0	LOS B	3.7	93.3	0.88	0.96	34.
East: E	Borgen Blv	d									
1	L2	38	2.0	0.809	16.8	LOS B	4.4	111.0	0.92	1.05	35.
6	T1	434	2.0	0.809	9.6	LOS A	4.4	111.0	0.92	1.05	35.
16a	R1	736	2.0	1.054	43.7	LOS F	28.0	710.1	1.00	2.20	23.
16	R2	144	2.0	1.054	44.5	LOS F	28.0	710.1	1.00	2.20	22.
Approach		1351	2.0	1.054	32.1	LOS C	28.0	710.1	0.97	1.80	26.
North:	Canterwoo	od Blvd NW									
7	L2	91	1.0	0.305	13.8	LOS B	1.1	27.0	0.79	0.82	35.
4	T1	71	1.0	0.305	6.6	LOS A	1.1	27.0	0.79	0.82	34.
14	R2	169	1.0	0.208	6.3	LOS A	1.1	27.2	0.83	0.75	35.
14b	R3	64	1.0	0.041	3.3	LOS A	0.0	0.0	0.00	0.45	37.
Approach		396	1.0	0.305	7.6	LOS A	1.1	27.2	0.68	0.73	35.
West:	Burnham D	Dr NW									
5b	L3	139	3.0	0.933	32.9	LOS C	8.3	212.9	1.00	1.43	28.
5	L2	116	3.0	0.933	31.5	LOS C	8.3	212.9	1.00	1.43	27.
2	T1	374	3.0	0.933	23.4	LOS C	10.4	265.3	1.00	1.43	28.
12	R2	213	3.0	0.933	23.4	LOS C	10.4	265.3	1.00	1.43	28.
Approach		843	3.0	0.933	26.1	LOS C	10.4	265.3	1.00	1.43	28.
SouthV	Vest: SR16	6 WB Offram	q								
5bx	L3	288	3.0	0.526	14.1	LOS B	2.6	66.3	0.63	0.84	34.
5x	L2	6	3.0	0.526	11.1	LOS B	2.6	66.3	0.63	0.84	34.
5ax	L1	213	3.0	0.526	11.3	LOS B	2.6	66.3	0.63	0.84	33.
12ax	R1	828	3.0	0.678	4.5	LOS A	4.5	115.6	0.74	0.52	36.
12bx	R3	184	3.0	0.120	3.3	LOS A	0.0	0.0	0.00	0.45	37.
Approach		1518	3.0	0.678	7.2	LOS A	4.5	115.6	0.61	0.62	35.
		1000	0.0			100-					
All Vehicles		4639	2.3	1.054	18.5	LOS B	28.0	710.1	0.82	1.16	30.

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). 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 and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6). Roundabout Capacity Model: SIDRA Standard.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

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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