#### **MEMO**

Date: December 15, 2021

**To:** Robb MacDonald, Engineering Department

T.J. Frans, Engineering Department

Alan Perry, Fire Marshal

Chris Bryant, Building Department Dave Wright, Police Department Dave Marston, Mapping Department Angie Hopf, Mapping Department Anna Turner, Mapping Department

Vallivue School District Caldwell School District Pioneer Irrigation District

Compass Idaho

Caldwell Transportation
Brown Bus Company
Canyon Highway District #4
Idaho Transportation Department

Valley Regional Transit

Canyon County Development Services

Idaho Power Intermountain Gas

Manager USPS Caldwell

Hamilton Michaelson & Hilty LLP

From: Jerome Mapp, Director Planning & Zoning

Caldwell P & Z Department

RE: SUP21-000016 Canyon Village Apartments

Please review the attached application and information and provide us with your written input. We request that you e-mail any comments as soon as possible but no later than **Friday**, **January 14**, **2022**.

E-mail: P&Z@cityofcaldwell.org

Case Number SUP21-000016: A request by the Canyon Village Multifamily LLC for Special Use Permit for Canyon Village Apartments. The 316-unit apartment complex is located on 15.44 acres in a C-3 (Service Commercial) zone. There will be 144 one-bedroom units, 144 two bedroom units, 24 three bedroom units and 4 carriage units. The property is designated "Commercial & Service" in the 2040 Comprehensive Plan and is located approximately 900 feet from the intersection of E Homedale Road and Caldwell Boulevard.

This case is scheduled to be presented before the Caldwell Hearing Examiner on Tuesday, January 25, 2022 at 7:00 pm.

We will assume that you have no objections, concerns or comments if you do not reply to this request within the requested timeframe. If you have any questions, you may contact me at 208-455-4662.



## CITY OF Caldwell, Idaho

Planning & Zoning
Hearing
Review

Application

Type of Review Requested

( ) Annexation/Deannexation ( ) Appeal/Amendment		
<ul><li>( ) Comprehensive Plan Map Change</li><li>( ) Design Review</li><li>( ) Ordinance Amendment</li><li>( ) Rezone</li></ul>	STAFF USE ONLY: File Number(s): SuPal-000016	
<ul> <li>Special Use Permit</li> <li>Subdivision- Preliminary Plat</li> <li>Subdivision- Final Plat</li> <li>Subdivison- Short Plat</li> <li>Time Extension</li> <li>Variance</li> </ul>	Project Name: Cangon Village 135- Date Filed: Date Complete: Related Files:	
( ) Other		
Address: 6804 CLEVELAND BLVDCALDWELL, ID 83605	Parcel R3089900000 Number(s):	
Subdivison: Block: Lot: Acreage: 15.44	Zonii	 ng:
Prior Use of the Property: Agricultural Field		
designed to offer spacious oped dryer, granite countertops, wal measures to provide the safes include a resort style pool, clul family parties and social event along Moses Drain (seen on sadded to keep our residents have also added 48 private gaproject for easy access to residents.	edroom units and 4 carriage units. The project has been floor flans, stainless steel appliances, full size wash lk-in closets, luxury plank flooring and high tech safety at environment possible for all residents. The project we chouse with a state-of-the-art gym and community rooks. To provide outdoor exercise opportunities, a walking ite plan) and outdoor weatherproof workout stations we ealthy and fit, with multiple options with which to do so rages located within 6 individual buildings spread acrodents and to provide additional storage for those in new	ill m for g path ill be . We
Applicant Information		
Applicant Name: Abbey Stover	Phone:	
Address: 950 W Bannock Street	City: Boise State: ID Zip: 83702	
Email: abbey.stover@kimley-horn.com		Cell: _
Owner Name: CANYON VILLAGE MULTIFAMILY LLC	Phone:	
Address: TAMPA, FL 33613	City: TAMPA State: FL Zip: 33613	}
Email:	Cell:	
Agent Name: (e.g., architect, engineer, developer, representative)	DeBartolo Development	
Address: 4401 W Kennedy Blvd	City: Tampa State: FL Zip: 33609	
Email: efranklin@debartolodevelopment.com		Cell: _

AI



## CITY OF Galdwell, Idaho

### Planning & Zoning

SPECIAL-USE PERMIT

Project Name:	Conyon Vil	ilage Aportheats	File #:
Applicant/Agent:	Brandon	Nepougaid / Kinley	Horn and Aspocialis INC

Applicant (V)	Please provide the following REQUIRED documentation:	Staff (v)
1	Completed & signed Hearing Review Master Application	(*/
<b>√</b>	Narrative fully describing the proposed use/request	
V	Recorded warranty deed for the subject property	
/	Signed Property Owner Acknowledgement (if applicable)	
-	Vicinity map, showing the location of the subject property	
/	Site Plan	
i/	The following are suggested items that may be shown on the site plan:	
•	Property boundaries of the site	
-	<ul> <li>Existing buildings on the site</li> </ul>	
~	<ul> <li>Parking stalls and drive aisles</li> </ul>	
	<ul> <li>Sidewalks or pathways (proposed and existing)</li> </ul>	
/	Fencing (proposed and existing)	
V	Floor Plan	
	Landscape Plan (if applicable)	
	Neighborhood Meeting sign-in sheet	
	All of the above items shall be submitted in 8 $\%$ x 11 paper format AND in	
1	electronic format (preferably PDF or Word) on either a jump drive or CD. Please be	
	aware the jump drive or CD will become part of the file and will not be returned	
V	Fee	



#### **Authorization**

Print Applicant Name: Abbey Stover

Applicant Signature: Date: 10/28/2021

621 Cleveland Boulevard • Caldwell, Idaho 83605 • Phone: (208) 455-3021 • www.cityofcaldwell.com/PlanningZoning

Al



#### **Project Narrative & Property Maps**

Project:

Canyon Village Apartments

Address:

6804 Cleveland Blvd, Nampa ID

Date:

10-05-21

Re:

Special Use Permit Application

DeBartolo Development, LLC is pleased to present Canyon Village Apartments for consideration of a special use permit for the purpose of developing apartments, to better serve Caldwell's immense population growth as of recent. Canyon Village Apartments represents an approximately 15.4 acre parcel located near the intersection of Cleveland Blvd and Homedale Road. The property is separated from Cleveland Blvd by an approximately 7.3 acre parcel which will be developed as a commercial property, to help build the commercial corridor along Cleveland Blvd, as requested by the city. This project will be entitled and developed under a separate project, but has been considered throughout design of this apartment project.

This project will include 316-unit Class-A apartment building with 144 one bedroom units, 144 two bedroom units, 24 three bedroom units and 4 carriage units. The apartments have been designed to offer spacious open floor plans, stainless steel appliances, full size washer & dryers, granite countertops, walk-in closets, luxury plank flooring and high-tech safety measures to provide the safest environment possible for all residents. The project will include a resort style pool, clubhouse with a state-of-the-art gym and community room for family parties and social events. To provide outdoor exercise opportunities, a walking path along Moses Drain (seen on site plan), a dog park, and outdoor weatherproof workout stations will be provided as fitness options for the residents. There are 48 private garages located within 6 individual buildings spread across the project for easy access to residents and to provide additional storage as needed. The carriage units will each include a 2-car garage. The site has a total of 487 surface parking stalls and 56 garage stalls, which equates to approximately 1.72 parking stalls per unit. The density of the project will be 20.4 dwelling units per acre and the site is generously landscaped with over 35% of open space.

The Property is located just one-mile from Interstate Highway 84 ("I-84"), which is traversed by 139,000 vehicles daily affording direct connectivity to Downtown Boise through the burgeoning Nampa and Meridian submarkets approximately 20 miles from the subject Site. As a city, Caldwell has seen unprecedented growth over the last five years, raising its population by over a tenth. Despite this flood of individuals into the area, Caldwell has seen very few new apartment units come online, while absorption of units has resided around 200 units per year for the city proper, far outpacing the growth of residential development. Because of this, many individuals likely have chosen to live in other cities or in unincorporated Canyon County, shifting that opportunity away from the city. Canyon Village Apartments will introduce 300+ high-income residents into the city who will help neighboring retail and businesses as they shop at locally owned stores, service their cars with locally owned businesses and use local medical professionals for their healthcare needs. We are humbled and pleased to present this additional economic driver and tax revenue opportunity to the City by means of a special use permit for multifamily use for our current C-3 zoning designation.

Sincerely Yours-

Brandon McDougald, P.E.

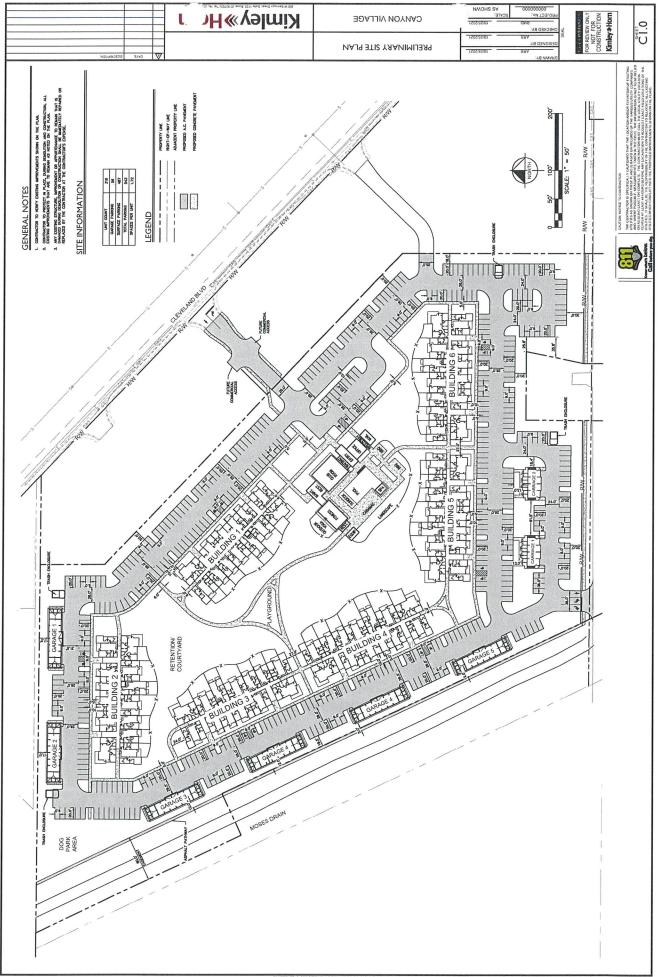
Kimley-Horn & Associates, Inc.

950 W Bannock St. # 1100 Boise, Idaho 83702

Office: 208-918-0100 Email: Brandon.mcdougald@kimley-horn.com

4401 W. Kennedy, 3rd Floor, Tampa, FL 33609 Office: (813)-676-7677/Fax: (813)-676-7696







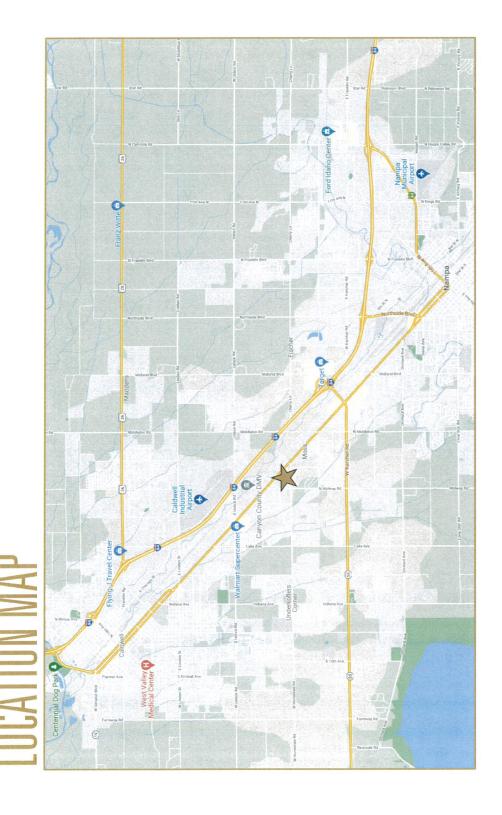




#### **Property Maps**

Project: Address: Date: Canyon Village Apartments 6804 Cleveland Blvd, Nampa ID

9-08-21 Special Use Permit Application Re:



4401 W. Kennedy, 3<sup>rd</sup> Floor, Tampa, FL 33609 Office: (813)-676-7677/Fax: (813)-676-7696

#### **NEIGHBORHOOD MEETING FORM**

City of Caldwell Planning and Zoning Department 621 E. Cleveland Blvd., Caldwell, ID 83605 Phone: (208) 455-3021

Start Time of Neighborhood Meeting: Z:00 DM

End Time of Neighborhood Meeting: 7:30 p.m.
Those in attendance please print your name and address. If no one attended, Applicant please write across this form "No one attended."
1. Dayle Estee 540.3 E Homadule Rados 454-1515 2. Emily Franklin 9901 W Cennedy Blad Tamps, FL 3. Steve SHAN 4901 W. Kernedy Blad Tamps, FL
3. STEVE SHAW 4461 W. KENNERY BURD. TANPA, FC
4. Brandon McDougalt 950 W Bannack Bolse, In
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Neighborhood Meeting Certification:
Applicants shall conduct a neighborhood meeting for the following: special use permit applications; variance applications; annexation applications; planned unit development applications; preliminary plat applications that will be submitted in conjunction with an annexation, rezone or planned unit development application; and, rezone applications as per City of Caldwell Zoning Ordinance Section 10-03-12.
Description of the proposed project: 316 unit apartment development
Date of Round Table meeting: April 22, 2021
Notice sent to neighbors on: Sept. 9, 2021
Date & time of the neighborhood meeting: Sept. 19, 2021
Location of the neighborhood meeting: Caldwell Public Library located at 1010 Dearborn Street, Caldwell, ID
Developer/Applicant:
Name: Brandon McDougald Kimley Hom + Accorder, Inc.
Address, City, State, Zip: 950 W BONNOCK St., (te 1100 Taise ID 83702
certify that a neighborhood meeting was conducted at the time and location noted on this form and in accord with City of Caldwell Zoning Ordinance Section 10-03-12.
DEVELOPER/APPLICANT SIGNATUREDATE9/19/2821

Page 3 of 3

ELECTRONICALLY RECORDED STAMPED FIRST PAGE NOW INCORPORATED AS PART OF THE ORIGINAL DOCUMENT.



Order Number: 21423097

#### 2021-055055 RECORDED

08/05/2021 03:26 PM

CHRIS YAMAMOTO
CANYON COUNTY RECORDER
Pgs=4 HCRETAL \$15.00

TYPE: DEED
TITLEONE BOISE

ELECTRONICALLY RECORDED

#### **Warranty Deed**

For value received,

Colorado River 500, LLC, a California limited liability company

the grantor, does hereby grant, bargain, sell, and convey unto

Canyon Village Multifamily, LLC, a Florida limited liability company

whose current address is 15436 N. Florida Avenue Suite 200 Tampa, FL 33613

the grantee, the following described premises, in Canyon County, Idaho, to wit:

#### See Exhibit A, attached hereto and incorporated herein.

To have and to hold the said premises, with their appurtenances unto the said Grantee, its heirs and assigns forever. And the said Grantor does hereby covenant to and with the said Grantee, that Grantor is the owner in fee simple of said premises; that they are free from all encumbrances except those to which this conveyance is expressly made subject and those made, suffered or done by the Grantee; and subject to all existing patent reservations, easements, right(s) of way, protective covenants of recorded (provided, however, nothing contained herein shall be deemed to reimpose same) and, zoning ordinances, and applicable building codes, laws and regulations, general taxes and assessments, including irrigation and utility assessments (if any) for the current year, which are not due and payable, and that Grantor will warrant and defend the same from all lawful claims whatsoever. Whenever the context so requires, the singular number includes the plural.

Remainder of page intentionally left blank.

Order Number: 21423097 Warranty Deed - Page 1 of 3



Order Number: 21423097

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Remainder of page intentionally left blank.

Order Number: 21423097 Warranty Deed - Page 1 of 3



Dated: August 3, 2021
Colorado River 500, LLC
Joseph A. Swain, Manager
State of, County of, ss.
On this day of 2021, before me, the undersigned, a Notary Public in and for said State personally appeared Joseph Swain known or identified to me to be a Manager of the limited liability company that executed the within instrument and acknowledged to me that he executed the same for and on behalf of said limited liability company and that such limited liability company executed it.
IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.
Notary Public Residing In: My Commission Expires:

Order Number: 21423097

Warranty Deed - Page 2 of 3

#### **CALIFORNIA ACKNOWLEDGMENT**

CIVIL CODE § 1189

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.			
State of California  County of Councie			
On 8/4/2/ before me, E	Bordae Konsid May Sublic, Here Insert Name and Title of the Officer		
personally appeared <u>Voseph</u> A.	Name of Signer(s)		
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s)(s) are subscribed to the within instrument and acknowledged to me that the she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.			
E. BRIDGET GOULD Notary Public - California Orange County Commission # 2321502	I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.  WITNESS my hand and official seal.		
My Comm. Expires Feb 14, 2024  Place Notary Seal and/or Stamp Above	Signature Signature of Notary Public		
OPTIONAL -			
Completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.			
Description of Attached Document Title or Type of Document:  Document Date:	Number of Pages: 40ft		
Signer(s) Other Than Named Above:	1/A		
Capacity(ies) Claimed by Signer(s)  Signer's Name:  Corporate Officer – Title(s):  Partner – Limited General Individual Attorney in Fact Trustee Glaxdian or Conservator Other: Signer is Representing:	Signer's Name:  Corporate Officer Title(s):  Partner - Limited General Individual Attorney in Fact Trustee Guardian or Conservator Other: Signer is Representing:		

©2019 National Notary Association

#### **EXHIBIT A**

#### **LEGAL DESCRIPTION OF THE PREMISES**

#### Parcel I:

A parcel of land as shown on Record of Survey Instrument No. 2021-052101 situate in Government Lot 7 and the Southeast quarter of the Southwest quarter of Section 6, Township 3 North, Range 2 West, Boise Meridian, Canyon County, Idaho being a portion of Grantors' parcels (granted under Warranty Deed Instrument No. 2020-071088) more particularly described as follows:

Commencing at the South quarter corner of Section 6 monumented by a found 5/8 inch rebar as shown on Corner Record Instrument No. 200464612 from which the Southwest corner bears North 89° 37'53" West, 2613.76 feet monumented by a found brass cap as shown on Corner Record Instrument No. 2019-018955; thence

North 89°37'53" West, 864.27 feet to the Point of Beginning; thence continuing

North 89°37'53" West, 192.76 feet to a found 5/8 inch bar with cap PLS 7612; thence

North 00°22'17" East, 40.00 feet; thence

North 11°40'57" East, 101.98 feet to a found 5/8 inch bar with cap PLS 3627; thence

North 89°37'43" West, 120.00 feet to a found 5/8 inch bar with cap PLS 3627; thence

South 00°22'17" West, 140.00 feet to a found 5/8 inch bar with cap PLS 7612; thence

North 89°37'53" West, 154.70 feet to the West 1/16 corner monumented by a found 5/8 inch bar with cap PLS 7612; thence continuing

North 89°37'53" West, 181.39 feet to the Easterly boundary of the Moses Drain monumented by a found 5/8 inch bar with cap PLS 7612; thence along said boundary

North 25°16'11" West, 743.05 feet to a found 5/8 inch bar with cap PLS 7612; thence

South 64°43'49" West, 80.00 feet to the control line of the Moses Drain; thence along said line

North 25° 16'11" West, 400.01 feet; thence

South 89°37'53" East, 643.27 feet to a set 5/8 inch bar with cap PLS 8575; thence

South 00°00'00" East, 114.07 feet to a set 5/8 inch bar with cap PLS 8575; thence

South 46°15'28" East, 755.58 feet to a set 5/8 inch bar with cap PLS 8575; thence

South 00°00'00" East, 362.94 feet to the Point of Beginning.

26

# CANYON VILLAGE MULTIFAMILY RESIDENTIAL DEVELOPMENT

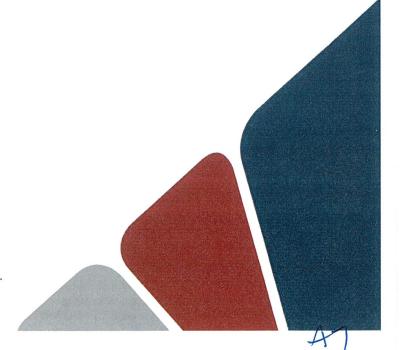
CALDWELL, IDAHO

Prepared for:
City of Caldwell
411 Blaine Street
Caldwell, Idaho 83605

Prepared by:



October 2021 0935080145 Copyright © Kimley-Horn and Associates, Inc.



TRAFFIC IMPACT STUDY

**FOR** 

# CANYON VILLAGE MULTIFAMILY RESIDENTIAL DEVELOPMENT

Prepared for:
City of Caldwell
411 Blaine Street
Caldwell, Idaho 83605



Prepared by:
Kimley-Horn and Associates, Inc.
950 Bannock Street
Suite 1100
Boise, Idaho 83702
208-297-2885

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

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#### 1. EXECUTIVE SUMMARY

#### 1.1. Project Description

The proposed Canyon Village multifamily residential development is located near the northwest corner of the Homedale Road and Cleveland Boulevard intersection in the City of Caldwell, Canyon County, Idaho. The project is anticipated to be completed in 2023 and consist of 316 multifamily mid-rise residential units. Access to the site will be provided via one right-in/right-out movement access on Cleveland Boulevard and one full access movement on Homedale Road. The location of the Canyon Village multifamily residential development site, study area intersections, and project driveway locations are shown in **Figure ES-1**.

#### 1.2. Findings and Recommendations

#### 1.2.1. Project Trip Generation

The Canyon Village residential development is estimated to generate 1,720 daily trips on a typical weekday, with 114 trips occurring in the AM peak hour and 139 trips occurring in the PM peak hour on a typical weekday.

#### 1.2.2. Analysis Findings and Potential Traffic Mitigations

A summary of the Level of Service (LOS) results for study area intersections are presented in **Table ES-1**. Analysis findings and mitigations are presented in **Table ES-2**.

Table ES-1 - LOS Results

Operational Analysis Results - LOS (Delay)¹										
Intersection										
Number			1	1 2		₿2				
Name			Cleveland Blvd / Homedale Rd	Midway Rd / Homedale Rd	Homedale Rd / Driveway B					
Control			Signal	TWSC	TWSC	TWSC				
Analysis Scenario	2021 Existing	AM	B (13.9)	B (13.0) EB	-	-				
	2021 Existing	PM	B (13.2)	C (17.2) WB	-	-				
	2023 Background	AM	B (13.4)	B (12.7) EB	-	-				
		PM	B (13.1)	C (17.0) WB	-	-				
	2023	AM	B (17.3)	B (12.9) EB	B (11.8) EB	A (9.7) SB				
	Background Plus Project	PM	B (16.7)	C (17.7) WB	B (12.3) EB	B (10.2) SB				

#### Notes:

 LOS and delay are shown for overall intersection for signalized, roundabout, and all-way stop intersections and the worst movement for all other intersections. Delay is shown in seconds per vehicle.
 Denotes a Project Driveway

#### Table ES-2 – Findings and Mitigations

	2021 Existing Conditions
Findings	<ul> <li>A total of 50 crashes were recorded at study intersections in the most recent five-year period where crash data is available. The 50 crashes resulted in 20 injury crashes (40%), 30 property damage only crashes (67%), and 0 fatal crashes (0%).</li> <li>Cleveland Boulevard / Homedale Road         <ul> <li>The eastbound approach operates at LOS E in the AM and PM peak hour. The volume to capacity ratio for the movement is under 0.90</li> <li>The westbound approach operates at LOS E in the AM and PM peak hour. The volume to capacity ratio for the movement is under 0.90.</li> </ul> </li> <li>The other study area intersections operate at acceptable LOS</li> </ul>
	2023 Background Conditions
Planned Improvements	ITD and the City of Caldwell do not have any current or future project in the vicinity of the development.
Findings	<ul> <li>Cleveland Boulevard / Homedale Road</li> <li>The eastbound approach operates at LOS E in the AM and PM peak hour. The volume to capacity ratio for the movement is under 0.90</li> <li>The westbound approach operates at LOS E in the AM and PM peak hour. The volume to capacity ratio for the movement is under 0.90.</li> <li>The other study area intersections operate at acceptable LOS</li> </ul>
	2023 Plus Project Conditions
Findings	<ul> <li>Cleveland Boulevard / Homedale Road         <ul> <li>The eastbound approach operates at LOS E in the AM and PM peak hour. The volume to capacity ratio for the movement is under 0.90</li> <li>The westbound approach operates at LOS E in the AM and PM peak hour. The volume to capacity ratio for the movement is under 0.90.</li> </ul> </li> <li>The other study area intersections operate at acceptable LOS</li> </ul>
Potential Mitigations	<ul> <li>Cleveland Boulevard / Homedale Road</li> <li>The development adds only 19 left-turning vehicles to the eastbound approach in the AM peak hour and 12 in the PM peak hour.</li> <li>Minor stop-controlled movements at major intersections typically experience delays during peak hours. The intersection movement is already failing in the existing and background scenarios without the addition of project site trips, therefore the addition of 19 vehicles for the proposed development does not cause major additional operational issues.</li> <li>No mitigation improvements are recommended for this intersection.</li> <li>Midway Road / Homedale Road</li> <li>The development adds only 5 left-turning vehicles to the eastbound approach in the AM peak hour and 3 in the PM peak hour</li> <li>No mitigation improvements are recommended for this intersection.</li> </ul>
Turn Lane Analyses	<ul> <li>The Midway Road / Homedale Road intersection does not warrant additional northbound or southbound right-turn or left-turn lanes based on 2021 existing, 2023 background, or 2023 background plus project traffic volumes.</li> <li>A southbound right-turn lane on Cleveland Boulevard into Driveway A is not warranted based on future 2023 background plus project traffic volumes</li> <li>An eastbound left-turn or westbound right-turn lane on Homedale Road into Driveway B is not warranted based on future 2023 background plus project traffic volumes</li> </ul>





#### 2. INTRODUCTION

Kimley-Horn and Associates, Inc. has been retained by the City of Caldwell to prepare a Traffic Impact Study (TIS) for a proposed multifamily residential development, near the northwest corner of the Homedale Road and Cleveland Boulevard intersection in Caldwell, Idaho. The proposed development is expected to be annexed into the City of Caldwell. The location of the Canyon Village multifamily residential development within the City of Caldwell is shown in **Figure 1**.

The proposed Canyon Village multifamily residential development includes 316 multifamily midrise residential units. The project is anticipated to be completed in 2023. A conceptual site plan of the development is shown in **Figure 2**. Access to the site will be provided via one right-in/right-out movement access on Cleveland Boulevard and one full access movement on Homedale Road. The access on Cleveland Boulevard will utilize an existing curb cut. The developer's site plan is also provided as **Appendix A**.

The purpose of this TIS is to identify trip generation characteristics of the proposed development, evaluate traffic related impacts on the adjacent street system, and recommend mitigation measures to identified impacts.

The scope of this study was determined through coordination and a scoping memorandum with the City of Caldwell and was prepared in accordance with City of Caldwell requirements.

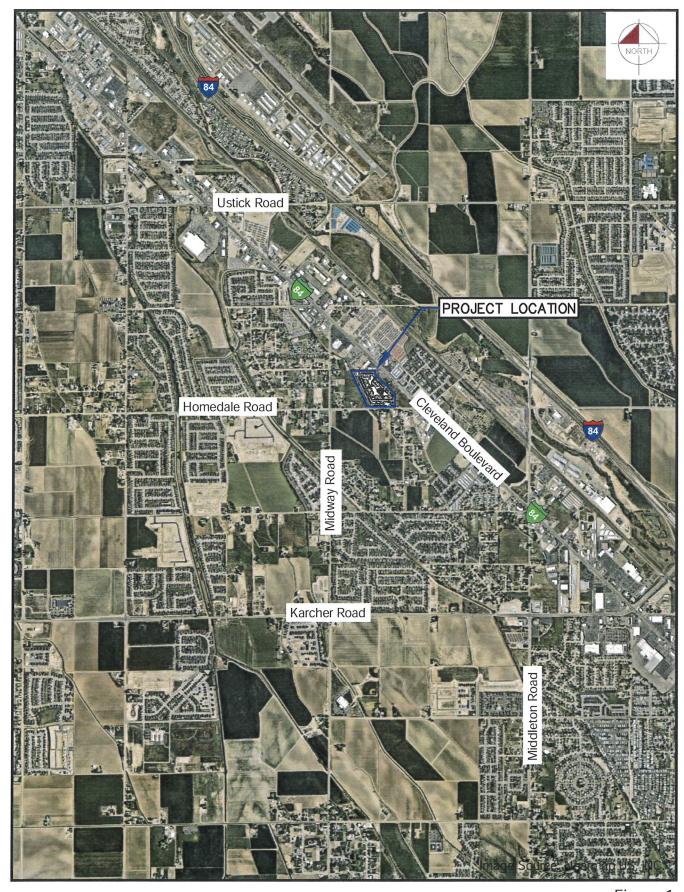
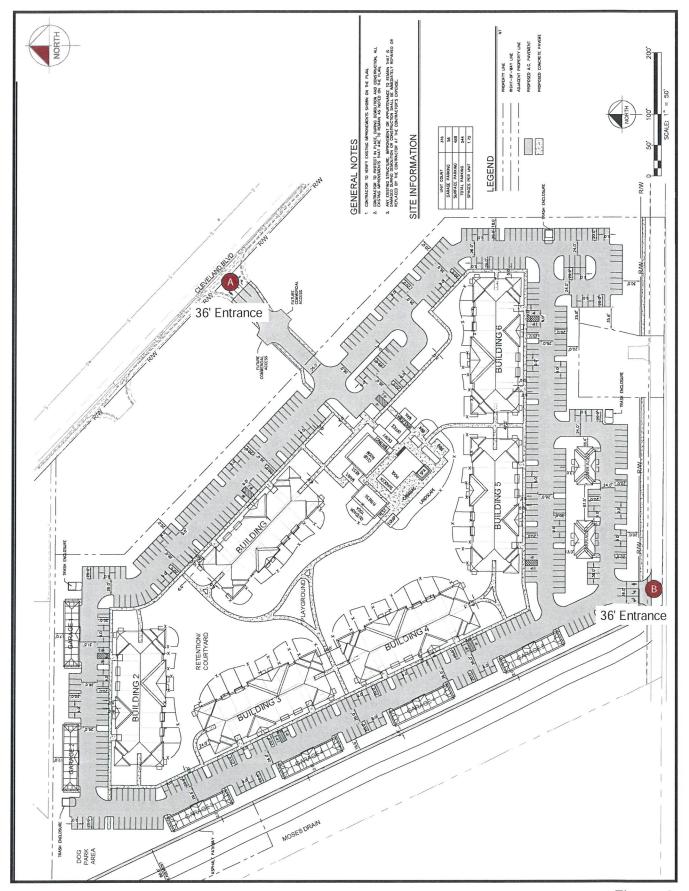




Figure 1 Vicinity Map





#### 3. EXISTING CONDITIONS

This section of the report details existing conditions adjacent to the project site.

#### 3.1. Study Area Intersections

Scoping discussions with the City of Caldwell identified the following two intersections for analysis:

- 1. Cleveland Boulevard / Homedale Road
- 2. Homedale Road / Midway Road

In addition to the two study area intersections, the following project driveway intersections are also analyzed:

- A. Driveway A / Cleveland Boulevard
- B. Driveway B / Homedale Road

A copy of the TIS scoping memorandum is included as **Appendix B**.

#### 3.2. Existing Land Uses

The site is currently undeveloped land. The site is zoned C3 (service commercial). To the east of the site is more vacant land that is also zoned as C3 and to the west is residential (R1 low density residential) land uses. Land to the north is C3 commercial land use and land to the south is residential.

#### 3.3. Existing Lane Configurations and Control

Regional access to the Canyon Village multifamily residential development will be provided by I-84. Primary access to the development will be provided by Cleveland Boulevard (I-84 Business), Homedale Road, and Midway Road. Direct access will be provided by Driveway A on Cleveland Boulevard and Driveway B on Homedale Road.

**Cleveland Boulevard (I-84 Business)** is a city-maintained roadway with two lanes in each direction separated by a two-way left-turn lane (TWLTL). The roadway is classified as a Principal Arterial in the Canyon County and City of Caldwell Functional Street Classification maps. The posted speed limit is 45 mph in the study area.

**Homedale Road** is a city-maintained roadway with one lane in each direction. The roadway is classified as a Minor Arterial in the Canyon County and City of Caldwell Functional Street Classification maps. The posted speed limit is 35 mph in the study area.

**Midway Road** is a city-maintained roadway with one lane in each direction. The roadway is classified as a Collector in the Canyon County and City of Caldwell Functional Street Classification maps. The posted speed limit is 35 mph in the study area.

Existing speed limits, lane configurations, and traffic control at the time of this study are illustrated in **Figure 3**.

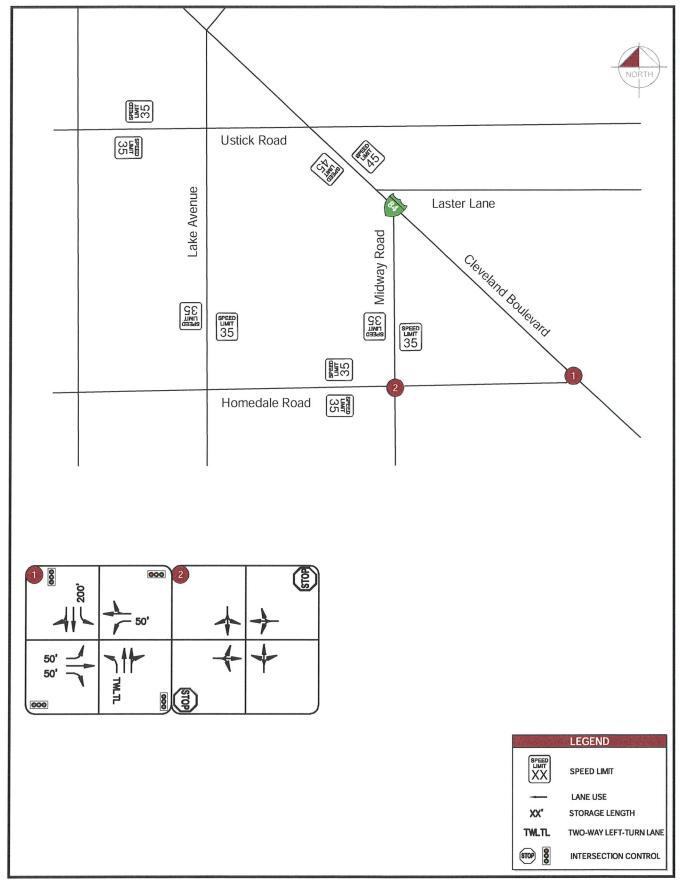




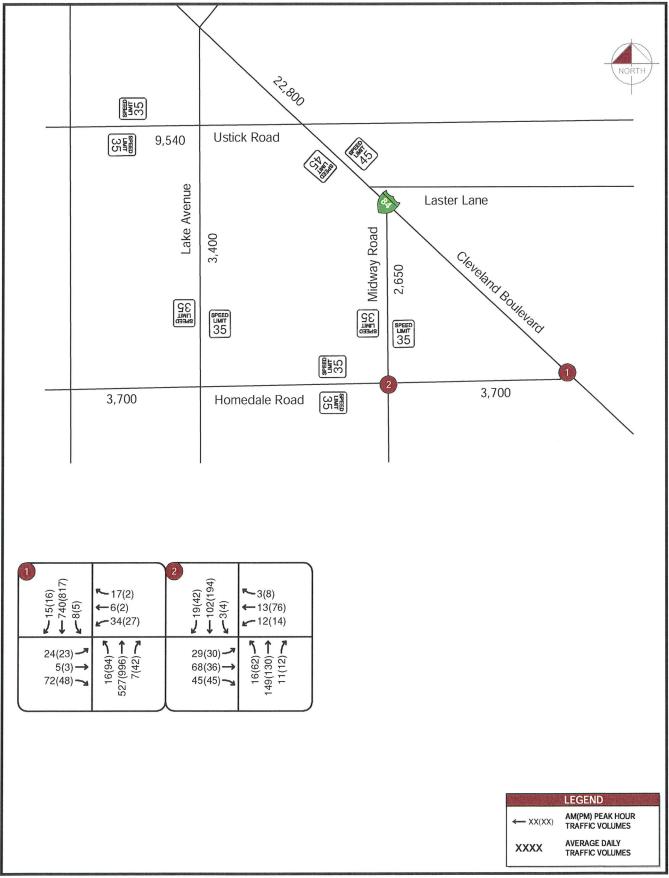
Figure 3 2021 Existing Lane Configuration and Control

#### 3.4. Existing Traffic Volumes

Existing AM (7:00-9:00) and PM (4:00-6:00) peak period turning movement count data was field collected for the following intersections on Thursday, February 2, 2021:

- Cleveland Boulevard / Homedale Road
- Homedale Road / Midway Road

A summary of the existing traffic data at the study area intersections is shown in **Figure 4**. The field counted data sheets are provided in **Appendix C**.







#### 3.5. Crash Data Analysis

Crash data was obtained for the two existing study intersections from the Local Highway Technical Assistance Council (LHTAC) website (<a href="http://gis.lhtac.org/safety/">http://gis.lhtac.org/safety/</a>) for the most recent five-year period (2015 – 2019) for which crash data was available. The available crash data was filtered for intersection related crashes only. Intersection crashes include those that occurred on both the major and minor streets of study intersections during the five-year analysis period. Crash data for the study intersections is summarized in **Table 1** based on crash severity and in **Table 2** based on crash type.

**Crash Severity Property** Total **Fatal** Int. **Intersection Name Damage** Injury Crashes Only # % % # % # Cleveland Boulevard / 0% 1 12 7 58% 5 42% 0 Homedale Road Homedale Road / 2 0 38 23 61% 39% 0% 15 Midway Road 60% 20 40% 0 0% **Total** 50 30

Table 1 - Crash Data by Severity

Table 2 - Crash Data by Type

	Intersection Name		Crash Type									
Int. Num.		Total Crashes	Angle		Rear- End		Sideswipe		Head-on		Other	
			#	%	#	%	#	%	#	%	#	%
1	Cleveland Boulevard / Homedale Road	12	4	33%	8	77%	0	0%	0	0%	0	0%
2	Homedale Road / Midway Road	38	32	84%	0	0%	2	5%	1	3%	3	8%
	Total		38	76%	8	16%	2	4%	1	2%	3	6%

A total of 50 crashes were recorded at the study intersections in the most recent five-year period where crash data is available. The 50 crashes resulted in 20 injury crashes (40%), 30 property damage only crashes (60%), and 0 fatal crashes (0%). The 50 crashes resulted in 38 angle crashes (76%), 8 rear-end crashes (16%), 2 sideswipe crashes (4%), 1 head-on on crashes (2%), and 3 other crashes (6%).

There is a high percentage of east and west approach failure to yield type crashes at the Homedale Road and Midway Road intersection. The east and west approaches have lighted stop signs. The City may consider increasing stop sign visibility with the addition of flashing LED stop sign lighting and/or advance yield pavement markings.

#### 4. FUTURE CONDITIONS

This section summarizes conditions that are expected in the future 2023 background and 2023 buildout (background plus project) conditions.

#### 4.1. Proposed Development

The proposed Canyon Village multifamily residential development includes 316 multifamily midrise residential units. The project is anticipated to be completed in 2023. Access to the site will be provided via one right-in/right-out movement access on Cleveland Boulevard and one full access movement on Homedale Road.

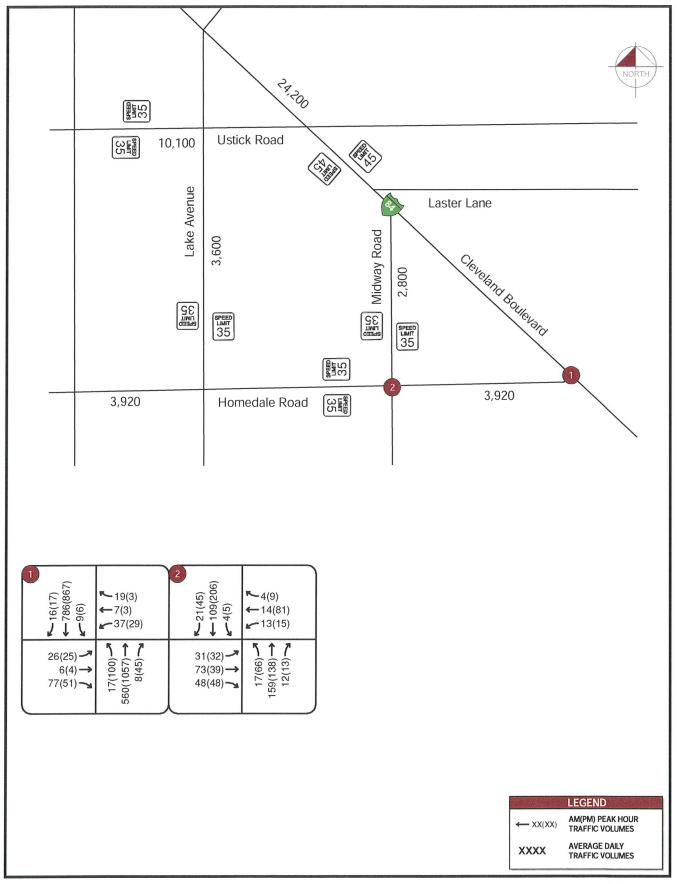
#### 4.2. Planned Improvements

Idaho Transportation Department (ITD) and the City of Caldwell do not have any current or future projects in the vicinity of the development.

#### 4.3. Background Traffic Volumes

To determine the impact of project traffic, the first step is to estimate future baseline traffic volumes on roadways in the vicinity of proposed development site. 2023 background traffic volumes were forecasted by observing historic traffic volumes recorded by ITD automated traffic recorder 161 located south of the study area. Traffic recorded at ATR 161 indicated a 2.81% average growth rate per year from 2012 to 2019. Therefore, a 3% annual growth rate was applied to existing traffic volumes at study area intersections to estimate future traffic volumes.

The 2023 background traffic volumes at the study area intersections are illustrated in **Figure 5**.



#### 4.4. Project Trip Generation

The Institute of Transportation Engineers' (ITE) *Trip Generation Manual*, 10<sup>th</sup> Edition was used to estimate the number of new trips that are anticipated to be generated by the Canyon Village multifamily residential development. The ITE *Trip Generation Manual* is a widely accepted reference that contains a compilation of trip generation studies completed at sites throughout the country.

Daily and peak hour trips, shown in **Table 3**, were calculated using applicable regression equations/rates from the ITE *Trip Generation Manual*. The ITE *Trip Generation Manual* information is provided in **Appendix D**.

ITE **AM Peak** PM Peak Daily Land Land Use Type Quantity Units Use **Total** Out **Total** Out **Total** In In Code Multifamily Housing Dwelling 221 316 1,720 30 84 114 85 54 139 (Mid-Rise) Apartments Units

Table 3 – Project Trip Generation

Build-out of the proposed development is estimated to generate 1,720 daily trips, with 114 trips occurring in the AM peak hour and 139 trips occurring in the PM peak hour on a typical weekday.

#### 4.5. Project Trip Distribution

Project trip directional distribution quantifies the percentage of site-generated traffic that approaches and departs the site from a given direction.

Distribution estimates consider study area street network characteristics, existing traffic patterns based on annual average daily traffic (AADT), expected street network, and access to regional facilities.

AADT data was retrieved from a combination of the ITD AADT Application and the COMPASS interactive Regional Traffic Volume Map.

Figure 6 shows the project trip distribution to the study area as coordinated with the City in scoping discussions.

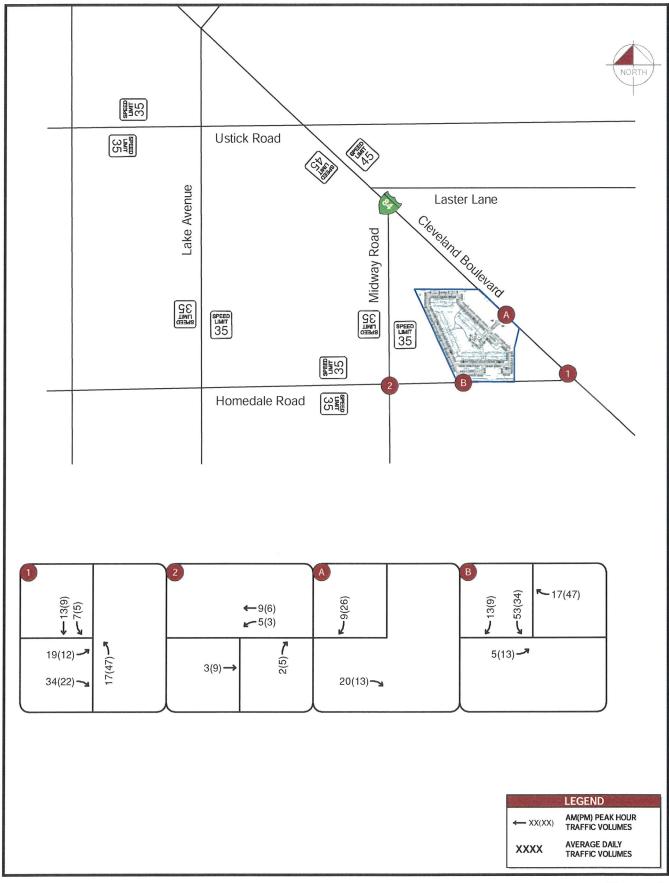
#### 4.6. Project Trip Assignment

Trips generated by the proposed development were assigned to the roadway network based on the trip distribution and likely travel patterns to and from the project site.

Trips were assigned using the lane geometry and intersection control shown in **Figure 3**. Project trip assignment is illustrated in **Figure 7**.







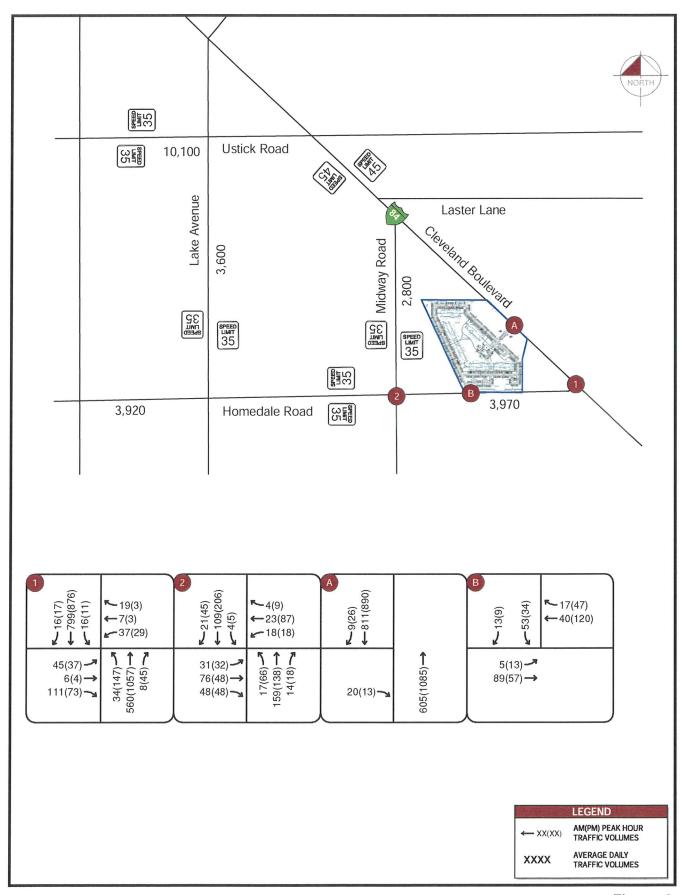




#### 4.7. 2023 Background Plus Project Traffic Volumes

The project trip assignment (**Figure 7**) was added to 2023 background traffic volumes (**Figure 5**) to calculate 2023 background plus project traffic volumes for study area intersections.

The 2023 background plus project peak hour traffic volumes are illustrated in **Figure 8**. Expected 2023 lane configurations are shown in **Figure 9**.





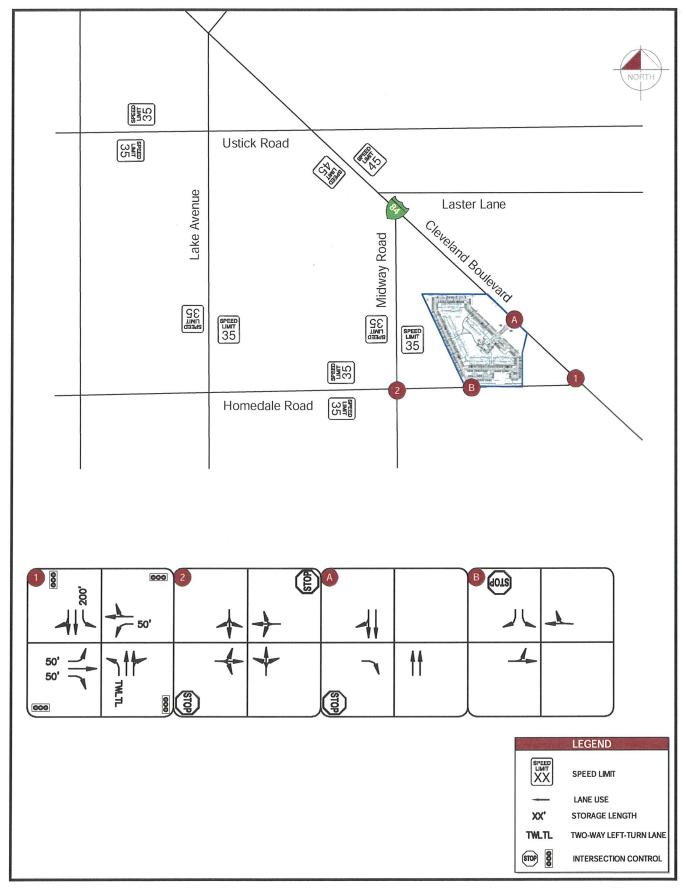




Figure 9

#### 5. ANALYSIS

Traffic scenarios analyzed in this study include:

- 2021 Existing
- 2023 Background
- 2023 Background Plus Project

Each scenario's AM and PM peak hour are analyzed in this section.

#### 5.1. Analysis Methodology

Study area intersections were analyzed based on average total delay for signalized and unsignalized intersections as presented in the Transportation Research Board's *Highway Capacity Manual*, 6<sup>th</sup> Edition (HCM 6).

Under the unsignalized analysis, the level of service (LOS) for a two-way stop-controlled (TWSC) intersection is determined by the computed or measured control delay and is defined for each minor movement. LOS for a two-way stop-controlled intersection is not defined for the intersection as a whole. LOS for a signalized intersection, four-way stop controlled intersections, or a roundabout is defined for the intersection as a whole. **Table 4** shows the definition of LOS for intersections.

Table 4 - Level of Service Definitions

Level of Service	Signalized Intersection Average Total Delay (sec/veh)	Unsignalized Intersection Average Total Delay (sec/veh)
А	≤10	10
В	>10 and ≤20	>10 and ≤15
С	>20 and ≤35	>15 and ≤25
D	>35 and ≤55	>25 and ≤35
E	>55 and ≤80	>35 and ≤50
F	>80	>50

Definitions provided from the Highway Capacity Manual, 6th Edition, Transportation Research Board.

Synchro 10 Analysis and Optimization Software was used to analyze the study area intersections for LOS and total delay. This analysis was performed in accordance with methodologies stated in the *Article 10, Section 10-10-01* of the City of Caldwell code.

#### 5.2. Operational Analysis

Analysis of existing conditions is based on the lane geometry and intersection control shown in **Figure 3**. All background and plus project analyses are based on the lane geometry and intersection control shown in **Figure 9**.

Synchro reports for operational analyses for each scenario are provided in Appendix E.



#### 5.2.1. 2021 Existing Operational Analysis

Operational analysis results for the 2021 existing AM and PM peak hours are shown in **Table 5** and **Table 6**. Study area intersections overall operate with an acceptable LOS in both AM and PM peak hours. The following individual intersection movements/approaches operate at LOS E or F:

- Cleveland Boulevard and Homedale Road
  - The eastbound approach operates at LOS E in the AM and PM peak hours. The volume to capacity ratio for the movement is under 0.90.
  - The westbound approach operates at LOS E in the AM and PM peak hours. The volume to capacity ration for the movement is under 0.90.

Table 5 - 2021 Existing AM LOS Analysis

Intercection	Ea	<b>Eastbound Approach</b>	Approa	ch	We	Westbound Approach	Approa	ch	Nor	thbound	Northbound Approach	ch	Sou	thboun	Southbound Approach	ach	Intersection
110000000000000000000000000000000000000	7		œ	Total	_1	L	œ	Total	1	T	22	Total	7		œ	Total	Total
1. Cleveland Blvd / Homedale Rd (Signalized Control)	nd / Hom	edale R	d (Signa	lized Co	utrol)												
SOT	Ш	۵	Ш	Ш	Ш	4	۵	Ш	Ш	4	A	A	ш	A	A	A	В
Average Delay (s/veh)	65.8	65.8 47.5	59.5	60.4	0.69	0.0	48.3	60.5	65.6	5.9	5.9	7.7	7.07	6.9	6.9	7.6	13.9
V/C Ratio 0.630 0.040 0.760	0.630	0.040	0.760	1	0.730	730 0.000 0.220	0.220	1	0.540	0.540 0.250 0.250	0.250		0.460	0.460 0.320 0.320	0.320		1
2. Homedale Rd / Midway Rd (Two-Way Stop Control)	I/Midwa	y Rd (T	No-Way	Stop Cc	ntrol)												
SOT		В	~			В				A				1	A		
Average Delay (s/veh)		13.0	0.			12.8	ω			7.5	2			7.	7.6		1
V/C Ratio		0.293	93			0.101	11			0.014	14			0.0	0.002		

Table 6 - 2021 Existing PM LOS Analysis

Intersection	Ea	<b>Eastbound Approach</b>	Approa	ıch	We	stbound	Westbound Approach	ch	Nor	Northbound Approach	Approa	ch	Sou	thboun	Southbound Approach	ach	Intersection
IIII Section	7	1	œ	Total	7		œ	Total	The Equation	F	ď	Total	Т	L	22	Total	Total
1. Cleveland Blvd / Homedale Rd (Signalized Contr	vd / Hom	nedale R	d (Signa	Ilized Co	ntrol)												
SOT	Ш	۵	Ш	Ш	Ш	A	۵	Ш	Ш	A	4	В	ц	A	4	4	В
Average Delay (s/veh)	71.4	53.9	66.7	9.79	71.6	0.0	53.9	9.69	65.1	5.9	5.9	10.8	83.7	8.1	8.1	8.5	13.2
V/C Ratio   0.640   0.040   0.720	0.640	0.040	0.720	ı	0.650	0.000 0.040	0.040	1	0.800	0.800 0.420 0.420	0.420	1	0.440	0.440 0.350 0.350	0.350	1	1
2. Homedale Rd / Midway Rd (Two-Way Stop Control)	1 / Midwa	T) BA (E	wo-Way	Stop Cc	introl)												
SOT		)	()			S				A				1	A		1
Average Delay (s/veh)		15.1	5.1			17	17.2			7.9	<u></u>			7.	7.5		1
V/C Ratio		0.263	:63			0.329	29			0.050	50			0.0	0.003		1



#### 5.2.2. 2023 Background Operational Analysis

Operational analysis results for the future 2023 background AM and PM peak hours are shown in **Table 7** and **Table 8**. Study area intersections overall operate with an acceptable LOS in both peak hours. The following individual intersection movements/approaches operate at LOS E or F:

- Cleveland Blvd and Homedale Road
  - The eastbound approach operates at LOS E in the AM and PM peak hours. The volume to capacity ratio for the movement is under 0.90.
  - The westbound approach operates at LOS E in the AM and PM peak hours. The volume to capacity ration for the movement is under 0.90.

Table 7 – 2023 Background AM LOS Analysis

Intersection	Ea	<b>Eastbound Approach</b>	Approa	ch	We	stbound	Westbound Approach	ch	Nor	thbound	Northbound Approach	eh G	Sou	thbound	Southbound Approach	ach	Intersection
	-	1	4	Total	1	_	œ	Total	1	L	œ	Total		۲	œ	Total	Total
1. Cleveland Blvd / Homedale Rd (Signalized Control)	vd / Hom	edale R	d (Signa	lized Co	introl)												
SOT	Ш	۵	Ш	Ш	Ш	⋖	۵	Ш	Ш	A	A	4	Ш	A	A	4	<b>a</b>
Average Delay (s/veh)	66.5	48.8	48.8 60.6	61.4	69.4	0.0	49.6	61.2	66.7	5.6	5.6	7.4	70.6	6.7	6.7	7.4	13.4
V/C Ratio 0.610 0.050 0.750	0.610	0.050	0.750	ı	0.720	0.720 0.000 0.220	0.220	1	0.540	0.540 0.240 0.240	0.240	1	0.470	0.470 0.340 0.340	0.340		1
2. Homedale Rd / Midway Rd (Two-Way Stop Control)	1 / Midwa	ny Rd (T)	wo-Way	Stop Co	introl)												
SOT		В	3			В	-			A				A			
Average Delay (s/veh)		12.7	7			12.4	4.			7.5	5			7.6	9		1
V/C Ratio		0.265	92			0.066	99			0.013	13			0.003	03		1

Table 8 – 2023 Background PM LOS Analysis

Intersection	Ea	<b>Eastbound Approach</b>	Approa	ch	We	stbound	<b>Nestbound Approach</b>	ch	Nor	Northbound Approach	Approa	ch	Sou	thbound	Southbound Approach	lch	Intersection
	7	T	ፈ	Total	200 工業		œ	Total	-	L	œ	Total	L	ŀ	œ	Total	Total
1. Cleveland Blvd / Homedale Rd (Signalized Contr	noH / p	edale Ro	d (Signa	lized Co	ntrol)												
SOT	Ш	۵	Ш	Ш	Ш	4	۵	Ш	Ш	A	4	В	ш	A	A	4	В
Average Delay (s/veh)	70.9	70.9 54.2 66.8 67.5	8.99	67.5	71.7	0.0	54.2	68.9	64.5	6.1	6.1	10.9	9.08	8.4	8.4	8.8	13.1
V/C Ratio 0.620 0.040 0.710	0.620	0.040	0.710	1	0.660	0.000 0.070	0.070		0.800	0.800 0.440 0.440	0.440	1	0.450	0.450 0.370 0.370	0.370		1
2. Homedale Rd / Midway Rd (Two-Way Stop Control)	/ Midwa	y Rd (Tv	vo-Way	Stop Co	ntrol)												
SOT		O				O				A				A	_		-
Average Delay (s/veh)		15.5	.5			17.0	0.			7.9	6			7.5	5		
V/C Ratio		0.278	78			0.280	80			0.054	54			0.004	04		1



#### 5.2.3. 2023 Background Plus Project Operational Analysis

Operational analysis results for the 2023 background plus project AM and PM peak hours are shown in **Table 9** and **Table 10**. Study area intersections overall operate with an acceptable LOS in both peak hours. The following individual intersection movements/approaches operate at LOS E or F:

- Cleveland Blvd and Homedale Road
  - The eastbound approach operates at LOS E in the AM and PM peak hours. The volume to capacity ratio for the movement is under 0.90.
  - The westbound approach operates at LOS E in the AM and PM peak hours. The volume to capacity ration for the movement is under 0.90.

Table 9 – 2023 Background plus Project AM LOS Analysis

Intersection	ii.	Eastbound Approach	Appro	ach	We	stbound	Westbound Approach	- - -	Noi	Northbound Approach	d Approx	ach	Sou	thboun	Southbound Approach	ach	Intersection
	1	1	R	Total	T	-	œ	Total	Ţ	L	œ	Total	П	۲	œ	Total	Total
1. Cleveland Blvd / Homedale Rd (Signalized Cont	rd / Hon	nedale R	d (Sign	alized Co	ontrol)												
SOT	Ш	Ω	Ш	ш	Ш	4	۵	ш	Ш	4	A	В	Ш	A	A	A	8
Average Delay (s/veh)	73.1	47.9	61.4	64.2	72.4	0.0	49.6	63.0	71.2	6.9	5.8	10.5	69.1	8.4	8.3	9.5	17.3
V/C Ratio	0.770	0.770 0.040	0.810	1	0.730	0.000	0.190	1	0.700	0.250	0.250	1	0.530	0.360	0.360	,	,
2. Homedale Rd / Midway Rd (Two-Way Stop Control)	/ Midwa	ay Rd (T	No-Way	Stop Co	introl)												
SOT		Ш	В				В			A	_			4	A		1
Average Delay (s/veh)		12	12.9			12	12.7			7.	7.5			7.	7.6		1
V/C Ratio		0.273	73			0.097	197			0.013	13			0.0	0.003		
A. Cleveland Blvd / Access Driveway A (Two-Way	vd / Acc	ess Driv	eway A	(Two-W		Stop Control)											
SOT		В	00												ı		•
Average Delay (s/veh)		11.8	ω.			·											ı
V/C Ratio		0.040	40				1										1
B. Homedale Rd / Access Driveway B (Two-Way Stop Control)	/ Acces	ss Drive	way B (	Two-Way	Stop C	ontrol)											
SOT		A	د.										A	1	A	1	1
Average Delay (s/veh)		7.3	8										9.7	1	8.6	1	ı
V/C Ratio		0.004	04										0.072	1	0.014	1	1
													1				1

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Table 10 – 2023 Background plus Project PM LOS Analysis

Intersection	Ea	<b>Eastbound Approach</b>	Approa	당	We	Westbound Approach	l Approa	ch	No.	Northbound Approach	d Approa	ıch	Sou	thboun	Southbound Approach	ach	Intersection
IIIIIII		۲	œ	Total	1	Т	ď	Total	_	L	ď	Total	-	L	œ	Total	Total
1. Cleveland Blvd / Homedale Rd (Signalized Cont.	noH / p.	edale Ro	d (Signa	lized Co	ntrol)												
SOT	Ш	۵	Ш	Ш	Ш	A	۵	Ш	ш	A	A	В	Ш	В	В	В	В
Average Delay (s/veh)	77.4	53.6	6.99	68.9	73.7	0.0	54.2	70.6	63.4	7.1	7.1	13.7	74.7	11.1	11.1	11.9	16.7
V/C Ratio	0.750	0.030	0.760	1	0.660	0.000	0.060	ā	0.850	0.450	0.450	١.	0.490	0.400	0.400	1	1
2. Homedale Rd / Midway Rd (Two-Way Stop Control)	/ Midwa	y Rd (Tv	vo-Way	Stop Co	ntrol)												
SOT		O				O				1	A				A		ı
Average Delay (s/veh)		16.1	Γ.			17.7	7.			7.	7.9			7	7.6		1
V/C Ratio		0.306	90			0.309	60			0.0	0.054			0.0	0.004		
A. Cleveland Blvd / Access Driveway A (Two-Way	d / Acc	ess Drive	eway A	(Two-Wa		Stop Control)											
SOT		В														TO THE STATE OF TH	1
Average Delay (s/veh)		12.3	<sub>0</sub>			·											1
V/C Ratio		0.028	28														1
B. Homedale Rd / Access Driveway B (Two-Way Stop Control)	/ Acces	s Drivev	vay B (T	wo-Way	Stop C	ontrol)											
SOT		A											В	ī	A	1	1
Average Delay (s/veh)		7.6	S			·							10.2	ï	9.1	í	î
V/C Ratio		0.010	10										0.052	,	0.011		



#### 5.3. Turn Lane Warrant Analyses

Turn lane warrant analyses were conducted consistent with National Highway Cooperative Research Program (NCHRP) *Report 457* and American Association of State Highway and Transportation Officials (AASHTO) *A Policy on Geometric Design of Highways and Streets*, 7<sup>th</sup> *Edition* (2018).

**Appendix F** contains the figures used in the turn lane analyses and results. **Appendix G** contains the figures used in the right lane analyses and results.

#### 5.3.1. Midway Road and Homedale Road Turn Lane Analysis

A northbound right-turn lane or northbound left-turn lane on Midway Road onto Homedale Road is not warranted based on 2021 existing, 2023 background, or 2023 background plus project traffic volumes. Similarly, a southbound right-turn lane or southbound left-turn lane on Midway Road onto Homedale Road is not warranted based on 2021 existing, 2023 background, or 2023 background plus project traffic volumes.

#### 5.3.2. Driveway A Turn Lane Analysis

A southbound right-turn lane on Cleveland Boulevard into Driveway A is not warranted based on future 2023 background plus project traffic volumes.

#### 5.3.3. Driveway B Turn Lane Analysis

An eastbound left-turn lane on Homedale Road into Driveway B is not warranted based on future 2023 background plus project traffic volumes. A westbound right-turn lane on Homedale Road into Driveway B is also not warranted based on future 2023 background plus project traffic volumes.

#### 6. POTENTIAL TRAFFIC MITIGATIONS

This section describes potential traffic mitigations and mitigation analyses results for potential improvements that may address poor delay and LOS for study area intersections and movements.

#### 6.1. Mitigated Improvement Analysis

#### 6.1.1. Cleveland Boulevard / Homedale Road

In the 2021 Existing, 2023 Background, and 2023 Background plus Project scenarios, the eastbound and westbound approaches at the Cleveland Boulevard / Homedale Road intersection operate at LOS E with a V/C ratio below 0.90. The proposed project adds only 19 left-turning vehicles (approximately 1 car every 3 minutes) to the eastbound approach in the AM peak hour and 12 in the PM peak hour. The proposed project does not add any vehicle traffic to the westbound approach.

Minor stop-controlled movements at major intersections typically experience delays during peak hours. The intersection movement is already failing in the existing and background scenarios, therefore the addition of 19 vehicles from the proposed development does not cause major additional operational issues. No mitigation improvements are recommended for this intersection.

#### 6.1.2. Midway Road / Homedale Road

The Midway Road and Homedale Road intersection is expected to operate at acceptable level of service in the 2021 Existing, 2023 Background, and 2023 Background plus Project scenarios. The proposed project adds only five (5) left-turning vehicles to the westbound approaches in the AM peak hour and three vehicles (3) in the PM peak hour. No mitigation improvements are recommended for this intersection.

#### 6.2. Recommendations

Right- or left-turn lanes are not warranted for Access Driveway A or Access Driveway B based on anticipated future 2023 background plus project traffic volumes. The driveways operate at acceptable LOS with minimal delay without installation of the left-turn or right-turn lanes.

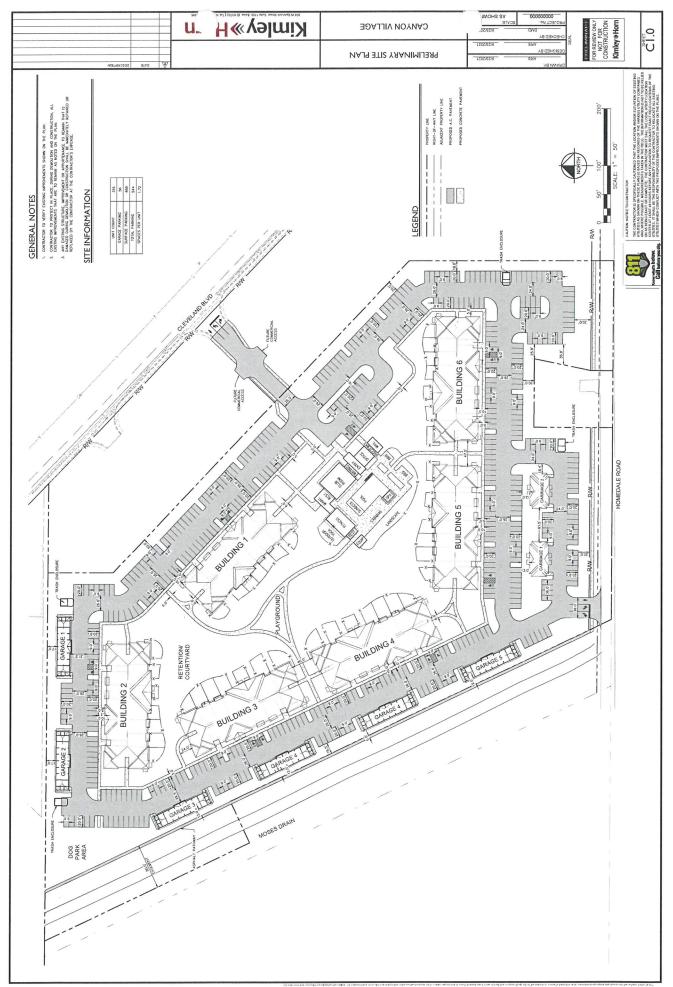
No additional improvements are recommended for study area intersections. The intersections are operating at acceptable LOS conditions in 2021 Existing, 2023 Background, and 2023 Background plus Project scenarios. The addition of project traffic has minimal effect on current or projected future traffic operations.

The following items are recommended for the internal roadway network of the proposed development:

- All internal project access locations are recommended to be constructed in accordance with City of Caldwell standards.
- Any roadway improvement recommended to be constructed in accordance with the owning agencies' standards, potentially ITD, Canyon Highway District, or the City of Caldwell.

### **APPENDIX A**

SITE PLAN



#### **APPENDIX B**

TRAFFIC IMPACT STUDY SCOPING MEMORANDUM



#### **MEMORANDUM**

To: Robb MacDonald, P.E.

City Engineer, City of Caldwell

From: Eric Sweat, P.E.

Kimley-Horn and Associates, Inc.

Date: October 13, 2021

TIS Scope for Canyon Village Residential Development in Caldwell, Idaho Subject:

This memorandum documents the scope and summarizes assumptions for a traffic impact study (TIS) for a proposed residential development, located near the northwest corner of the Homedale Road / Cleveland Boulevard intersection in Caldwell, Idaho. This memorandum was developed based on input from the City of Caldwell. The proposed development location is shown in Figure 1.

#### **Development Information**

The site is currently vacant. The site is zoned C2 (service commercial). To the east of the site is more vacant land that is also zoned as C2 and to the west is residential land uses. Land to the north is commercial land use and land to the south is residential.

The proposed development includes 316 apartment (multifamily mid-rise) residential units. Access to the site will be provided via two full-movement accesses, one on Cleveland Boulevard and one on Homedale Road. The conceptual site plan for the development is shown in Figure 2.

The planned completion year for the development is 2023.

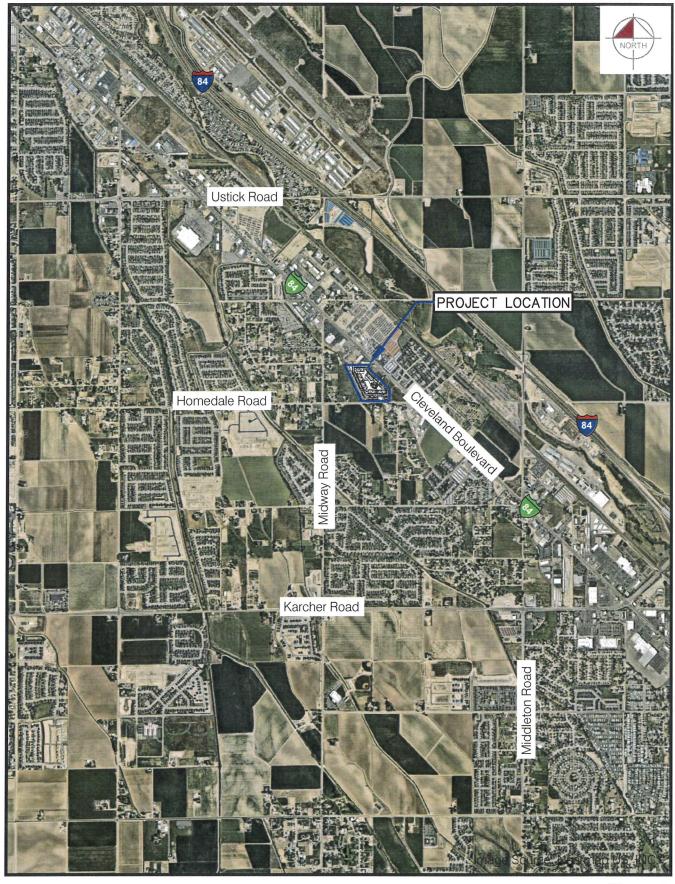




Figure 1 Vicinity Map

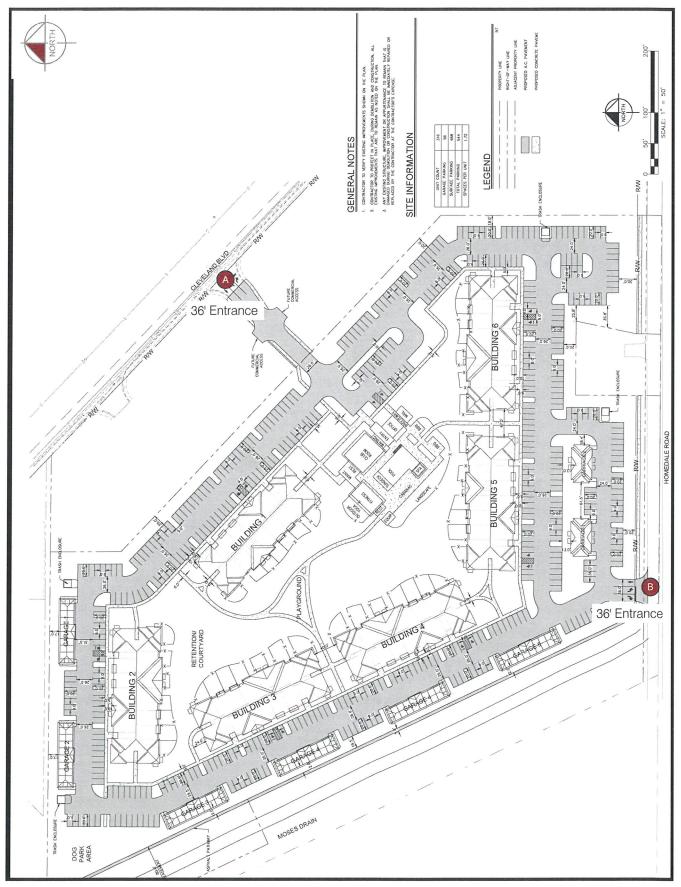




Figure 2 Conceptual Site Plan



#### **Trip Generation**

The Institute of Transportation Engineers' (ITE) *Trip Generation Manual, 10<sup>th</sup> Edition*, was used to obtain daily and peak hour trip generation equations or rates and inbound-outbound percentages, which were then used to estimate the number of daily and peak hour trips that can be attributed to the proposed development. The process outlined in the ITE *Trip Generation Handbook, 3<sup>rd</sup> Edition*, was used to determine whether average rates or equations should be used in calculating each land use's trip generation.

The trip generation characteristics of the site are summarized in **Table 1**. Summaries of ITE trip generation calculations are included in **Attachment A**.

**AM Peak** PM Peak **Dwelling** Daily ITE Land Land Use Type **Use Code** Units Total In Out **Total** In Out Total Multifamily Housing 221 316 1,720 30 84 114 85 54 139 (Mid-Rise) **Apartments** 

Table 1 – Trip Generation

The proposed development is expected to generate 1,720 daily trips, with 114 trips occurring in the AM peak hour and 139 trips occurring in the PM peak hour.

#### Trip Distribution

The distribution of site generated trips onto the roadway system is based on the proposed access locations, surrounding street network, average daily traffic values from the Idaho Transportation Department (ITD) database, and discussion with the City of Caldwell. Trip distribution for the site is shown in **Figure 3**.







#### **Analysis Scenarios and Study Assumptions**

- Intersections for evaluation (also presented in Figure 4):
  - Cleveland Boulevard / Homedale Road
  - Midway Road / Homedale Road
  - Cleveland Boulevard / Access A
  - Homedale Road / Access B
- No roadway segments volumes are being collected for evaluation
- Analysis scenarios:
  - 2021 Existing Conditions
  - 2023 Background Conditions (includes applying annual growth rates, but no new sitegenerated trips from the proposed development)
  - 2023 Plus Project Conditions (includes 2023 background traffic volumes <u>plus</u> new sitegenerated trips from the proposed development)
- Annual growth rates were calculated from traffic data as recorded by ITD automated traffic recorder 161 located south of the study area. Traffic recorded at ATR 161 indicates a 2.81% average growth rate per year from 2012 to 2019.
  - 3.0% annual growth rate to be used in estimating future traffic volumes.
- Time periods for evaluation:
  - Weekday AM Peak Hour (7:00-9:00 AM)
  - Weekday PM Peak Hour (4:00-6:00 PM)
- Crash data for the most recent 5 years available will be reported from the Local Highway Technical Assistance Council (LHTAC) website (http://gis.lhtac.org/safety/).
- Traffic data collection assumptions:
  - Study area intersection turning movement counts to be collected for AM (7:00-9:00) and PM (4:00-6:00) peak periods
  - No seasonal or COVID adjustment to be applied to collected counts.
  - No 24-hour counts to be collected for this study.



#### Study Area Intersections:

- 1. Cleveland Boulevard /Homedale Road
- 2. Homedale Road/Midway Road
- A. Driveway A/Cleveland Boulevard
- B. Driveway B/Homedale Road



#### Analysis Tools and Operating Standards

The study area intersections will be evaluated following the *Highway Capacity Manual 6<sup>th</sup> Edition (HCM 6)* methodology by using Synchro 11 analysis software. Where HCM 6 is unable to produce intended level of service (LOS) or volume-to-capacity (v/c) ratios, previous editions of the HCM or Synchro outputs may be utilized. Analyses will be performed in accordance with *Article 10, Section 10-10-01* of the City of Caldwell code.

ITD owned intersection will be held to ITD District 3 guidelines which require LOS D or better for overall intersection operations a maximum v/c ratio of 0.90 for each movement or lane group and the overall intersection.

#### **Background Developments**

We request the City of Caldwell provide the traffic studies for any approved in-process developments that should be included as background traffic in this analysis.

#### **Background Roadway Improvement Projects**

ITD and the City of Caldwell do not have any current or future projects in the vicinity of the development.

#### **Next Steps**

We request the City of Caldwell review this scoping memorandum and provide a response to the proposed full TIS assumptions.

Please contact Eric Sweat at 385-831-2008 or <a href="mailto:eric.sweat@kimley-horn.com">eric.sweat@kimley-horn.com</a> if you have any questions or comments on the information presented in this scoping memorandum.

The proposed TIS assumptions and any comments received to this memorandum will be incorporated into the traffic impact study submitted to the City of Caldwell (and/or ITD and Canyon County Highway District 4) for the proposed development.

#### **Attachments**

Attachment A - ITE Trip Generation Information

#### **APPENDIX C**

TRAFFIC COUNT DATA

L2DataCollection.com Idaho (208) 860-7554 Utah (801) 413-2993

Study: NV50017

Intersection: Caldwell Blvd / Homedale Rd

City, State: Caldwell, Idaho

Control: Signalized

File Name: Caldwell Blvd & Homedale Rd

Site Code : 00000000 Start Date : 2/25/2021

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		Caldw	ell Bou	ılevaro	d		Is	aiah V	Vay			Caldw	ell Bou	ılevar	d		Hom	edale l	Road		
		Fron	n Nort	hwest			Fron	n Nort	heast			Fron	n Sout	heast			Fr	om W	est		
Start	Hard	Thru	Left	Peds	App. Total	Right	Bear	Left	Peds	App. Total	Right	Thru	Bear	Peds	Ann Total	Bear	Bear	Hard	Peds	App. Total	Int. Total
Time	Right		Lett				Right			10.00	-		Left		App. Total	Right	Left	Left			
07:00 AM	0	113	1	0	114	3	1	21	0	25	3	84	5	0	92	26	1	10	0	37	268
07:15 AM	4	176	1	0	181	6	0	7	0	13	1	111	7	0	119	15	0	5	0	20	333
07:30 AM	4	205	1	0	210	3	1	8	0	12	1	163	5	0	169	24	1	8	0	33	424
07:45 AM	3	173	3	0	179	5	4	9	0	18	3	143	3	0	149	21	4	6	0	31	377
Total	11	667	6	0	684	17	6	45	0	68	8	501	20	0	529	86	6	29	0	121	1402
	r .					1										Ε					I
08:00 AM	4	186	3	0	193	3	1	10	0	14	2	110	1	0	113	12	0	5	0	17	337
08:15 AM	2	147	0	0	149	1	0	7	0	8	3	134	2	0	139	13	0	5	0	18	314
08:30 AM	4	196	2	0	202	1	0	6	0	7	5	149	6	0	160	22	1	2	0	25	394
08:45 AM	1	133	11	0	135	0	1	6	0	7	4	173	4	0	181	13	0	4	0	17	340
Total	11	662	6	0	679	5	2	29	0	36	14	566	13	0	593	60	1	16	0	77	1385
04:00 PM	2	190	7	0	199	1	1	14	0	16	6	213	21	0	240	15	0	5	0	20	475
04:15 PM	5	201	3	0	209	4	2	13	0	19	6	216	20	0	242	11	1	4	0	16	486
04:30 PM	2	188	2	0	192	2	0	7	0	9	16	260	17	0	293	10	0	8	0	18	512
04:45 PM	4	201	0	0	205	0	1	8	0	9	10	222	23	0	255	11	2	5	0	18	487
Total	13	780	12	0	805	7	4	42	0	53	38	911	81	0	1030	47	3	22	0	72	1960
05:00 PM	5	213	2	0	220	0	1	8	0	9	5	272	37	0	314	10	0	4	0	14	557
05:15 PM	5	215	1	0	221	0	0	4	0	4	11	242	17	0	270	17	1	6	0	24	519
05:30 PM	4	178	4	0	186	3	0	9	0	12	12	240	22	0	274	10	0	4	1	15	487
05:45 PM	4	196	4	0	204	2	0	8	0	10	10	224	27	0	261	12	1	1	0	14	489
Total	18	802	11	0	831	5	1	29	0	35	38	978	103	0	1119	49	2	15	1	67	2052
Grand Total	53	2911	35	0	2999	34	13	145	0	192	98	2956	217	0	3271	242	12	82	1	337	6799
Apprch %	1.8	97.1	1.2	0		17.7	6.8	75.5	0		3	90.4	6.6	0		71.8	3.6	24.3	0.3		
Total %	0.8	42.8	0.5	0	44.1	0.5	0.2	2.1	0	2.8	1.4	43.5	3.2	0	48.1	3.6	0.2	1.2	0	5	

L2DataCollection.com Idaho (208) 860-7554 Utah (801) 413-2993

Study: NV50017

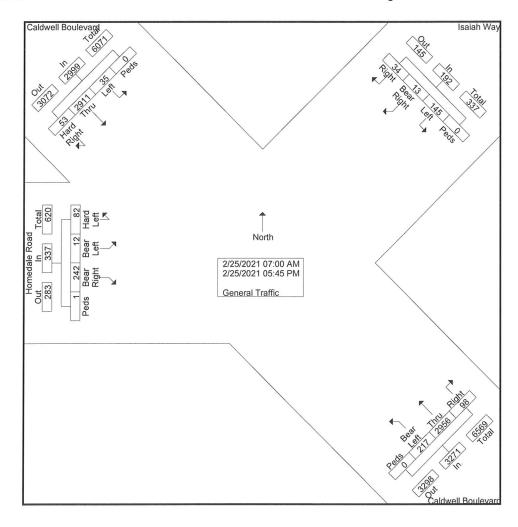
Intersection:Caldwell Blvd / Homedale Rd

City, State: Caldwell, Idaho

Control: Signalized

File Name: Caldwell Blvd & Homedale Rd

Site Code : 00000000 Start Date : 2/25/2021



L2DataCollection.com Idaho (208) 860-7554 Utah (801) 413-2993

Study: NV50017

Intersection: Caldwell Blvd / Homedale Rd

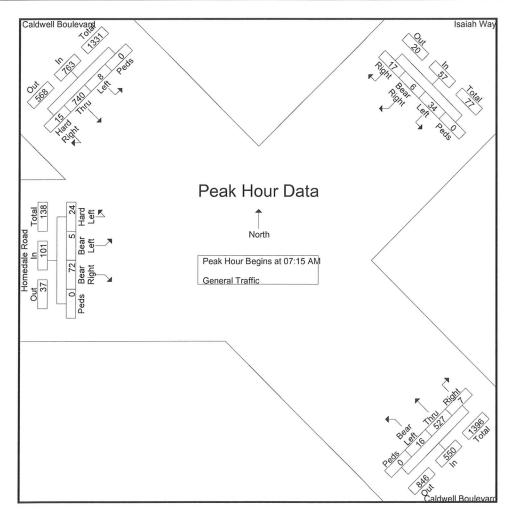
City, State: Caldwell, Idaho

Control: Signalized

File Name: Caldwell Blvd & Homedale Rd

Site Code : 00000000 Start Date : 2/25/2021

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Start Time	Hard Right	Thru	Left	Peds	App. Total	Right	Bear Right	Left	Peds	App. Total	Right	Thru	Bear Left	Peds	App. Total	Bear Right	Bear Left	Hard Left	Peds	App. Total	Int. Total
Peak Hour A	Analysi	is Fron	n 07:0	0 AM	to 11:45	AM -	Peak	1 of 1													
Peak Hour fo	r Entir	e Inter	section	Begin	s at 07:1	5 AM										r.					
07:15 AM	4	176	1	0	181	6	0	7	0	13	1	111	7	0	119	15	0	5	0	20	333
07:30 AM	4	205	1	0	210	3	1	8	0	12	1	163	5	0	169	24	1	8	0	33	424
07:45 AM	3	173	3	0	179	5	4	9	0	18	3	143	3	0	149	21	4	6	0	31	377
08:00 AM	4	186	3	0	193	3	1	10	0	14	2	110	1	0	113	12	0	5	0	17	337
Total Volume	15	740	8	0	763	17	6	34	0	57	7	527	16	0	550	72	5	24	0	101	1471
% App. Total	2	97	1	0		29.8	10.5	59.6	0		1.3	95.8	2.9	0		71.3	5	23.8	0		
PHF	.938	.902	.667	.000	.908	.708	.375	.850	.000	.792	.583	.808	.571	.000	.814	.750	.313	.750	.000	.765	.867



L2DataCollection.com Idaho (208) 860-7554 Utah (801) 413-2993

Study: NV50017

Intersection:Caldwell Blvd / Homedale Rd

City, State: Caldwell, Idaho

Control: Signalized

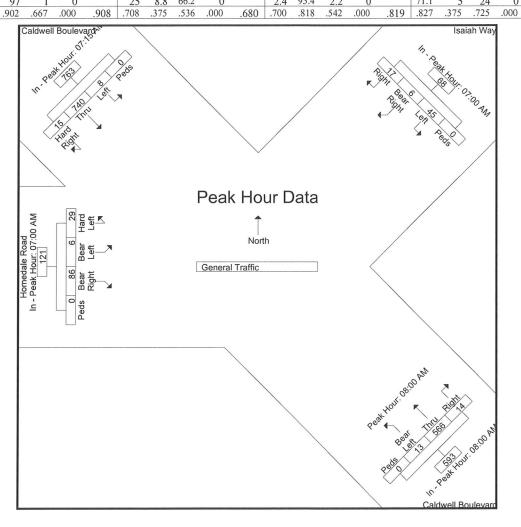
PHF .938

File Name: Caldwell Blvd & Homedale Rd

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Site Code : 00000000 Start Date : 2/25/2021

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		Fron	Nort	hwest			Fron	n Nort	heast			Fron	1 South	neast			Fr	om W	est		
Start	Hard	Thru	Left	Peds		Right	Bear	Left	Peds		Right	Thru	Bear	Peds		Bear	Bear	Hard	Peds		Int.
Time	Right	Tillu	Len	reus	App. Total	Right	Right	Len	1 cus	App. Total	Right	Tillu	Left	1 cus	App. Total	Right	Left	Left	1 cus	App. Total	Int.
Peak Hour A	nalysi	is Fron	m 07:0	0 AM	to 11:45	5 AM -	Peak	1 of 1													
Peak Hour fo	r Each	Appro	ach Be	egins a	t:																
	07:15 AM	1				07:00 AM					08:00 AM					07:00 AM					
+0 mins.	4	176	1	0	181	3	1	21	0	25	2	110	1	0	113	26	1	10	0	37	
+15 mins.	4	205	1	0	210	6	0	7	0	13	3	134	2	0	139	15	0	5	0	20	
+30 mins.	3	173	3	0	179	3	1	8	0	12	5	149	6	0	160	24	1	8	0	33	
+45 mins.	4	186	3	0	193	5	4	9	0	18	4	173	4	0	181	21	4	6	0	31	
Total Volume	15	740	8	0	763	17	6	45	0	68	14	566	13	0	593	86	6	29	0	121	
% App. Total	2	97	1	0		25	8.8	66.2	0		2.4	95.4	22	0		71.1	5	24	0		



L2DataCollection.com Idaho (208) 860-7554 Utah (801) 413-2993

Study: NV50017

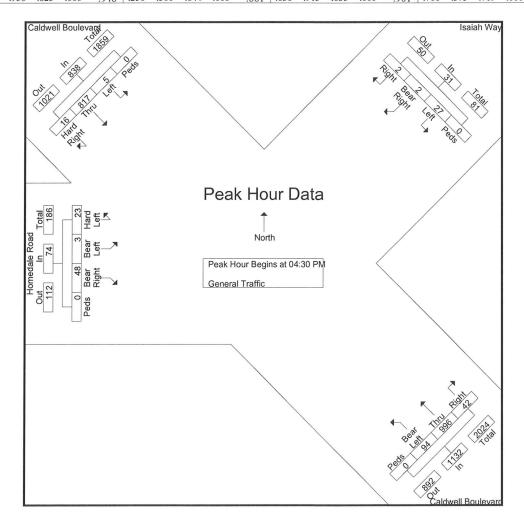
Intersection: Caldwell Blvd / Homedale Rd

City, State: Caldwell, Idaho Control: Signalized

File Name: Caldwell Blvd & Homedale Rd

Site Code : 00000000 Start Date : 2/25/2021 Page No : 5

	(	Caldw	ell Bou	ilevaro	1		Is	aiah V	Vay		(	Caldw	ell Bou	ilevaro	l		Hom	edale l	Road		
		Fron	Nort	hwest			Fron	n Nort	heast			Fron	Sout	heast			Fı	om W	est		
Start Time	Hard Right	Thru	Left	Peds	App. Total	Right	Bear Right	Left	Peds	App. Total	Right	Thru	Bear Left	Peds	App. Total	Bear Right	Bear Left	Hard Left	Peds	App. Total	Int. Tota
eak Hour A	nalys	is Froi	n 12:0	0 PM	to 05:45	PM -	Peak 1	of 1													
eak Hour fo	r Entir	e Inter	section	Begin	s at 04:3	80 PM															
04:30 PM	2	188	2	0	192	2	0	7	0	9	16	260	17	0	293	10	0	8	0	18	512
04:45 PM	4	201	0	0	205	0	1	8	0	9	10	222	23	0	255	11	2	5	0	18	487
05:00 PM	5	213	2	0	220	0	1	8	0	9	5	272	37	0	314	10	0	4	0	14	557
05:15 PM	5	215	1	0	221	0	0	4	0	4	11	242	17	0	270	17	1	6	0	24	519
Total Volume	16	817	5	0	838	2	2	27	0	31	42	996	94	0	1132	48	3	23	0	74	2075
% App. Total	1.9	97.5	0.6	0		6.5	6.5	87.1	0		3.7	88	8.3	0		64.9	4.1	31.1	0		
PHF	.800	.950	.625	.000	.948	.250	.500	.844	.000	.861	.656	.915	.635	.000	.901	.706	.375	.719	.000	.771	.93



L2DataCollection.com Idaho (208) 860-7554 Utah (801) 413-2993

Study: NV50017

Intersection:Caldwell Blvd / Homedale Rd

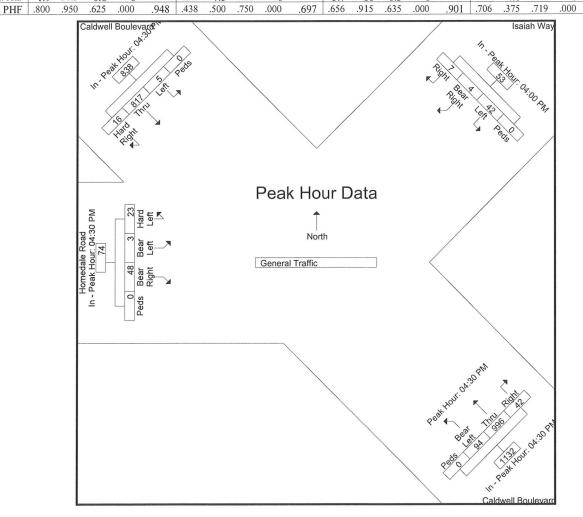
City, State: Caldwell, Idaho

Control: Signalized

File Name: Caldwell Blvd & Homedale Rd

Site Code : 00000000 Start Date : 2/25/2021

	(		ell Bou Nortl	ilevaro hwest	i	Isaiah Way From Northeast						Caldwo Fron	ell Bou 1 Soutl		l	Homedale Road From West					
Start Time	Hard Right	Thru	Left	Peds	App. Total	Right	Bear Right	Left	Peds	App. Total	Right	Thru	Bear Left	Peds	App. Total	Bear Right	Bear Left	Hard Left	Peds	App. Total	Int. To
Peak Hour A	nalysi	is Fron	n 12:0	0 PM 1	to 05:45	PM -	Peak 1	of 1													
eak Hour fo	r Each	Appro	ach Be	egins a	t:																1
	04:30 PM					04:00 PM									04:30 PM						
+0 mins.	2	188	2	0	192	1	1	14	0	16	16	260	17	0	293	10	0	8	0	18	
+15 mins.	4	201	0	0	205	4	2	13	0	19	10	222	23	0	255	11	2	5	0	18	
+30 mins.	5	213	2	0	220	2	0	7	0	9	5	272	37	0	314	10	0	4	0	14	
+45 mins.	5	215	1	0	221	0	1	8	0	9	11	242	17	0	270	17	1	6	0	24	
Total Volume	16	817	5	0	838	7	4	42	0	53	42	996	94	0	1132	48	3	23	0	74	
% App. Total	1.9	97.5	0.6	0		13.2	7.5	79.2	0		3.7	88	8.3	0		64.9	4.1	31.1	0		



L2DataCollection.com Idaho (208) 860-7554 Utah (801) 413-2993

Study: NV50017 Intersection:Caldwell Blvd / Homedale Rd

City, State: Caldwell, Idaho

Control: Signalized

File Name: Caldwell Blvd & Homedale Rd

Site Code : 00000000 Start Date : 2/25/2021 Page No : 7

#### Image 1



L2DataCollection.com Idaho (208) 860-7554 Utah (801) 413-2993

Study: NV50017

Intersection: Homedale Rd / Midway Rd

City, State: Caldwell, Idaho

Control: Stop Sign

File Name: Homedale Rd & Midway Rd

Site Code : 00000000 Start Date : 2/25/2021

Groups	Printed-	General	Traffic

	Midway Road From North							edale l rom E			Midway Road From South						Homedale Road From West						
Start	Right	Thru	Left	Peds		Right	Thru	Left	Peds		Right	Thru				Right	Thru	Left	Peds		Int. Tota		
Time	Right		Len	reus	App. Total	Right		Len		App. Total	Right			reus	App. Total	Right			1 cus	App. Total			
07:00 AM	3	12	0	0	15	0	8	0	0	8	4	29	3	0	36	4	20	18	0	42	101		
07:15 AM	2	23	1	0	26	1	5	1	0	7	2	34	5	0	41	9	16	9	0	34	108		
07:30 AM	4	28	1	0	33	1	5	7	0	13	3	38	1	0	42	22	18	7	0	47	135		
07:45 AM	4	28	0	0	32	1	3	2	0	6	5	44	5	0	54	7	19	7	0	33	125		
Total	13	91	2	0	106	3	21	10	0	34	14	145	14	0	173	42	73	41	0	156	469		
08:00 AM	9	23	1	0	33	0	0	2	0	2	1	33	5	0	39	7	15	6	0	28	102		
08:15 AM	3	25	0	0	28	0	1	3	0	4	4	31	5	0	40	13	10	2	0	25	97		
08:30 AM	5	24	2	0	31	2	3	2	0	7	6	27	5	0	38	3	9	5	0	17	93		
08:45 AM	2	9	0	0	11	1	1	0	0	2	5	37	2	0	44	7	6	5	0	18	75		
Total	19	81	3	0	103	3	5	7	0	15	16	128	17	0	161	30	40	18	0	88	367		
04:00 PM	2	44	2	0	48	1	16	3	1	21	6	17	11	0	34	7	5	4	0	16	119		
04:15 PM	10	37	2	0	49	0	12	9	0	21	5	28	6	0	39	10	5	10	0	25	134		
04:30 PM	10	45	5	0	60	2	9	1	0	12	3	27	6	0	36	8	4	7	1	20	128		
04:45 PM	13	33	1	0	47	1	15	7	0	23	7	23	11	0	41	11	7	4	0	22	133		
Total	35	159	10	0	204	4	52	20	1	77	21	95	34	0	150	36	21	25	1	83	514		
05:00 PM	12	49	0	0	61	1	28	7	0	36	1	37	16	0	54	16	9	7	0	32	183		
05:15 PM	11	50	1	0	62	2	11	2	0	15	5	34	15	0	54	10	14	6	0	30	161		
05:30 PM	9	47	1	0	57	2	19	4	0	25	3	28	13	0	44	10	6	6	0	22	148		
05:45 PM	10	48	2	0	60	3	18	1	0	22	3	31	18	0	52	9	7	11	0	27	161		
Total	42	194	4	0	240	8	76	14	0	98	12	130	62	0	204	45	36	30	0	111	653		
Grand Total	109	525	19	0	653	18	154	51	1	224	63	498	127	0	688	153	170	114	1	438	2003		
Apprch %	16.7	80.4	2.9	0		8	68.8	22.8	0.4		9.2	72.4	18.5	0		34.9	38.8	26	0.2				
Total %	5 4	26.2	0.9	0	32.6	0.9	7.7	2.5	0	11.2	3.1	24.9	6.3	0	34.3	7.6	8.5	5.7	0	21.9			

L2DataCollection.com Idaho (208) 860-7554 Utah (801) 413-2993

Study: NV50017

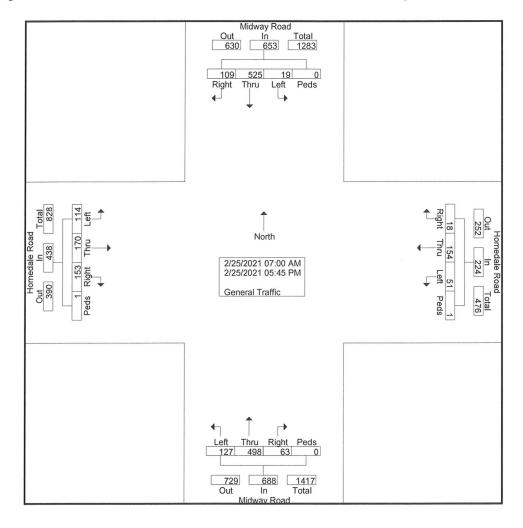
Intersection: Homedale Rd / Midway Rd

City, State: Caldwell, Idaho

Control: Stop Sign

File Name: Homedale Rd & Midway Rd

Site Code : 00000000 Start Date : 2/25/2021



L2DataCollection.com Idaho (208) 860-7554 Utah (801) 413-2993

Study: NV50017

Intersection: Homedale Rd / Midway Rd

City, State: Caldwell, Idaho

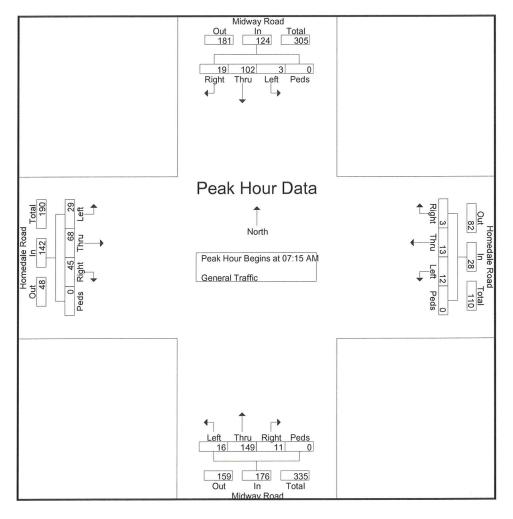
Control: Stop Sign

File Name: Homedale Rd & Midway Rd

Site Code : 00000000

Start Date : 2/25/2021 Page No : 3

			lway F			Homedale Road From East							dway I om So								
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
Peak Hour A	nalys	is Fron	n 07:0	0 AM	to 11:45	AM -	Peak	1 of 1													
Peak Hour fo	r Entir	e Inters	section	Begin	s at 07:1	5 AM															
07:15 AM	2	23	1	0	26	1	5	1	0	7	2	34	5	0	41	9	16	9	0	34	108
07:30 AM	4	28	1	0	33	1	5	7	0	13	3	38	1	0	42	22	18	7	0	47	135
07:45 AM	4	28	0	0	32	1	3	2	0	6	5	44	5	0	54	7	19	7	0	33	125
08:00 AM	9	23	1	0	33	0	0	2	0	2	1	33	5	0	39	7	15	6	0	28	102
Total Volume	19	102	3	0	124	3	13	12	0	28	11	149	16	0	176	45	68	29	0	142	470
% App. Total	15.3	82.3	2.4	0		10.7	46.4	42.9	0		6.2	84.7	9.1	0		31.7	47.9	20.4	0		
PHF	.528	.911	.750	.000	.939	.750	.650	.429	.000	.538	.550	.847	.800	.000	.815	.511	.895	.806	.000	.755	.870



L2DataCollection.com Idaho (208) 860-7554 Utah (801) 413-2993

Study: NV50017

Intersection: Homedale Rd / Midway Rd

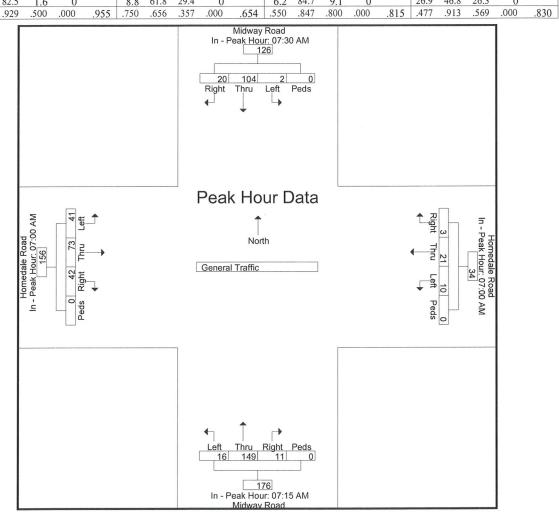
City, State: Caldwell, Idaho

Control: Stop Sign

File Name: Homedale Rd & Midway Rd

Site Code : 00000000 Start Date : 2/25/2021

			lway F om No			Homedale Road From East							dway I om So			Homedale Road From West					
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. To
Peak Hour A	nalysi	is Froi	n 07:0	0 AM	to 11:45	5 AM -	Peak	1 of 1													
Peak Hour fo	r Each	Appro	ach Be	egins a	t:	,															i
	07:30 AM					07:00 AM						1				07:00 AM					
+0 mins.	4	28	1	0	33	0	8	0	0	8	2	34	5	0	41	4	20	18	0	42	
+15 mins.	4	28	0	0	32	1	5	1	0	7	3	38	1	0	42	9	16	9	0	34	
+30 mins.	9	23	1	0	33	1	5	7	0	13	5	44	5	0	54	22	18	7	0	47	
+45 mins.	3	25	0	0	28	1	3	2	0	6	1	33	5	0	39	7	19	7	0	33	
Total Volume	20	104	2	0	126	3	21	10	0	34	11	149	16	0	176	42	73	41	0	156	
% App. Total	15.9	82.5	1.6	0		8.8	61.8	29.4	0		6.2	84.7	9.1	0		26.9	46.8	26.3	0		
PHF	.556	.929	.500	.000	.955	.750	.656	.357	.000	.654	.550	.847	.800	.000	.815	.477	.913	.569	.000	.830	



# **L2 Data Collection**

L2DataCollection.com Idaho (208) 860-7554 Utah (801) 413-2993

Study: NV50017 Intersection: Homedale Rd / Midway Rd

City, State: Caldwell, Idaho

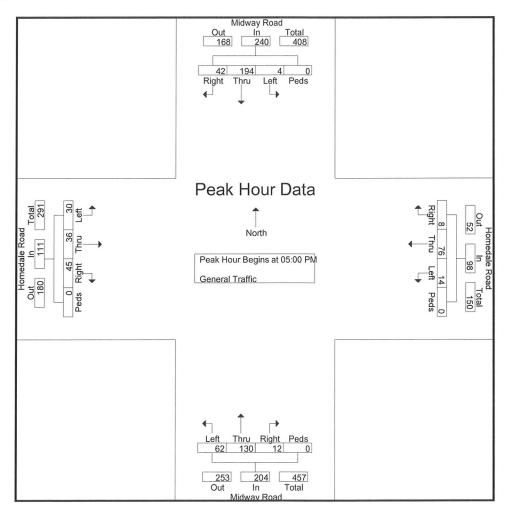
Control: Stop Sign

File Name: Homedale Rd & Midway Rd

Site Code : 00000000 Start Date : 2/25/2021

Page No : 5

	Midway Road Homedale Road From North From East										dway I om So					edale l					
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
Peak Hour A	Analys	is Froi	n 12:0	0 PM	to 05:45	PM -	Peak 1	of 1													
Peak Hour fo	r Entir	e Inter	section	Begin	s at 05:0	00 PM															
05:00 PM	12	49	0	0	61	1	28	7	0	36	1	37	16	0	54	16	9	7	0	32	183
05:15 PM	11	50	1	0	62	2	11	2	0	15	5	34	15	0	54	10	14	6	0	30	161
05:30 PM	9	47	1	0	57	2	19	4	0	25	3	28	13	0	44	10	6	6	0	22	148
05:45 PM	10	48	2	0	60	3	18	1	0	22	3	31	18	0	52	9	7	11	0	27	161
Total Volume	42	194	4	0	240	8	76	14	0	98	12	130	62	0	204	45	36	30	0	111	653
% App. Total	17.5	80.8	1.7	0		8.2	77.6	14.3	0		5.9	63.7	30.4	0		40.5	32.4	27	0		
PHF	.875	.970	.500	.000	.968	.667	.679	.500	.000	.681	.600	.878	.861	.000	.944	.703	.643	.682	.000	.867	.892



# **L2 Data Collection**

L2DataCollection.com Idaho (208) 860-7554 Utah (801) 413-2993

Study: NV50017

Intersection: Homedale Rd / Midway Rd

City, State: Caldwell, Idaho

Control: Stop Sign

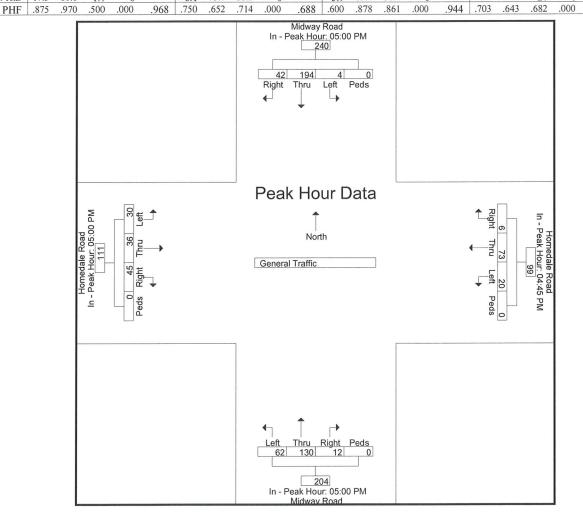
File Name: Homedale Rd & Midway Rd

.867

Site Code : 00000000 Start Date : 2/25/2021

Page No : 6

			lway F				Homedale Road From East						dway I					edale ]			
		Fr	om No	rth			F	rom E	ast			Fr	om So	uth			Fi	om W	est		
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. T
eak Hour A	Analys	is Fron	n 12:0	0 PM	to 05:45	PM -	Peak 1	1 of 1													
eak Hour fo	r Each	Appro	ach Be	egins a	t:																1
	05:00 PM					04:45 PM					05:00 PM					05:00 PM					
+0 mins.	12	49	0	0	61	1	15	7	0	23	1	37	16	0	54	16	9	7	0	32	
+15 mins.	11	50	1	0	62	1	28	7	0	36	5	34	15	0	54	10	14	6	0	30	
+30 mins.	9	47	1	0	57	2	11	2	0	15	3	28	13	0	44	10	6	6	0	22	
+45 mins.	10	48	2	0	60	2	19	4	0	25	3	31	18	0	52	9	7	11	0	27	
Total Volume	42	194	4	0	240	6	73	20	0	99	12	130	62	0	204	45	36	30	0	111	
% App. Total	17.5	80.8	1.7	0		6.1	73.7	20.2	0		5.9	63.7	30.4	0		40.5	32.4	27	0		



# **L2 Data Collection**

L2DataCollection.com Idaho (208) 860-7554 Utah (801) 413-2993

Study: NV50017 Intersection: Homedale Rd / Midway Rd

City, State: Caldwell, Idaho

Control: Stop Sign

File Name: Homedale Rd & Midway Rd Site Code: 00000000

Start Date : 2/25/2021

Page No : 7

#### Image 1



# APPENDIX D ITE TRIP GENERATION INFORMATION

(221)

Vehicle Trip Ends vs: Dwelling Units

On a: Weekday,

Peak Hour of Adjacent Street Traffic,

One Hour Between 7 and 9 a.m.

Setting/Location: General Urban/Suburban

Number of Studies: 53

Avg. Num. of Dwelling Units: 207

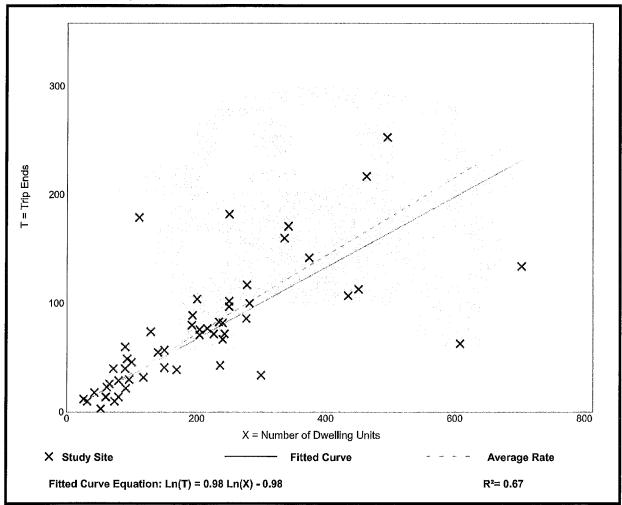
Directional Distribution: 26% entering, 74% exiting

#### **Vehicle Trip Generation per Dwelling Unit**

https://www.itetripge

Average Rate	Range of Rates	Standard Deviation
0.36	0.06 - 1.61	0.19

# **Data Plot and Equation**



Trip Gen Manual, 10th Ed + Supplement • Institute of Transportation Engineers

# **Multifamily Housing (Mid-Rise)**

(221)

Vehicle Trip Ends vs: Dwelling Units

On a: Weekday,

Peak Hour of Adjacent Street Traffic,

One Hour Between 4 and 6 p.m.

Setting/Location: General Urban/Suburban

Number of Studies: 60

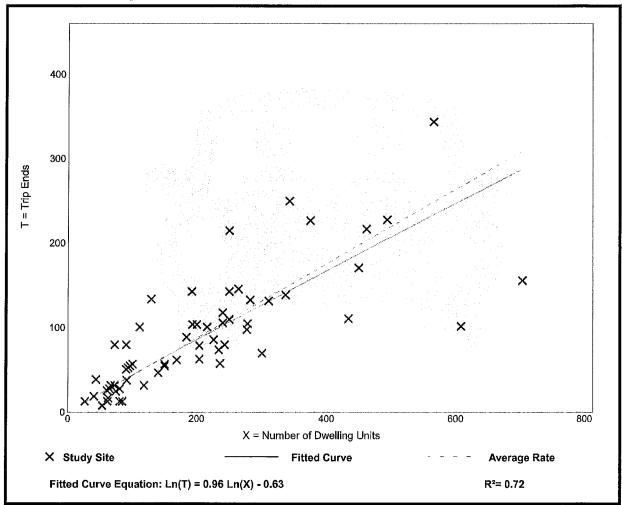
Avg. Num. of Dwelling Units: 208

Directional Distribution: 61% entering, 39% exiting

### **Vehicle Trip Generation per Dwelling Unit**

Average Rate	Range of Rates	Standard Deviation
0.44	0.15 - 1.11	0.19

## **Data Plot and Equation**



Trip Gen Manual, 10th Ed + Supplement • Institute of Transportation Engineers

Vehicle Trip Ends vs: Dwelling Units On a: Weekday

Setting/Location: General Urban/Suburban

Number of Studies:

27

Avg. Num. of Dwelling Units:

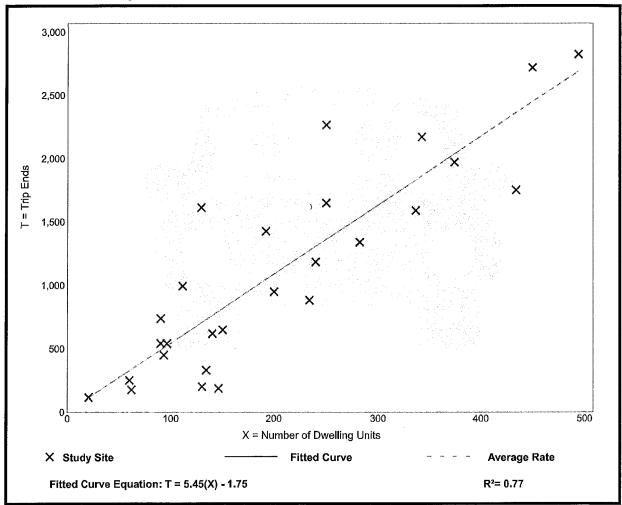
Directional Distribution: 50% entering, 50% exiting

205

### Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
5.44	1.27 - 12.50	2.03

## **Data Plot and Equation**



Trip Gen Manual, 10th Ed + Supplement • Institute of Transportation Engineers

# **APPENDIX E**

SYNCHRO REPORTS FOR OPERATIONAL ANALYSES

**Existing Analysis** 

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	24	5	72	34	6	17	16	527	7	8	740	15
Future Volume (veh/h)	24	5	72	34	6	17	16	527	7	8	740	15
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	31	6	94	43	8	22	20	651	9	9	813	16
Peak Hour Factor	0.77	0.77	0.77	0.79	0.79	0.79	0.81	0.81	0.81	0.91	0.91	0.91
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	49	146	123	59	37	101	37	2570	36	19	2517	50
Arrive On Green	0.03	0.08	0.08	0.03	0.08	0.08	0.02	0.72	0.72	0.01	0.71	0.71
Sat Flow, veh/h	1781	1870	1585	1781	441	1212	1781	3589	50	1781	3564	70
Grp Volume(v), veh/h	31	6	94	43	0	30	20	322	338	9	405	424
Grp Sat Flow(s),veh/h/ln	1781	1870	1585	1781	0	1652	1781	1777	1861	1781	1777	1858
Q Serve(g_s), s	1.9	0.3	6.5	2.7	0.0	1.9	1.2	7.0	7.0	0.6	9.6	9.6
Cycle Q Clear(g_c), s	1.9	0.3	6.5	2.7	0.0	1.9	1.2	7.0	7.0	0.6	9.6	9.6
Prop In Lane	1.00		1.00	1.00		0.73	1.00		0.03	1.00		0.04
Lane Grp Cap(c), veh/h	49	146	123	59	0	137	37	1272	1333	19	1255	1312
V/C Ratio(X)	0.63	0.04	0.76	0.73	0.00	0.22	0.54	0.25	0.25	0.46	0.32	0.32
Avail Cap(c_a), veh/h	201	463	393	265	0	469	185	1272	1333	136	1255	1312
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	53.4	47.4	50.2	53.2	0.0	47.5	53.8	5.5	5.5	54.6	6.2	6.2
Incr Delay (d2), s/veh	12.4	0.1	9.3	15.8	0.0	0.8	11.8	0.5	0.5	16.2	0.7	0.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	1.8	0.3	5.1	2.6	0.0	1.4	1.2	4.0	4.2	0.6	5.6	5.9
Unsig. Movement Delay, s/veh						Satura Sandar State	A THE REAL PROPERTY.			AND DESCRIPTION OF THE PARTY OF		-
LnGrp Delay(d),s/veh	65.8	47.5	59.5	69.0	0.0	48.3	65.6	5.9	5.9	70.7	6.9	6.9
LnGrp LOS	E	D	E	E	A	D	E	A	A	E	A	A
Approach Vol, veh/h		131			73			680			838	
Approach Delay, s/veh		60.4	DATES TANGET OF STREET	THE SECOND SPECIAL PROPERTY ASSESSMENT	60.5			7.7			7.6	
Approach LOS		Е			Е			Α			Α	
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	5.7	84.0	8.2	13.1	6.8	82.9	7.6	13.7				
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5				
Max Green Setting (Gmax), s	8.5	79.5	16.5	27.5	11.5	76.5	12.5	31.5				
Max Q Clear Time (g_c+l1), s	2.6	9.0	4.7	8.5	3.2	11.6	3.9	3.9				
Green Ext Time (p_c), s	0.0	4.0	0.0	0.2	0.0	5.4	0.0	0.1				
Intersection Summary				9/5								
HCM 6th Ctrl Delay			13.9									
HCM 6th LOS			В									

Intersection													
Int Delay, s/veh	5.6			Constitution and the second			ELI MARIO DE ESPACIA DE COMPANSA DE CO		Control of Control	O. SOCIALIST SALES			
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations													
Traffic Vol, veh/h	29	68	45	12	13	3	16	149	11	3	102	19	
Future Vol, veh/h	29	68	45	12	13	3	16	149	11	3	102	19	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
RT Channelized			None			None	-		None	-		None	
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-	
Veh in Median Storage	,# -	0	-	Tarana -	0		-	0		-	0		
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	76	76	76	54	54	54	81	81	81	94	94	94	
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2	
Mvmt Flow	38	89	59	22	24	6	20	184	14	3	109	20	
Major/Minor N	Minor2			Minor1			Major1		1	Major2			
Conflicting Flow All	371	363	119	430	366	191	129	0	0	198	0	0	
Stage 1	125	125	-	231	231		1.	-	-		-	-	
Stage 2	246	238	-	199	135	-	-	_	-	-	-	_	
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-	
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-	
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	12-	-		-	-	-	
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-	
Pot Cap-1 Maneuver	586	565	933	535	562	851	1457		-	1375	-	-	
Stage 1	879	792	-	772	713	-	-	-	-	-	-	_	
Stage 2	758	708		803	785	-	-	-	-	-	-	-	
Platoon blocked, %								-	-		-	-	
Mov Cap-1 Maneuver	556	555	933	433	552	851	1457	•	-	1375	-	-	
Mov Cap-2 Maneuver	556	555	-	433	552	-	-	-	-	-	-	-	
Stage 1	866	790		760	702	-	-	-	-	-	-	-	
Stage 2	716	697	-	666	783	-	-	-	-	-	-	-	
Approach	EB			WB			NB			SB			
HCM Control Delay, s	13			12.8			0.7			0.2			
HCM LOS	В			В									
Minor Lane/Major Mvm	t	NBL	NBT	NBRI	EBLn1V	VBLn1	SBL	SBT	SBR				
Capacity (veh/h)		1457	-		637	511	1375	-	-				
HCM Lane V/C Ratio		0.014	-	-	0.293	0.101	0.002	-	-				
HCM Control Delay (s)		7.5	0		13	12.8	7.6	0	_				
		1.0	U		10		A STREET, CO., St. Land St. Lines						
HCM Lane LOS		7.5 A	A	<u>-</u>	B 1.2	B 0.3	A 0	Α	-		5.46.00.00.00.00.00		

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	23	3	48	27	2	2	94	996	42	5	817	16
Future Volume (veh/h)	23	3	48	27	2	2	94	996	42	5	817	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	30	4	62	31	2	2	104	1107	47	5	860	17
Peak Hour Factor	0.77	0.77	0.77	0.86	0.86	0.86	0.90	0.90	0.90	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	47	101	86	48	47	47	131	2649	112	11	2479	49
Arrive On Green	0.03	0.05	0.05	0.03	0.05	0.05	0.07	0.76	0.76	0.01	0.70	0.70
Sat Flow, veh/h	1781	1870	1585	1781	858	858	1781	3473	147	1781	3564	70
Grp Volume(v), veh/h	30	4	62	31	0	4	104	566	588	5	429	448
Grp Sat Flow(s), veh/h/ln	1781	1870	1585	1781	0	1716	1781	1777	1844	1781	1777	1858
Q Serve(g_s), s	2.0	0.2	4.6	2.1	0.0	0.3	6.9	13.3	13.3	0.3	11.6	11.6
Cycle Q Clear(g_c), s	2.0	0.2	4.6	2.1	0.0	0.3	6.9	13.3	13.3	0.3	11.6	11.6
Prop In Lane	1.00		1.00	1.00		0.50	1.00		0.08	1.00		0.04
Lane Grp Cap(c), veh/h	47	101	86	48	0	94	131	1355	1406	11	1236	1292
V/C Ratio(X)	0.64	0.04	0.72	0.65	0.00	0.04	0.80	0.42	0.42	0.44	0.35	0.35
Avail Cap(c_a), veh/h	156	351	297	156	0	322	364	1355	1406	111	1236	1292
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	57.9	53.8	55.9	57.8	0.0	53.7	54.7	5.0	5.0	59.4	7.3	7.3
Incr Delay (d2), s/veh	13.6	0.2	10.8	13.8	0.0	0.2	10.4	1.0	0.9	24.3	0.8	0.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	1.9	0.2	3.8	2.0	0.0	0.2	6.1	7.2	7.4	0.4	7.2	7.5
Unsig. Movement Delay, s/veh	71.4	53.9	66.7	71.6	0.0	53.9	65.1	5.9	5.9	83.7	8.1	8.1
LnGrp Delay(d),s/veh	71. <del>4</del> E	55.9 D	00. <i>1</i>	7 1.0 E	Α	55.9 D	65.1 E	5.9 A	5.9 A	03. <i>1</i>	ο. 1	CONTRACTOR OF STREET
LnGrp LOS		96			35	U		1258	A		882	<u> </u>
Approach Vol, veh/h		HILL STORY OF STREET,			69.6			10.8			8.5	
Approach Delay, s/veh Approach LOS		67.6 E			09.0 E			10.6 B			0.5 A	
WITH CO. \$ 100 THE CO. \$ 100 T					C						A	
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	5.3	96.0	7.7	11.0	13.3	88.0	7.7	11.1				
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	AND DESCRIPTION OF THE PERSON	NAMES OF STREET		BENEVE STOREGE
Max Green Setting (Gmax), s	7.5	91.5	10.5	22.5	24.5	74.5	10.5	22.5				
Max Q Clear Time (g_c+l1), s	2.3	15.3	4.1	6.6	8.9	13.6	4.0	2.3				NELSON SCHOOL SELECT
Green Ext Time (p_c), s	0.0	8.9	0.0	0.1	0.2	5.8	0.0	0.0				
Intersection Summary												
HCM 6th Ctrl Delay			13.2		FIFT PART							
HCM 6th LOS			В									

Intersection											e a		
Int Delay, s/veh	6.7												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations													
Traffic Vol, veh/h	30	36	45	14	76	8	62	130	12	4	194	42	
Future Vol, veh/h	30	36	45	14	76	8	62	130	12	4	194	42	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
RT Channelized			None	-		None		-	None	-	-	None	
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-	
Veh in Median Storage	e,# -	0	-	-	0	-	-	0	-	-	0		
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	87	87	87	68	68	68	94	94	94	97	97	97	
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2	
Mvmt Flow	34	41	52	21	112	12	66	138	13	4	200	43	
Major/Minor I	Minor2			Minor1			Major1			Major2			
Conflicting Flow All	569	513	222	553	528	145	243	0	0	151	0	0	
Stage 1	230	230	-	277	277	170	240	-	-	-	-	-	
Stage 2	339	283	_	276	251	_	_	_	_	_	_	-	
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	_	_	4.12	-		
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	_	-	_	_	-	
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	_		_	-	-		
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-		
Pot Cap-1 Maneuver	433	465	818	444	456	902	1323	_	_	1430	-	_	
Stage 1	773	714	-	729	681	-	-	-	-	_	-	-	
Stage 2	676	677		730	699	-		-		-	-	-	
Platoon blocked, %		Deli Del Controlle Sant Antico	ALCO MANAGEMENT OF THE	ACCUSED AND ACCUSE			COLUMN POLICY CO.	-	-		-	-	THE CONTRACT OF THE CONTRACT O
Mov Cap-1 Maneuver	327	438	818	369	430	902	1323			1430	-	-	
Mov Cap-2 Maneuver	327	438	-	369	430	-	-	-	-	-	-	-	
Stage 1	730	712	-	689	644	-		-			-	-	
Stage 2	521	640	-	642	697	-	-	-	-	-	-	-	
Approach	EB			WB			NB			SB			
HCM Control Delay, s	15.1			17.2			2.4			0.1			
HCM LOS	С			С				Not received by each		rya dag sinerinda katalanan d	NOTICE BELLEVILLE SERVICE AND ASSESSED.		
Minor Lane/Major Mvm	nt	NBL	NBT	NBR	EBLn1V		SBL	SBT	SBR				
Capacity (veh/h)		1323	-	<del>-</del>	485	438	1430	-	-				
HCM Lane V/C Ratio		0.05	-	-	0.263	NAME OF TAXABLE PARTY.	THE ADDRESS OF THE AD	_	-	THE REAL PROPERTY.	1053-071-071-071-071-071-071-071-071-071-071		
HCM Control Delay (s)		7.9	0	-	15.1	17.2	7.5	0					
HCM Lane LOS	NO. OF THE PARTY OF	Α	Α	_	С	С	Α	Α	_			THE REAL PROPERTY AND ADDRESS OF THE PERSON NAMED AND ADDRESS OF THE PERSON NAMED AND ADDRESS OF THE PERSON NA	
HCM 95th %tile Q(veh	)	0.2	-	-	1	1.4	0	-	-				

2023 Background Analysis

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations				ATHERAS IN ATTEMPS 20							on the second	
Traffic Volume (veh/h)	26	6	77	37	7	19	17	560	8	9	786	16
Future Volume (veh/h)	26	6	77	37	7	19	17	560	8	9	786	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	29	7	86	41	8	21	19	622	9	10	864	18
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.91	0.91	0.91
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	47	135	115	57	36	93	35	2596	38	21	2548	53
Arrive On Green	0.03	0.07	0.07	0.03	0.08	0.08	0.02	0.72	0.72	0.01	0.72	0.72
Sat Flow, veh/h	1781	1870	1585	1781	456	1198	1781	3586	52	1781	3560	74
Grp Volume(v), veh/h	29	7	86	41	0	29	19	308	323	10	431	451
Grp Sat Flow(s), veh/h/ln	1781	1870	1585	1781	0	1655	1781	1777	1861	1781	1777	1857
Q Serve(g_s), s	1.8	0.4	6.0	2.6	0.0	1.9	1.2	6.5	6.5	0.6	10.3	10.3
Cycle Q Clear(g_c), s	1.8	0.4	6.0	2.6	0.0	1.9	1.2	6.5	6.5	0.6	10.3	10.3
Prop In Lane	1.00		1.00	1.00		0.72	1.00		0.03	1.00		0.04
Lane Grp Cap(c), veh/h	47	135	115	57	0	129	35	1286	1347	21	1272	1329
V/C Ratio(X)	0.61	0.05	0.75	0.72	0.00	0.22	0.54	0.24	0.24	0.47	0.34	0.34
Avail Cap(c_a), veh/h	198	440	373	245	0	434	166	1286	1347	134	1272	1329
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	54.2	48.6	51.2	54.0	0.0	48.7	54.7	5.2	5.2	55.3	6.0	6.0
Incr Delay (d2), s/veh	12.3	0.2	9.4	15.4	0.0	0.9	12.0	0.4	0.4	15.3	0.7	0.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	1.7	0.3	4.8	2.5	0.0	1.4	1.1	3.7	3.9	0.7	5.9	6.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	66.5	48.8	60.6	69.4	0.0	49.6	66.7	5.6	5.6	70.6	6.7	6.7
LnGrp LOS	Е	D	E	E	A	D	Е	Α	Α	E	Α	A
Approach Vol, veh/h		122			70			650			892	
Approach Delay, s/veh		61.4			61.2			7.4			7.4	
Approach LOS		E			E			Α			Α	
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	5.8	86.0	8.1	12.6	6.7	85.1	7.5	13.3				
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5				
Max Green Setting (Gmax), s	8.5	81.5	15.5	26.5	10.5	79.5	12.5	29.5				
Max Q Clear Time (g_c+l1), s	2.6	8.5	4.6	8.0	3.2	12.3	3.8	3.9				
Green Ext Time (p_c), s	0.0	3.8	0.0	0.2	0.0	5.9	0.0	0.1				
Intersection Summary												
HCM 6th Ctrl Delay			13.4									
HCM 6th LOS			В									

Int Delay, s/veh   5   SBR   SBR	COLUMN TAXABLE SERVICE	_												
Lane Configurations         Traffic Vol, veh/h       31       73       48       13       14       4       17       159       12       4       109       21         Future Vol, veh/h       31       73       48       13       14       4       17       159       12       4       109       21         Conflicting Peds, #/hr       0	Int Delay, s/veh	5						PARTIES AND ADDRESS OF THE PARTIES						
Traffic Vol, veh/h 31 73 48 13 14 4 17 159 12 4 109 21 Future Vol, veh/h 31 73 48 13 14 4 17 159 12 4 109 21 Conflicting Peds, #/hr 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 Sign Control Stop Stop Stop Stop Stop Stop Free Free Free Free Free Free Free Fre	Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Traffic Vol, veh/h         31         73         48         13         14         4         17         159         12         4         109         21           Future Vol, veh/h         31         73         48         13         14         4         17         159         12         4         109         21           Conflicting Peds, #/hr         0         -         -         0	Lane Configurations													
Conflicting Peds, #/hr         0		31	73	48	13	14	4	17	159	12	4	109	21	
Sign Control         Stop         Stop         Stop         Stop         Stop         Stop         Free	Future Vol, veh/h	31	73	48	13	14	4	17	159	12	4	109	21	
Sign Control         Stop         Stop         Stop         Stop         Stop         Stop         Free		0	0	0	0	0	0	0	THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER.		0		0	
RT Channelized None None None None Storage Length		Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
Storage Length								A STATE OF THE PARTY OF THE PAR	CONTRACTOR CONTRACTOR		ENGINEERING SER			
Veh in Median Storage, # - 0 0 0 0 0 -         Grade, % - 0 0 0 0 0 0 -         Peak Hour Factor       90 90 90 90 90 90 90 90 90 94 94 94         Heavy Vehicles, % 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		-	-	-	-	-	-	-	-	-	-	-	-	
Peak Hour Factor       90       90       90       90       90       90       90       90       94       94       94         Heavy Vehicles, %       2       2       2       2       2       2       2       2       2       2       2		,# -	0	-	-	0	-		0			0		
Heavy Vehicles, % 2 2 2 2 2 2 2 2 2 2 2	Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Heavy Vehicles, % 2 2 2 2 2 2 2 2 2 2 2	Peak Hour Factor	90	90	90	90	90	90	90	90	90	94	94	94	
	Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2		
10 10 W 01 00 14 10 4 17 17 10 4 110 ZZ	Mvmt Flow	34	81	53	14	16	4	19	177	13	4	116	22	
				provide a construction of the								and the second of the		
Major/Minor Minor2 Minor1 Major1 Major2	Major/Minor N	Minor2			Minor1		1	Major1		N	/lajor2			
Conflicting Flow All 367 363 127 424 368 184 138 0 0 190 0 0	Conflicting Flow All	367	363	127	424	368	184	138	0	0	190	0	0	
Stage 1 135 135 - 222 222	Stage 1	135	135		222	222	_	-	-	-	-	-	-	
Stage 2 232 228 - 202 146	Stage 2	232	228	-	202	146	-	-	-	-	-	-	-	
Critical Hdwy 7.12 6.52 6.22 7.12 6.52 6.22 4.12 4.12	Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12		-	4.12			
Critical Hdwy Stg 1 6.12 5.52 - 6.12 5.52		6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-	
Critical Hdwy Stg 2 6.12 5.52 - 6.12 5.52	Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-		-		-	-	
Follow-up Hdwy 3.518 4.018 3.318 3.518 4.018 3.318 2.218 2.218	Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-	
Pot Cap-1 Maneuver 589 565 923 540 561 858 1446 1384	Pot Cap-1 Maneuver	589	565	923	540	561	858	1446	-	•	1384	-		
Stage 1 868 785 - 780 720	Stage 1	868	785	-	780	720	-	-	-	-	-	-	-	
Stage 2 771 715 - 800 776	Stage 2	771	715		800	776			-	-	-	-	-	
Platoon blocked, %	Platoon blocked, %								-	-		-	-	
Mov Cap-1 Maneuver 565 555 923 446 551 858 1446 1384	Mov Cap-1 Maneuver	565	555	923	446	551	858	1446	-	-	1384	-	-	
Mov Cap-2 Maneuver 565 555 - 446 551	Mov Cap-2 Maneuver	565	555	-	446	551	-	-	-	-	-	-	-	
Stage 1 855 783 - 768 709	Stage 1	855	783	·	768	709	-	-			-		-	
Stage 2 739 704 - 674 774	Stage 2	739	704	-	674	774	-	-	-	-	-	-	-	
Approach EB WB NB SB	Approach	EB			WB			NB			SB			
HCM Control Delay, s 12.7 12.4 0.7 0.2	HCM Control Delay, s	12.7			12.4			0.7			0.2			
HCM LOS B B	HCM LOS	В			В									
Minor Lane/Major Mvmt NBL NBT NBR EBLn1WBLn1 SBL SBT SBR	Minor Lane/Major Mvm	t	NBL	NBT	NBR E	EBLn1V	VBLn1	SBL	SBT	SBR				
Capacity (veh/h) 1446 638 523 1384			1446	-	-				-					
HCM Lane V/C Ratio 0.013 0.265 0.066 0.003	HCM Lane V/C Ratio			-	-			0.003	-	-				
HCM Control Delay (s) 7.5 0 - 12.7 12.4 7.6 0 -	HCM Control Delay (s)		7.5	0		12.7	12.4	7.6	0					
HCM Lane LOS A A - B B A A -			Α	Α	-			Α	Α	-				
HCM 95th %tile Q(veh) 0 1.1 0.2 0	HCM 95th %tile Q(veh)		0	-	-	1.1	0.2	0	-	-				

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations							1,02	1101	11011	001	00,	ODI
Traffic Volume (veh/h)	25	4	51	29	3	3	100	1057	45	6	867	17
Future Volume (veh/h)	25	4	51	29	3	3	100	1057	45	6	867	17
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00	DATE OF THE STREET, ST	1.00	1.00	Anna de la composito de la comp	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	28	4	57	32	3	3	111	1174	50	6	913	18
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	45	95	81	49	45	45	139	2653	113	13	2473	49
Arrive On Green	0.03	0.05	0.05	0.03	0.05	0.05	0.08	0.76	0.76	0.01	0.69	0.69
Sat Flow, veh/h	1781	1870	1585	1781	858	858	1781	3473	148	1781	3564	70
Grp Volume(v), veh/h	28	4	57	32	0	6	111	600	624	6	455	476
Grp Sat Flow(s), veh/h/ln	1781	1870	1585	1781	0	1716	1781	1777	1844	1781	1777	1858
Q Serve(g_s), s	1.9	0.2	4.2	2.1	0.0	0.4	7.3	14.4	14.4	0.4	12.6	12.6
Cycle Q Clear(g_c), s	1.9	0.2	4.2	2.1	0.0	0.4	7.3	14.4	14.4	0.4	12.6	12.6
Prop In Lane	1.00		1.00	1.00	MATERIAL PROPERTY OF THE PARTY	0.50	1.00		0.08	1.00		0.04
Lane Grp Cap(c), veh/h	45	95	81	49	0	91	139	1357	1409	13	1233	1289
V/C Ratio(X)	0.62	0.04	0.71	0.66	0.00	0.07	0.80	0.44	0.44	0.45	0.37	0.37
Avail Cap(c_a), veh/h	156	351	298	156	0	322	379	1357	1409	112	1233	1289
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	57.8	54.1	56.0	57.7	0.0	53.9	54.3	5.0	5.0	59.2	7.5	7.5
Incr Delay (d2), s/veh	13.1	0.2	10.8	14.0	0.0	0.3	10.2	1.0	1.0	21.4	0.9	0.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	1.8	0.2	3.5	2.1	0.0	0.3	6.5	7.7	7.9	0.5	7.8	8.0
Unsig. Movement Delay, s/veh		540	00.0	747	0.0	540	04.5	0.4	0.4	00.0	0.4	0.4
LnGrp Delay(d),s/veh	70.9	54.2	66.8	71.7	0.0	54.2	64.5	6.1	6.1	80.6	8.4	8.4
LnGrp LOS	Е	D	E	Е	А	D	E	А	Α	F	А	A
Approach Vol, veh/h		89			38			1335			937	
Approach Delay, s/veh		67.5			68.9			10.9			8.8	
Approach LOS		Е			E			В			Α	
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	5.4	96.0	7.8	10.6	13.8	87.6	7.5	10.8				
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5			CONTRACTOR OF THE PARTY OF THE	
Max Green Setting (Gmax), s	7.5	91.5	10.5	22.5	25.5	73.5	10.5	22.5				
Max Q Clear Time (g_c+l1), s	2.4	16.4	4.1	6.2	9.3	14.6	3.9	2.4				
Green Ext Time (p_c), s	0.0	9.9	0.0	0.1	0.2	6.3	0.0	0.0				
Intersection Summary												
HCM 6th Ctrl Delay			13.1									
HCM 6th LOS			В									

Intersection				176	\$7.5%±								
Int Delay, s/veh	6.2								to the contract of the contract of				
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations													
Traffic Vol, veh/h	32	39	48	15	81	9	66	138	13	5	206	45	
Future Vol, veh/h	32	39	48	15	81	9	66	138	13	5	206	45	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
RT Channelized			None			None		-	None	-	-	None	
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-	
Veh in Median Storage	e,# -	0			0		-	0	•	-	0		
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	90	90	90	90	90	90	94	94	94	97	97	97	
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2	
Mvmt Flow	36	43	53	17	90	10	70	147	14	5	212	46	
Major/Minor	Minor2			Minor1			Major1		1	Major2			
Conflicting Flow All	589	546	235	587	562	154	258	0	0	161	0	0	
Stage 1	245	245	-	294	294	_	-						
Stage 2	344	301	_	293	268	-	-	-	-	_	-	_	
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-	
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-	
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-		-	
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-	
Pot Cap-1 Maneuver	420	445	804	421	436	892	1307		•	1418			
Stage 1	759	703	-	714	670	-	-	-	-	-	-	-	
Stage 2	671	665		715	687	-	-	-			-		
Platoon blocked, %								-	-		-	-	
Mov Cap-1 Maneuver	329	417	804	345	409	892	1307			1418	-	-	
Mov Cap-2 Maneuver	329	417	-	345	409	-	-	-	-	-	-	-	
Stage 1	714	700	-	672	630		-		-	-	-	•	
Stage 2	535	626	-	624	684	-	-	-	-	-	-	-	
Approach	EB			WB			NB			SB			
HCM Control Delay, s	15.5			17			2.4			0.1			
HCM LOS	С			С									
Minor Lane/Major Mvm	nt	NBL	NBT	NBR	EBLn1V	VRI n1	SBL	SBT	SBR				
Capacity (veh/h)		1307	-	HUITI	475	417	1418	-	JDIX -				
HCM Lane V/C Ratio		0.054	Charles the same	-	0.278		0.004	AND DESCRIPTIONS					
HCM Control Delay (s)		7.9	0	-	15.5	17	7.5	0	-				
HCM Lane LOS		7.9 A	A	-	C	C	7.5 A	A	-				
HCM 95th %tile Q(veh)	)	0.2	- -		1.1	1.1	0	-	-				
HOW SOUL TOURS W(VEI)	1	0.2			1.1	, la	U						

2023 Background Plus Project Analysis

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		LUI	LDIX	1100	1151	TTDIX.	NDL	1101	11011	001		0011
Traffic Volume (veh/h)	37	4	73	29	3	3	147	1057	45	11	876	17
Future Volume (veh/h)	37	4	73	29	3	3	147	1057	45	11	876	17
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No	Sales and the second particle	SERVICE STATE OF THE SERVICE S	No	Management of the Control of the Con
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	41	4	81	32	3	3	163	1174	50	12	922	18
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	55	126	106	48	54	54	193	2589	110	24	2321	45
Arrive On Green	0.03	0.07	0.07	0.03	0.06	0.06	0.11	0.75	0.75	0.01	0.65	0.65
Sat Flow, veh/h	1781	1870	1585	1781	858	858	1781	3473	148	1781	3565	70
Grp Volume(v), veh/h	41	4	81	32	0	6	163	600	624	12	460	480
Grp Sat Flow(s), veh/h/ln	1781	1870	1585	1781	0	1716	1781	1777	1844	1781	1777	1858
Q Serve(g_s), s	2.8	0.2	6.2	2.2	0.0	0.4	11.0	15.9	16.0	0.8	14.9	14.9
Cycle Q Clear(g_c), s	2.8	0.2	6.2	2.2	0.0	0.4	11.0	15.9	16.0	0.8	14.9	14.9
Prop In Lane	1.00		1.00	1.00		0.50	1.00		0.08	1.00		0.04
Lane Grp Cap(c), veh/h	55	126	106	48	0	109	193	1325	1374	24	1157	1209
V/C Ratio(X)	0.75	0.03	0.76	0.66	0.00	0.06	0.85	0.45	0.45	0.49	0.40	0.40
Avail Cap(c_a), veh/h	152	343	291	152	0	315	370	1325	1374	109	1157	1209
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	59.0	53.5	56.3	59.2	0.0	54.0	53.7	6.0	6.0	60.1	10.1	10.1
Incr Delay (d2), s/veh	18.4	0.1	10.6	14.5	0.0	0.2	9.7	1.1	1.1	14.6	1.0	1.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	2.8	0.2	5.0	2.1	0.0	0.3	9.1	8.7	9.0	0.8	9.3	9.7
Unsig. Movement Delay, s/veh						-10				_,_		114
LnGrp Delay(d),s/veh	77.4	53.6	66.9	73.7	0.0	54.2	63.4	7.1	7.1	74.7	11.1	11.1
LnGrp LOS	E	D	Е	Е	Α	D	Е	Α	Α	Е	В	В
Approach Vol, veh/h		126			38			1387			952	
Approach Delay, s/veh		69.9	nen gen ennen		70.6			13.7	MATERIAL STREET ARTS		11.9	70.00
Approach LOS		Е			Е			В			В	
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	6.2	96.0	7.8	12.7	17.8	84.4	8.3	12.3				
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5				
Max Green Setting (Gmax), s	7.5	91.5	10.5	22.5	25.5	73.5	10.5	22.5				
Max Q Clear Time (g_c+l1), s	2.8	18.0	4.2	8.2	13.0	16.9	4.8	2.4				
Green Ext Time (p_c), s	0.0	9.9	0.0	0.2	0.3	6.4	0.0	0.0				
Intersection Summary												
HCM 6th Ctrl Delay			16.7									
HCM 6th LOS			В									

Intersection																
Int Delay, s/veh	6.7		en de comince has accepta	ena sutti conte il susceni e cale tradici		NO SAFAKARING AND			THE REAL PROPERTY OF THE SECOND	PARTIE NO PROPERTY AND ADDRESS.			PRANTICULES PRINTE E ENCORCE			
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR				
Lane Configurations																
Traffic Vol, veh/h	32	48	48	18	87	9	66	138	18	5	206	45				
Future Vol, veh/h	32	48	48	18	87	9	66	138	18	5	206	45				
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0				
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free				
RT Channelized		-	None	-	-	None			None	-	-	None				
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-				
Veh in Median Storage	e,# -	0	-	-	0	-	-	0	-		0					
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-				
Peak Hour Factor	90	90	90	90	90	90	94	94	94	97	97	97				
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2				
Mvmt Flow	36	53	53	20	97	10	70	147	19	5	212	46				
Major/Minor	Minor2			Minor1			Major1		1	Major2						
Conflicting Flow All	595	551	235	595	565	157	258	0	0	166	0	0				
Stage 1	245	245	-	297	297	-	-	-		-	-					
Stage 2	350	306	-	298	268	-	-	-	-	-	-	-				
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-					
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-				
Critical Hdwy Stg 2	6.12	5.52		6.12	5.52	-	-	-	-	-		-				
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-				
Pot Cap-1 Maneuver	416	442	804	416	434	889	1307	-		1412	•	-				
Stage 1	759	703	-	712	668	-	-	-	-	-	-	-				
Stage 2	666	662		711	687		-	-	-	-	-	-				
Platoon blocked, %			CO ATTOCK NAMED IN	_	NOTE WERE PROPERTY.	AND DESCRIPTION OF THE PARTY OF		-	_	retoorommeet vo	-	-	and the second s	NAME AND ADDRESS OF THE PARTY O	n man district major an	
Mov Cap-1 Maneuver	321	414	804	334	407	889	1307	-	-	1412	-	-				
Mov Cap-2 Maneuver	321	414	-	334	407	-	_	-		_	_	_			CHCS V. ITTO DOG INC.	
Stage 1	714	700		670	629	•	-	-	-	-	-	-				
Stage 2	524	623	_	611	684	_	_	_	-	-	-	_	entre constitution	STOLEN CONTRACTO		ALTERNATION OF
Approach	EB			WB			NB			SB						
HCM Control Delay, s	16.1			17.7			2.4			0.1						
HCM LOS	С		Service and the service of the servi	С							04000000000000000000000000000000000000					
Minor Lane/Major Mvm	nt	NBL	NBT	NBR	EBLn1V	VBLn1	SBL	SBT	SBR							
Capacity (veh/h)		1307	-	_	465	410	1412		-		AL S					
HCM Lane V/C Ratio	THE RESERVE OF THE PARTY OF THE	0.054	-	-	0.306			-	-							
HCM Control Delay (s)		7.9	0	-	16.1	17.7	7.6	0	-							
HCM Lane LOS		Α	Α	-	С	С	Α	Α	-							
HCM 95th %tile Q(veh	)	0.2	-	-	1.3	1.3	0	-	-							

Intersection								
Int Delay, s/veh	0.1		AND DESCRIPTION OF THE PARTY OF					
Movement	EBL	EBR	NBL	NBT	SBT	SBR		
Lane Configurations								
Traffic Vol, veh/h	0	13	0	1085	890	26		
Future Vol, veh/h	0	13	0	1085	890	26		
Conflicting Peds, #/hr	0	0	0	0	0	0		
Sign Control	Stop	Stop	Free	Free	Free	Free		
RT Channelized	Otop	None	-	THE RESERVE OF THE PERSON NAMED IN	-	None		
Storage Length	_	0	150	-	_	-		
Veh in Median Storage		-	-	0	0			
Grade, %	0	<u>-</u>	_	0	0	<u>.</u>		
Peak Hour Factor	90	90	90	90	90	90		
Heavy Vehicles, %	2	2	2	2	2	2		
Mymt Flow	0	14	0	1206	989	29		
WINTER TOWN	U	17	J	1200	000	LU		
	armentane	Terretain and the			March Company	1969/99/2014		
Control of the Contro	linor2	THE RESERVE THE PARTY NAMED IN	//ajor1		/lajor2		2.1000000000000000000000000000000000000	
Conflicting Flow All	_	509	1018	0	_	0		NAC AND ADDRESS OF THE PARTY OF
Stage 1	-		1.1.	-	-	-		
Stage 2	-	-	-	_	-	-		
Critical Hdwy	A SPICE	6.94	4.14	-	-	-		
Critical Hdwy Stg 1	-	-	-	_	_	_		
Critical Hdwy Stg 2		-		-	-	-		
Follow-up Hdwy	-	3.32	2.22	_	_	_		10.10.10.10.10.10.10.10.10.10.10.10.10.1
Pot Cap-1 Maneuver	0	509	677	-	-	-		A construction
Stage 1	0	-	_	_	_	-		
Stage 2	0	-	-	-	-			
Platoon blocked, %				-	-	_		
Mov Cap-1 Maneuver	-	509	677	-	-			
Mov Cap-2 Maneuver	-	-	-	-	-	-		
Stage 1	-	-	-	-	-	-		
Stage 2	_	-	-	-	-	-		
Approach	EB		NB		SB			
HCM Control Delay, s	12.3		0		0			
HCM LOS	В							
Minor Lane/Major Mvmt		NBL	NBT	EBLn1	SBT	SBR		
Capacity (veh/h)		677		509				
HCM Lane V/C Ratio		-		0.028	-	-		
HCM Control Delay (s)		0	-	100	_	-		
HCM Lane LOS	STORE OF THE STORE	A	-	В	-	-		
HCM 95th %tile Q(veh)		0	-	STREET,	-			
	NAME OF STREET		NAME OF TAXABLE					

Intersection									
Int Delay, s/veh	1.9				No. of Concession, Name of Street, or other Designation of Concession, Name of Street, or other Designation of Concession, Name of Street, Original Origina Original Origina O				
Movement	EBL	EBT	WBT	WBR	SBL	SBR			
Lane Configurations		-						***************************************	
Traffic Vol, veh/h	13	57	120	47	34	9			
Future Vol, veh/h	13	57	120	47	34	9			
Conflicting Peds, #/hr	0	0	0	0	0	0			
Sign Control	Free	Free	Free	Free	Stop	Stop			
RT Channelized	-	None		None		None			
Storage Length	-	-	-	-	0	0			
Veh in Median Storage	e,# -	0	0	-	0	-			
Grade, %	-	0	0	-	0	-			
Peak Hour Factor	90	90	90	90	90	90			
Heavy Vehicles, %	2	2	2	2	2	2			
Mvmt Flow	14	63	133	52	38	10			
Major/Minor	Major1	I	Major2	N	/linor2				
Conflicting Flow All	185	0	-	0	250	159			
Stage 1		-	-	-	159	-			
Stage 2	-	-	-	-	91	-			
Critical Hdwy	4.12	-	-		6.42	6.22			
Critical Hdwy Stg 1	-	-	-	-	5.42	-			
Critical Hdwy Stg 2	-		•		5.42				
Follow-up Hdwy	2.218	-	-	-	3.518				
Pot Cap-1 Maneuver	1390	-		-	739	886			
Stage 1	-	_	-	-	870	-			
Stage 2	-	-	-	-	933				
Platoon blocked, %		-	_	-	Simple Service Co.		AND STREET		790.007.000.000
Mov Cap-1 Maneuver	1390	-	-	-	732	886			
Mov Cap-2 Maneuver	_	_	-	-	732	_			
Stage 1	-	-	-	•	861	-			
Stage 2	_	-	_		933	-	THE RESIDENCE AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO IN COLUMN TW		
Approach	EB		WB		SB				
HCM Control Delay, s	1.4		0		10				
HCM LOS					В				
Minor Lane/Major Mvm	nt	EBL	EBT	WBT	WBR 9	SBLn1	SBLn2		
Capacity (veh/h)		1390		-	-	732	886		
HCM Lane V/C Ratio		0.01	_	_		0.052			
HCM Control Delay (s)		7.6	0	_	-	10.2	9.1		
HCM Lane LOS	ALMAN TO THE	Α	A	_	-	В	A		
HCM 95th %tile Q(veh)		0		-	_	0.2	0		
(100)							-	Control Control	

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	45	6	111	37	7	19	34	560	8	16	799	16
Future Volume (veh/h)	45	6	111	37	7	19	34	560	8	16	799	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	50	7	123	41	8	21	38	622	9	18	878	18
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.91	0.91	0.91
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	65	179	152	56	42	109	54	2508	36	34	2449	50
Arrive On Green	0.04	0.10	0.10	0.03	0.09	0.09	0.03	0.70	0.70	0.02	0.69	0.69
Sat Flow, veh/h	1781	1870	1585	1781	456	1198	1781	3586	52	1781	3561	73
Grp Volume(v), veh/h	50	7	123	41	0	29	38	308	323	18	438	458
Grp Sat Flow(s), veh/h/ln	1781	1870	1585	1781	0	1655	1781	1777	1861	1781	1777	1857
Q Serve(g_s), s	3.2	0.4	8.9	2.7	0.0	1.9	2.5	7.4	7.4	1.2	11.9	11.9
Cycle Q Clear(g_c), s	3.2	0.4	8.9	2.7	0.0	1.9	2.5	7.4	7.4	1.2	11.9	11.9
Prop In Lane	1.00		1.00	1.00		0.72	1.00		0.03	1.00		0.04
Lane Grp Cap(c), veh/h	65	179	152	56	0	151	54	1243	1301	34	1222	1278
V/C Ratio(X)	0.77	0.04	0.81	0.73	0.00	0.19	0.70	0.25	0.25	0.53	0.36	0.36
Avail Cap(c_a), veh/h	191	425	360	237	0	419	160	1243	1301	130	1222	1278
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	55.7	47.8	51.7	55.9	0.0	49.0	56.0	6.4	6.4	56.7	7.5	7.5
Incr Delay (d2), s/veh	17.4	0.1	9.8	16.5	0.0	0.6	15.2	0.5	0.5	12.4	0.8	0.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	3.2	0.3	7.0	2.6	0.0	1.4	2.4	4.4	4.6	1.1	7.3	7.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	73.1	47.9	61.4	72.4	0.0	49.6	71.2	6.9	6.8	69.1	8.4	8.3
LnGrp LOS	Е	D	E	Е	Α	D	Е	Α	Α	E	Α	A
Approach Vol, veh/h		180			70			669			914	
Approach Delay, s/veh		64.2			63.0			10.5			9.5	
Approach LOS		E			Е			В			Α	
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	6.7	86.0	8.2	15.7	8.0	84.7	8.7	15.1				
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5				
Max Green Setting (Gmax), s	8.5	81.5	15.5	26.5	10.5	79.5	12.5	29.5				
Max Q Clear Time (g_c+l1), s	3.2	9.4	4.7	10.9	4.5	13.9	5.2	3.9				
Green Ext Time (p_c), s	0.0	3.8	0.0	0.3	0.0	6.0	0.0	0.1				
Intersection Summary												
HCM 6th Ctrl Delay			17.3									
HCM 6th LOS			В									

Intersection													
Int Delay, s/veh	5.3												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations													
Traffic Vol, veh/h	31	76	48	18	23	4	17	159	14	4	109	21	
Future Vol, veh/h	31	76	48	18	23	4	17	159	14	4	109	21	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
RT Channelized	-		None	-	-	None			None	-	-	None	
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-	
Veh in Median Storage	e,# -	0	-		0	-	-	0			0		
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	90	90	90	90	90	90	90	90	90	94	94	94	
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2	
Mvmt Flow	34	84	53	20	26	4	19	177	16	4	116	22	
Major/Minor	Minor2			Minor1			Major1		N	Major2			
Conflicting Flow All	373	366	127	427	369	185	138	0	0	193	0	0	
Stage 1	135	135		223	223								
Stage 2	238	231	-	204	146	-	_	_		_	_	_	
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	_	4.12	-		
Critical Hdwy Stg 1	6.12	5.52	_	6.12	5.52	-	-	-	-	-	_	-	
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-	
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-	
Pot Cap-1 Maneuver	584	562	923	538	560	857	1446	-	-	1380	-		
Stage 1	868	785	-	780	719	-	-	-	-	-	-	-	
Stage 2	765	713	-	798	776	-	-	-	-				
Platoon blocked, %								-	-		-	-	
Mov Cap-1 Maneuver	552	552	923	442	550	857	1446	-	-	1380	-	-	
Mov Cap-2 Maneuver	552	552	-	442	550	-	-	-	-	-	-	-	
Stage 1	855	783	-	768	708	-		-	-	-		-	
Stage 2	723	702	-	669	774	-	-	-	-	-	-	-	
													The second second
Approach	EB			WB			NB			SB			
HCM Control Delay, s	12.9			12.7			0.7			0.2			
HCM LOS	В			В				ATTENDED TO SECOND					
Minor Lane/Major Mvn	nt	NBL	NBT	NBR	EBLn1V	VBLn1	SBL	SBT	SBR				
Capacity (veh/h)		1446			630	516	1380						
HCM Lane V/C Ratio		0.013	-	-	0.273	0.097	0.003	-	-				
HCM Control Delay (s)		7.5	0	-	12.9	12.7	7.6	0	-				
HCM Lane LOS		Α	Α	-	В	В	Α	Α	_				
HCM 95th %tile Q(veh	ALACONOMICS PRACTICAL	0			1.1	0.3	0	_	ACTION PROPERTY.	HAND SHOULD SHOW	NAME AND POST OFFICE ADDRESS OF THE PARTY OF	STATEMENT STREET, SECTION AND ADDRESS OF THE PARTY OF THE	

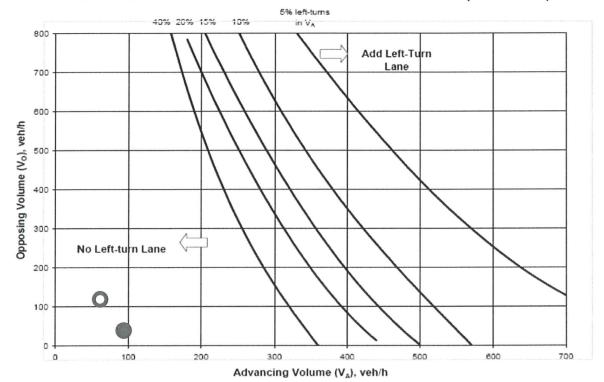
Intersection						
Int Delay, s/veh	0.2					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	LDL	LDI	NDL	INDI	ופט	ODIT
Traffic Vol, veh/h	0	20	0	605	811	9
Future Vol, veh/h	0	20	0	605	811	9
Conflicting Peds, #/hr	0	0	0	003	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	Olop	None		None	-	None
Storage Length	-	0	150	-	_	-
Veh in Median Storage,		-	100	0	0	
Grade, %	0	-	-	0	0	-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	0	22	0	672	901	10
IVIVIIILIIOW	U	LL	U	012	301	10
CONTRACTOR OF THE PERSON NAMED IN COLUMN 2	linor2		Major1		Najor2	
Conflicting Flow All	-	456	911	0	-	0
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.94	4.14	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-		-	-	-	7
Follow-up Hdwy	-	3.32	2.22	-	-	-
Pot Cap-1 Maneuver	0	551	743	-	-	-
Stage 1	0	-	-	-	-	-
Stage 2	0	-	-	-	-	-
Platoon blocked, %			AND RESTREET OF THE PARTY OF	-	_	-
Mov Cap-1 Maneuver	-	551	743	_	_	•
Mov Cap-2 Maneuver	-	-	-	-	-	_
Stage 1	_	_	_	_		-
Stage 2	-	<u>-</u>	_	-	-	
Olago Z						
					6-	
Approach	EB		NB		SB	
HCM Control Delay, s	11.8		0		0	
HCM LOS	В					
Minor Lane/Major Mvmt		NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)		743	-	551	-	-
HCM Lane V/C Ratio		-	-	0.04	-	_
HCM Control Delay (s)		0	-	11.8	-	
HCM Lane LOS		A	-	В	-	-
HCM 95th %tile Q(veh)		0		0.1		-
HOW BOTH TOTHE CALVELL)		U		0.1		

Intersection						
Int Delay, s/veh	3.1	THE RESERVE OF THE PARTY OF THE		The second second second	THE RESERVE OF THE PARTY OF	
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	LUL	LDI	VVDI	VVDIC	ODL	ODIT
Traffic Vol, veh/h	5	89	40	17	53	13
Future Vol, veh/h	5	89	40	17	53	13
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized		EUSES EVERTORES EN		None		None
Storage Length	-	-	_	-	0	0
Veh in Median Storage	e,# -	0	0		0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	6	99	44	19	59	14
8121 2 131 2 131 2 131 2 131 3 131 3 131 3 131 3 131 3 131 3 131 3 131 3 131 3 131 3 131 3 131 3 131 3 131 3 1						
Major/Minor	Major1	٨	Major2		Minor2	
CONTRACTOR DE LA CONTRA	63	0			165	54
Conflicting Flow All Stage 1	03	U	-	0	54	54
Stage 2	-	-	-	_	111	
Critical Hdwy	4.12	_	-	-	6.42	6.22
Critical Hdwy Stg 1	4.12			_	5.42	0.22
Critical Hdwy Stg 2	-	<u>-</u>			5.42	
Follow-up Hdwy	2.218	-	_		3.518	
Pot Cap-1 Maneuver	1540			-	826	1013
Stage 1	1040	-	_	_	969	1013
Stage 2	<u>-</u>	-		-	914	
Platoon blocked, %	-		_	-	314	•
Mov Cap-1 Maneuver	1540		-	-	823	1013
Mov Cap-1 Maneuver	1040	-	_	_	823	- 1013
Stage 1	-			-	965	
Stage 2					914	-
Staye 2	-	-			314	
Approach	EB		WB		SB	
HCM Control Delay, s	0.4		0		9.5	
HCM LOS					Α	
Minor Lane/Major Mvm	nt	EBL	EBT	WBT	WBR S	SBLn1
Capacity (veh/h)		1540	-		-	823
HCM Lane V/C Ratio		0.004	-	_	Messelm sed	0.072
HCM Control Delay (s)		7.3	0	-	-	9.7
HCM Lane LOS		Α	A	-	_	Α
HCM 95th %tile Q(veh	)	0		-	-	0.2
110117 0011 70110 0(1011				theme the party A		

# APPENDIX F LEFT-TURN LANE WARRANT FIGURES

# Left-Turn Lane Analysis - Two-Lane Roadway ≤ 40 mphLeft TurnsAM(PM)Major Road:Homedale RoadExisting 0(0)%Minor Road:Access Drive BBackground 0(0)%Direction:EastboundPlus Project 6(23)%

Figure 1 - Left-Turn Lane Guidelines for Two-Lane Roads less than or equal to 40 mph



		AM	PM
Result	2021 Existing		0
Not Warranted	2023 Background		0
1 tot Warrantoa	2023 Plus Project		0
Needed Data:			0
Opposing Volume (veh/hr) - VO - The opposing volume is to include only the right-turn and through movements in the opposite direction of the left turning vehicle.			
Advancing Volume (veh/hr) - VA - The advancing volume is to include the right-turn, left-turn and through movements in the same direction as the left turning vehicle.			

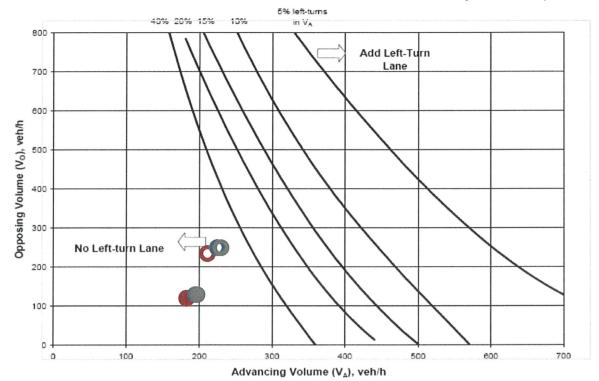
- 3. Operating Speed (mph) The greatest of anticipated operating speed, measured 85th percentile speed or posted speed.
- 4. Percentage of left turns in VA

Left- turn lane is not needed for left turn volume less than 10 vph. However, criteria other than volume, such as crash experience, may be used to justify a left-turn lane.

The appropriate trend line is identified on the basis of the percentage of left-turns in the advancing volume, rounded up to the nearest percentage trend line. If the advancing and opposing volume combination intersects above or to the right of this trend line, a left-turn lane is appropriate.

# Left-Turn Lane Analysis - Two-Lane Roadway ≤ 40 mphLeft Turns AM(PM)Major Road:Midway RoadExisting 9(30)%Minor Road:Homedale RoadBackground 9(30)%Direction:NorthboundPlus Project 9(30)%

Figure 1 - Left-Turn Lane Guidelines for Two-Lane Roads less than or equal to 40 mph



		AM	PM
Result	2021 Existing		0
Not Warranted	2023 Background		0
1 tot Trantoa	2023 Plus Project		0
Needed Data:			0
Opposing Volume (veh/hr) - VO - The opposing volume is to include only the right-turn and through movements in the opposite direction of the left turning vehicle.			
Advancing Volume (veh/hr) - VA - The advancing volume is to include the right-turn, left-turn and through movements in the same direction as the left turning vehicle.			

- 3. Operating Speed (mph) The greatest of anticipated operating speed, measured 85th percentile speed or posted speed.
- 4. Percentage of left turns in VA

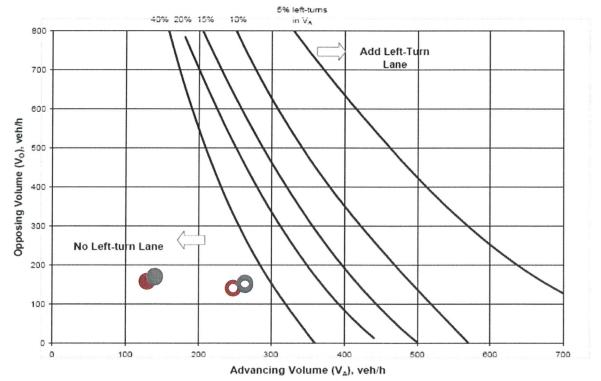
Left- turn lane is not needed for left turn volume less than 10 vph. However, criteria other than volume, such as crash experience, may be used to justify a left-turn lane.

The appropriate trend line is identified on the basis of the percentage of left-turns in the advancing volume, rounded up to the nearest percentage trend line. If the advancing and opposing volume combination intersects above or to the right of this trend line, a left-turn lane is appropriate.

# Left-Turn Lane Analysis - Two-Lane Roadway ≤ 40 mph

Left Turns AM(PM)Major Road:Midway RoadExisting 3(2)%Minor Road:Homedale RoadBackground 3(2)%Direction:SouthboundPlus Project 3(2)%

Figure 1 - Left-Turn Lane Guidelines for Two-Lane Roads less than or equal to 40 mph



		AM	PM
Result	2021 Existing		0
Not Warranted	2023 Background		0
	2023 Plus Project		0
Needed Data:			0
Opposing Volume (veh/hr) - VO - The opposing volume is to include only the right-turn and through movements in the opposite direction of the left turning vehicle.			
Advancing Volume (veh/hr) - VA - The advancing volume is to include the right-turn, left-turn and through movements in the same direction as the left turning vehicle.			

- 3. Operating Speed (mph) The greatest of anticipated operating speed, measured 85th percentile speed or posted speed.
- 4. Percentage of left turns in VA

Left- turn lane is not needed for left turn volume less than 10 vph. However, criteria other than volume, such as crash experience, may be used to justify a left-turn lane.

The appropriate trend line is identified on the basis of the percentage of left-turns in the advancing volume, rounded up to the nearest percentage trend line. If the advancing and opposing volume combination intersects above or to the right of this trend line, a left-turn lane is appropriate.

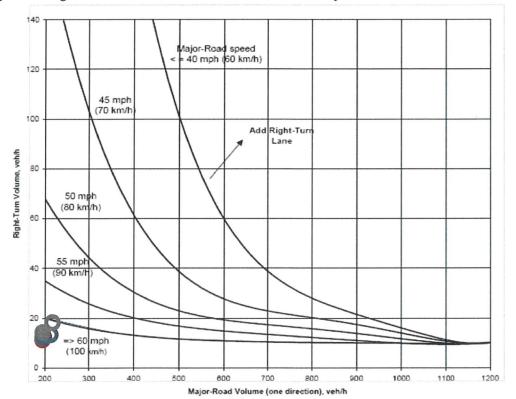
# **APPENDIX G**

RIGHT-TURN LANE WARRANT FIGURES

### Right-Turn Lane Analysis - Two-Lane Roadway

Speed: 35 mph Major Road: Midway Road Minor Road: Homedale Road Northbound Direction:

Figure 6 - Right-Turn Lane Guidelines for Two-Lane Roadways



		AM	PM
Result	2021 Existing		0
Not Warranted	2023 Background		0
	2023 Plus Project		0
Needed Data:			0
Advancing Volume (veh/hr) - The advancing volume is to include the right-turn, left-turn and through movements in the same direction as the right-turning vehicle.			0

- 2. Right-Turning Volume (veh/hr) The right-turning volume is the number of advancing vehicles turning right.
- $3.\ Operating\ Speed\ (mph)\ -\ The\ greatest\ of\ anticipated\ operating\ speed,\ measured\ 85th\ percentile\ speed\ or\ posted\ speed.$

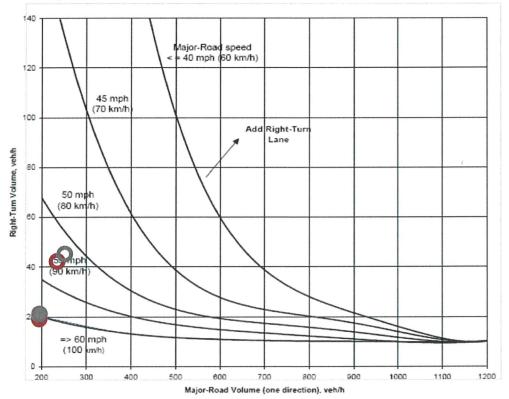
Note: Right-turn lane is not needed for right-turn volume less than 10 vph. However, criteria other than volume, e.g. crash experience, may be used to justify a right-turn lane.

If the combination of major road approach volume and right-turn volume intersects above or to the right of the speed trend line corresponding to the major road operating speed, then a right-turn lane is appropriate.

#### Right-Turn Lane Analysis - Two-Lane Roadway

Major Road: Midway Road Speed: 35 mph
Minor Road: Homedale Road
Direction: Southbound

Figure 6 - Right-Turn Lane Guidelines for Two-Lane Roadways



		AM	PM
Result	2021 Existing		0
Not Warranted	2023 Background		0
	2023 Plus Project		0
Needed Data:			0
Advancing Volume (veh/hr) - The advancing volume is to include the right-turn, left-turn and through movements in the same direction as the right-turning vehicle.			0

D 8 4

- 2. Right-Turning Volume (veh/hr) The right-turning volume is the number of advancing vehicles turning right.
- $3.\ Operating\ Speed\ (mph)\ -\ The\ greatest\ of\ anticipated\ operating\ speed\ ,\ measured\ 85th\ percentile\ speed\ or\ posted\ speed.$

Note: Right-turn lane is not needed for right-turn volume less than 10 vph. However, criteria other than volume, e.g. crash experience, may be used to justify a right-turn lane.

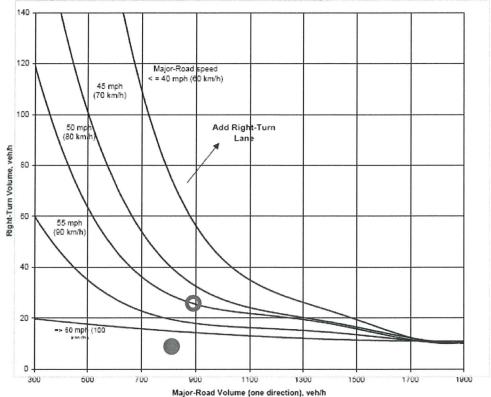
If the combination of major road approach volume and right-turn volume intersects above or to the right of the speed trend line corresponding to the major road operating speed, then a right-turn lane is appropriate.

### ACHD Right-Turn Lane Analysis - Four-Lane Roadway

Major Road: Cleveland Boulevard Minor Road: Driveway A Southbound Direction:

Speed: 45 mph

Figure 7 - Right-Turn Lane Guidelines for Four-Lane Roadways



AM PM Result 2021 Existing **Not Warranted** 2023 Background 2023 Plus Project Needed Data: 1. Advancing Volume (veh/hr) - The advancing volume is to include the right-turn, left-turn and through movements in the same direction as the right-turning vehicle.

- 2. Right-Turning Volume (veh/hr) The right-turning volume is the number of advancing vehicles turning right.
- 3. Operating Speed (mph) The greatest of anticipated operating speed, measured 85th percentile speed or posted speed.

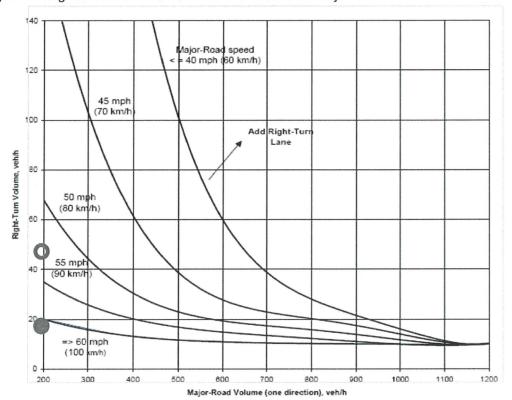
Note: Right-turn lane is not needed for right-turn volume less than 10 vph. However, criteria other than volume, e.g. crash experience, may be used to justify a right-turn lane.

If the combination of major road approach volume and right-turn volume intersects above or to the right of the speed frend line corresponding to the major road operating speed, then a right-turn lane is appropriate.

### Right-Turn Lane Analysis - Two-Lane Roadway

Speed: 35 mph Major Road: Homedale Road Minor Road: Access Drive B Westbound Direction:

Figure 6 - Right-Turn Lane Guidelines for Two-Lane Roadways

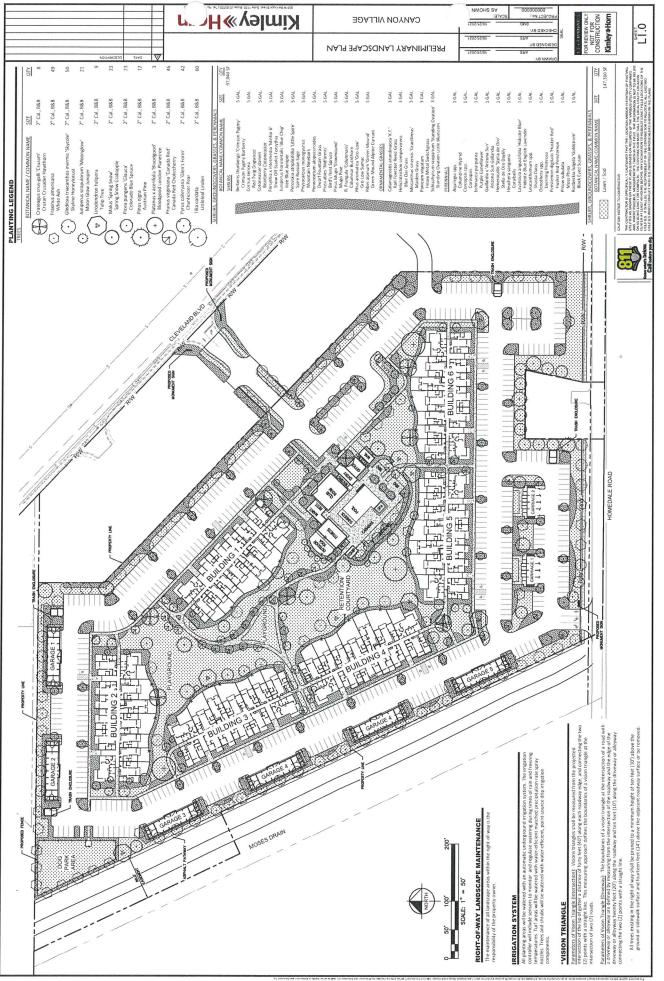


		AM	PM
Result	2021 Existing		0
Not Warranted	2023 Background		0
Titot Trantoa	2023 Plus Project		0
Needed Data:			0
Advancing Volume (veh/hr) - The advancing volume is to include the right-turn, left-turn and through movements in the same direction as the right-turning vehicle.			0

- 2. Right-Turning Volume (veh/hr) The right-turning volume is the number of advancing vehicles turning right.
- $3.\ Operating\ Speed\ (mph)\ -\ The\ greatest\ of\ anticipated\ operating\ speed\ ,\ measured\ 85th\ percentile\ speed\ or\ posted\ speed.$

Note: Right-turn lane is not needed for right-turn volume less than 10 vph. However, criteria other than volume, e.g. crash experience, may be used to justify a right-turn lane.

If the combination of major road approach volume and right-turn volume intersects above or to the right of the speed trend line corresponding to the major road operating speed, then a right-turn lane is appropriate.



A8

## **Property Owner Acknowledgement**

I, James D, Palermo, the Executive Vice President of Canyon Village Multifamily, LLC, a Florida limited liability company, the record owner for real property addressed as 6904 Cleveland Boulevard, Caldwell, ID 83607, am aware of, in agreement with, and give my permission to Brandon McDougald to submit the accompanying application(s) pertaining to that property.

- 1. The record owner agrees to indemnify, defend and hold the City of Caldwell and its employees harmless from any claim or liability resulting from any dispute as to the statement(s) contained herein or as to the ownership of the property which is the subject of the application.
- 2. The record owner hereby grants permission to City of Caldwell staff to enter the subject property for the purpose of site inspections(s) related to processing said applications(s).

Dated this 13th day of September, 2021

Canyon Village Multifamily, LLC, a Florida limited liability company

Its:

**Executive Vice President** 

#### CERTIFICATE OF VERIFICATION

STATE OF FLORIDA	)
	) ss.
County of Hillsborough	)

Anne Marie Baclawski, a Notary Public, do hereby certify that on this 13th day of September, 2021, personally appeared before me James D. Palermo, the Executive Vice President of Canyon Village Multifamily, LLC, a Florida limited liability company, known or identified to me to be the person whose name is subscribed to the foregoing instrument, who, being by me first duly sworn, declared that he signed the foregoing document, and that the statements therein contained are true.

NOTARY PUBLIC FOR FLORIDA
Residing at Tampa, Florida
My Commissions Expires: 

Aury 9, 2022

ANNE MARIE BACLAWSKI State of Florida-Notary Public Commission # GG 236265 My Commission Expires July 09, 2022

## **Cynthia Brogdon**

From:

Cynthia Brogdon

Sent:

Thursday, April 29, 2021 3:49 PM

To:

'jbreckon@breckonld.com'

Subject:

Round Table Minutes 4/22/2021

**Attachments:** 

6804 Cleveland Blvd(Canyon Village Apartments) R3089901100 4-22-2021.pdf

Jon,

Enclosed you will find the minutes from the Roundtable meeting on 4/22/2021.

Let me know if you have any questions.

Thanks,



Planning and Zoning Department Cynthia Brogdon Administrative Assistant <u>cbrogdon@cityofcaldwell.org</u>

Office: (208) 455-4664



# CITY OF Galdwell, Idaho

The intent of the roundtable meeting is to provide information in regards to city code, policies, and procedures. It does not constitute approvals of a site plan, access points, street sections, variances or

# Round Table Meeting Form

Project Name: Canyon Village Apartments

Date: 4/22/2021 10:00am

waivers of policy, etc. Additional requirements may become apparent upon review of an application.		
Site Address: 6804 Cleveland Blvd and 5715 E. Homedale Road, Caldwell, ID	Parcel #: R3089901100, R3089900000, R3089901200, R3090000000	
Applicant Architect Engineer Other:		
Name: Jon Breckon		
Email Address:	Phone #:	
Applicant Architect Engineer Other:		
Name: Jeff Holt		
Email Address:	Phone #:	
Applicant Architect Engineer Other:		
Name:Mary Wall		
Email Address:	Phone #:	
Applicant Architect Engineer Other:		
Name: Joe Swain		
Email Address:	Phone #:	
<u>City Staff Present</u>	ППП	
☐ Deb R. ☐ Robb M. ☐ Chris B. ☐ Alan P. ☐ Lisa R	Jerome M. Steve / Steven	
<u>Proposal Description</u>		
332 unit apartment complex and 4 commercial parcels. 3 Stories, 1 potential 4 story.		

PLANNING & ZONING DEPARTMENT  Project Name: Canyon Village Apartments	NO REQUIREMENTS	
Type of Application (check all that apply)		
☐ Annexation ☐ Rezone ✓ Special-Use Permit [	Planned Unit Dev. Preliminary Plat	
Simple Lot Split Variance Ordinance Amend.		
Zoning: Comp Plan: City Limits:	Overlay, Districts & Corridors:	
Current: Service Commercial Current:	APO-1 Historic District	
Proposed: Commercial & Service No	APO-2 Indian Creek Corridor	
General Site Information		
# of existing buildings: Total sq. ft.: Buildings to be torn down?  Yes No		
New construction: Yes No Total new sq. ft.: Addition:	Yes No Total addition sq. ft.:	
Parking Parking required:  Yes  No  Minimum # spaces:  Maximum # spaces:		
Parking Lot Landscaping Required?  Yes  No Bicycle Parking	Required? ✓ Yes  No	
See City Zoning Code 10-02-05 and 10-07-09 for additional parking/parking lot		
Street Landscape Buffers	Not Required	
Street #1: Cleveland(Principal Arterial Width: 25ft. Street #3:	Width:	
Street #2: Homedale(Minor Arterial) Width: 20ft. Street #4:	Width:	
Buffers between differing land uses: ✓ Yes ☐ No Width: 15ft. Landscaping required: ✓ Yes ☐ No		
Pathways required? ✓ Yes	hway	
Signage		
New signage? Yes No Sign permit required? Yes No Sec	e City Zoning Code 10-02-06 and 10-07-04(15).	
Minimum Setbacks	Minimum Lot Dimensions:	
Front: Rear: Internal Side: Street Side:	Width: Depth: Frontage:	
Additional Information		
Gated communities will be discussed within staff and Jerome will get back on that item. To designated as a commercial property and council is concerned that a lot of the commercial development, and we're losing out commercial uses. So as part of you SPU permit, you and plan zoning commission, as well as the city council that this is important and that yo because you have a compatible commercial use right next door of this project. Justify wh review. We have design review guidelines. As well as a SUP permit we want to see a det classifications in regards to units/acre. These will be under one property owner. Besides park, maybe outdoor fitness equipment. They will install bike racks through out the commutilities must be outside of those parking shelters. Cannot build over utilities. Exterior light prominent to be seen. USPS Kiosk central location near the clubhouse for the entire site. services purposes. Angie Hopf can walk you through the road naming process. The Mosminor pathway. It is part of the 2024 Bike and pedestrian master plan along Moses drain to install that pathway. Neighborhood meeting must be held. Neighbors within 300'. Notic meeting. Drainage areas within the project do not qualify as "open space". They will relor needed. Cleveland Blvd is a principle artery, so landscape buffer is 25' and Homdale is a buffers do not qualify toward the 10% qualifying space. This parcel has 5 lots on it and withe division within the PZ zoning process and it would need to be approved by the City Content.	ial properties were being eaten up by multi-family are going to have to convince the hearing examiner u're not going to be interchange the commercial uses by this should be apartments. We require a design tailed site plan. You have to meet the R-3 zoning the clubhouse and pool, they will try to put in a dog nunity per/code. If they put parking shelters in then ting directed into the site. Addressing must be a linternal roads will have to be named for emergency ses drain that runs along the west side is slated for a will have a minor pathway that this project will need case must be sent 10 days before you conduct the cate their garbage dumpsters to different locations as minor so the landscape buffer is 20'. And those ill need to be sub divided. You will need to apply for	



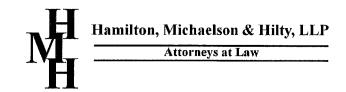
BUILDING DEPARTMENT		■ NO REQUIREMENTS	
Project Name: Car	nyon Village Apartments		
Applications Required			
✓ New Construction/Addition	☐ Change of Use/Occupancy	✓ Electrical Permit	
✓ Plumbing Permit	✓ Mechanical Permit	✓ Sign Permit	
Demolition Permit	Fence Permit TBD	✓ Other: TBD	
ADA Requirements		□ N/A	
✓ Entrances	<b>✓</b> Ramps	✓ Bathrooms	
	✓ Door Hardware	✓ Accessible Route to Public Way	
Building Separation Requirements:		State of Idaho licensed architect:  Yes No	
Current Building Occupancy Classific	cation: Vacant Proposed	Building Occupancy Classification: R-2/A-3	
Will the proposed use require:	Underground grease interceptor	Under-the-sink grease trap N/A	
Plumbing Information		□ N/A	
Water Pipe Sizing: Yes	Drain Sizing: Yes	Treated Building Drainage: 🗌 Yes 🔲 No	
When these items are field reviewed	d, typically the job is already installed	and corrections may involve stopping the project	
	pipe and/or fixtures and days in waitii	ng to hear back from the design professional.	
Additional Information			
3-3 Story Building and 1 potentially being a 4-story elevator bldg. Fire Separation distance between bldgs. Where you won't need to build exterior fire walls. Most of this is R-2 occupancy. 6 bldgs with garage, clubhouse and pool will be A-3 Occupant groups. Every Bldg will have to be a accessible. On your overall site plan note your location of your A units. The Bldg with the elevator. Every Unit in there including the second and third floors are not required to be accessible by singular exception in chapter 11 in the building code. But the ground floor is. Your parking should reflect where the location of your units are. "A unit" means a fully accessible residential unit. "B unit" alterable to a B unit upon need, it has to be prepared to become an accessible unit. While an A unit is required to meet all of the requirements of the ICCA117 2009 standards in chapter 11 of the building code. In the B units you do not need to put the grab bars in, you just have to have the backing in place for them. A "B" unit can have a parallel approach to the bathroom. This is 30" X 48". So where it's parallel it would be 48", so the center of the lavatory has to be a minimum of 2" from the side wall. The site plan is required as part of the permit application. A phase approach is advisable. I will not issue a temporary on a residential bldg. But can issue a C of O on each individual bldg, as it's completed. Will give permission for furniture in the club house prior to C of O, but with communication and conjunction with the fire people. The pool will require a barrier around it. A demolition permit will be required for the building that currently exists on the proposed property. We allow the fence for the pool to integrate with the clubhouse as long as the access controlled doors from the clubhouse.			
Building Permit Process			
1. Complete the appropriate Building Department application. 2. Submit completed application to the Building Department with two (2) COMPLETE SETS OF PLANS. 3. Two (2) complete sets of plans shall be submitted along with the building permit application. The two sets of plans shall have the wet stamp of the architects and/or engineers that prepared the plans. A complete package shall include but not be limited to architectural, structural, plumbing, mechanical and electrical plans. Please include additional documentation such as structural calculations, specification books and energy compliance forms to help speed up the plan review process. The complete package shall also include all storm water calculations and detailed civil plans as prepared and stamped by a civil engineer. The complete package shall also include a landscaping plan, along with the landscaping plan application, that has been stamped by a licensed landscaped architect. 4. Application is processed through the Building Department and distributed to Planning and Zoning, Engineering and Fire for review and approval. The Building Department does not review the application until P&Z, Engineering and Fire have reviewed and approved the application. PLEASE NOTE: Most of the time revisions to the plans are necessary before approved application from P&Z, Engineering and Fire, it performs its review and issues a plan review letter that typically asks for revisions before a permit may be issued. 5. Once the Building Department receives the approved application from P&Z, Engineering and Fire, it performs its review and issues a plan review letter that typically asks for revisions before a permit may be issued. 6. Once the revisions have been re-submitted to the Building Department, as a complete packaged set in all 4 sets, and the revisions have been reviewed and approved, the Building Department will issue a permit. 7. Applicant will receive a phone call letting him/her know the permit is ready to pick up, along with the amount of the fees, which are paya			
of picking up the permit.			
Certificate of Occupancy (C of O) Process  1 Inspections must be requested by the applie	cant. The applicant is responsible for calling to	schadula incractions	
<ol> <li>No temporary or permanent C of O or certi</li> <li>If an inspection is not passed the first time, responsible for calling to schedule a re-inspec</li> <li>On shell buildings, a C of O (either tempora issued for the shell.</li> </ol>	ficate of completion shall be issued until all insp the applicant is responsible for completing the tion. ry or permanent) will not be issued for any tena	pections have been requested, conducted and passed. items necessary to pass a re-inspection and is also ant improvement until the certificate of completion has been	
INCLUDES OCCUPATION FOR ANY STAFF TRA BUILDING EXCEPT CONSTRUCTION PERSONN	ININGS AS WELL AS MOVING IN ANY EQUIPME EL.	ENT, FURNITURE, ETC. IT INCLUDES ANYONE OCCUPYING THE	
	y single item required from all 4 departments ha	as been completed, inspected and approved.	
Commercial Permit Guide Packet Provided to Applicant(s): Yes No			



FIRE DEPARTMENT Project Name: Canyon Village Apartments	■ NO REQUIREMENTS	
# existing fire hydrants: Need upgrade:  Yes No Not at this time	# required new fire hydrants:	
Sprinkler system required: ✓ Yes  No  Existing Type:	o j u. u. u.	
Fire monitoring system required:  Yes  No  Existing Type:		
Fire alarm system required: Yes No Existing Type:		
Fire extinguishers must be located within a 75-foot travel distance of each other and must be present during construction.		
Addressing	✓ N/A	
Addressed: Yes No Change in address: Yes No New Addr	ess: Yes No	
Address # size: Address # location:		
Knox box required: Yes No # required: Location(s):		
Islands, medians, traffic calming, roundabouts:   Yes   No   N/A Turnaround required	: Yes No N/A	
Fire lanes required: Yes No Entry signage: Yes No NPFL curbs or signa	age: No	
Hazardous or dangerous processes: Yes No	□ N/A	
Describe:		
Hazardous Materials On-site: Yes No Stored: Yes No Used: Yes No W Type: Quantity:	/aste: 🗌 Yes 📗 No	
Additional Information		
More than 30' from street level to eaves will put you in setback requirements for the fire code for aerial suppression or rescue operations. some of which are a minimum of 26' wide streets or roads in front of each of the structures or the accessible side. Operating out of the 2018 International Fire Code appendix d105. We will need several hydrants through out the facility. If you provide shaded parking, then we can't make access bldg's for aerial operations to the roof line with the distance of those parking shade structures. So please review. Access looks good. Turn around and T's will be required out of the same IFC appendix d. Fire suppression systems inside of the structures. Determine if alarm systems or monitoring systems to be centrally located within the clubhouse or each unit is going to have its own system. Wireless systems are okay, but they will need to modes of communication, I will verify through the fire code. I'll have to review what the code states. Your detached garages will not have to fall under the fire suppression sprinkler issue. Just the structures, not the club house unless it is over 5k square ft., then it would. If there is a commercial kitchen inside the clubhouse it would be required to have the proper hood system which has fire suppression attached to it. Knox system would be expected on all structures for access for the FDC room and for the clubhouse. Will review hydrant spacing and locations when I see your proposal on your plans. Then we will review if for accuracy, distance, and tactical response. I'll review the code when you put your plans in.		
Please note that Caldwell City Policy requires all structures larger than 5,000 square feet to typically be fire sprinkled. Please contact the City Fire Marshal at (208) 250-4945 if you have questions regarding this Policy.		
State Fire Marshal's website with list of approved contractors: http://www.doi.idaho.gov/sfm/SprinklerContractorList.aspx		

ENGINEERI S DEPARTMENT Project Name: Canyon Village Apartmen	nts NO REQUIREMENTS	
Right-of-Way Dedications	□ N/A	
Street #1: Cleveland Blvd. ROW required? [		
Street #2: Homedale ROW required? [	Yes $\square$ No Feet from centerline: 40	
Street #3: ROW required?	Yes No Feet from centerline:	
Street #4: ROW required?	Yes No Feet from centerline:	
No encroachments allowed within the public right-of-way.		
Approaches		
# of existing: Location(s):		
# of proposed: Location(s):		
Street Improvements:	□ N/A	
Curb/gutter installation: 🗸 Yes 🗌 No	Sidewalk installation: ✓ Yes  No	
Street asphalt widening: 🗸 Yes 🗌 No	Alley improvements: ☐ Yes ✓ No	
Storm water requirements:	Irrigation requirements:	
Yes, per City Manual Not Required	Yes, per City Standards Not Required	
Existing sewer/water facilities running through property:	Yes No Encroachments in easements: Yes No	
Closest sewer:	Size of sewer line:	
Sewer extension required: ✓ Yes  No	Size of required sewer line:	
Closest water:	Size of water line:	
Water extension required: ✓ Yes No	Size of required water line:	
Traffic Impact Study: ✓ Yes ☐ No Usage Fees: Yes	Flood Plain: Yes V No Floodway: Yes V No	
Additional Information		
Possible Fura Jane BWD.  Site plan looks like your going to remove an access point. Cleveland is now owned by the City of Caldwell and they have jurisdiction of that road on access. A Traffic impact study will be required for this site. It would be good if you included the commercial properties on the corner in that impact study or else you will need to do another impact study when you develop the commercial property on the corner. Doing 1 impact study for both will let us see what the traffic loads are going to be. With the amount of units on your site it looks like you may potentially be required to put in a couple of right hand turn lanes off the BIvd. An impact study will outline that what is required. Engineer will research to see if and when a traffic impact study was done for this project. Any traffic impact study would need to come from a City of Caldwell approved consultant list and the developer is obligated to choose a consultant from this list. Once the consultant has been selected the city will contract with the engineer or the consultant to do the study and the developer is basically reimbursing the city for that cost. Private lanes through the site, so water and sewer will need to be routed through the site. All water and sewer need to be built to city standards. Once they are inspected and approved, the city receives dedication of those water and sewer main lines and easements. And the city operates and maintains those main lines. Service lines are still private, and those are not in easements. Each bldg is required to have a separate water and sewer line. No 2 buildings may share a service line. I meter per building. Easements for both water and sewer together are 30' wide. No structures or carports may encroach into the easement. Site must contain all storm or run off. The city has a storm run off manual(found on the city web page under the engineering dept). Fire lines, hydrants, fire suppression will come off of your potable water line. Irrigation is a separate water run off that needs to be		

Addressing related to any new development and/or re-development of a site is subject to change in accordance with City Code. Addressing should be verified with Mapping Dept. prior to incurring any expense related to marketing materials, letterhead, etc.



CARL D. HAMILTON\* TERRY MICHAELSON\* \*Retired MARK HILTY AARON L. SEABLE MAREN C. ERICSON DOUGLAS L. WATERMAN

### Non-Binding Memo of Opinion

To whom it may concern, this letter is a non-binding memo of opinion concerning the ability to pursue a preliminary plat modification for parcels nos. R3089901100, R3089900000, and R3089901200, within the limits of the City of Caldwell, Canyon County, Idaho. The foregoing parcels are zoned C-3 (Service Commercial).

Attached hereto as Exhibit A is a preliminary plat, which it my understanding was previously approved by the City of Caldwell. Said plat has certain lots designated as commercial, certain lots designated as multifamily residential, and certain lots designated as "Future Development To Be Determined."

There is presently a moratorium in place in the City of Caldwell prohibiting certain development applications within the City. Excepted from that moratorium are applications for which related applications or licenses have already been requested from, filed with, or issued by the City.

In the C-3 zone, multifamily residential construction requires a special use permit, per Caldwell City Code § 10-02-02, which must be sought pursuant to Caldwell City Code § 10-03-04.

It is presently my opinion that an application could be filed to amend the previously approved preliminary plat. Said application would be related to the prior submission of the previously approved preliminary plat. If so related, said application for amendment should not fall within the current development moratorium.

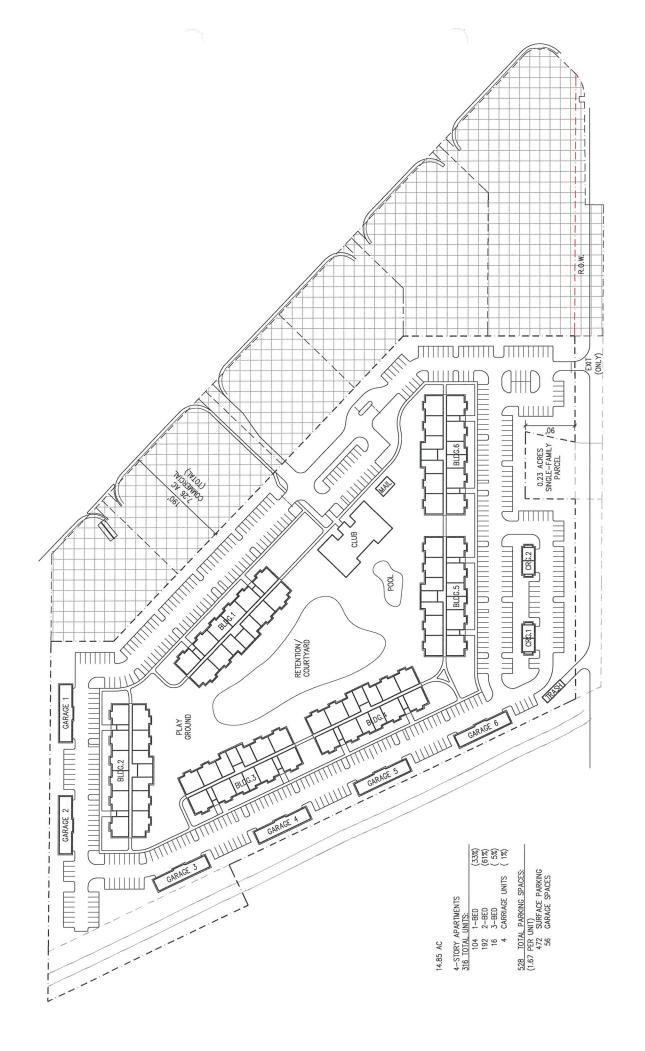
Following any approval of any amended preliminary plat, which I cannot guarantee in any way, a special use permit must be obtained prior to the construction of any multi-family development. It is presently my opinion that the special use permit application is also likely exempted from the application of the development moratorium by virtue of the prior approval of the preliminary plat for the Property. The special use permit procedure itself also is subject to review by the planning and zoning commission, and I can make no guarantee about the outcome of such an application.

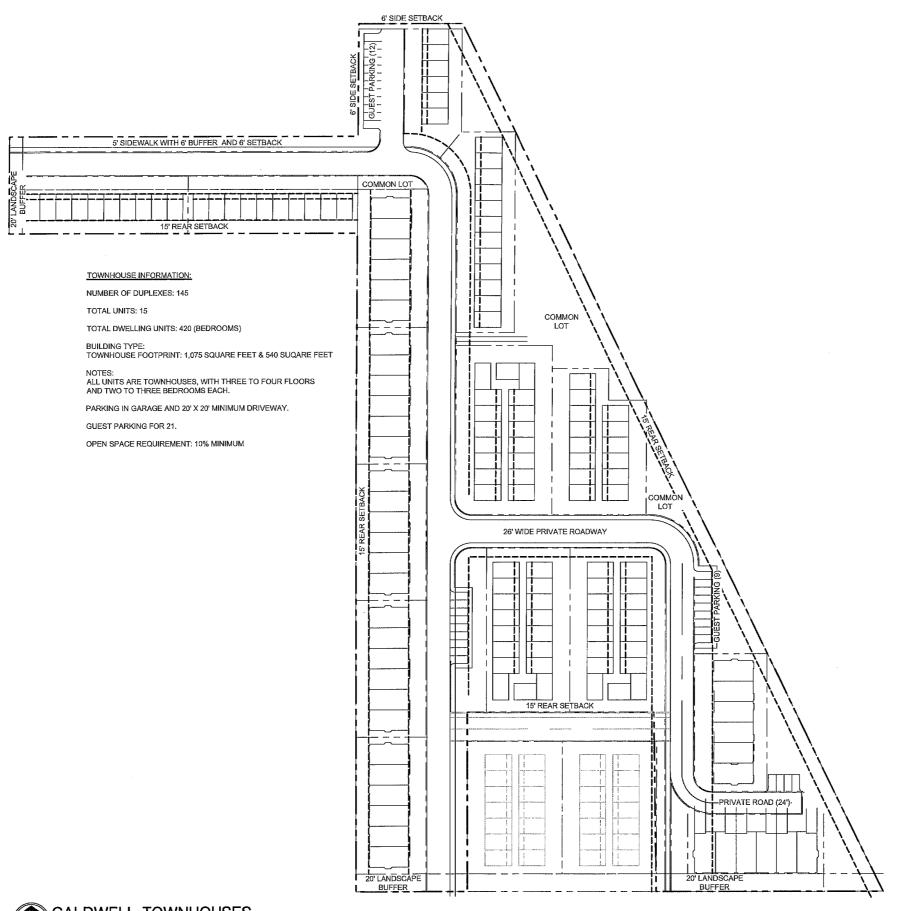
This letter is not intended to induce any particular action by any individual or entity, nor shall it be relied upon for any particular purpose, nor is it a guarantee or warranty concerning any fact or law.

HAMILTON MICHAELSON & HILTY, LLP

DOUGLAS WATERMAN

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CALDWELL TOWNHOUSE

