

**Action Requested/Required:**

- ☐ Vote/Action Requested
☒ Discussion or Presentation Only
☐ Public Hearing
Report Date: 8/27/25
Hearing Date: 10/2/25
Voting Date: 11/6/25

Department: Community Development Presenter(s) & Title: Steve Green, Zoning Administrator

Agenda Item Title:

MP2508-001 / CUP2508-001 - Request for Master Plan and Conditional Use Permit approval - Longview Street and John T. Pettit Street - Pepe Medina

Summary:

These applications involve a 33.23 acre tract of land that was approved for single family detached homes and duplexes in 2021. The property is currently zoned PD-R which requires the submission of a Master Plan. The proposed plan contains a section of townhomes which requires the submission of a Conditional Use Permit application. The approved Master Plan contains 124 single family detached homes and duplexes. The proposed Master Plan contains 143 living units made up of single family detached, duplexes and townhomes.

The applicant is also requesting a variance to the PD-R regulations by reducing the minimum required land area of the development from 25% to 15% for the single family detached area.

Budget Implications:

Budgeted? ☐ Yes ☐ No ☒ N/A

Total Cost of Project: Check if Estimated ☐

Fund Source: General Fund ☐ Water & Sewer ☐ Sales Tax ☐ Other:

Staff Recommendations:

Staff recommendations will be made after the public hearing.

Reviews:

Has this been reviewed by Management and Legal Counsel, if required? ☐ Yes ☐ No

Attachments:

Application
Revised Letter of Intent
Survey/Site plan
Traffic study

August 01, 2025

NOTIFICATION OF PUBLIC HEARING APPLICATION

Dear Property Owner,

This letter is to inform you that Pepe Medina has applied to the City of Canton for Master Plans for the property located at Longview Street, Canton, Ga. 166 & 195 Lots, 14th district, Parcel ID 14N170-22G. You are receiving this notice because you own property within 1,000' of the proposed project or are listed as an Interested Party.

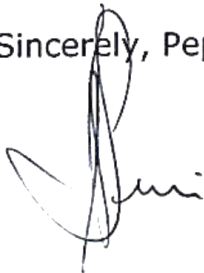
You are invited to attend a Community Information and Input Meeting to learn more about the proposal. The Community Information and Input Meeting will be held on October 2nd, 2025, beginning at 6:00p.m at the Auditorium at Canton City Hall located at 110 Academy Street, Canton, GA 30114. This will be an informal meeting that will allow Pepe Medina to tell you about the proposal and to answer any questions you may have about the project. A copy of the proposed site plan is enclosed with this notice.

There will be a public comment opportunity for this case, anticipated to take place on Thursday, _____, at 6:00pm before the Canton City Council. The Public Hearing will be held in the Auditorium at Canton City Hall, located at 110 Academy Street, Canton, GA 30114. Please note this date is subject to change.

If you are unable to attend the Community Information and Input Meeting and would like additional information, you may contact Pepe Medina at pepecelhay@gmail.com.

Please contact staff at the City of Canton Community Development Department at (770) 704-1500 if any questions about the case should arise.

Sincerely, Pepe Medina

A handwritten signature in black ink, appearing to read 'Pepe Medina', with a stylized flourish at the end.

August 01, 2025

Gamesa Properties LLC

Re: Case Longview Street – Master Plan

Dear Property Owner,

Pepe Medina has filed a Master Plan request with the City of Canton on 33.23 acres of land located at Longview Street, Canton, Ga. 166 & 195 Lots, 14th district, Parcel ID 14N170-22G.

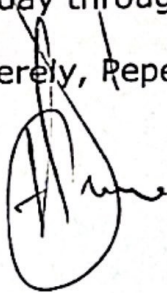
Our request is to obtain approval of a Master Plan and Conditional Use Permit in order to build sustainable houses for the residence of the city of Canton.

A Public Hearing will be held before the Canton City Council on October 2nd, 2025, at 6:00p.m. in the Auditorium at Canton City Hall, 110 Academy Street, Canton, GA 30114.

Anyone wishing to speak in opposition must file a disclosure form with the City of Canton on or up to five (5) days prior to the date of the hearing.

The hearing on this matter is open to the public, and the application is on file in the Community Development Department located at Canton City Hall, 110 Academy Street, Canton, GA 30114, and may be viewed Monday through Friday 9:00 a.m. to 4:00 p.m.

Sincerely, Pepe Medina

A handwritten signature in black ink, appearing to read 'Pepe Medina', is written over the typed name. The signature is stylized with a large, circular loop at the beginning and a long, horizontal stroke extending to the right.



Community Development Department
110 Academy Street, Canton, GA 30114
(770) 704-1500

PUBLIC HEARING APPLICATION

Project #(s):

Longview Street - Master Plan

This Application is for:

- | | |
|--|--|
| <input type="checkbox"/> A Annexation | <input type="checkbox"/> I Temporary Use Permit |
| <input type="checkbox"/> B Rezoning | <input type="checkbox"/> J Zoning Ordinance Text Amendment |
| <input checked="" type="checkbox"/> C Master Plans | |
| <input type="checkbox"/> D Master Plan Amendment | <input type="checkbox"/> Appeal |
| <input checked="" type="checkbox"/> E Conditional Use Permit | <input type="checkbox"/> Adjustment |
| <input type="checkbox"/> F Land Use Modification | <input type="checkbox"/> Special Exception |
| <input type="checkbox"/> G Zoning Condition Amendment | |
| <input type="checkbox"/> H Density Transfer within Master Plan | |

1. Please check all information supplied on the following pages to ensure that all spaces are filled out completely and accurately before signing this form. State **N/A**, where Not Applicable.
2. If you are not paying online, please make your check payable to "**City of Canton**."
3. If you have questions regarding this form, please contact the Community Development Department by calling (770) 704-1500.

Applicant Information:

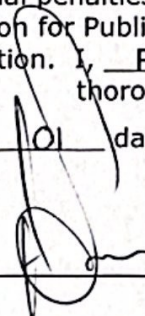
Name: Pepe Medina
Address: 827 GA-400, Suite 105
City: Dawsonville
State: GA ZIP Code: 30534
Telephone: 678-384-9447
Email Address: pepecelhay@gmail.com

Owner Information:

Name: Gamesa Properties
Address: 5025 Deen Road
City: Marietta
State: GA ZIP Code: 30066
Telephone: 678-384-9447
Email Address: pepecelhay@gmail.com

I, Pepe Medina, do solemnly swear and attest, subject to criminal penalties for false swearing, that the information provided in the Application for Public Hearing is true and correct and contains no misleading information. I, Pepe Medina (Applicant), have received and thoroughly read the Public Hearing Procedures.

This 101 day of August, 2025.

Applicant Signature: 

Print Name: 



Community Development Department
110 Academy Street, Canton, GA 30114
(770) 704-1500

AUTHORIZATION OF OWNER AND APPLICANT

Project #(s):

Longview Street - Master Plan

This form is to be executed under oath. I, Gamesa Properties, do solemnly swear and attest, subject to criminal penalties for false swearing, that I am the owner of the property, which is the subject matter of the attached application, as is shown in the records of Cherokee County, Georgia. I hereby authorize the City of Canton and its representatives to inspect the property, which is the subject of this application, and post any notices required thereon.

This 1 day of July, 2025.

Owner Signature: [Signature]

Print Name: [Signature]

I, the above signed legal owner of the subject property, do hereby authorize the following application to be submitted to the City of Canton and do hereby authorize the following person named below to act as Applicant in the pursuit of a request for:

This Application is for:

- | | |
|--|--|
| <input type="checkbox"/> A Annexation | <input type="checkbox"/> I Temporary Use Permit |
| <input type="checkbox"/> B Rezoning | <input type="checkbox"/> J Zoning Ordinance Text Amendment |
| <input checked="" type="checkbox"/> C Master Plans | <input type="checkbox"/> Appeal |
| <input type="checkbox"/> D Master Plan Amendment | <input type="checkbox"/> Adjustment |
| <input checked="" type="checkbox"/> E Conditional Use Permit | <input type="checkbox"/> Special Exception |
| <input type="checkbox"/> F Land Use Modification | |
| <input type="checkbox"/> G Zoning Condition Amendment | |
| <input type="checkbox"/> H Density Transfer within Master Plan | |

Name of Authorized Applicant: Pepe Medina

Signature: [Signature]

Mailing Address: 827 GA-400, Suite 105

City: Dawsonville

State: GA Zip Code: 30534

Telephone: 678-384-9447

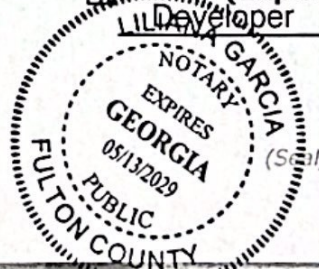
E-mail: pepecelhay@gmail.com

Applicant Status:

- ☐ Owner
☐ Option to Purchase
☐ Leasee
☐ Area Resident
☒ Other (Explain): Developer

This Authorization of Owner and Applicant Form has been completed and the property owner's signature is Sworn To and Subscribed Before Me This 1 Day Of August, 2025.

Notary Signature: [Signature]





Community Development Department
110 Academy Street, Canton, GA 30114
(770) 704-1500

DISCLOSURE FORM

Project #(s):

Longview Street - Master Plan

O.C.G.A. § 36-67A-2 / O.C.G.A. § 36-67A-3 requires disclosure of campaign contributions to government officials by an Applicant or opponent of a Public Hearing petition. Applicants must file this form with the Department of Community Development. Please complete a separate form for each authorized Applicant.

Name of Applicant/Opponent: Pepe Medina

Section 1

If the answer to any of the following questions is "Yes," complete Section 2.

- A) Are you, or anyone else with a property interest in the subject property, a member of the City of Canton Mayor and City Council?
☐ YES ☒ NO
- B) Does an official of such public bodies have any financial interest in any business entity which has a property interest in the subject property?
☐ YES ☒ NO
- C) Does a member of the family of such officials have an interest in the subject property as described in (A) and (B)?
☐ YES ☒ NO
- D) Within Two (2) years of immediately preceding this application have you made campaign contributions(s) or given gifts to such public officials aggregating \$250 or more?
☐ YES ☒ NO

Section 2

- Name and the official position of the Canton Official to whom the campaign contribution was made **(Please use a separate form for each official to whom a contribution has been made in the past (2) years):**

- List the dollar amount/value and description of each campaign contribution made over the past two (2) years by the Applicant/Opponent to the named Canton Official:

\$	
\$	
\$	

Description

ing structures.



Community Development Department
110 Academy Street, Canton, GA 30114
(770) 704-1500

PROPERTY INFORMATION

Project #(s):

Longview Street - Master Plan

Address: Longview Street, Canton, GA 30114

Land Lot(s): 166 & 195 District: 14th Section: _____ Parcel ID(s) 14N170-22G

Existing Zoning Of Property: PD-R ☒ City ☐ County Total Acreage Of Property: 33.23

Proposed Zoning Of Property: N/A Existing Use(s) Of Property Vacant/Forested Coverage

ADJACENT PROPERTY/OWNER INFORMATION:

Please provide the following information for all adjacent properties, including property connected by public rights-of-way. Attach additional sheets as necessary.

	OWNER NAME AND ADDRESS/PARCEL ID	CURRENT ZONING	CURRENT LAND USE
NORTH	PORTILLO RAUL E & / 161 Cherokee Street/ 91N14005A	R-20	
SOUTH	CSL GEORGIA SYSTEM LLC 106 Longview Street/ 91N14011	L-I	
EAST	EDGE REAL ESTATE 3 LLC 570 Longview Street/ 91N26009A	R-40	
WEST	MAGRUDER NELL GALT AS TRUSTEE 390 E Marietta Street/91N16044	R-4	
OTHER			
OTHER	Working on a full list of surrounding property owners and addresses		
OTHER			

UTILITY INFORMATION:

How is sewage from this development to be managed? PUBLIC GRAVITY SEWER

Proposed managing jurisdiction: City of Canton

How will water be provided to the site? PUBLIC WATER SUPPLY LINES, FIRE SUPPRESSION & FIRE HYDRANTS

Proposed managing jurisdiction: City of Canton Size Limit: _____



PUBLIC SCHOOL INFORMATION

Project #(s):

Longview Street – Master Plan

PUBLIC SCHOOL POLICY STATEMENT:

"The Mayor and Council of the City of Canton hereby recognize that growth and development can, at times, have an effect on school capacity within the county and therefore recognize the need to share information on developments that have regional impact. In an effort to cooperate with the Cherokee County School [District] and share information on residential rezoning requests, master plan applications, and land use modifications to the comprehensive land use plan, the Mayor and Council hereby encourage open dialogue and meeting between the Applicant and the appropriate school board representative." (105.10.04)

- **Developers whose projects consist of 25 or more residential units shall contact the Cherokee County School District and communicate with a school board representative to discuss their intent.**
- **This communication between the Applicant and the school board should take place, at a minimum, prior to the Informational Item meeting in Month Two (see Pages iii and iv).**
- The Applicant should be prepared to address such communication if requested by the Mayor and Council at the meeting in which final action is to be taken.

The current Cherokee County School District contact regarding any potential mitigation required for this application and proposal is:

Mitch Hamilton
Director of Planning, Facilities, and Compliance
200 Mountain Brook Court
Canton, GA 30115
(770) 721-8429
mitch.hamilton@cherokeek12.net

ZONED SCHOOLS: (circle one each)

HIGH: CHEROKEE CREEKVIEW ETOWAH SEQUOYAH

MIDDLE: CREEKLAND DEAN RUSK FREEDOM TEASLEY

ELEMENTARY: AVERY BALL GROUND CLAYTON HASTY

INDIAN KNOLL KNOX R.M. MOORE SIXES



Community Development Department
110 Academy Street, Canton, GA 30114
(770) 704-1500

REVIEW CRITERIA

Project #(s):

Longview Street – Master Plan

How will this proposal be compatible with surrounding properties?

The proposed development will introduce a mix of townhomes, duplexes, and single-family detached residences, along with stormwater facilities, roadways, and supporting infrastructure to the community. It will follow regulations in the City of Canton.

How will this proposal affect the use and value of surrounding properties?

The site will be developed following Planned Development – Residential (PD-R) zoning district regulations in the City of Canton. The project will enhance surrounding land values by converting an underutilized tract into a well-planned residential community.

Can the property be developed for a reasonable economic use as currently zoned? Please explain why or why not.

The movement of populations from rural to urban areas, has dramatically reshaped the social, economic, and environmental landscapes worldwide. With an increasing number of people migrating to cities for opportunities, cities have become focal points of innovation and economic growth.

What would be the increase to population and traffic if the proposal were approved?

A detailed traffic impact study will be submitted separately to the Planning and Zoning Department in accordance with City requirements. However, the following is a general overview:

Trip Generation: The proposed mix of housing types is anticipated to generate moderate traffic volumes, consistent with other suburban residential developments.

Peak Hour Impacts: Trips will be distributed across multiple access points via Longview Street, Dr. John T. Pettit St., proposed roundabouts and nearby collector roads.

Road Network: The internal road system will meet City design standards and includes provisions for sidewalks and emergency access.

Improvements: If warranted by the finalized traffic study, mitigation measures such as turn lanes, signage, or additional pedestrian enhancements will be proposed.

What would be the impact to schools and utilities if the proposal were approved?

This project can lead to increased tax revenue for schools, enabling improvements in facilities, academic performance, and community engagement. It can also drive necessary upgrades to local utilities and promote the adoption of modern, sustainable practices, creating a positive impact for both the new residents and the broader community.

How is the proposal consistent with the Comprehensive Plan and the Future Land Use Map?

It has been historically vacant and is now being considered for residential development in response to the community's growing housing needs.

How is the proposal consistent with the City of Canton Roadmap of Success?

It aligns with the City's Roadmap for Success by aiming to fulfill tenets. The Roadmap emphasizes developing residential areas that are desirable and functional. The project would be assessed based on its contribution to this goal, including factors like design, greenspace integration, and access to amenities. It will offer a variety of housing options and price points, catering to a diverse population. By incorporating open spaces, trails, or connections to existing parks, a new residential project can align with the Roadmap's focus on connecting citizens to recreational opportunities. Residential development that attracts new residents and contributes to the local economy, through job creation or supporting local businesses. Incorporating environmentally conscious design and development practices in a new residential project, such as utilizing green building techniques or preserving natural features, aligns with the Roadmap's focus on sustainability.

Are there existing or changing conditions which affect the development of the property and support the proposed request?

The subject parcel is a wooded and undeveloped tract of land with no existing structures.

PROJECT INFORMATION:
CURRENTLY, THIS 33.23 ACRE PROPERTY IS FORESTED COVERAGE, WITH GOOD CONDITIONS.

THE PROPOSED DEVELOPMENT WILL CONSIST OF A PROPOSED ROAD, TOWNHOUSES, DUPLEXES, AND SINGLE FAMILY RESIDENTIAL STRUCTURES, WITH STORMWATER MANAGEMENT FACILITIES, UTILITIES, AND AMENITIES, ETC.

PROPERTY/PARCEL INFORMATION:
ADDRESS: LONGVIEW STREET, CANTON, GA 30114
PARCEL NUMBER: 14170 22G
JURISDICTION: CITY OF CANTON
SITE DISTURBANCE:
TOTAL AREA= 33.32 ACRES
DISTURBED AREA= ---- ± ACRES

BOUNDARY INFORMATION OBTAINED FROM A SURVEY FOR FOLIA GROUP COMPLETED BY DAVIS ENGINEERING & SURVEYING, LLC DATED 9/14/2021.

CONTOUR INTERVAL: 2'

UTILITIES SHOWN HEREON ARE FROM EXISTING STRUCTURES AND ABOVEGROUND MARKS FOUND. DAVIS ENGINEERING AND SURVEYING, LLC IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES.

ACCORDING TO AN INTERPRETATION OF THE FEMA NATIONAL FLOOD HAZARD LAYER, THIS PROPERTY DOES LIE WITHIN A FEDERAL FLOOD HAZARD AREA PER FIRM PANEL NO. 1305700251E DATED 06/07/2019.

ZONING INFORMATION:
CITY OF CANTON
ZONING: PD-R (PLANNED DEVELOPMENT - RESIDENTIAL)
SINGLE-FAMILY DETACHED

FRONT: 5'
SIDE: 5'
REAR: 30'
BUILDING HEIGHT: 40' (TWO AND ONE-HALF STORIES)
SINGLE-FAMILY ATTACHED & DUPLEXES
FRONT: 10"
SIDE: 0' WITH USE OF APPROVED FIRE-RATED WALLS
REAR: 0'
BUILDING HEIGHT: 40' (TWO AND ONE-HALF STORIES)
TOWNHOUSES
FRONT: 10"
SIDE: 0'
REAR: 0'
BUILDING HEIGHT: 60' (FOUR STORIES)

GENERAL NOTES:

- ALL CONSTRUCTION WORK, MATERIALS, AND IMPROVEMENTS AT THIS SITE SHALL CONFORM WITH THE CITY OF CANTON, GEORGIA REQUIREMENTS.
- ALL STRUCTURES WILL BE REQUIRED TO CONFORM TO THE STANDARD BUILDING CODES HORIZONTAL SEPARATION STANDARDS. APPROVAL OF THIS PERMIT WILL NOT JUSTIFY ANY DEVIATION IN HORIZONTAL SEPARATION STANDARDS AS ADOPTED AND AMENDED BY THE GEORGIA DEPARTMENT OF COMMUNITY AFFAIRS. CONTRACTORS SHALL CONDUCT ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF APPLICABLE REGULATIONS OF THE OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION (OSHA) AND ALL LOCAL, STATE AND FEDERAL RULES AND REGULATIONS.
- ALL CONSTRUCTION STAKING ON THIS SITE SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF A GEORGIA REGISTERED LAND SURVEYOR.
- MAINTENANCE OF RECORD NOT SHOWN HEREON ARE EXCEPTED.
- THE UTILITIES AND STRUCTURES AS SHOWN ON THIS PLAN WERE FOUND PER ABOVE GROUND EXAMINATION OF THIS SITE, BASED ON VISIBLE INDICATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXACT LOCATIONS AND ELEVATIONS OF ALL UNDERGROUND UTILITIES AND OTHER STRUCTURES BEFORE THE START OF CONSTRUCTION ON THIS PROJECT.
- IT SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT ALL UTILITIES ARE AS NOTED IN THE PLANS. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER AS SOON AS POSSIBLE.
- TOILET FACILITIES SHALL BE MADE AVAILABLE TO CONSTRUCTION WORKERS WITHIN 300' OF SITE.
- NO MATERIAL CAN BE BURIED ON SITE WITHOUT THE APPROVAL OF THE OWNER AND GEOLOGICAL ENGINEER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL DEBRIS AS ACCEPTABLE TO THE OWNER.
- CONTRACTOR IS TO REMOVE ALL ROCK, TOPSOIL, AND UNSUITABLE MATERIALS.
- MAXIMUM CUT OR FILL SLOPES SHALL BE 2 HORIZONTAL: 1 VERTICAL.
- THIS SITE DOES NOT CONTAIN WETLANDS.
- THIS SITE DOES HAVE STATE WATERS REQUIRING UNDISTURBED BUFFERS.
- EXISTING FEATURES SHOWN BY DASHED LINES OR SHADED. PROPOSED FEATURES SHOWN BY SOLID OR BOLD LINES.
- CONTRACTOR RESPONSIBLE FOR PROTECTING ADJACENT AREAS AND SHALL BE RESPONSIBLE TO REPAIR ANY DAMAGE TO A CONDITION EQUAL TO OR GREATER THAN THE ORIGINAL CONDITION.
- ALL HDPE PIPE TO CONFORM TO PIPE MANUFACTURER REQUIREMENTS AND GEOTECHNICAL RECOMMENDATIONS.
- CONTRACTOR SHALL COORDINATE BUILDING CONSTRUCTION WITH ARCHITECTURAL PLANS (BY OTHERS).
- ALL SIGNAGE AND STRIPING TO BE PROVIDED BY CONTRACTOR ACCORDING TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND OTHER GOVERNING MUNICIPAL STANDARDS AND SPECIFICATIONS, LATEST EDITIONS.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS ON THESE DRAWINGS WITH ALL COORDINATING DOCUMENTS AND NOTIFY ENGINEER OF ANY DISCREPANCIES. IF DISCREPANCIES ARE FOUND DURING CONSTRUCTION, THE CONTRACTOR IS TO STOP WORK IMMEDIATELY AND NOTIFY THE ENGINEER.
- ALL EXISTING MANHOLE COVERS, METER BOXES, AND OTHER UTILITY APPURTENANCES LOCATED WITHIN THE LIMITS OF WORK SHALL BE ADJUSTED SO THAT THEIR TOP SURFACES WILL BE FLUSH WITH FINISHED GRADE.
- ALL TEMPORARY STRIPING AND SIGNAGE NECESSARY TO MAINTAIN SAFE VEHICULAR AND PEDESTRIAN TRAFFIC FLOW DURING CONSTRUCTION SHALL BE FURNISHED, INSTALLED, AND MAINTAINED BY THE CONTRACTOR.
- MUTCD SIGNAGE AND CERTIFIED FLAGGERS SHALL BE EMPLOYED DURING ANY ROAD CLOSURE OR TRAFFIC DISRUPTION.

CITY OF CANTON MASTER PLAN LAND USE NOTES:

RESIDENTIAL POD BREAKDOWN:
SINGLE-FAMILY DETACHED: 15
TOWNHOUSES: 80
DUPLEXES: 24 BUILDINGS - 48 UNITS

LAND USE BREAKDOWN BY POD (RESIDENTIAL):
SINGLE-FAMILY DETACHED ~ 5.26 ACRES / 33.23 ACRES x 100 = 15.83%
(MIN - 25%, MAX - NONE)
DUPLEX/MULTIPLE-FAMILY ~ 2.32 ACRES / 33.23 ACRES x 100 = 6.98% (MAX - 25%)
TOWNHOUSES ~ 4.90 ACRES / 33.23 ACRES x 100 = 14.75% (MAX - 25%)
ACRES WITHIN PUBLIC RIGHT-OF-WAY ~ 6.08 ACRES

LOT COVERAGE:
SINGLE-FAMILY DETACHED:
IMPERVIOUS ~ (2,000 SQFT/HOUSE + 200 SQFT/DRIVE) x 15 UNITS
= 33,000 SQFT / 43,560 SQFT = 0.76 ACRES
PERCENT IMPERVIOUS POD COVERAGE = 0.76 ACRES / 5.26 ACRES x 100 = 14.45%
OPEN SPACE COVERAGE = 5.26 ACRES - 0.76 ACRES
= 0.76 ACRES / 5.26 ACRES x 100 = 85.55%

DUPLEXES (2 UNITS/DUPLEX BUILDING):
IMPERVIOUS ~ (2,400 SQFT/UNIT + 150 SQFT/DRIVE) x 24 BUILDINGS
= 61,200 SQFT / 43,560 SQFT = 1.40 ACRES
PERCENT IMPERVIOUS POD COVERAGE = 1.40 ACRES / 2.32 ACRES x 100 = 60.34%
OPEN SPACE COVERAGE = 2.32 ACRES - 1.40 ACRES
= 0.92 ACRES / 2.32 ACRES x 100 = 39.66%

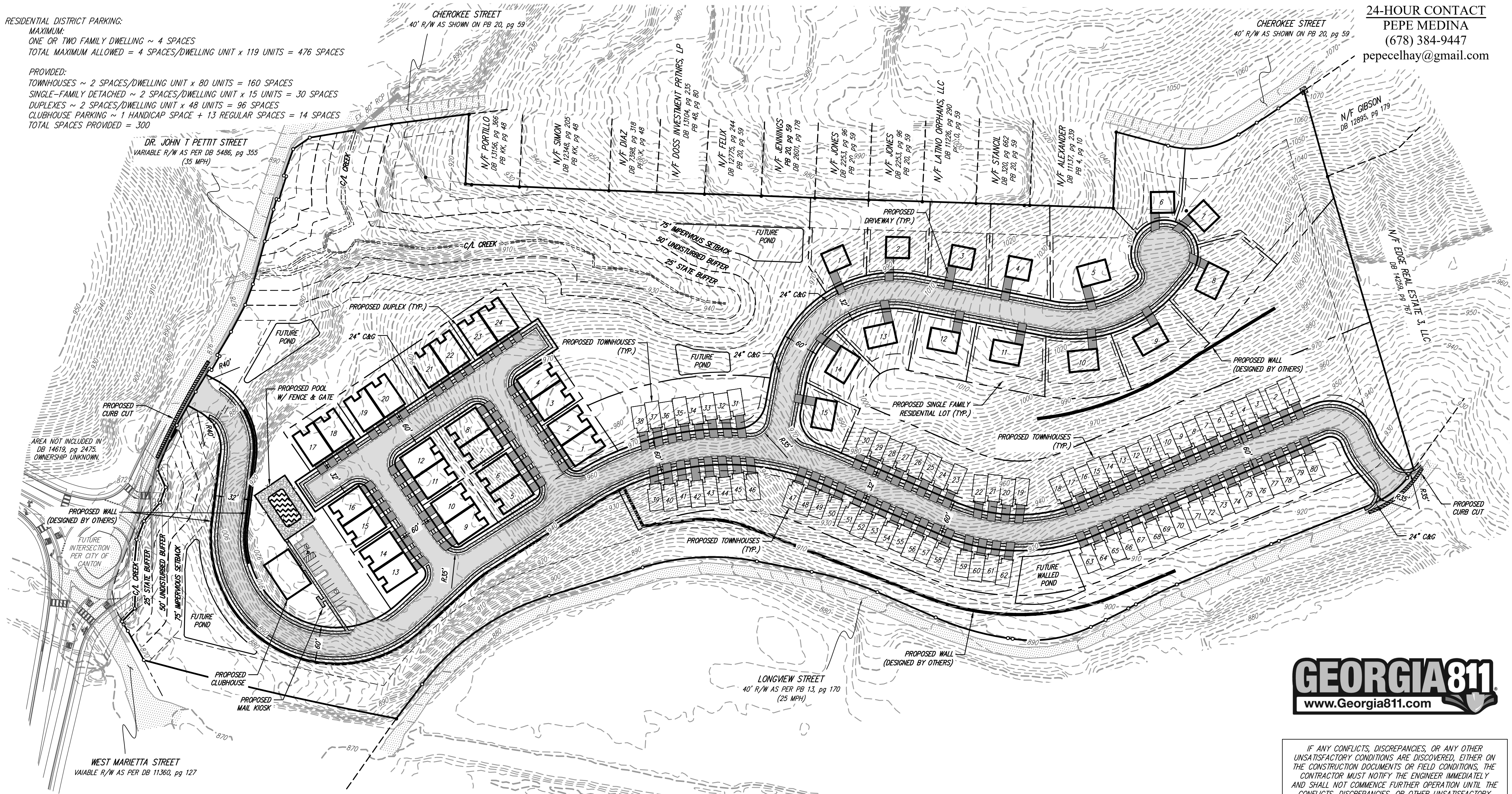
TOWNHOUSES:
IMPERVIOUS ~ (1,000 SQFT/UNIT + 200 SQFT/DRIVE) x 80 UNITS
= 96,000 SQFT / 43,560 SQFT = 2.20 ACRES
PERCENT IMPERVIOUS POD COVERAGE = 2.20 ACRES / 4.90 ACRES x 100 = 44.90%
OPEN SPACE COVERAGE = 4.90 ACRES - 2.20 ACRES
= 2.70 ACRES / 4.90 ACRES x 100 = 55.10%

OVERALL OPEN SPACE:
5.26 ACRES SINGLE FAMILY + 2.32 ACRES DUPLEXES + 4.90 ACRES TOWNHOMES + 6.08 ACRES ROW = 18.56 ACRES = 44% OPEN SPACE

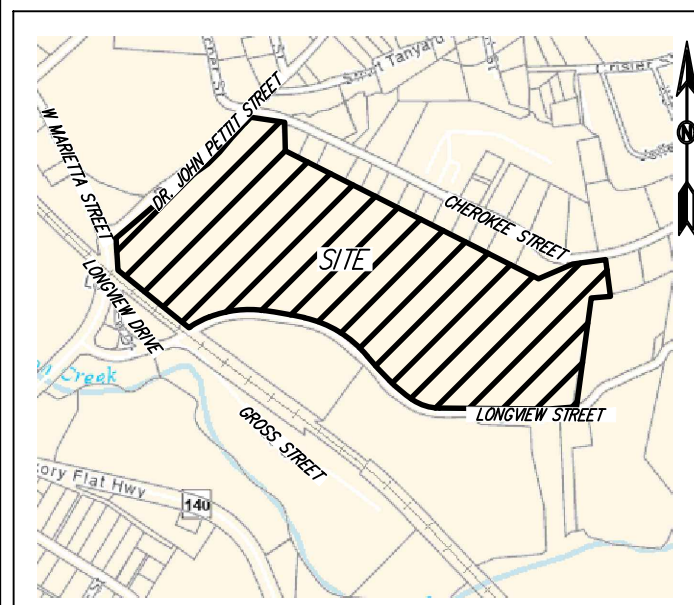
RESIDENTIAL DISTRICT PARKING:

MAXIMUM
ONE OR TWO FAMILY DWELLING ~ 4 SPACES
TOTAL MAXIMUM ALLOWED = 4 SPACES/DWELLING UNIT x 119 UNITS = 476 SPACES

PROVIDED:
TOWNHOUSES ~ 2 SPACES/DWELLING UNIT x 80 UNITS = 160 SPACES
SINGLE-FAMILY DETACHED ~ 2 SPACES/DWELLING UNIT x 15 UNITS = 30 SPACES
DUPLEXES ~ 2 SPACES/DWELLING UNIT x 48 UNITS = 96 SPACES
CLUBHOUSE PARKING ~ 1 HANDICAP SPACE + 13 REGULAR SPACES = 14 SPACES
TOTAL SPACES PROVIDED = 300



LEGEND			
○	POWER POLE (PP)	C&G	CURB AND GUTTER
HP	HIGH POINT	IP	IRON PIN
DI	DROP INLET	P/L	PROPERTY LINE
JB	JUNCTION BOX	F.E.S.S.	FLARED END SAFETY SECTION
OCS	OUTLET CONTROL STRUCTURE	PT	POINT OF TANGENT
DWCB	DOUBLE WING CATCH BASIN	PC	POINT OF CURVATURE
HW	HEADWALL	OCS	OUTLET CONTROL STRUCTURE
RCP	REINFORCED CONCRETE PIPE	ELEV.	ELEVATION
CMP	CORRUGATED METAL PIPE	N/F	HOW OR FORMERLY
HDPE	HIGH DENSITY POLYETHYLENE	R/W	RIGHT OF WAY
UOD	UNDERGROUND DETENTION	LL	LAND LOT LINE
TBM	TEMPORARY BENCHMARK	CONC.	CONCRETE
EX	EXISTING	INV	INVERT
PROP.	PROPOSED	EOP	EDGE OF PAVEMENT
FH	FIRE HYDRANT	TYP.	TYPICAL
WM	WATER METER	—X—	FENCE
LF	LINEAR FEET	—○—	OVERHEAD ELECTRIC
DIP	DUCTILE IRON PIPE	—S—	SOILS
PVC	POLYVINYL CHLORIDE	—SS—	SANITARY SEWER LINE
R	RADIUS	---	BUILDING SETBACK LINE
SF	SQUARE FEET	---	VEGETATIVE BUFFER
FFE	FINISH FLOOR ELEVATION	—W—	WATERLINE



LOCATION MAP
N.T.S.

OWNER
N/F GAMESA PROPERTIES
5025 DEEN ROAD
MARIETTA, GA 30066

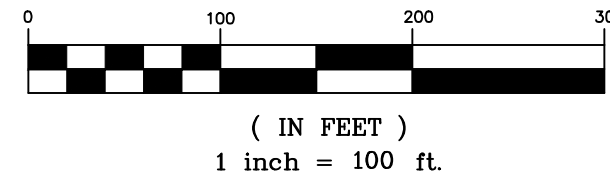
DEVELOPER
PEPE MEDINA
827 GA-400 SUITE 105
DAWSONVILLE, GA 30534
(678) 384-9447

24-HOUR CONTACT
PEPE MEDINA
(678) 384-9447
pepecelhay@gmail.com

GEORGIA811
www.Georgia811.com

IF ANY CONFLICTS, DISCREPANCIES, OR ANY OTHER UNSATISFACTORY CONDITIONS ARE DISCOVERED, EITHER ON THE CONSTRUCTION DOCUMENTS OR FIELD CONDITIONS, THE CONTRACTOR MUST NOTIFY THE ENGINEER IMMEDIATELY AND SHALL NOT COMMENCE FURTHER OPERATION UNTIL THE CONFLICTS, DISCREPANCIES, OR OTHER UNSATISFACTORY CONDITIONS ARE RESOLVED.

GRAPHIC SCALE



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ENGINEER
No. PE046682
PEPE MEDINA
DAVIS ENGINEERS
08/07/2025

REVISION	DATE	DESCRIPTION
1	08/01/2025	MASTER PLAN - INITIAL SUBMITTAL
	08/07/2025	MASTER PLAN - REVISED OPEN SPACE CALCS

MASTER PLAN
LONGVIEW STREET
LAND LOT 166 & 195
14th DISTRICT
CITY OF CANTON
CHEROKEE COUNTY, GEORGIA

DRAWN BY: CTH
CHECKED BY: OH
LAND LOT: 166 & 195
DISTRICT: 14th
SECTION: -
CITY: CANTON
COUNTY: CHEROKEE
DATE: 08/01/2025

SHEET NO.
2 OF 2

PROJECT NO.
21-221.1



August 27, 2025

City of Canton – Community Development Department

Re: Proposed Development Master Plan – Longview Street, Canton, GA (Parcel 14N170 22G)

To Whom It May Concern:

This Letter of Intent supports the Master Plan submission for a proposed residential development located along Longview Street in the City of Canton. The project encompasses approximately 33.23 acres and is currently under ownership of Gamesa Properties. The applicant and developer is Pepe Medina.

The proposed development will introduce a mix of townhomes, duplexes, and single-family detached residences, along with stormwater facilities, roadways, and supporting infrastructure to the community. The site will be developed following Planned Development – Residential (PD-R) zoning district regulations in the City of Canton. Please note that due to the limited constructability of the site due to extreme topography has reduced the entire buildable area less than required by the City of Canton. This is a formal variance request to reduce the single-family total land area to 15%. Due to the same limitations as shown below the project consists of 44% open and green spaces/buffers which accounts for a large portion of the reduction.

The subject parcel (Cherokee County Parcel ID: 14N170 22G) is a wooded and undeveloped tract of land with no existing structures. It has been historically vacant and is now being considered for residential development in response to the community's growing housing needs. The area lies within the limits of the City of Canton, District 14, Land Lots 166 & 195.

A detailed traffic impact study will be submitted separately to the Planning and Zoning Department in accordance with City requirements. However, the following is a general overview:

- Trip Generation: The proposed mix of housing types is anticipated to generate moderate traffic volumes, consistent with other suburban residential developments.
- Peak Hour Impacts: Trips will be distributed across multiple access points via Longview Street, Dr. John T. Pettit St., proposed roundabouts and nearby collector roads.
- Road Network: The internal road system will meet City design standards and includes provisions for sidewalks and emergency access.
- Improvements: If warranted by the finalized traffic study, mitigation measures such as turn lanes, signage, or additional pedestrian enhancements will be proposed.

The project will enhance surrounding land values by converting an underutilized tract into a well-planned residential community.

The project proposes the following uses:

<u>Pod/Area Type</u>	<u>Use Description</u>	<u>Acreage (Approx.)</u>
Townhomes	4-story attached townhome buildings	4.9 acres
Duplexes	Side-by-side multi-family residences	2.32 acres
Single-Family Detached	Traditional standalone residential lots	5.26 acres
ROW	Public dedicated ROW	6.08 acres
Common Open Space & Buffers	Green spaces, stream buffers, future ponds	14.67 acres



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The project may be developed in two primary phases:

- Phase I: Grading, infrastructure, and townhome/duplex units (12–18 months)
- Phase II: Single-family lots, stormwater facilities, and landscape installation (additional 12 months)
- There are no proposed temporary uses during development.

- ✓ Total site area: 33.23 acres
- ✓ Total disturbed area: TBD
- ✓ Gross Density: ~4.3 dwelling units per acre (based on approx. 143 proposed units)
- ✓ Net Density: Varies by area, generally 6–8 units per acre for townhomes/duplexes and 3–4 for single-family
- ✓ Maximum Building Heights:
 - Townhomes: 60' (4 stories)
 - Duplexes & Single-Family: 40' (2.5 stories)
- ✓ Maximum Building Coverage: Approx. 11.6 acres (35%)
- ✓ Impervious Surface: Approx. 30%
- ✓ Open Space: Estimated 14.5 acres (~44%)
- ✓ Minimum Lot Sizes:
 - Townhomes: ~1,800 SF
 - Duplexes: ~3,000 SF
 - Single-Family: ~5,000 SF
- ✓ Setbacks:
 - Townhomes: 10' front, 0' sides, 0' rear;
 - Duplexes: 10' front, 0' sides, 0' rear;
 - Single-Family: 5' front, 5' sides, 30' rear
- ✓ Parking: 2 spaces/unit for all types + guest parking throughout

The development will include significant landscape buffers along property lines (50'), street trees, pocket parks, and stream corridor preservation. All landscaping will comply with the City of Canton's ordinance.

All proposed signage for this development will comply with the City of Canton sign ordinance. No signage is proposed at this time.

This Letter of Intent is respectfully submitted in support of the Master Plan. We look forward to working with the City of Canton and Planning Commission.

Sincerely,

Charles N. Herbert III, P.E.

**TRAFFIC IMPACT STUDY
FOR
PROPOSED RESIDENTIAL DEVELOPMENT ON CHEROKEE
STREET AT DR. JOHN T. PETTIT STREET**

CITY OF CANTON, GEORGIA



Prepared for:

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May 13, 2022
A & R Project # 22-068

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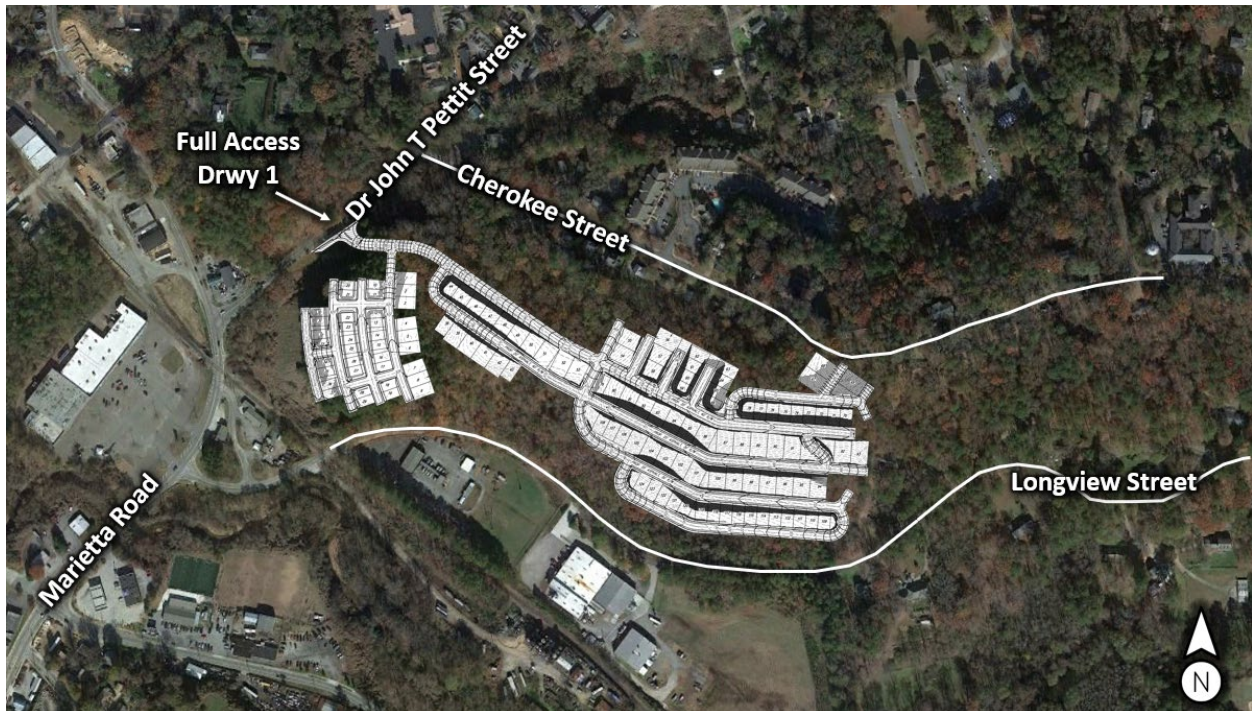
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1.0 INTRODUCTION

The purpose of this study is to determine the traffic impact of the proposed residential development, which is located along Cherokee Street, to the southeast of the intersection Cherokee Street and Dr. John T. Pettit Street in City of Canton, Georgia. The traffic analysis evaluates the current operations and future conditions with the traffic generated by the development. The proposed residential development will consist of:

- Single Family Detached Housing: 93 units
- Single Family Attached Housing: 31 units



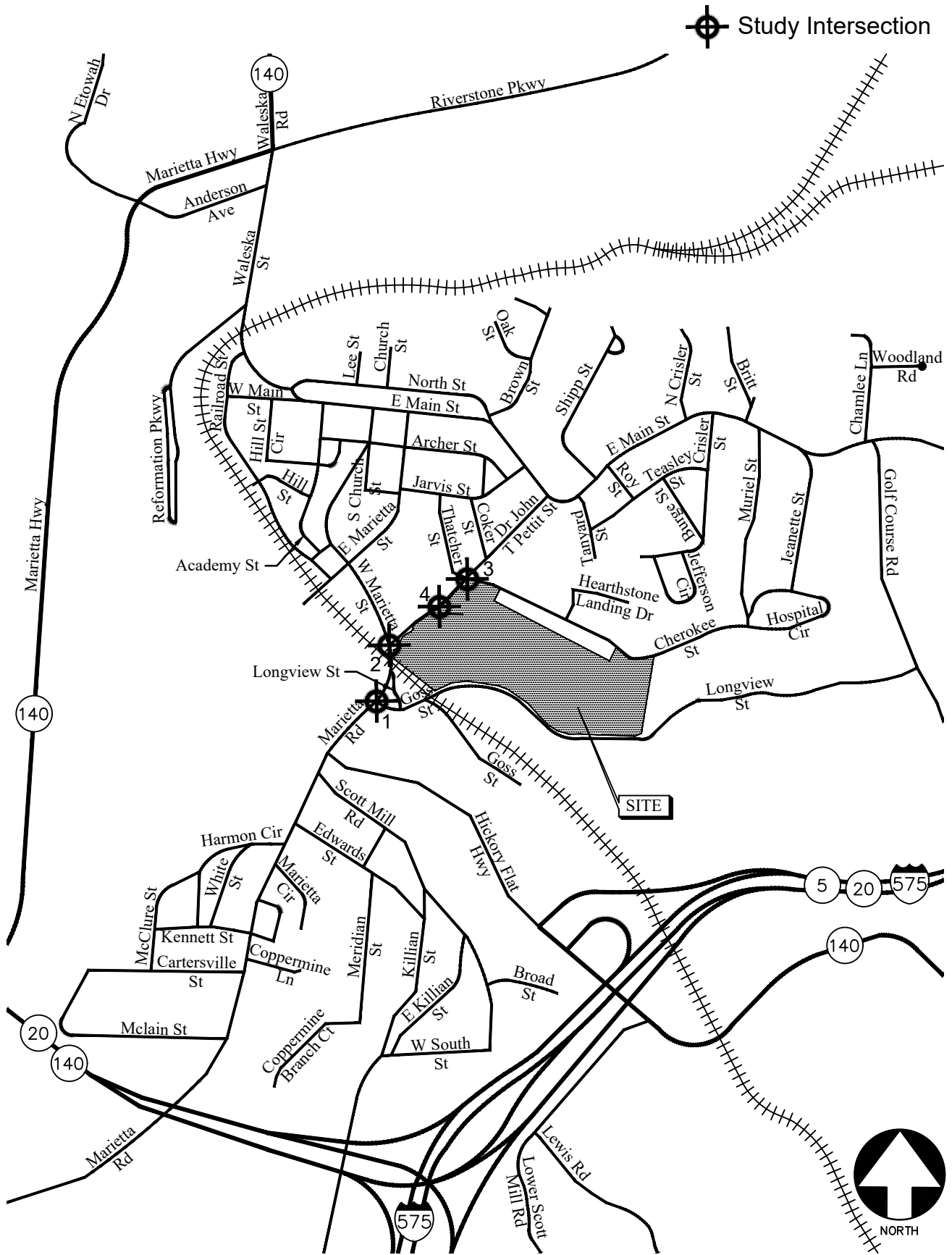
The development proposes access at the following locations:

- Site Driveway 1: Full Access Driveway on Dr. John T. Pettit Street

The AM and PM peak hours have been analyzed in this study. In addition to the site access points, this study includes the evaluation of traffic operations at the intersections of:

- Marietta Road at Goss Street (Longview Street) / Canton Village Driveway
- Marietta Road / W. Marietta Street at Dr. John T. Pettit Street
- Cherokee Street at Dr. John T. Pettit Street

Recommendations to improve traffic operations have been identified as appropriate and are discussed in detail in the following sections of the report. The location of the development and the surrounding roadway network is shown in Figure 1.



LOCATION MAP

FIGURE 1
A&R Engineering Inc.

2.0 EXISTING FACILITIES/CONDITIONS

2.1 Roadway Facilities

The following is a brief description of each of the roadway facilities located in proximity to the site:

2.1.1 Cherokee Street

Cherokee Street is an east-west, two-lane, un-divided roadway with a posted speed limit of 25 mph in the vicinity of the site.

2.1.2 Dr. John T. Pettit Street

Dr. John T. Pettit Street is a northeast-southwest, two-lane, un-divided roadway with a posted speed limit of 35 mph in the vicinity of the site. Georgia Department of Transportation (GDOT) traffic counts (Station ID 057-0275) indicate that the daily traffic volume on Dr. John T. Pettit Street in 2019 was 4,160 vehicles per day, south of Cherokee Street. GDOT classifies Dr. John T. Pettit Street as an Urban Minor Arterial roadway.

2.1.3 Marietta Road

Marietta Road is a north-south, two-lane, un-divided roadway with a posted speed limit of 35 mph in the vicinity of the site. Georgia Department of Transportation (GDOT) traffic counts (Station ID 057-0288) indicate that the daily traffic volume on Marietta Road in 2019 was 11,800 vehicles per day, north of Hickory Flat Highway. GDOT classifies Marietta Road as an Urban Minor Arterial roadway.

2.1.4 W. Marietta Street

W. Marietta Street is a north-south, two-lane, un-divided roadway with a posted speed limit of 30 mph in the vicinity of the site. Georgia Department of Transportation (GDOT) traffic counts (Station ID 057-0279) indicate that the daily traffic volume on W. Marietta Street in 2019 was 7,740 vehicles per day, northeast of Dr. John T. Pettit Street. GDOT classifies W. Marietta Street as an Urban Minor Arterial roadway.

2.1.5 Longview Street

Longview Street is an east-west, two-lane, un-divided roadway with a posted speed limit of 25 mph in the vicinity of the site.

2.1.6 Goss Street

Goss Street is an east-west, two-lane, un-divided roadway with a posted speed limit of 25 mph in the vicinity of the site.

3.0 STUDY METHODOLOGY

In this study, the methodology used for evaluating traffic operations at each of the subject intersections is based on the criteria set forth in the Transportation Research Board's Highway Capacity Manual, 6th edition (HCM 6). Synchro software, which utilizes the HCM methodology, was used for the analysis. The following is a description of the methodology employed for the analysis of unsignalized and signalized intersections.

3.1 Unsignalized Intersections

For unsignalized intersections controlled by a stop sign on minor streets, the level-of-service (LOS) for motor vehicles with controlled movements is determined by the computed control delay according to the thresholds stated in Table 1 below. LOS is determined for each minor street movement (or shared movement), as well as major street left turns. LOS is not defined for the intersection as a whole or for major street approaches. The LOS of any controlled movement which experiences a volume to capacity ratio greater than 1 is designated as "F" regardless of the control delay.

Control delay for unsignalized intersections includes initial deceleration delay, queue move-up time, stopped delay, and final acceleration delay. Several factors affect the control delay for unsignalized intersections, such as the availability and distribution of gaps in the conflicting traffic stream, critical gaps, and follow-up time for a vehicle in the queue.

Level-of-service is assigned a letter designation from "A" through "F". Level-of-service "A" indicates excellent operations with little delay to motorists, while level-of-service "F" exists when there are insufficient gaps of acceptable size to allow vehicles on the side street to cross the main road without experiencing long total delays.

TABLE 1 — LEVEL-OF-SERVICE CRITERIA FOR UNSIGNALIZED INTERSECTIONS		
Control Delay (sec/vehicle)	LOS by Volume-to-Capacity Ratio*	
	$v/c \leq 1.0$	$v/c \geq 1.0$
≤ 10	A	F
> 10 and ≤ 15	B	F
> 15 and ≤ 25	C	F
> 25 and ≤ 35	D	F
> 35 and ≤ 50	E	F
> 50	F	F

*The LOS criteria apply to each lane on a given approach and to each approach on the minor street. LOS is not calculated for major-street approaches or for the intersection.

Source: Highway Capacity Manual, 6th edition, Exhibit 20-2 *LOS Criteria: Motorized Vehicle Mode*

3.2 Signalized Intersections

According to HCM procedures, LOS can be calculated for the entire intersection, each intersection approach, and each lane group. HCM uses control delay alone to characterize LOS for the entire intersection or an approach. Control delay per vehicle is composed of initial deceleration delay, queue

move-up time, stopped delay, and final acceleration delay. Both control delay and volume-to-capacity ratio is used to characterize LOS for a lane group. A volume-to-capacity ratio of 1.0 or more for a lane group indicates failure from capacity perspective. Therefore, such a lane group is assigned LOS F regardless of the amount of control delay.

Table 2 below summarizes the LOS criteria from HCM for motorized vehicles at signalized intersection.

TABLE 2 — LEVEL-OF-SERVICE CRITERIA FOR SIGNALIZED INTERSECTIONS		
Control Delay (sec/vehicle)*	LOS for Lane Group by Volume-to-Capacity Ratio*	
	$v/c \leq 1.0$	$v/c \geq 1.0$
≤ 10	A	F
> 10 and ≤ 20	B	F
> 20 and ≤ 35	C	F
> 35 and ≤ 55	D	F
> 55 and ≤ 80	E	F
> 80	F	F

*For approach-based and intersection wide assessments, LOS is defined solely by control delay

Source: Highway Capacity Manual, 6th edition, Exhibit 19-8 *LOS Criteria: Motorized Vehicle Mode*

LOS A is typically assigned when the volume-to-capacity (v/c) ratio is low and either progression is exceptionally favorable, or the cycle length is very short. LOS B is typically assigned when the v/c ratio is low and either progression is highly favorable, or the cycle length is short. However, more vehicles are stopped than with LOS A. LOS C is typically assigned when progression is favorable, or the cycle length is moderate. Individual *cycle failures* (one or more queued vehicles are not able to depart because of insufficient capacity during the cycle) may begin to appear at this level. Many vehicles still pass through the intersection without stopping, but the number of vehicles stopping is significant. LOS D is typically assigned when the v/c ratio is high and either progression is ineffective, or the cycle length is long. There are many vehicle-stops and individual cycle failures are noticeable. LOS E is typically assigned when the v/c ratio is high, progression is very poor, the cycle length is long, and individual cycle failures are frequent. LOS F is typically assigned when the v/c ratio is very high, progression is very poor, the cycle length is long, and most cycles fail to clear the queue.

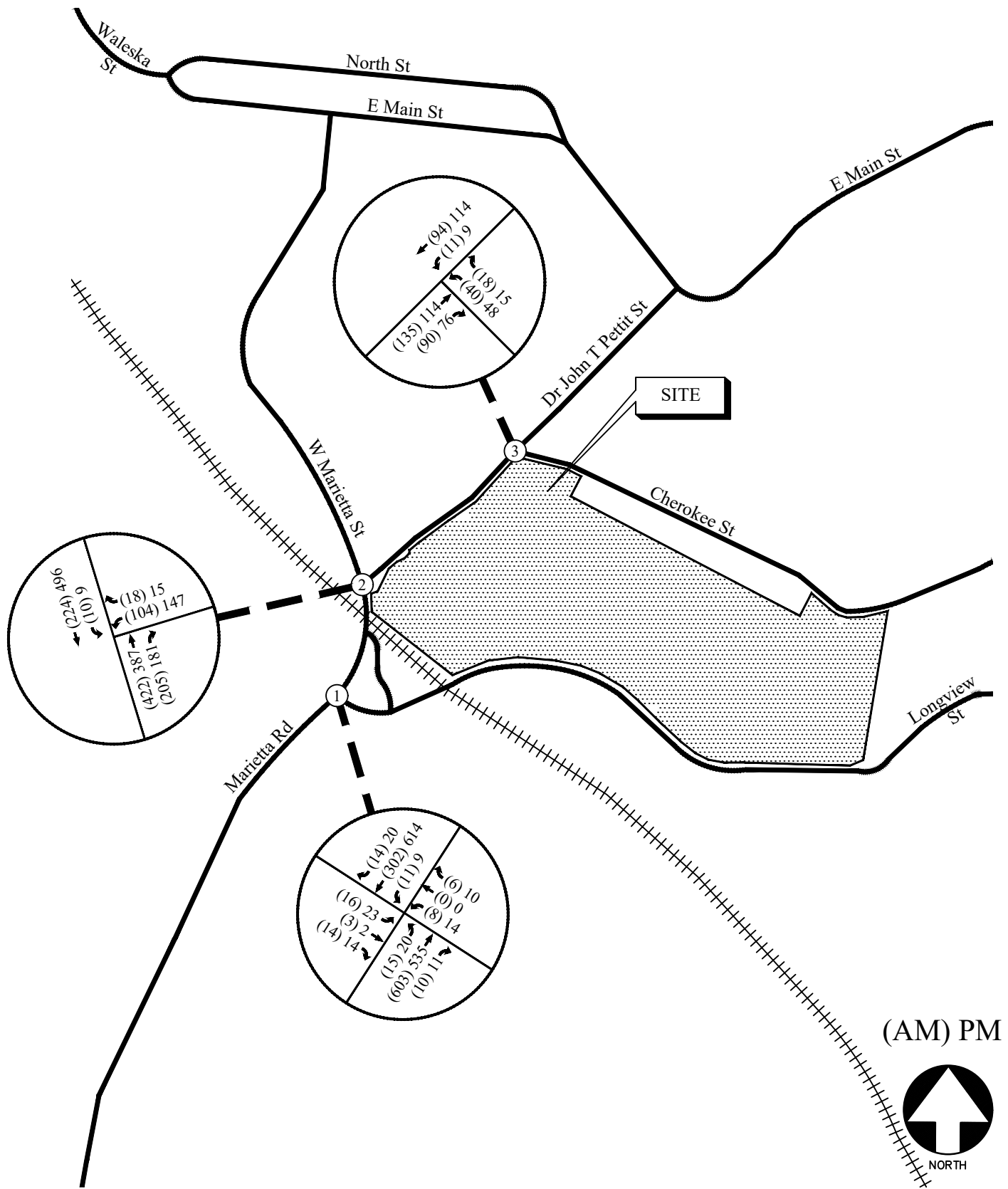
4.0 EXISTING 2022 TRAFFIC ANALYSIS

4.1 Existing Traffic Volumes

Existing traffic counts were obtained at the following study intersections:

- Marietta Road at Goss Street (Longview Street) / Canton Village Driveway
- Marietta Road / W. Marietta Street at Dr. John T. Pettit Street
- Cherokee Street at Dr. John T. Pettit Street

Turning movement counts were collected on Thursday, April 21, 2022. All turning movement counts were recorded during the AM and PM peak hours between 7:00 AM to 9:00 AM and 4:00 PM to 6:00 PM, respectively. The four consecutive 15-minute interval volumes that summed to produce the highest volume at the intersections were then determined. These volumes make up the peak hour traffic volumes for the intersections counted and are shown in Figure 2.



EXISTING WEEKDAY PEAK-HOUR VOLUMES

FIGURE 2
A&R Engineering Inc.




4.2 Existing Traffic Operations

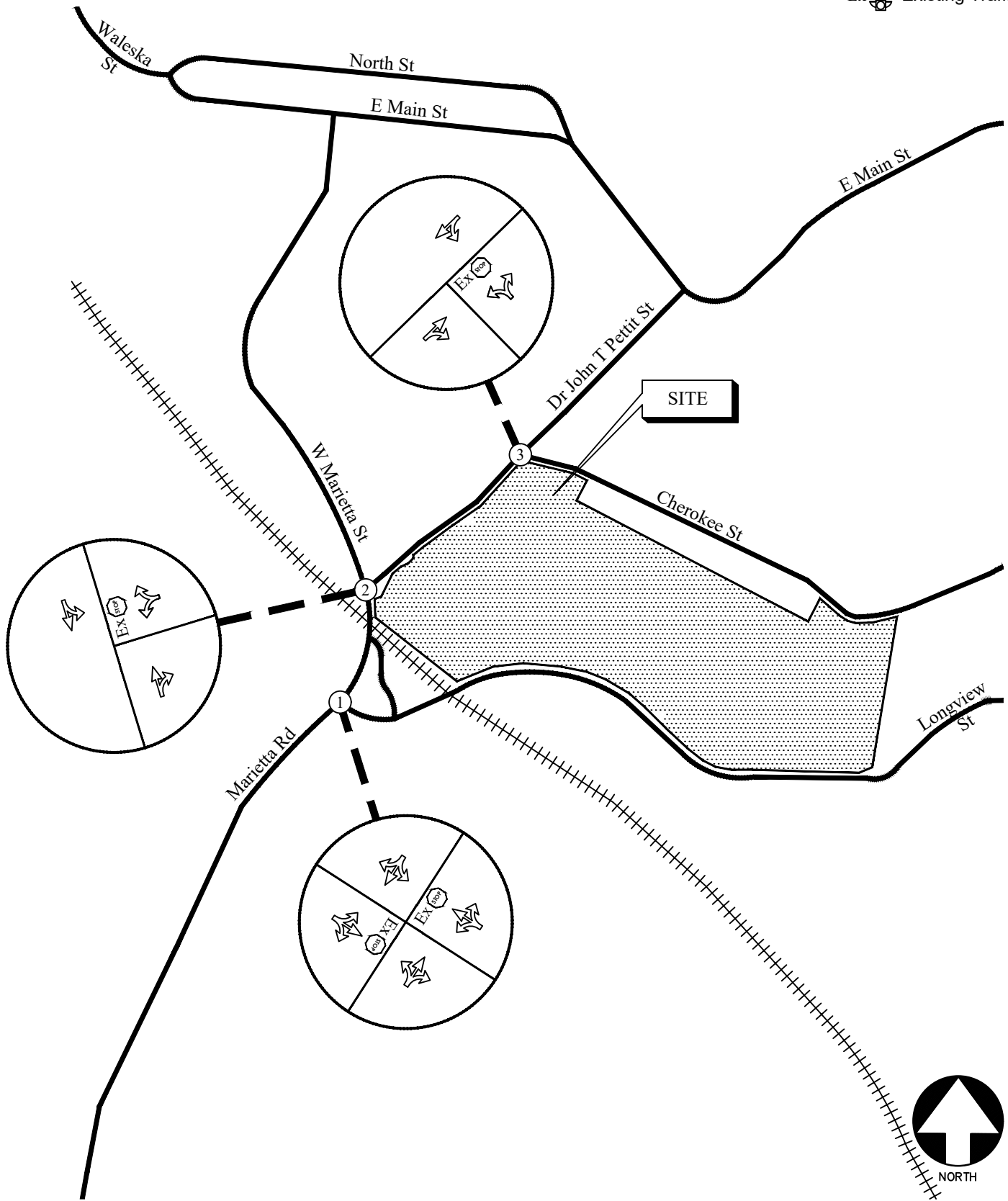
Existing 2022 traffic operations were analyzed at the study intersections in accordance with the HCM methodology. The results of the analysis are shown in Table 3. The existing traffic control and lane geometry for the intersections are shown in Figure 3

TABLE 3 — EXISTING INTERSECTION OPERATIONS				
Intersection		Traffic Control	LOS (Delay)	
			AM Peak Hour	PM Peak Hour
1	<u>Marietta Road @ Canton Village Driveway/Goss Street</u>	Stop Controlled on EB and WB Approaches		
	-Eastbound Approach		C (19.1)	D (29.3)
	-Westbound Approach		C (16.2)	D (22.5)
	-Northbound Left		A (8.0)	A (8.9)
	-Southbound Left		A (8.9)	A (8.6)
2	<u>Marietta Road / W. Marietta Street @ Dr. John T. Pettit Street</u>	Stop Controlled on WB Approach		
	-Westbound Approach		C (21.0)	E (40.2)
	-Southbound Left		A (9.0)	A (8.7)
3	<u>Cherokee Street @ Dr. John T. Pettit Street</u>	Stop Controlled on EB and WB Approaches		
	-Westbound Approach		B (10.6)	B (10.5)
	-Southbound Left		A (7.8)	A (7.6)

The results of the existing traffic operations analysis indicates that the study intersections are operating at level of service “D” or better in both the AM and PM peak hours, except the intersection at Marietta Road / W. Marietta Street and Dr. John T. Pettit Street westbound approach is operating at level-of-service “E” in the PM peak hour.

LEGEND

- Ex  Existing Signed Approach
-  Existing Lane Geometry
- Ex  Existing Traffic Signal



EXISTING TRAFFIC CONTROL AND LANE GEOMETRY

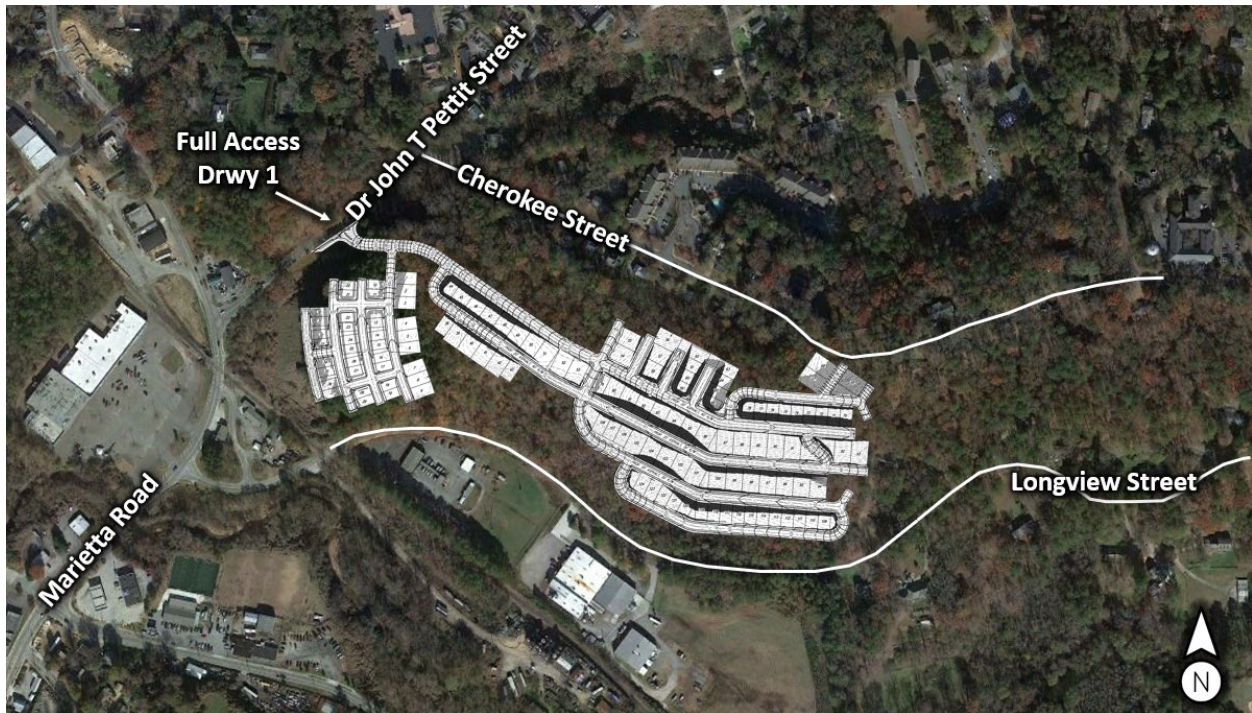
FIGURE 3

A&R Engineering Inc.

5.0 PROPOSED DEVELOPMENT

The residential development will consist of:

- Single Family Detached Housing: 93 units
- Single Family Attached Housing: 31 units

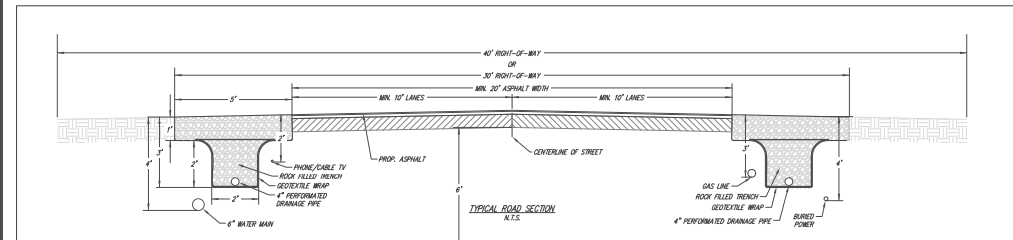


The development proposes access at the following locations:

- Site Driveway 1: Full Access Driveway on Dr. John T. Pettit Street

A site plan is shown in Figure 4.

CITY OF CANTON WATER/SEWER



11

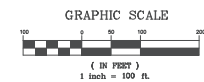


FIGURE 4
A&R Engineering Inc.

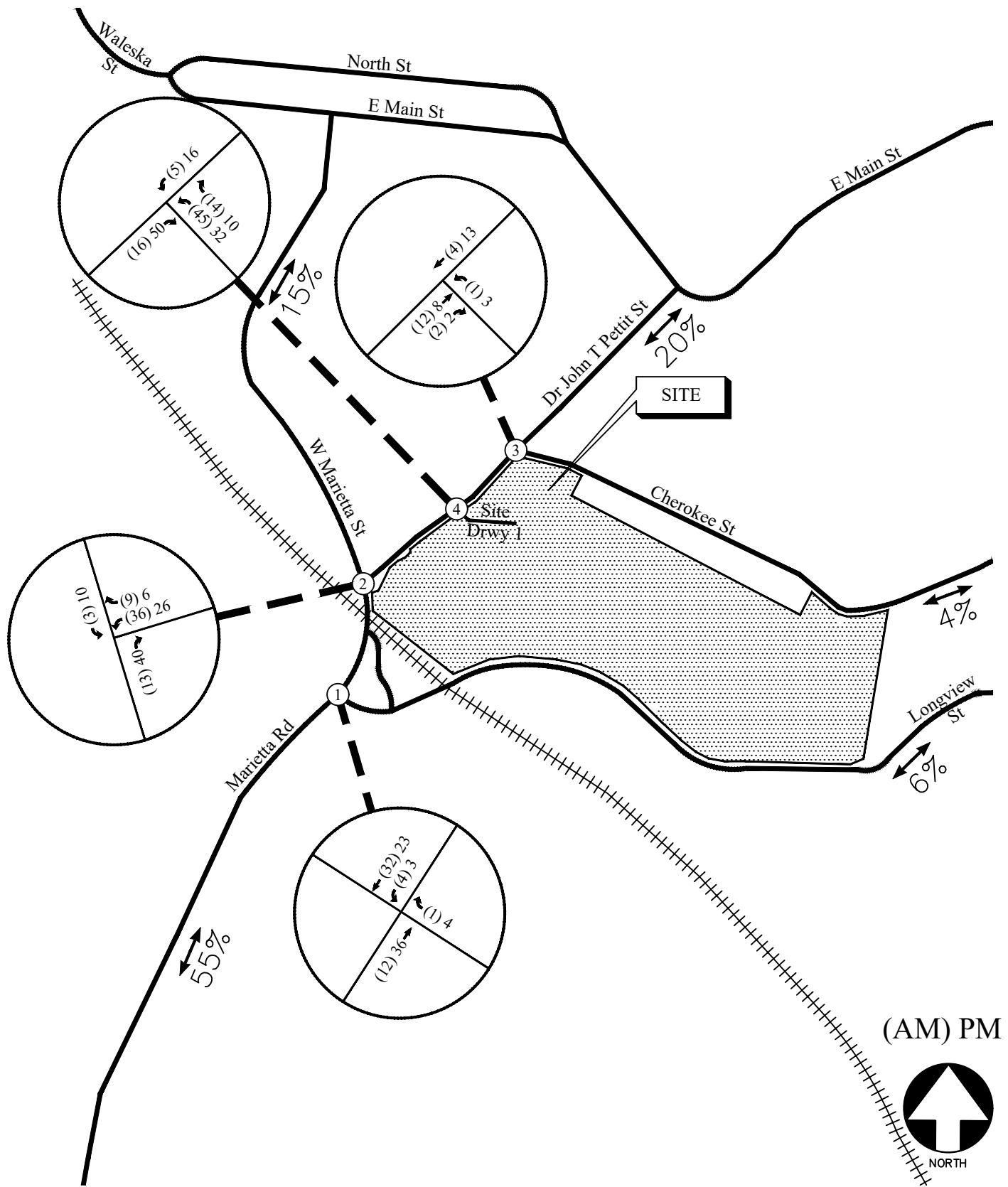
5.1 Trip Generation

Trip generation estimates for the project were based on the rates and equations published in the 11th edition of the Institute of Transportation Engineers (ITE) Trip Generation report. This reference contains traffic volume count data collected at similar facilities nationwide. The trip generation was based on the following ITE Land Uses: 210 – *Single-Family Detached Housing* and 215- *Single-Family Attached Housing*. The calculated total trip generation for the proposed development is shown in Table 4.

TABLE 4 – TRIP GENERATION								
Land Use	Size	AM Peak Hour			PM Peak Hour			24 Hour
		Enter	Exit	Total	Enter	Exit	Total	Two-way
ITE 210 – Single-Family Detached Housing	93 units	18	52	70	58	35	93	944
ITE 215 – Single-Family Attached Housing	31 units	3	7	10	8	7	15	186
Total Trips		21	59	80	66	42	108	1,130

5.2 Trip Distribution

The trip distribution describes how traffic arrives and departs from the site. An overall trip distribution was developed for the site based on a review of the existing travel patterns in the area and the locations of major roadways and highways that will serve the development. The site-generated peak hour traffic volumes, shown in Table 4, were assigned to the study area intersections based on this distribution. The outer-leg distribution and AM and PM peak hour new traffic generated by the site are shown in Figure 5.



TRIP DISTRIBUTION AND SITE-GENERATED
WEEKDAY PEAK HOUR VOLUMES

FIGURE 5
A&R Engineering Inc.

6.0 FUTURE 2024 TRAFFIC ANALYSIS

The future 2024 traffic operations are analyzed for the “Build” and “No-Build” conditions.

6.1 Future “No-Build” Conditions

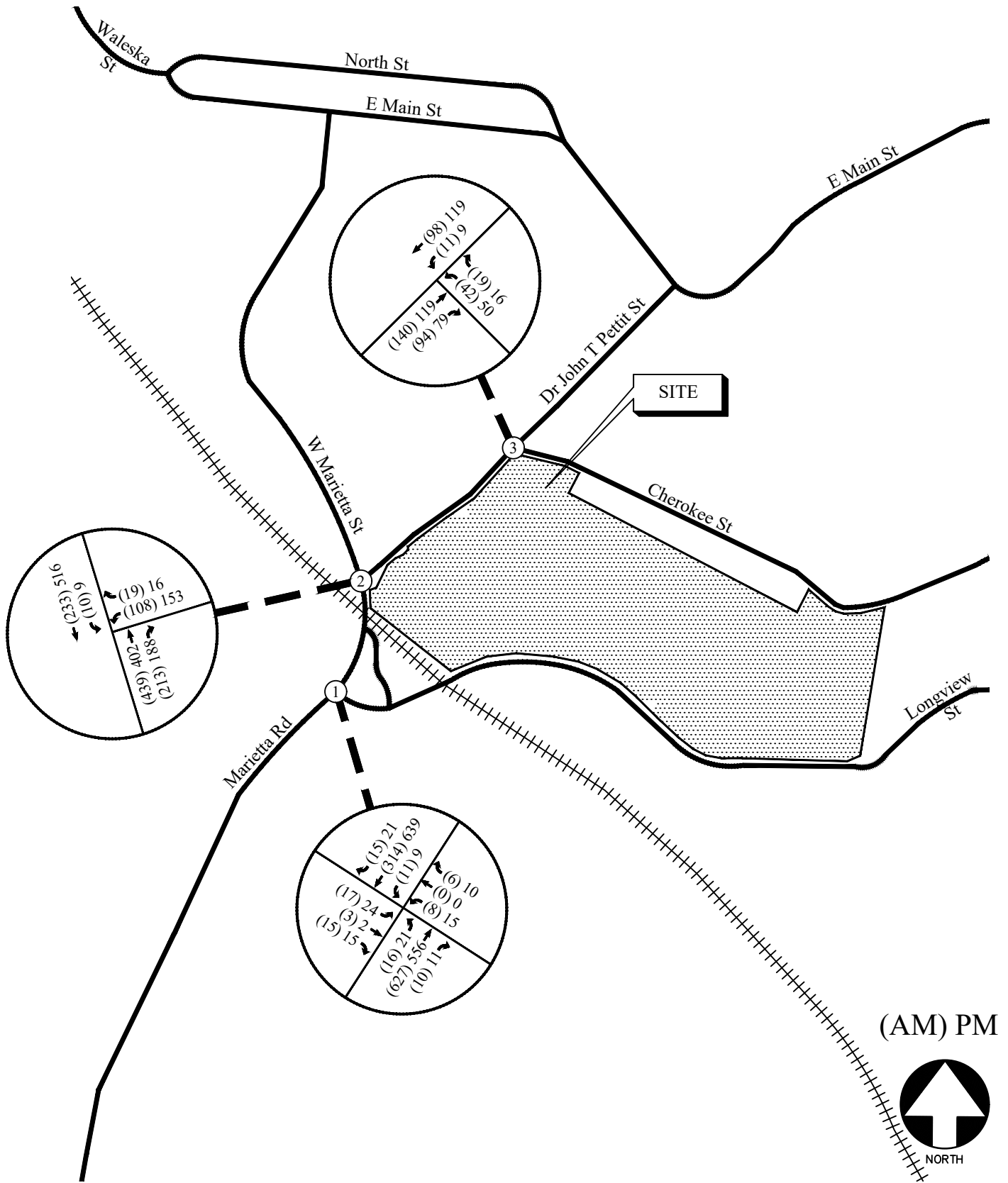
The “No-Build” (or background) conditions provide an assessment of how traffic will operate in the study horizon year without the study site being developed as proposed, with projected increases in through traffic volumes due to normal annual growth. The Future “No-Build” volumes consist of the existing traffic volumes (Figure 2) plus increases for annual growth of through traffic.

6.1.1 Annual Traffic Growth

To evaluate future traffic operations in this area, a projection of normal traffic growth was applied to the existing volumes. The Georgia Department of Transportation recorded average daily traffic volumes at several locations in the vicinity of the site. Reviewing the growth over the last three years revealed growth of approximately 2% in the area was used in the analysis. This growth factor was applied to the existing traffic volumes between collector and arterial roadways in order to estimate the future year traffic volumes prior to the addition of site-generated traffic. The resulting Future “No-Build” volumes on the roadway are shown in Figure 6.

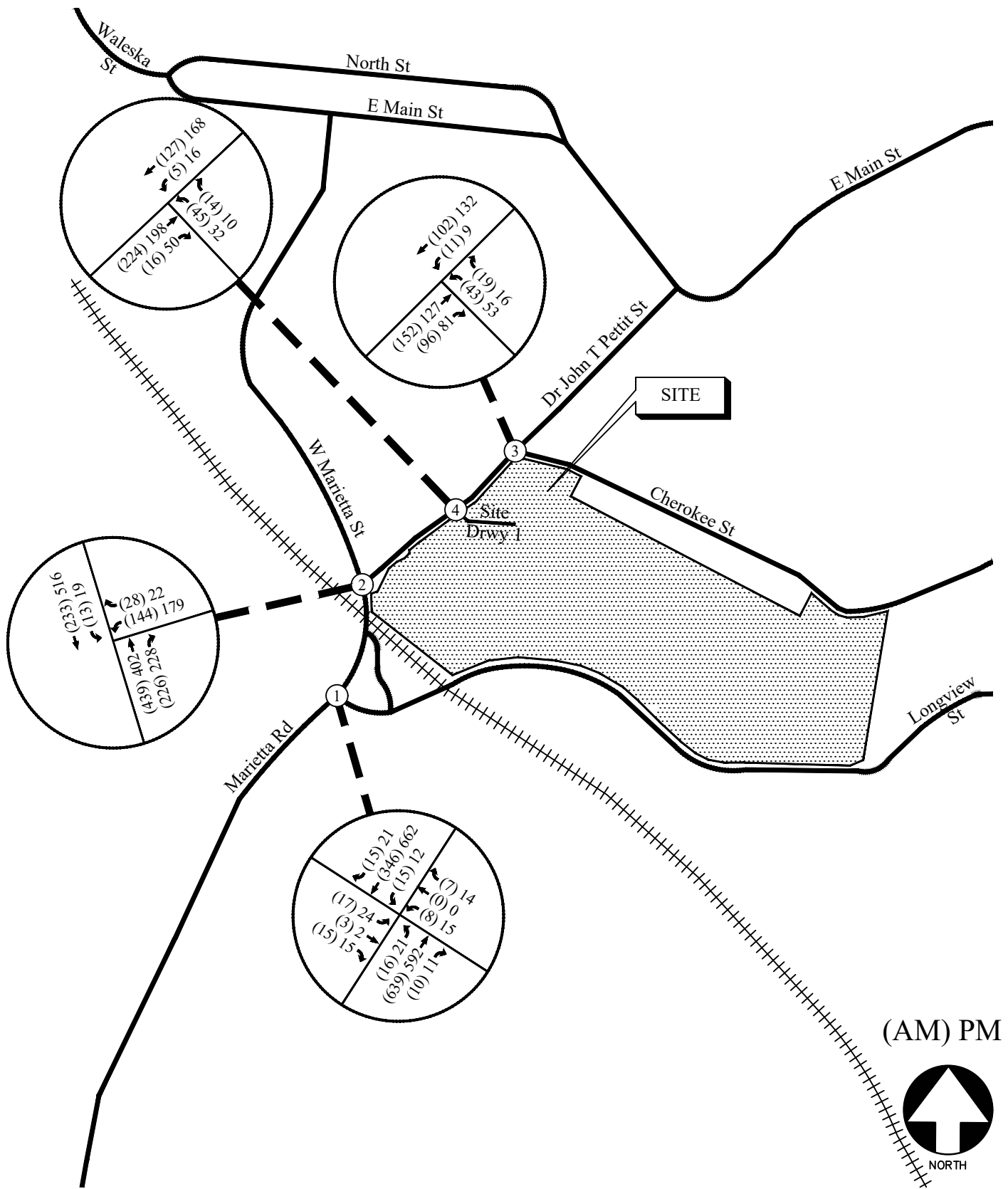
6.2 Future “Build” Conditions

The “Build” or development conditions include the estimated background traffic from the “No-Build” conditions plus the added traffic from the proposed development. In order to evaluate future traffic operations in this area, the additional traffic volumes from the site (Figure 5) were added to base traffic volumes (Figure 6) to calculate the future traffic volumes after the construction of the development. These total future “Build” traffic volumes are shown in Figure 7.



FUTURE (NO-BUILD) WEEKDAY PEAK HOUR VOLUMES

FIGURE 6
A&R Engineering Inc.



FUTURE (BUILD) WEEKDAY PEAK HOUR VOLUMES

FIGURE 7
A&R Engineering Inc.

6.3 Auxiliary Lane Analysis

Included below are analyses for left-turn lanes and deceleration lanes for all site driveways per GDOT standards. The analyses below are based off the trip distribution included in Section 5.2. According to the trip distribution, the 24-hour two-way volume entering and exiting of the site is 1,130 vehicles.

6.3.1 Left Turn Lane Analysis

According to GDOT standards, for a two-lane roadway with AADT's less than 6,000 vehicles, the threshold of daily site generated left-turn volume to warrant a left-turn lane is 300 vehicles for speed limit 25 mph and 35 mph. The projected left-turn volume per day for the proposed driveways is shown in Table 5.

Intersection	Left turn traffic (% total entering)	Left turn/ Roadway Direction	Left-turn Volume (vehicle/day)	Roadway Speed/ # lanes/AADT	GDOT Threshold (vehicle/day)	Warrant met?
Dr. John T. Pettit St @ Site Drwy 1	24%	Dr. John T. Pettit St (Southbound)	136 (Total trips) ÷ 2 × 0.24 = (1,130) ÷ 2 × 0.24 = 136	35 mph/ 2-lane/ < 6,000	300	No

A left turn lane is not warranted at any of the site driveways.

6.3.2 Deceleration Turn Lane Analysis

For two lane roadways with AADT's less than 6,000 vehicles and a posted speed limit of 25 mph and 35 mph, the threshold of daily site generated right-turn volume to warrant a right-turn lane is 200 vehicles. The projected right-turn volume per day for the proposed driveway is shown in Table 6.

Intersection	Right-turn traffic (% total entering)	Right turn/ Roadway Direction	Right-turn Volume (vehicle/day)	Roadway Speed/ # lanes/AADT	GDOT Threshold (vehicle/day)	Warrant met?
Dr. John T. Pettit St @ Site Drwy 1	76%	Dr. John T. Pettit St (Northbound)	429 (Total trips) ÷ 2 × 0.76 = (1,130) ÷ 2 × 0.76 = 429	35 mph/ 2-lane/ < 6,000	200	Yes

A deceleration lane is warranted at Site Driveway 1.

6.4 Future Traffic Operations

The future “No-Build” traffic operations were analyzed using the volumes in Figure 6.

6.4.1 Recommendations for System Improvements

A summary of the system improvements, which address deficiencies that are found within the existing road network for the “No-Build” conditions, is provided below. These are recommended for the local municipality to use in planning future transportation projects.

Summary of Recommended System Improvements

- Marietta Road / W. Marietta Street @ Dr. John T. Pettit Street
- Installation of a traffic signal if warranted

The results of “No-build” with and without system improvements are shown in Table 7.

TABLE 7 – FUTURE INTERSECTION OPERATIONS “NO BUILD”					
Intersection		No Build Condition: LOS (Delay)			
		NO IMPROVEMENTS		SYSTEM IMPROVEMENTS	
		AM Peak	PM Peak	AM Peak	PM Peak
1	<u>Marietta Road @ Canton Village Driveway/Goss Street</u>				
	-Eastbound Approach	C (20.2)	D (32.0)	C (20.2)	D (32.0)
	-Westbound Approach	C (17.1)	D (25.1)	C (17.1)	D (25.1)
	-Northbound Left	A (8.0)	A (9.0)	A (8.0)	A (9.0)
	-Southbound Left	A (9.0)	A (8.7)	A (9.0)	A (8.7)
2	<u>Marietta Road / W. Marietta Street @ Dr. John T. Pettit Street</u>			<u>A (7.4)</u>	<u>A (7.8)</u>
	-Westbound Approach	C (22.5)	E (48.0)	B (18.5)	B (16.8)
	-Northbound Approach	-	-	A (6.5)	A (6.9)
	-Southbound Left/Approach	A (9.1)	A (8.8)	A (3.9)	A (5.8)
3	<u>Cherokee Street @ Dr. John T. Pettit Street</u>				
	-Westbound Approach	B (10.7)	B (10.6)	B (10.7)	B (10.6)
	-Southbound Left	A (7.8)	A (7.7)	A (7.8)	A (7.7)

The results of future traffic operations analysis under no build condition with no improvements indicate that the stop controlled approaches at the un-signalized intersections will operate at level-of-service “E” or better in both the AM and PM peak hours. With improvements, the results indicate that the stop controlled approaches at the un-signalized intersections will operate at level-of-service “D” or better in both the AM and PM peak hours and the proposed signalized intersection at Marietta Road / W. Marietta Street and Dr. John T. Pettit Street will operate at overall level-of-service “A” in both the AM and PM peak hours.

The “Build” conditions are evaluated with added traffic from the proposed development and with system improvements. The future “Build” traffic operations were analyzed using the volumes in Figure 7 and the results are shown in Table 8 below.

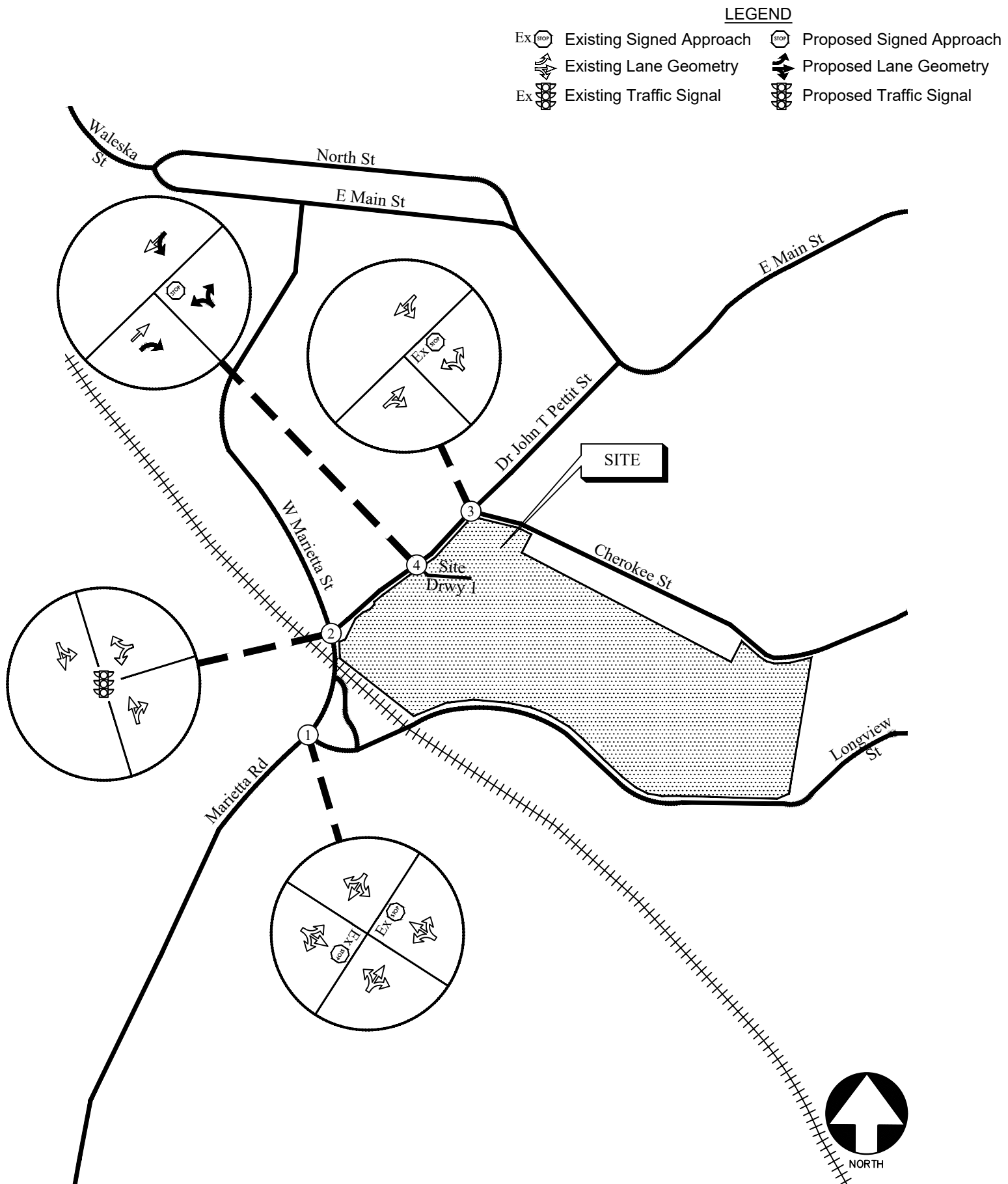
TABLE 8 – FUTURE INTERSECTION OPERATIONS “BUILD”

Intersection		Future Build Condition: LOS (Delay)			
		NO IMPROVEMENTS		SYSTEM IMPROVEMENTS	
		AM Peak	PM Peak	AM Peak	PM Peak
1	<u>Marietta Road @ Canton Village Driveway/Goss Street</u> -Eastbound Approach -Westbound Approach -Northbound Left -Southbound Left	C (21.8) C (17.3) A (8.1) A (9.1)	E (36.2) C (24.9) A (9.1) A (8.8)	C (21.8) C (17.3) A (8.1) A (9.1)	E (36.2) C (24.9) A (9.1) A (8.8)
2	<u>Marietta Road / W. Marietta Street @ Dr. John T. Pettit Street</u> -Westbound Approach -Northbound Approach -Southbound Left/Approach	D (28.1) - A (9.1)	F (79.8) - A (9.0)	<u>A (8.5)</u> B (18.7) A (7.4) A (4.4)	<u>A (8.5)</u> B (17.3) A (7.6) A (6.2)
3	<u>Cherokee Street @ Dr. John T. Pettit Street</u> -Westbound Approach -Southbound Left	B (10.9) A (7.8)	B (10.8) A (7.7)	B (10.9) A (7.8)	B (10.8) A (7.7)
4	<u>Dr. John T. Pettit Street @ Site Driveway 1</u> -Westbound Approach -Southbound Left	B (11.4) A (7.8)	B (11.3) A (7.8)	B (11.4) A (7.8)	B (11.3) A (7.8)

The results of future traffic operations analysis with no improvements indicate that the stop controlled approaches at the unsignalized intersections will operate at level-of-service “E” or better in both the AM and PM peak hours except the intersection of Marietta Road/W. Marietta Street at Dr John T. Pettit Street whose stop controlled westbound approach will operate at level-of-service “F” in the PM peak hour.

The results of future traffic operations analysis with system improvements indicate that the stop controlled approaches at the unsignalized intersections will operate at level-of-service “E” or better in both the AM and PM peak hours. With proposed signalized intersection at Marietta Road / W. Marietta Street and Dr. John T. Pettit Street, the results indicates that the intersection will operate at overall level-of-service “A” in both the AM and PM peak hours.

Recommendations for future traffic control and lane geometry is shown in Figure 8.



FUTURE TRAFFIC CONTROL AND LANE GEOMETRY

FIGURE 8
A&R Engineering Inc.

7.0 CONCLUSIONS AND RECOMMENDATIONS

Traffic impacts were evaluated for the proposed residential development that will be located along Cherokee Street, to the southeast of the intersection Cherokee Street at Dr. John T. Pettit Street in City of Canton, Georgia. The proposed residential development will consist of:

- Single Family Detached Housing: 93 units
- Single Family Attached Housing: 31 units

The development proposes access at the following locations:

- Site Driveway 1: Full Access Driveway on Dr. John T. Pettit Street

Existing and future operations after completion of the project were analyzed at the intersections of:

- Marietta Road at Goss Street (Longview Street) / Canton Village Southern Driveway
- Marietta Road / W. Marietta Street at Dr. John T. Pettit Street
- Cherokee Street at Dr. John T. Pettit Street
- Dr. John T. Pettit Street at Site Driveway 1

The analysis included the evaluation of future traffic operations for “No-Build” and “Build” conditions with and without improvements, the differences between “No-Build” and “Build” accounts for increases in traffic due to proposed site. The results of future traffic operations analysis indicate that the stop controlled approaches at the unsignalized intersections will operate at level-of-service “E” or better in both the AM and PM peak hours. With proposed signalized intersection at Marietta Road / W. Marietta Street and Dr. John T. Pettit Street, the results indicates that the intersection will operate at level-of-service “A” in both the AM and PM peak hours. Based on the analysis, the proposed development will have minimal impact on traffic operations in the study network.

7.1 Recommendation for Site Access Configuration

Site Driveway 1: Full Access Driveway on Dr. John T. Pettit Street

- One entering and one exiting lane.
- Stop-sign controlled on the driveway approach with Dr. John T. Pettit Street remaining free flow.
- Deceleration lane for entering traffic.
- Provide adequate sight distance per AASHTO standards.

7.2 Summary of Recommended System Improvements

- Marietta Road / W. Marietta Street @ Dr. John T. Pettit Street
 - Installation of a traffic signal if warranted

Appendix

Existing Intersection Traffic Counts	
Linear Regression of Daily Traffic.....	
Existing Intersection Analysis.....	
Future “No-Build” Intersection Analysis	
Future “Build” Intersection Analysis.....	
Traffic Volume Worksheets	

EXISTING INTERSECTION TRAFFIC COUNTS

A & R Engineering, Inc.

2160 Kingston Court, Suite 'O',
Marietta, GA 30067

TMC DATA
Dr. John T Pettit St @ Marietta Rd
7-9 am | 4-6 pm

File Name : 20220179
Site Code : 20220179
Start Date : 4/21/2022
Page No : 1

Groups Printed- Cars,Buses & Trucks

	Marietta Rd Northbound				Marietta St Southbound				Eastbound				Dr. John T Pettit St Westbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	71	37	108	1	64	0	65	0	0	0	0	33	0	2	35	208
07:15 AM	0	95	40	135	1	57	0	58	0	0	0	0	31	0	3	34	227
07:30 AM	0	102	47	149	2	57	0	59	0	0	0	0	33	0	7	40	248
07:45 AM	0	123	54	177	3	63	0	66	0	0	0	0	16	0	5	21	264
Total	0	391	178	569	7	241	0	248	0	0	0	0	113	0	17	130	947
08:00 AM	0	101	46	147	1	56	0	57	0	0	0	0	28	0	3	31	235
08:15 AM	0	96	58	154	4	48	0	52	0	0	0	0	27	0	3	30	236
08:30 AM	0	92	55	147	3	61	0	64	0	0	0	0	28	0	8	36	247
08:45 AM	0	91	55	146	3	61	0	64	0	0	0	0	28	0	9	37	247
Total	0	380	214	594	11	226	0	237	0	0	0	0	111	0	23	134	965
*** BREAK ***																	
04:00 PM	0	103	44	147	2	104	0	106	0	0	0	0	29	0	2	31	284
04:15 PM	0	99	41	140	1	101	0	102	0	0	0	0	38	0	6	44	286
04:30 PM	0	95	40	135	1	103	0	104	0	0	0	0	43	0	1	44	283
04:45 PM	0	102	38	140	4	111	0	115	0	0	0	0	38	0	3	41	296
Total	0	399	163	562	8	419	0	427	0	0	0	0	148	0	12	160	1149
05:00 PM	0	95	47	142	3	138	0	141	0	0	0	0	35	0	6	41	324
05:15 PM	0	99	50	149	0	126	0	126	0	0	0	0	39	0	2	41	316
05:30 PM	0	91	46	137	2	121	0	123	0	0	0	0	35	0	4	39	299
05:45 PM	0	86	42	128	1	116	0	117	0	0	0	0	29	0	3	32	277
Total	0	371	185	556	6	501	0	507	0	0	0	0	138	0	15	153	1216
Grand Total	0	1541	740	2281	32	1387	0	1419	0	0	0	0	510	0	67	577	4277
Apprch %	0	67.6	32.4		2.3	97.7	0		0	0	0		88.4	0	11.6		
Total %	0	36	17.3	53.3	0.7	32.4	0	33.2	0	0	0	0	11.9	0	1.6	13.5	

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7-9 am | 4-6 pm

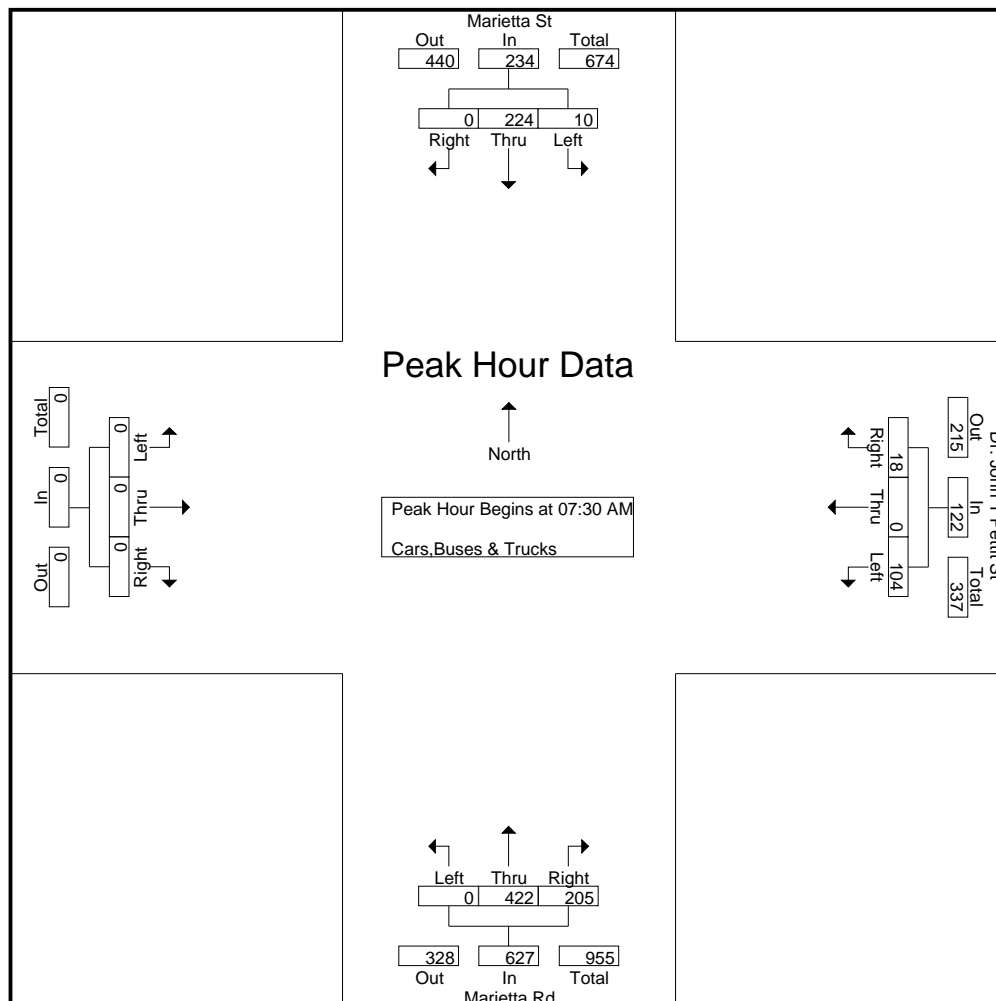
File Name : 20220179

Site Code : 20220179

Start Date : 4/21/2022

Page No : 2

	Marietta Rd Northbound				Marietta St Southbound				Eastbound				Dr. John T Pettit St Westbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	0	102	47	149	2	57	0	59	0	0	0	0	33	0	7	40	248
07:45 AM	0	123	54	177	3	63	0	66	0	0	0	0	16	0	5	21	264
08:00 AM	0	101	46	147	1	56	0	57	0	0	0	0	28	0	3	31	235
08:15 AM	0	96	58	154	4	48	0	52	0	0	0	0	27	0	3	30	236
Total Volume	0	422	205	627	10	224	0	234	0	0	0	0	104	0	18	122	983
% App. Total	0	67.3	32.7		4.3	95.7	0		0	0	0		85.2	0	14.8		
PHF	.000	.858	.884	.886	.625	.889	.000	.886	.000	.000	.000	.000	.788	.000	.643	.763	.931



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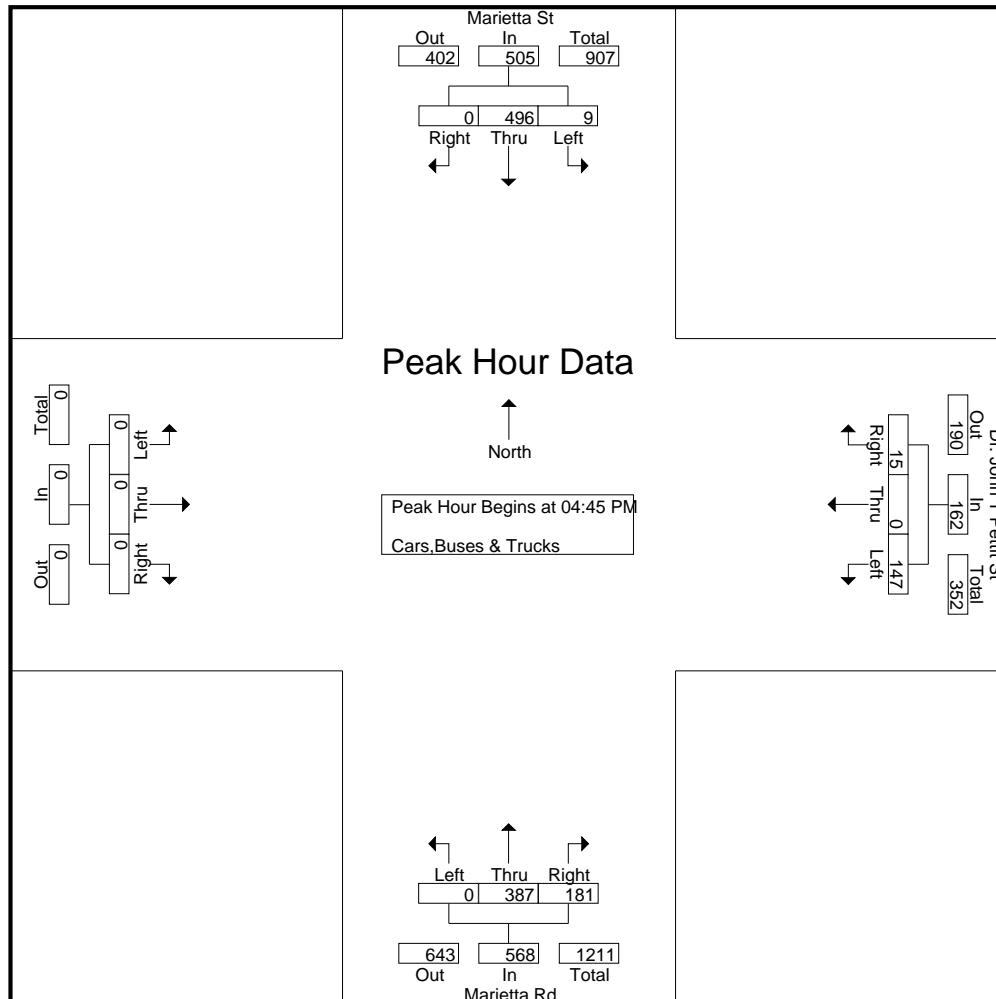
File Name : 20220179

Site Code : 20220179

Start Date : 4/21/2022

Page No : 3

	Marietta Rd Northbound				Marietta St Southbound				Eastbound				Dr. John T Pettit St Westbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	0	102	38	140	4	111	0	115	0	0	0	0	38	0	3	41	296
05:00 PM	0	95	47	142	3	138	0	141	0	0	0	0	35	0	6	41	324
05:15 PM	0	99	50	149	0	126	0	126	0	0	0	0	39	0	2	41	316
05:30 PM	0	91	46	137	2	121	0	123	0	0	0	0	35	0	4	39	299
Total Volume	0	387	181	568	9	496	0	505	0	0	0	0	147	0	15	162	1235
% App. Total	0	68.1	31.9		1.8	98.2	0		0	0	0		90.7	0	9.3		
PHF	.000	.949	.905	.953	.563	.899	.000	.895	.000	.000	.000	.000	.942	.000	.625	.988	.953



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TMC DATA

Dr. John T Pettit St @ Cherokee Street
7-9 am | 4-6 pm

File Name : 20220180

Site Code : 20220180

Start Date : 4/21/2022

Page No : 1

Groups Printed- Cars,Buses & Trucks

	Dr. John Pettit Street Northbound				Dr. John Pettit Street Southbound				Eastbound				Cherokee Street Westbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	23	15	38	1	25	0	26	0	0	0	0	11	0	2	13	77
07:15 AM	0	25	16	41	1	24	0	25	0	0	0	0	10	0	3	13	79
07:30 AM	0	29	20	49	2	28	0	30	0	0	0	0	12	0	4	16	95
07:45 AM	0	34	23	57	3	15	0	18	0	0	0	0	6	0	5	11	86
Total	0	111	74	185	7	92	0	99	0	0	0	0	39	0	14	53	337
08:00 AM	0	28	19	47	1	22	0	23	0	0	0	0	9	0	3	12	82
08:15 AM	0	37	25	62	4	21	0	25	0	0	0	0	9	0	3	12	99
08:30 AM	0	35	23	58	3	25	0	28	0	0	0	0	11	0	3	14	100
08:45 AM	0	35	23	58	3	26	0	29	0	0	0	0	11	0	9	20	107
Total	0	135	90	225	11	94	0	105	0	0	0	0	40	0	18	58	388
*** BREAK ***																	
04:00 PM	0	28	18	46	2	22	0	24	0	0	0	0	9	0	2	11	81
04:15 PM	0	25	17	42	1	31	0	32	0	0	0	0	13	0	6	19	93
04:30 PM	0	25	16	41	1	31	0	32	0	0	0	0	13	0	1	14	87
04:45 PM	0	25	17	42	4	29	0	33	0	0	0	0	12	0	3	15	90
Total	0	103	68	171	8	113	0	121	0	0	0	0	47	0	12	59	351
05:00 PM	0	30	20	50	3	29	0	32	0	0	0	0	12	0	6	18	100
05:15 PM	0	30	20	50	0	29	0	29	0	0	0	0	12	0	2	14	93
05:30 PM	0	29	19	48	2	27	0	29	0	0	0	0	12	0	4	16	93
05:45 PM	0	26	17	43	1	22	0	23	0	0	0	0	10	0	3	13	79
Total	0	115	76	191	6	107	0	113	0	0	0	0	46	0	15	61	365
Grand Total	0	464	308	772	32	406	0	438	0	0	0	0	172	0	59	231	1441
Apprch %	0	60.1	39.9		7.3	92.7	0		0	0	0		74.5	0	25.5		
Total %	0	32.2	21.4	53.6	2.2	28.2	0	30.4	0	0	0	0	11.9	0	4.1	16	

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Dr. John T Pettit St @ Cherokee Street
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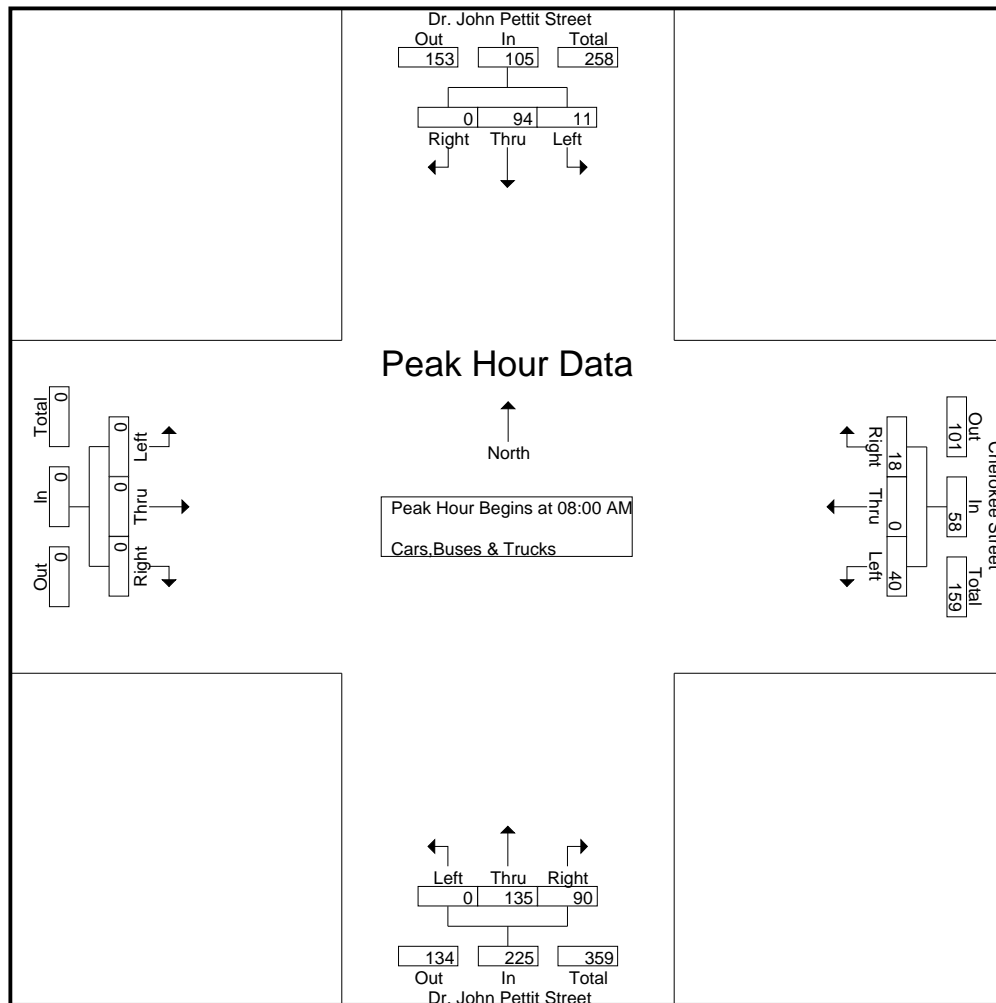
File Name : 20220180

Site Code : 20220180

Start Date : 4/21/2022

Page No : 2

	Dr. John Pettit Street Northbound				Dr. John Pettit Street Southbound				Eastbound				Cherokee Street Westbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 08:00 AM																	
08:00 AM	0	28	19	47	1	22	0	23	0	0	0	0	9	0	3	12	82
08:15 AM	0	37	25	62	4	21	0	25	0	0	0	0	9	0	3	12	99
08:30 AM	0	35	23	58	3	25	0	28	0	0	0	0	11	0	3	14	100
08:45 AM	0	35	23	58	3	26	0	29	0	0	0	0	11	0	9	20	107
Total Volume	0	135	90	225	11	94	0	105	0	0	0	0	40	0	18	58	388
% App. Total	0	60	40		10.5	89.5	0		0	0	0		69	0	31		
PHF	.000	.912	.900	.907	.688	.904	.000	.905	.000	.000	.000	.000	.909	.000	.500	.725	.907



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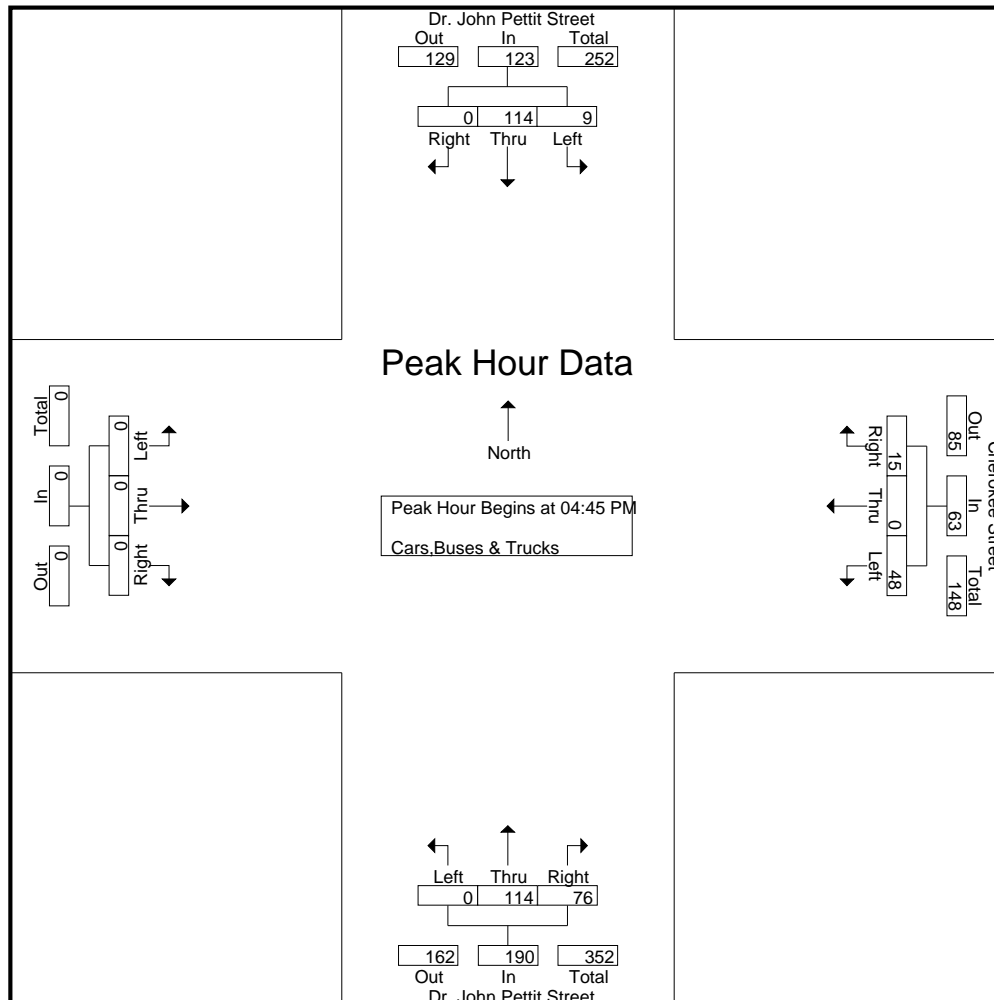
File Name : 20220180

Site Code : 20220180

Start Date : 4/21/2022

Page No : 3

	Dr. John Pettit Street Northbound				Dr. John Pettit Street Southbound				Eastbound				Cherokee Street Westbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	0	25	17	42	4	29	0	33	0	0	0	0	12	0	3	15	90
05:00 PM	0	30	20	50	3	29	0	32	0	0	0	0	12	0	6	18	100
05:15 PM	0	30	20	50	0	29	0	29	0	0	0	0	12	0	2	14	93
05:30 PM	0	29	19	48	2	27	0	29	0	0	0	0	12	0	4	16	93
Total Volume	0	114	76	190	9	114	0	123	0	0	0	0	48	0	15	63	376
% App. Total	0	60	40		7.3	92.7	0		0	0	0		76.2	0	23.8		
PHF	.000	.950	.950	.950	.563	.983	.000	.932	.000	.000	.000	.000	1.00	.000	.625	.875	.940



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TMC DATA

Marietta Rd @ Goss Street-Canton Village

7-9 am | 4-6 pm

File Name : 20220181

Site Code : 20220181

Start Date : 4/21/2022

Page No : 1

Groups Printed- Cars,Buses & Trucks

	Marietta Rd Northbound				Marietta Rd Southbound				Canton Village Driveway Eastbound				Goss Street Westbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	3	103	2	108	1	94	2	97	3	1	4	8	3	0	2	5	218
07:15 AM	4	131	3	138	1	84	3	88	2	0	3	5	2	0	2	4	235
07:30 AM	2	143	2	147	2	84	4	90	3	1	3	7	1	0	3	4	248
07:45 AM	5	172	1	178	3	72	4	79	4	1	5	10	2	0	1	3	270
Total	14	549	8	571	7	334	13	354	12	3	15	30	8	0	8	16	971
08:00 AM	3	142	3	148	1	80	3	84	3	0	4	7	2	0	2	4	243
08:15 AM	4	147	2	153	4	68	3	75	5	1	3	9	1	0	2	3	240
08:30 AM	3	142	4	149	3	82	4	89	4	1	2	7	3	0	1	4	249
08:45 AM	2	140	3	145	3	81	2	86	3	1	3	7	2	0	3	5	243
Total	12	571	12	595	11	311	12	334	15	3	12	30	8	0	8	16	975
*** BREAK ***																	
04:00 PM	4	139	2	145	2	127	4	133	5	0	4	9	3	0	3	6	293
04:15 PM	5	133	2	140	1	133	5	139	5	1	5	11	3	0	2	5	295
04:30 PM	4	125	3	132	1	141	4	146	6	0	3	9	4	0	4	8	295
04:45 PM	6	133	4	143	4	141	4	149	5	1	4	10	5	0	2	7	309
Total	19	530	11	560	8	542	17	567	21	2	16	39	15	0	11	26	1192
05:00 PM	5	132	2	139	3	165	5	173	7	0	2	9	4	0	3	7	328
05:15 PM	4	141	3	148	0	159	6	165	6	1	3	10	3	0	2	5	328
05:30 PM	5	129	2	136	2	149	5	156	5	0	5	10	2	0	3	5	307
05:45 PM	3	120	4	127	1	140	4	145	4	1	4	9	3	0	4	7	288
Total	17	522	11	550	6	613	20	639	22	2	14	38	12	0	12	24	1251
Grand Total	62	2172	42	2276	32	1800	62	1894	70	10	57	137	43	0	39	82	4389
Apprch %	2.7	95.4	1.8		1.7	95	3.3		51.1	7.3	41.6		52.4	0	47.6		
Total %	1.4	49.5	1	51.9	0.7	41	1.4	43.2	1.6	0.2	1.3	3.1	1	0	0.9	1.9	

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TMC DATA

Marietta Rd @ Goss Street-Canton Village

7-9 am | 4-6 pm

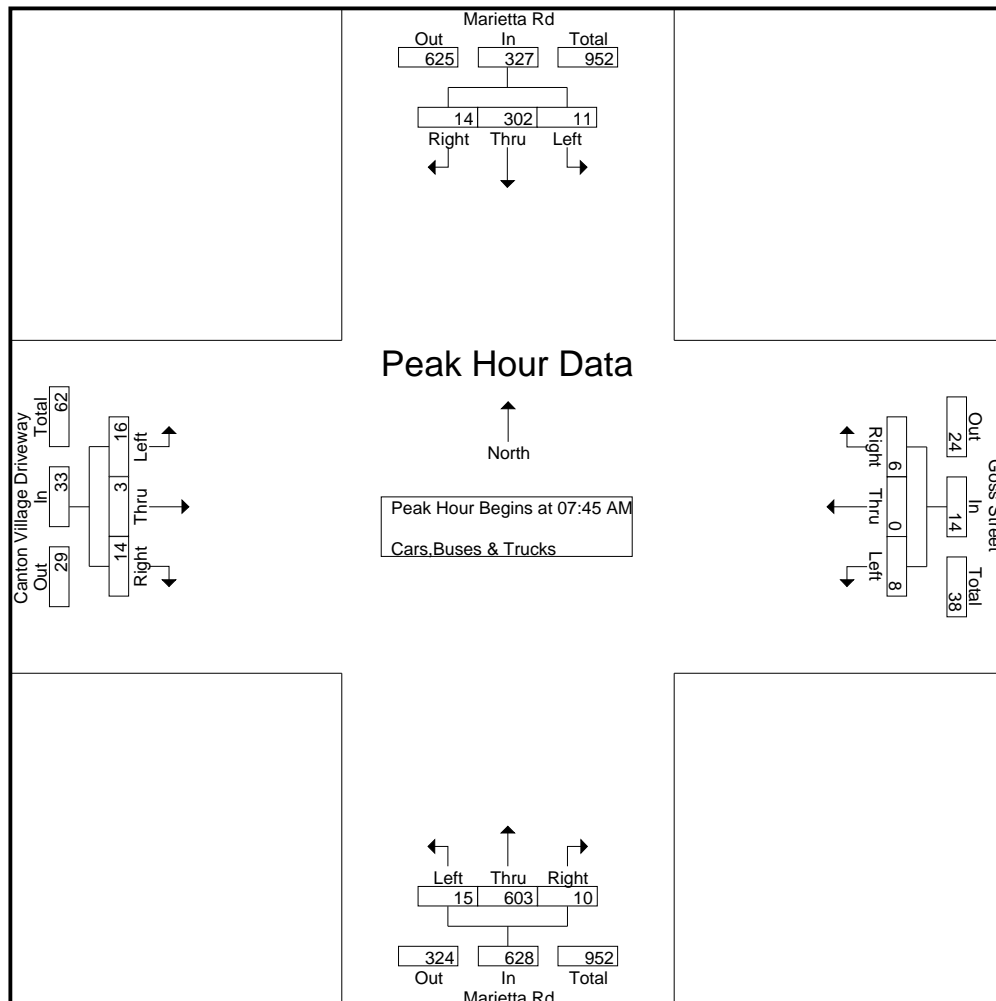
File Name : 20220181

Site Code : 20220181

Start Date : 4/21/2022

Page No : 2

	Marietta Rd Northbound				Marietta Rd Southbound				Canton Village Driveway Eastbound				Goss Street Westbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	5	172	1	178	3	72	4	79	4	1	5	10	2	0	1	3	270
08:00 AM	3	142	3	148	1	80	3	84	3	0	4	7	2	0	2	4	243
08:15 AM	4	147	2	153	4	68	3	75	5	1	3	9	1	0	2	3	240
08:30 AM	3	142	4	149	3	82	4	89	4	1	2	7	3	0	1	4	249
Total Volume	15	603	10	628	11	302	14	327	16	3	14	33	8	0	6	14	1002
% App. Total	2.4	96	1.6		3.4	92.4	4.3		48.5	9.1	42.4		57.1	0	42.9		
PHF	.750	.876	.625	.882	.688	.921	.875	.919	.800	.750	.700	.825	.667	.000	.750	.875	.928



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Marietta Rd @ Goss Street-Canton Village

7-9 am | 4-6 pm

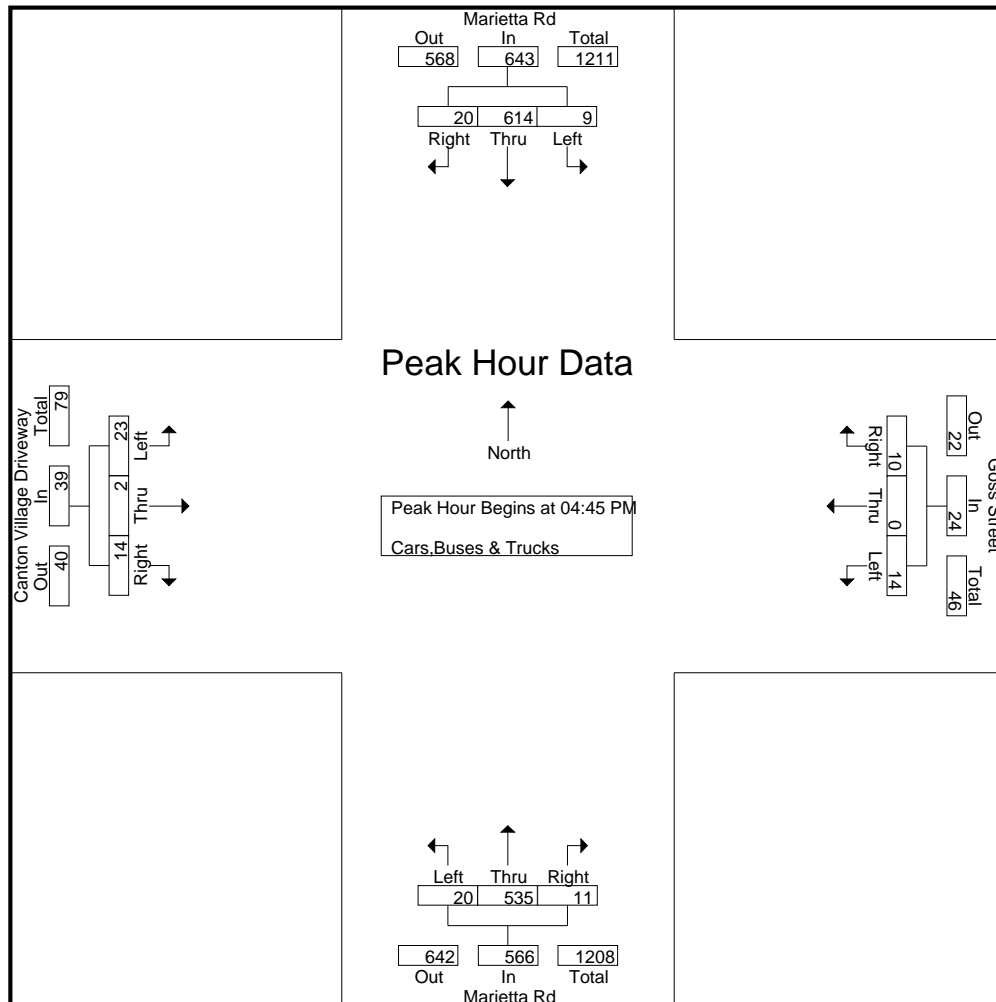
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Site Code : 20220181

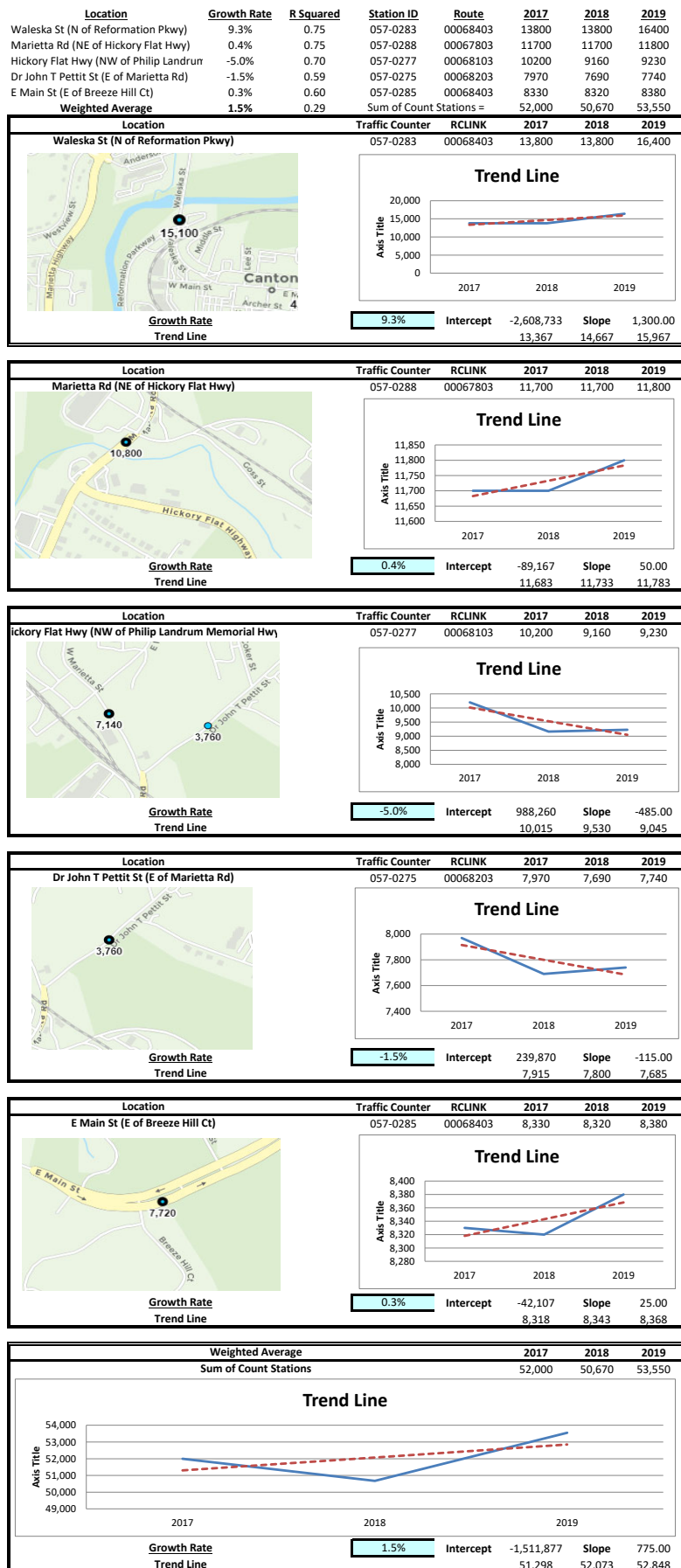
Start Date : 4/21/2022

Page No : 3

	Marietta Rd Northbound				Marietta Rd Southbound				Canton Village Driveway Eastbound				Goss Street Westbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	6	133	4	143	4	141	4	149	5	1	4	10	5	0	2	7	309
05:00 PM	5	132	2	139	3	165	5	173	7	0	2	9	4	0	3	7	328
05:15 PM	4	141	3	148	0	159	6	165	6	1	3	10	3	0	2	5	328
05:30 PM	5	129	2	136	2	149	5	156	5	0	5	10	2	0	3	5	307
Total Volume	20	535	11	566	9	614	20	643	23	2	14	39	14	0	10	24	1272
% App. Total	3.5	94.5	1.9		1.4	95.5	3.1		59	5.1	35.9		58.3	0	41.7		
PHF	.833	.949	.688	.956	.563	.930	.833	.929	.821	.500	.700	.975	.700	.000	.833	.857	.970









LINEAR REGRESSION OF DAILY TRAFFIC






EXISTING INTERSECTION ANALYSIS




Intersection												
Int Delay, s/veh	1.1											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	16	3	14	8	0	6	15	603	10	11	302	14
Future Vol, veh/h	16	3	14	8	0	6	15	603	10	11	302	14
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	-	-	Yield	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	93	93	93	93	93	93	93	93	93	93	93	93
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	17	3	15	9	0	6	16	648	11	12	325	15
Major/Minor	Minor2		Minor1		Major1		Major2					
Conflicting Flow All	1043	1048	333	1052	1050	654	340	0	0	659	0	0
Stage 1	357	357	-	686	686	-	-	-	-	-	-	-
Stage 2	686	691	-	366	364	-	-	-	-	-	-	-
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	207	228	709	204	227	467	1219	-	-	929	-	-
Stage 1	661	628	-	438	448	-	-	-	-	-	-	-
Stage 2	438	446	-	653	624	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	199	220	709	192	219	467	1219	-	-	929	-	-
Mov Cap-2 Maneuver	199	220	-	192	219	-	-	-	-	-	-	-
Stage 1	647	618	-	429	439	-	-	-	-	-	-	-
Stage 2	423	437	-	626	614	-	-	-	-	-	-	-
Approach	EB		WB		NB		SB					
HCM Control Delay, s	19.1		16.2		0.2		0.3					
HCM LOS	C		C									
Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1WBLn1	SBL	SBT	SBR					
Capacity (veh/h)	1219	-	-	290	336	929	-	-				
HCM Lane V/C Ratio	0.013	-	-	0.122	0.045	0.013	-	-				
HCM Control Delay (s)	8	0	-	19.1	16.2	8.9	0	-				
HCM Lane LOS	A	A	-	C	C	A	A	-				
HCM 95th %tile Q(veh)	0	-	-	0.4	0.1	0	-	-				

Intersection						
Int Delay, s/veh	2.7					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	104	18	422	205	10	224
Future Vol, veh/h	104	18	422	205	10	224
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	93	93	93	93	93	93
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	112	19	454	220	11	241
Major/Minor	Minor1	Major1	Major2			
Conflicting Flow All	827	564	0	0	674	0
Stage 1	564	-	-	-	-	-
Stage 2	263	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	341	525	-	-	917	-
Stage 1	569	-	-	-	-	-
Stage 2	781	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	336	525	-	-	917	-
Mov Cap-2 Maneuver	336	-	-	-	-	-
Stage 1	569	-	-	-	-	-
Stage 2	770	-	-	-	-	-
Approach	WB	NB	SB			
HCM Control Delay, s	21	0	0.4			
HCM LOS	C					
Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT		
Capacity (veh/h)	-	-	355	917	-	
HCM Lane V/C Ratio	-	-	0.37	0.012	-	
HCM Control Delay (s)	-	-	21	9	0	
HCM Lane LOS	-	-	C	A	A	
HCM 95th %tile Q(veh)	-	-	1.7	0	-	

Intersection						
Int Delay, s/veh	1.8					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	40	18	135	90	11	94
Future Vol, veh/h	40	18	135	90	11	94
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	91	91	91	91	91	91
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	44	20	148	99	12	103
Major/Minor	Minor1	Major1	Major2			
Conflicting Flow All	325	198	0	0	247	0
Stage 1	198	-	-	-	-	-
Stage 2	127	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	669	843	-	-	1319	-
Stage 1	835	-	-	-	-	-
Stage 2	899	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	662	843	-	-	1319	-
Mov Cap-2 Maneuver	662	-	-	-	-	-
Stage 1	835	-	-	-	-	-
Stage 2	890	-	-	-	-	-
Approach	WB	NB		SB		
HCM Control Delay, s	10.6	0		0.8		
HCM LOS	B					
Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT		
Capacity (veh/h)	-	-	709	1319	-	
HCM Lane V/C Ratio	-	-	0.09	0.009	-	
HCM Control Delay (s)	-	-	10.6	7.8	0	
HCM Lane LOS	-	-	B	A	A	
HCM 95th %tile Q(veh)	-	-	0.3	0	-	




Intersection												
Int Delay, s/veh	1.5											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	23	2	14	14	0	10	20	535	11	9	614	20
Future Vol, veh/h	23	2	14	14	0	10	20	535	11	9	614	20
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	-	-	Yield	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	97	97	97	97	97	97	97	97	97	97	97	97
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	24	2	14	14	0	10	21	552	11	9	633	21
Major/Minor	Minor2		Minor1		Major1		Major2					
Conflicting Flow All	1262	1267	644	1270	1272	558	654	0	0	563	0	0
Stage 1	662	662	-	600	600	-	-	-	-	-	-	-
Stage 2	600	605	-	670	672	-	-	-	-	-	-	-
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	147	169	473	145	168	529	933	-	-	1008	-	-
Stage 1	451	459	-	488	490	-	-	-	-	-	-	-
Stage 2	488	487	-	446	454	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	139	161	473	134	160	529	933	-	-	1008	-	-
Mov Cap-2 Maneuver	139	161	-	134	160	-	-	-	-	-	-	-
Stage 1	436	453	-	472	474	-	-	-	-	-	-	-
Stage 2	463	471	-	424	448	-	-	-	-	-	-	-
Approach	EB		WB		NB		SB					
HCM Control Delay, s	29.3		22.5		0.3		0.1					
HCM LOS	D		C									
Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1WBLn1	SBL	SBT	SBR					
Capacity (veh/h)	933	-	-	188	230	1008	-	-				
HCM Lane V/C Ratio	0.022	-	-	0.214	0.108	0.009	-	-				
HCM Control Delay (s)	8.9	0	-	29.3	22.5	8.6	0	-				
HCM Lane LOS	A	A	-	D	C	A	A	-				
HCM 95th %tile Q(veh)	0.1	-	-	0.8	0.4	0	-	-				

Intersection						
Int Delay, s/veh	5.4					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	147	15	387	181	9	496
Future Vol, veh/h	147	15	387	181	9	496
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	155	16	407	191	9	522
Major/Minor	Minor1	Major1		Major2		
Conflicting Flow All	1043	503	0	0	598	0
Stage 1	503	-	-	-	-	-
Stage 2	540	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	254	569	-	-	979	-
Stage 1	607	-	-	-	-	-
Stage 2	584	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	251	569	-	-	979	-
Mov Cap-2 Maneuver	251	-	-	-	-	-
Stage 1	607	-	-	-	-	-
Stage 2	576	-	-	-	-	-
Approach	WB	NB		SB		
HCM Control Delay, s	40.2	0		0.2		
HCM LOS	E					
Minor Lane/Major Mvmt	NBT	NBRWBLn1		SBL	SBT	
Capacity (veh/h)	-	- 265		979	-	
HCM Lane V/C Ratio	-	- 0.643		0.01	-	
HCM Control Delay (s)	-	- 40.2		8.7	0	
HCM Lane LOS	-	- E		A	A	
HCM 95th %tile Q(veh)	-	- 4		0	-	

Intersection						
Int Delay, s/veh	2					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	48	15	114	76	9	114
Future Vol, veh/h	48	15	114	76	9	114
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	94	94	94	94	94	94
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	51	16	121	81	10	121
Major/Minor	Minor1	Major1		Major2		
Conflicting Flow All	303	162	0	0	202	0
Stage 1	162	-	-	-	-	-
Stage 2	141	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	689	883	-	-	1370	-
Stage 1	867	-	-	-	-	-
Stage 2	886	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	683	883	-	-	1370	-
Mov Cap-2 Maneuver	683	-	-	-	-	-
Stage 1	867	-	-	-	-	-
Stage 2	879	-	-	-	-	-
Approach	WB	NB		SB		
HCM Control Delay, s	10.5	0		0.6		
HCM LOS	B					
Minor Lane/Major Mvmt	NBT	NBRWBLn1		SBL	SBT	
Capacity (veh/h)	-	722		1370	-	
HCM Lane V/C Ratio	-	0.093		0.007	-	
HCM Control Delay (s)	-	10.5		7.6	0	
HCM Lane LOS	-	B		A	A	
HCM 95th %tile Q(veh)	-	0.3		0	-	

**FUTURE “NO-BUILD” INTERSECTION
ANALYSIS**




Intersection												
Int Delay, s/veh	1.1											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	17	3	15	8	0	6	16	627	10	11	314	15
Future Vol, veh/h	17	3	15	8	0	6	16	627	10	11	314	15
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	-	-	Yield	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	93	93	93	93	93	93	93	93	93	93	93	93
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	18	3	16	9	0	6	17	674	11	12	338	16
Major/Minor	Minor2		Minor1		Major1		Major2					
Conflicting Flow All	1084	1089	346	1094	1092	680	354	0	0	685	0	0
Stage 1	370	370	-	714	714	-	-	-	-	-	-	-
Stage 2	714	719	-	380	378	-	-	-	-	-	-	-
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	194	215	697	191	215	451	1205	-	-	908	-	-
Stage 1	650	620	-	422	435	-	-	-	-	-	-	-
Stage 2	422	433	-	642	615	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	186	207	697	179	207	451	1205	-	-	908	-	-
Mov Cap-2 Maneuver	186	207	-	179	207	-	-	-	-	-	-	-
Stage 1	635	610	-	412	425	-	-	-	-	-	-	-
Stage 2	406	423	-	614	605	-	-	-	-	-	-	-
Approach	EB		WB		NB		SB					
HCM Control Delay, s	20.2		17.1		0.2		0.3					
HCM LOS	C		C									
Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1WBLn1	SBL	SBT	SBR					
Capacity (veh/h)	1205	-	-	275	313	908	-	-				
HCM Lane V/C Ratio	0.014	-	-	0.137	0.048	0.013	-	-				
HCM Control Delay (s)	8	0	-	20.2	17.1	9	0	-				
HCM Lane LOS	A	A	-	C	C	A	A	-				
HCM 95th %tile Q(veh)	0	-	-	0.5	0.2	0	-	-				

Intersection						
Int Delay, s/veh	2.9					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	108	19	439	213	10	233
Future Vol, veh/h	108	19	439	213	10	233
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	93	93	93	93	93	93
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	116	20	472	229	11	251

Major/Minor	Minor1	Major1	Major2		
Conflicting Flow All	860	587	0	0	701
Stage 1	587	-	-	-	-
Stage 2	273	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12
Critical Hdwy Stg 1	5.42	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218
Pot Cap-1 Maneuver	326	510	-	-	896
Stage 1	556	-	-	-	-
Stage 2	773	-	-	-	-
Platoon blocked, %			-	-	-
Mov Cap-1 Maneuver	321	510	-	-	896
Mov Cap-2 Maneuver	321	-	-	-	-
Stage 1	556	-	-	-	-
Stage 2	762	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	22.5	0	0.4
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT
Capacity (veh/h)	-	-	340	896
HCM Lane V/C Ratio	-	-	0.402	0.012
HCM Control Delay (s)	-	-	22.5	9.1
HCM Lane LOS	-	-	C	A
HCM 95th %tile Q(veh)	-	-	1.9	0




Intersection						
Int Delay, s/veh	1.8					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	42	19	140	94	11	98
Future Vol, veh/h	42	19	140	94	11	98
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	91	91	91	91	91	91
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	46	21	154	103	12	108
Major/Minor	Minor1	Major1		Major2		
Conflicting Flow All	338	206	0	0	257	0
Stage 1	206	-	-	-	-	-
Stage 2	132	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	658	835	-	-	1308	-
Stage 1	829	-	-	-	-	-
Stage 2	894	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	651	835	-	-	1308	-
Mov Cap-2 Maneuver	651	-	-	-	-	-
Stage 1	829	-	-	-	-	-
Stage 2	885	-	-	-	-	-
Approach	WB	NB		SB		
HCM Control Delay, s	10.7	0		0.8		
HCM LOS	B					
Minor Lane/Major Mvmt	NBT	NBRWBLn1		SBL	SBT	
Capacity (veh/h)	-	-		699	1308	
HCM Lane V/C Ratio	-	-		0.096	0.009	
HCM Control Delay (s)	-	-		10.7	7.8	
HCM Lane LOS	-	-		B	A	
HCM 95th %tile Q(veh)	-	-		0.3	0	




Intersection												
Int Delay, s/veh	1.6											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	24	2	15	15	0	10	21	556	11	9	639	21
Future Vol, veh/h	24	2	15	15	0	10	21	556	11	9	639	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	-	-	Yield	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	97	97	97	97	97	97	97	97	97	97	97	97
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	25	2	15	15	0	10	22	573	11	9	659	22





Major/Minor	Minor2		Minor1		Major1		Major2					
Conflicting Flow All	1311	1316	670	1320	1322	579	681	0	0	584	0	0
Stage 1	688	688	-	623	623	-	-	-	-	-	-	-
Stage 2	623	628	-	697	699	-	-	-	-	-	-	-
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	136	158	457	134	156	515	912	-	-	991	-	-
Stage 1	436	447	-	474	478	-	-	-	-	-	-	-
Stage 2	474	476	-	431	442	-	-	-	-	-	-	-
Platoon blocked, %								-	-	-	-	-
Mov Cap-1 Maneuver	128	150	457	123	148	515	912	-	-	991	-	-
Mov Cap-2 Maneuver	128	150	-	123	148	-	-	-	-	-	-	-
Stage 1	420	440	-	457	461	-	-	-	-	-	-	-
Stage 2	448	459	-	408	435	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	32	25.1	0.3	0.1
HCM LOS	D	D		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1WBLn1	SBL	SBT	SBR
Capacity (veh/h)	912	-	-	175 205	991	-	-
HCM Lane V/C Ratio	0.024	-	-	0.242 0.126	0.009	-	-
HCM Control Delay (s)	9	0	-	32 25.1	8.7	0	-
HCM Lane LOS	A	A	-	D D	A A	-	-
HCM 95th %tile Q(veh)	0.1	-	-	0.9 0.4	0	-	-

Intersection						
Int Delay, s/veh	6.4					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	153	16	402	188	9	516
Future Vol, veh/h	153	16	402	188	9	516
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	161	17	423	198	9	543
Major/Minor	Minor1	Major1	Major2			
Conflicting Flow All	1083	522	0	0	621	0
Stage 1	522	-	-	-	-	-
Stage 2	561	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	240	555	-	-	960	-
Stage 1	595	-	-	-	-	-
Stage 2	571	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	237	555	-	-	960	-
Mov Cap-2 Maneuver	237	-	-	-	-	-
Stage 1	595	-	-	-	-	-
Stage 2	564	-	-	-	-	-
Approach	WB	NB		SB		
HCM Control Delay, s	48	0		0.2		
HCM LOS	E					
Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT		
Capacity (veh/h)	-	-	251	960	-	
HCM Lane V/C Ratio	-	-	0.709	0.01	-	
HCM Control Delay (s)	-	-	48	8.8	0	
HCM Lane LOS	-	-	E	A	A	
HCM 95th %tile Q(veh)	-	-	4.8	0	-	

Intersection						
Int Delay, s/veh	1.9					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	50	16	119	79	9	119
Future Vol, veh/h	50	16	119	79	9	119
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	94	94	94	94	94	94
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	53	17	127	84	10	127
Major/Minor	Minor1	Major1		Major2		
Conflicting Flow All	316	169	0	0	211	0
Stage 1	169	-	-	-	-	-
Stage 2	147	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	677	875	-	-	1360	-
Stage 1	861	-	-	-	-	-
Stage 2	880	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	672	875	-	-	1360	-
Mov Cap-2 Maneuver	672	-	-	-	-	-
Stage 1	861	-	-	-	-	-
Stage 2	873	-	-	-	-	-
Approach	WB	NB		SB		
HCM Control Delay, s	10.6	0		0.5		
HCM LOS	B					
Minor Lane/Major Mvmt	NBT	NBRWBLn1		SBL	SBT	
Capacity (veh/h)	-	-	712	1360	-	
HCM Lane V/C Ratio	-	-	0.099	0.007	-	
HCM Control Delay (s)	-	-	10.6	7.7	0	
HCM Lane LOS	-	-	B	A	A	
HCM 95th %tile Q(veh)	-	-	0.3	0	-	

Intersection												
Int Delay, s/veh	1.1											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	17	3	15	8	0	6	16	627	10	11	314	15
Future Vol, veh/h	17	3	15	8	0	6	16	627	10	11	314	15
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	-	-	Yield	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	93	93	93	93	93	93	93	93	93	93	93	93
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	18	3	16	9	0	6	17	674	11	12	338	16
Major/Minor	Minor2		Minor1		Major1		Major2					
Conflicting Flow All	1084	1089	346	1094	1092	680	354	0	0	685	0	0
Stage 1	370	370	-	714	714	-	-	-	-	-	-	-
Stage 2	714	719	-	380	378	-	-	-	-	-	-	-
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	194	215	697	191	215	451	1205	-	-	908	-	-
Stage 1	650	620	-	422	435	-	-	-	-	-	-	-
Stage 2	422	433	-	642	615	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	186	207	697	179	207	451	1205	-	-	908	-	-
Mov Cap-2 Maneuver	186	207	-	179	207	-	-	-	-	-	-	-
Stage 1	635	610	-	412	425	-	-	-	-	-	-	-
Stage 2	406	423	-	614	605	-	-	-	-	-	-	-
Approach	EB		WB		NB		SB					
HCM Control Delay, s	20.2		17.1		0.2		0.3					
HCM LOS	C		C									
Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR				
Capacity (veh/h)	1205	-	-	275	313	908	-	-				
HCM Lane V/C Ratio	0.014	-	-	0.137	0.048	0.013	-	-				
HCM Control Delay (s)	8	0	-	20.2	17.1	9	0	-				
HCM Lane LOS	A	A	-	C	C	A	A	-				
HCM 95th %tile Q(veh)	0	-	-	0.5	0.2	0	-	-				

Timings

2: Marietta Rd/W Marietta St & Dr John T Pettit St

2a. No Build AM

05/13/2022



Lane Group	WBL	NBT	SBL	SBT
Lane Configurations				
Traffic Volume (vph)	108	439	10	233
Future Volume (vph)	108	439	10	233
Lane Group Flow (vph)	136	701	0	262
Turn Type	Prot	NA	Perm	NA
Protected Phases	8	2		6
Permitted Phases			6	
Detector Phase	8	2	6	6
Switch Phase				
Minimum Initial (s)	5.0	5.0	5.0	5.0
Minimum Split (s)	23.5	23.5	23.5	23.5
Total Split (s)	26.0	64.0	64.0	64.0
Total Split (%)	28.9%	71.1%	71.1%	71.1%
Yellow Time (s)	3.5	3.5	3.5	3.5
All-Red Time (s)	2.0	2.0	2.0	2.0
Lost Time Adjust (s)	0.0	0.0		0.0
Total Lost Time (s)	5.5	5.5		5.5
Lead/Lag				
Lead-Lag Optimize?				
Recall Mode	None	Min	Min	Min
v/c Ratio	0.40	0.57		0.21
Control Delay	22.1	8.4		5.5
Queue Delay	0.0	0.0		0.0
Total Delay	22.1	8.4		5.5
Queue Length 50th (ft)	33	103		30
Queue Length 95th (ft)	85	232		70
Internal Link Dist (ft)	388	411		672
Turn Bay Length (ft)				
Base Capacity (vph)	762	1759		1788
Starvation Cap Reductn	0	0		0
Spillback Cap Reductn	0	0		0
Storage Cap Reductn	0	0		0
Reduced v/c Ratio	0.18	0.40		0.15

Intersection Summary

Cycle Length: 90

Actuated Cycle Length: 49.6

Natural Cycle: 60










Control Type: Actuated-Uncoordinated




Splits and Phases: 2: Marietta Rd/W Marietta St & Dr John T Pettit St



HCM 6th Signalized Intersection Summary
2: Marietta Rd/W Marietta St & Dr John T Pettit St

2a. No Build AM
05/13/2022

						
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	108	19	439	213	10	233
Future Volume (veh/h)	108	19	439	213	10	233
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No			No
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	116	20	472	229	11	251
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	163	28	649	315	129	991
Arrive On Green	0.11	0.11	0.55	0.55	0.55	0.55
Sat Flow, veh/h	1482	256	1189	577	22	1816
Grp Volume(v), veh/h	137	0	0	701	262	0
Grp Sat Flow(s),veh/h/ln	1750	0	0	1766	1837	0
Q Serve(g_s), s	2.4	0.0	0.0	9.6	0.0	0.0
Cycle Q Clear(g_c), s	2.4	0.0	0.0	9.6	2.4	0.0
Prop In Lane	0.85	0.15		0.33	0.04	
Lane Grp Cap(c), veh/h	193	0	0	964	1121	0
V/C Ratio(X)	0.71	0.00	0.00	0.73	0.23	0.00
Avail Cap(c_a), veh/h	1122	0	0	3231	3378	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	13.7	0.0	0.0	5.5	3.8	0.0
Incr Delay (d2), s/veh	4.8	0.0	0.0	1.1	0.1	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.0	0.0	0.0	1.4	0.4	0.0
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	18.5	0.0	0.0	6.5	3.9	0.0
LnGrp LOS	B	A	A	A	A	A
Approach Vol, veh/h	137		701		262	
Approach Delay, s/veh	18.5		6.5		3.9	
Approach LOS	B		A		A	
Timer - Assigned Phs	2		6		8	
Phs Duration (G+Y+Rc), s	23.0		23.0		9.0	
Change Period (Y+Rc), s	5.5		5.5		5.5	
Max Green Setting (Gmax), s	58.5		58.5		20.5	
Max Q Clear Time (g_c+l1), s	11.6		4.4		4.4	
Green Ext Time (p_c), s	5.9		1.8		0.3	
Intersection Summary						
HCM 6th Ctrl Delay			7.4			
HCM 6th LOS			A			

Intersection						
Int Delay, s/veh	1.8					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	42	19	140	94	11	98
Future Vol, veh/h	42	19	140	94	11	98
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	91	91	91	91	91	91
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	46	21	154	103	12	108
Major/Minor	Minor1	Major1		Major2		
Conflicting Flow All	338	206	0	0	257	0
Stage 1	206	-	-	-	-	-
Stage 2	132	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	658	835	-	-	1308	-
Stage 1	829	-	-	-	-	-
Stage 2	894	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	651	835	-	-	1308	-
Mov Cap-2 Maneuver	651	-	-	-	-	-
Stage 1	829	-	-	-	-	-
Stage 2	885	-	-	-	-	-
Approach	WB	NB		SB		
HCM Control Delay, s	10.7	0		0.8		
HCM LOS	B					
Minor Lane/Major Mvmt	NBT	NBRWBLn1		SBL	SBT	
Capacity (veh/h)	-	-		699	1308	
HCM Lane V/C Ratio	-	-		0.096	0.009	
HCM Control Delay (s)	-	-		10.7	7.8	
HCM Lane LOS	-	-		B	A	
HCM 95th %tile Q(veh)	-	-		0.3	0	

Intersection												
Int Delay, s/veh	1.6											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	24	2	15	15	0	10	21	556	11	9	639	21
Future Vol, veh/h	24	2	15	15	0	10	21	556	11	9	639	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	-	-	Yield	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	97	97	97	97	97	97	97	97	97	97	97	97
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	25	2	15	15	0	10	22	573	11	9	659	22

Major/Minor	Minor2		Minor1		Major1		Major2					
Conflicting Flow All	1311	1316	670	1320	1322	579	681	0	0	584	0	0
Stage 1	688	688	-	623	623	-	-	-	-	-	-	-
Stage 2	623	628	-	697	699	-	-	-	-	-	-	-
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	136	158	457	134	156	515	912	-	-	991	-	-
Stage 1	436	447	-	474	478	-	-	-	-	-	-	-
Stage 2	474	476	-	431	442	-	-	-	-	-	-	-
Platoon blocked, %								-	-	-	-	-
Mov Cap-1 Maneuver	128	150	457	123	148	515	912	-	-	991	-	-
Mov Cap-2 Maneuver	128	150	-	123	148	-	-	-	-	-	-	-
Stage 1	420	440	-	457	461	-	-	-	-	-	-	-
Stage 2	448	459	-	408	435	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	32	25.1	0.3	0.1
HCM LOS	D	D		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1WBLn1	SBL	SBT	SBR
Capacity (veh/h)	912	-	-	175 205	991	-	-
HCM Lane V/C Ratio	0.024	-	-	0.242 0.126	0.009	-	-
HCM Control Delay (s)	9	0	-	32 25.1	8.7	0	-
HCM Lane LOS	A	A	-	D D	A A	-	-
HCM 95th %tile Q(veh)	0.1	-	-	0.9 0.4	0	-	-

Timings

2: Marietta Rd/W Marietta St & Dr John T Pettit St

2b. No Build PM

05/13/2022



Lane Group	WBL	NBT	SBL	SBT
Lane Configurations	WT	RT	LT	RT
Traffic Volume (vph)	153	402	9	516
Future Volume (vph)	153	402	9	516
Lane Group Flow (vph)	178	621	0	552
Turn Type	Prot	NA	Perm	NA
Protected Phases	8	2		6
Permitted Phases			6	
Detector Phase	8	2	6	6
Switch Phase				
Minimum Initial (s)	5.0	5.0	5.0	5.0
Minimum Split (s)	23.5	23.5	23.5	23.5
Total Split (s)	27.0	63.0	63.0	63.0
Total Split (%)	30.0%	70.0%	70.0%	70.0%
Yellow Time (s)	3.5	3.5	3.5	3.5
All-Red Time (s)	2.0	2.0	2.0	2.0
Lost Time Adjust (s)	0.0	0.0		0.0
Total Lost Time (s)	5.5	5.5		5.5
Lead/Lag				
Lead-Lag Optimize?				
Recall Mode	None	Min	Min	Min
v/c Ratio	0.46	0.62		0.54
Control Delay	20.4	10.3		9.8
Queue Delay	0.0	0.0		0.0
Total Delay	20.4	10.3		9.8
Queue Length 50th (ft)	37	86		81
Queue Length 95th (ft)	100	204		182
Internal Link Dist (ft)	388	411		672
Turn Bay Length (ft)				
Base Capacity (vph)	809	1772		1833
Starvation Cap Reductn	0	0		0
Spillback Cap Reductn	0	0		0
Storage Cap Reductn	0	0		0
Reduced v/c Ratio	0.22	0.35		0.30

Intersection Summary

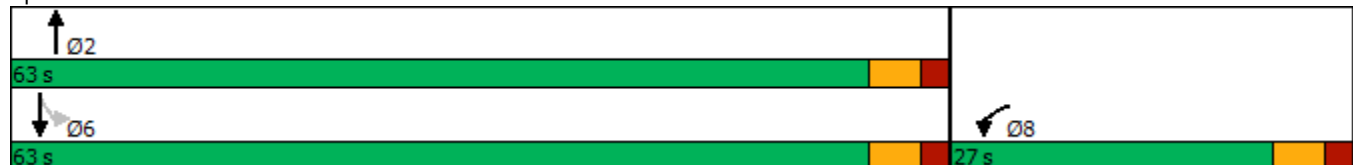
Cycle Length: 90

Actuated Cycle Length: 47.6

Natural Cycle: 60










Control Type: Actuated-Uncoordinated




Splits and Phases: 2: Marietta Rd/W Marietta St & Dr John T Pettit St



HCM 6th Signalized Intersection Summary
2: Marietta Rd/W Marietta St & Dr John T Pettit St




2b. No Build PM
05/13/2022

						
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	153	16	402	188	9	516
Future Volume (veh/h)	153	16	402	188	9	516
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No			No
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	161	17	423	198	9	543
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	219	23	601	282	125	924
Arrive On Green	0.14	0.14	0.50	0.50	0.50	0.50
Sat Flow, veh/h	1584	167	1205	564	9	1850
Grp Volume(v), veh/h	179	0	0	621	552	0
Grp Sat Flow(s),veh/h/ln	1761	0	0	1769	1859	0
Q Serve(g_s), s	3.0	0.0	0.0	8.2	0.0	0.0
Cycle Q Clear(g_c), s	3.0	0.0	0.0	8.2	6.4	0.0
Prop In Lane	0.90	0.09		0.32	0.02	
Lane Grp Cap(c), veh/h	243	0	0	883	1049	0
V/C Ratio(X)	0.74	0.00	0.00	0.70	0.53	0.00
Avail Cap(c_a), veh/h	1249	0	0	3354	3606	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	12.5	0.0	0.0	5.9	5.4	0.0
Incr Delay (d2), s/veh	4.3	0.0	0.0	1.0	0.4	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.1	0.0	0.0	1.3	1.2	0.0
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	16.8	0.0	0.0	6.9	5.8	0.0
LnGrp LOS	B	A	A	A	A	A
Approach Vol, veh/h	179		621		552	
Approach Delay, s/veh	16.8		6.9		5.8	
Approach LOS	B		A		A	
Timer - Assigned Phs	2		6		8	
Phs Duration (G+Y+Rc), s	20.6		20.6		9.7	
Change Period (Y+Rc), s	5.5		5.5		5.5	
Max Green Setting (Gmax), s	57.5		57.5		21.5	
Max Q Clear Time (g_c+I1), s	10.2		8.4		5.0	
Green Ext Time (p_c), s	4.9		4.3		0.4	
Intersection Summary						
HCM 6th Ctrl Delay			7.8			
HCM 6th LOS			A			

Intersection						
Int Delay, s/veh	1.9					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	50	16	119	79	9	119
Future Vol, veh/h	50	16	119	79	9	119
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	94	94	94	94	94	94
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	53	17	127	84	10	127
Major/Minor	Minor1	Major1	Major2			
Conflicting Flow All	316	169	0	0	211	0
Stage 1	169	-	-	-	-	-
Stage 2	147	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	677	875	-	-	1360	-
Stage 1	861	-	-	-	-	-
Stage 2	880	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	672	875	-	-	1360	-
Mov Cap-2 Maneuver	672	-	-	-	-	-
Stage 1	861	-	-	-	-	-
Stage 2	873	-	-	-	-	-
Approach	WB	NB	SB			
HCM Control Delay, s	10.6	0	0.5			
HCM LOS	B					
Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT		
Capacity (veh/h)	-	-	712	1360	-	
HCM Lane V/C Ratio	-	-	0.099	0.007	-	
HCM Control Delay (s)	-	-	10.6	7.7	0	
HCM Lane LOS	-	-	B	A	A	
HCM 95th %tile Q(veh)	-	-	0.3	0	-	

FUTURE “BUILD” INTERSECTION ANALYSIS




Intersection												
Int Delay, s/veh	1.2											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	17	3	15	8	0	7	16	639	10	15	346	15
Future Vol, veh/h	17	3	15	8	0	7	16	639	10	15	346	15
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	-	-	Yield	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	93	93	93	93	93	93	93	93	93	93	93	93
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	18	3	16	9	0	8	17	687	11	16	372	16
Major/Minor	Minor2		Minor1		Major1		Major2					
Conflicting Flow All	1139	1144	380	1149	1147	693	388	0	0	698	0	0
Stage 1	412	412	-	727	727	-	-	-	-	-	-	-
Stage 2	727	732	-	422	420	-	-	-	-	-	-	-
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	178	200	667	176	199	443	1170	-	-	898	-	-
Stage 1	617	594	-	415	429	-	-	-	-	-	-	-
Stage 2	415	427	-	609	589	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	169	191	667	164	190	443	1170	-	-	898	-	-
Mov Cap-2 Maneuver	169	191	-	164	190	-	-	-	-	-	-	-
Stage 1	602	580	-	405	419	-	-	-	-	-	-	-
Stage 2	398	417	-	577	575	-	-	-	-	-	-	-
Approach	EB		WB		NB		SB					
HCM Control Delay, s	21.8		17.3		0.2		0.4					
HCM LOS	C		C									
Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR				
Capacity (veh/h)	1170	-	-	252	308	898	-	-				
HCM Lane V/C Ratio	0.015	-	-	0.149	0.052	0.018	-	-				
HCM Control Delay (s)	8.1	0	-	21.8	17.3	9.1	0	-				
HCM Lane LOS	A	A	-	C	C	A	A	-				
HCM 95th %tile Q(veh)	0	-	-	0.5	0.2	0.1	-	-				





Intersection						
Int Delay, s/veh	4.6					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	144	28	439	226	13	233
Future Vol, veh/h	144	28	439	226	13	233
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	93	93	93	93	93	93
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	155	30	472	243	14	251

Major/Minor	Minor1	Major1	Major2		
Conflicting Flow All	873	594	0	0	715
Stage 1	594	-	-	-	-
Stage 2	279	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12
Critical Hdwy Stg 1	5.42	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218
Pot Cap-1 Maneuver	321	505	-	-	885
Stage 1	552	-	-	-	-
Stage 2	768	-	-	-	-
Platoon blocked, %			-	-	-
Mov Cap-1 Maneuver	315	505	-	-	885
Mov Cap-2 Maneuver	315	-	-	-	-
Stage 1	552	-	-	-	-
Stage 2	754	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	28.1	0	0.5
HCM LOS	D		

Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT
Capacity (veh/h)	-	-	336	885
HCM Lane V/C Ratio	-	-	0.55	0.016
HCM Control Delay (s)	-	-	28.1	9.1
HCM Lane LOS	-	-	D	A
HCM 95th %tile Q(veh)	-	-	3.1	0

Intersection						
Int Delay, s/veh	1.8					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	43	19	152	96	11	102
Future Vol, veh/h	43	19	152	96	11	102
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	91	91	91	91	91	91
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	47	21	167	105	12	112
Major/Minor	Minor1	Major1		Major2		
Conflicting Flow All	356	220	0	0	272	0
Stage 1	220	-	-	-	-	-
Stage 2	136	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	642	820	-	-	1291	-
Stage 1	817	-	-	-	-	-
Stage 2	890	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	636	820	-	-	1291	-
Mov Cap-2 Maneuver	636	-	-	-	-	-
Stage 1	817	-	-	-	-	-
Stage 2	881	-	-	-	-	-
Approach	WB	NB		SB		
HCM Control Delay, s	10.9	0		0.8		
HCM LOS	B					
Minor Lane/Major Mvmt	NBT	NBRWBLn1		SBL	SBT	
Capacity (veh/h)	-	-		683	1291	
HCM Lane V/C Ratio	-	-		0.1	0.009	
HCM Control Delay (s)	-	-		10.9	7.8	
HCM Lane LOS	-	-		B	A	
HCM 95th %tile Q(veh)	-	-		0.3	0	




Intersection						
Int Delay, s/veh	1.7					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	45	14	224	16	5	127
Future Vol, veh/h	45	14	224	16	5	127
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	100	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	87	87	87	87	87	87
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	52	16	257	18	6	146
Major/Minor	Minor1	Major1		Major2		
Conflicting Flow All	415	257	0	0	275	0
Stage 1	257	-	-	-	-	-
Stage 2	158	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	594	782	-	-	1288	-
Stage 1	786	-	-	-	-	-
Stage 2	871	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	591	782	-	-	1288	-
Mov Cap-2 Maneuver	591	-	-	-	-	-
Stage 1	786	-	-	-	-	-
Stage 2	867	-	-	-	-	-
Approach	WB	NB		SB		
HCM Control Delay, s	11.4	0		0.3		
HCM LOS	B					
Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT		
Capacity (veh/h)	-	-	627	1288	-	
HCM Lane V/C Ratio	-	-	0.108	0.004	-	
HCM Control Delay (s)	-	-	11.4	7.8	0	
HCM Lane LOS	-	-	B	A	A	
HCM 95th %tile Q(veh)	-	-	0.4	0	-	




Intersection												
Int Delay, s/veh	1.8											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	24	2	15	15	0	14	21	592	11	12	662	21
Future Vol, veh/h	24	2	15	15	0	14	21	592	11	12	662	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	-	-	Yield	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	97	97	97	97	97	97	97	97	97	97	97	97
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	25	2	15	15	0	14	22	610	11	12	682	22





Major/Minor	Minor2		Minor1		Major1		Major2					
Conflicting Flow All	1377	1382	693	1386	1388	616	704	0	0	621	0	0
Stage 1	717	717	-	660	660	-	-	-	-	-	-	-
Stage 2	660	665	-	726	728	-	-	-	-	-	-	-
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	122	144	443	120	143	491	894	-	-	960	-	-
Stage 1	421	434	-	452	460	-	-	-	-	-	-	-
Stage 2	452	458	-	416	429	-	-	-	-	-	-	-
Platoon blocked, %								-	-	-	-	-
Mov Cap-1 Maneuver	113	136	443	109	135	491	894	-	-	960	-	-
Mov Cap-2 Maneuver	113	136	-	109	135	-	-	-	-	-	-	-
Stage 1	405	425	-	435	443	-	-	-	-	-	-	-
Stage 2	422	441	-	391	420	-	-	-	-	-	-	-

Approach	EB		WB		NB		SB	
HCM Control Delay, s	36.2		24.9		0.3		0.2	
HCM LOS	E		C					

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1WBLn1	SBL	SBT	SBR
Capacity (veh/h)	894	-	-	157 211	960	-	-
HCM Lane V/C Ratio	0.024	-	-	0.269 0.142	0.013	-	-
HCM Control Delay (s)	9.1	0	-	36.2 24.9	8.8	0	-
HCM Lane LOS	A	A	-	E C	A	A	-
HCM 95th %tile Q(veh)	0.1	-	-	1 0.5	0	-	-

Intersection						
Int Delay, s/veh	11.9					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	179	22	402	228	19	516
Future Vol, veh/h	179	22	402	228	19	516
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	188	23	423	240	20	543
Major/Minor	Minor1	Major1	Major2			
Conflicting Flow All	1126	543	0	0	663	0
Stage 1	543	-	-	-	-	-
Stage 2	583	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	227	540	-	-	926	-
Stage 1	582	-	-	-	-	-
Stage 2	558	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	220	540	-	-	926	-
Mov Cap-2 Maneuver	220	-	-	-	-	-
Stage 1	582	-	-	-	-	-
Stage 2	541	-	-	-	-	-
Approach	WB	NB	SB			
HCM Control Delay, s	79.8	0	0.3			
HCM LOS	F					
Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT		
Capacity (veh/h)	-	-	235	926	-	
HCM Lane V/C Ratio	-	-	0.9	0.022	-	
HCM Control Delay (s)	-	-	79.8	9	0	
HCM Lane LOS	-	-	F	A	A	
HCM 95th %tile Q(veh)	-	-	7.6	0.1	-	

Intersection						
Int Delay, s/veh	2					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	53	16	127	81	9	132
Future Vol, veh/h	53	16	127	81	9	132
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	94	94	94	94	94	94
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	56	17	135	86	10	140
Major/Minor	Minor1	Major1		Major2		
Conflicting Flow All	338	178	0	0	221	0
Stage 1	178	-	-	-	-	-
Stage 2	160	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	658	865	-	-	1348	-
Stage 1	853	-	-	-	-	-
Stage 2	869	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	653	865	-	-	1348	-
Mov Cap-2 Maneuver	653	-	-	-	-	-
Stage 1	853	-	-	-	-	-
Stage 2	862	-	-	-	-	-
Approach	WB	NB		SB		
HCM Control Delay, s	10.8	0		0.5		
HCM LOS	B					
Minor Lane/Major Mvmt	NBT	NBRWBLn1		SBL	SBT	
Capacity (veh/h)	-	-		692	1348	-
HCM Lane V/C Ratio	-	-		0.106	0.007	-
HCM Control Delay (s)	-	-		10.8	7.7	0
HCM Lane LOS	-	-		B	A	A
HCM 95th %tile Q(veh)	-	-		0.4	0	-

Intersection						
Int Delay, s/veh	1.3					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	32	10	198	50	16	168
Future Vol, veh/h	32	10	198	50	16	168
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	100	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	35	11	215	54	17	183
Major/Minor	Minor1	Major1	Major2			
Conflicting Flow All	432	215	0	0	269	0
Stage 1	215	-	-	-	-	-
Stage 2	217	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	581	825	-	-	1295	-
Stage 1	821	-	-	-	-	-
Stage 2	819	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	572	825	-	-	1295	-
Mov Cap-2 Maneuver	572	-	-	-	-	-
Stage 1	821	-	-	-	-	-
Stage 2	807	-	-	-	-	-
Approach	WB	NB	SB			
HCM Control Delay, s	11.3	0	0.7			
HCM LOS	B					
Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT		
Capacity (veh/h)	-	-	617	1295	-	
HCM Lane V/C Ratio	-	-	0.074	0.013	-	
HCM Control Delay (s)	-	-	11.3	7.8	0	
HCM Lane LOS	-	-	B	A	A	
HCM 95th %tile Q(veh)	-	-	0.2	0	-	

Intersection												
Int Delay, s/veh	1.2											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	17	3	15	8	0	7	16	639	10	15	346	15
Future Vol, veh/h	17	3	15	8	0	7	16	639	10	15	346	15
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	-	-	Yield	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	93	93	93	93	93	93	93	93	93	93	93	93
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	18	3	16	9	0	8	17	687	11	16	372	16

Major/Minor	Minor2		Minor1		Major1		Major2					
Conflicting Flow All	1139	1144	380	1149	1147	693	388	0	0	698	0	0
Stage 1	412	412	-	727	727	-	-	-	-	-	-	-
Stage 2	727	732	-	422	420	-	-	-	-	-	-	-
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	178	200	667	176	199	443	1170	-	-	898	-	-
Stage 1	617	594	-	415	429	-	-	-	-	-	-	-
Stage 2	415	427	-	609	589	-	-	-	-	-	-	-
Platoon blocked, %								-	-	-	-	-
Mov Cap-1 Maneuver	169	191	667	164	190	443	1170	-	-	898	-	-
Mov Cap-2 Maneuver	169	191	-	164	190	-	-	-	-	-	-	-
Stage 1	602	580	-	405	419	-	-	-	-	-	-	-
Stage 2	398	417	-	577	575	-	-	-	-	-	-	-

Approach	EB		WB		NB		SB	
HCM Control Delay, s	21.8		17.3		0.2		0.4	
HCM LOS	C		C					

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1170	-	-	252 308	898	-	-
HCM Lane V/C Ratio	0.015	-	-	0.149 0.052	0.018	-	-
HCM Control Delay (s)	8.1	0	-	21.8 17.3	9.1	0	-
HCM Lane LOS	A	A	-	C C	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0.5 0.2	0.1	-	-

Timings
2: Marietta Rd/W Marietta St & Dr John T Pettit St

3a. Future Build 2024 AM
05/13/2022

	↖	↑	↗	↓
Lane Group	WBL	NBT	SBL	SBT
Lane Configurations	W	T	L	T
Traffic Volume (vph)	144	439	13	233
Future Volume (vph)	144	439	13	233
Lane Group Flow (vph)	185	715	0	265
Turn Type	Prot	NA	Perm	NA
Protected Phases	8	2		6
Permitted Phases			6	
Detector Phase	8	2	6	6
Switch Phase				
Minimum Initial (s)	5.0	5.0	5.0	5.0
Minimum Split (s)	23.5	23.5	23.5	23.5
Total Split (s)	26.0	64.0	64.0	64.0
Total Split (%)	28.9%	71.1%	71.1%	71.1%
Yellow Time (s)	3.5	3.5	3.5	3.5
All-Red Time (s)	2.0	2.0	2.0	2.0
Lost Time Adjust (s)	0.0	0.0		0.0
Total Lost Time (s)	5.5	5.5		5.5
Lead/Lag				
Lead-Lag Optimize?				
Recall Mode	None	Min	Min	Min
v/c Ratio	0.50	0.68		0.26
Control Delay	23.4	11.4		6.6
Queue Delay	0.0	0.0		0.0
Total Delay	23.4	11.4		6.6
Queue Length 50th (ft)	43	114		33
Queue Length 95th (ft)	121	268		80
Internal Link Dist (ft)	388	411		672
Turn Bay Length (ft)				
Base Capacity (vph)	705	1720		1728
Starvation Cap Reductn	0	0		0
Spillback Cap Reductn	0	0		0
Storage Cap Reductn	0	0		0
Reduced v/c Ratio	0.26	0.42		0.15

Intersection Summary

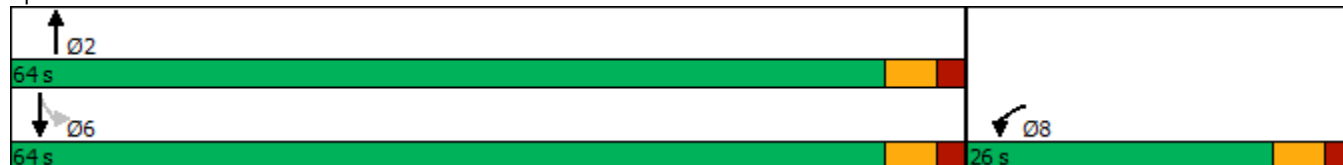
Cycle Length: 90

Actuated Cycle Length: 52.6

Natural Cycle: 60

Control Type: Actuated-Uncoordinated

Splits and Phases: 2: Marietta Rd/W Marietta St & Dr John T Pettit St



HCM 6th Signalized Intersection Summary 2: Marietta Rd/W Marietta St & Dr John T Pettit St

3a. Future Build 2024 AM
05/13/2022






Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	144	28	439	226	13	233
Future Volume (veh/h)	144	28	439	226	13	233
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No			No
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	155	30	472	243	14	251
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	209	40	632	325	124	975
Arrive On Green	0.14	0.14	0.54	0.54	0.54	0.54
Sat Flow, veh/h	1456	282	1164	599	29	1795
Grp Volume(v), veh/h	186	0	0	715	265	0
Grp Sat Flow(s),veh/h/ln	1747	0	0	1763	1825	0
Q Serve(g_s), s	3.6	0.0	0.0	10.9	0.0	0.0
Cycle Q Clear(g_c), s	3.6	0.0	0.0	10.9	2.6	0.0
Prop In Lane	0.83	0.16		0.34	0.05	
Lane Grp Cap(c), veh/h	250	0	0	957	1099	0
V/C Ratio(X)	0.74	0.00	0.00	0.75	0.24	0.00
Avail Cap(c_a), veh/h	1022	0	0	2942	3046	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	14.4	0.0	0.0	6.2	4.3	0.0
Incr Delay (d2), s/veh	4.3	0.0	0.0	1.2	0.1	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.4	0.0	0.0	1.9	0.5	0.0
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	18.7	0.0	0.0	7.4	4.4	0.0
LnGrp LOS	B	A	A	A	A	A
Approach Vol, veh/h	186		715		265	
Approach Delay, s/veh	18.7		7.4		4.4	
Approach LOS	B		A		A	
Timer - Assigned Phs	2		6		8	
Phs Duration (G+Y+Rc), s	24.5		24.5		10.5	
Change Period (Y+Rc), s	5.5		5.5		5.5	
Max Green Setting (Gmax), s	58.5		58.5		20.5	
Max Q Clear Time (g_c+I1), s	12.9		4.6		5.6	
Green Ext Time (p_c), s	6.1		1.8		0.4	





Intersection Summary

HCM 6th Ctrl Delay	8.5
HCM 6th LOS	A

Notes

User approved volume balancing among the lanes for turning movement.

Intersection						
Int Delay, s/veh	1.8					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	43	19	152	96	11	102
Future Vol, veh/h	43	19	152	96	11	102
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	91	91	91	91	91	91
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	47	21	167	105	12	112
Major/Minor	Minor1	Major1	Major2			
Conflicting Flow All	356	220	0	0	272	0
Stage 1	220	-	-	-	-	-
Stage 2	136	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	642	820	-	-	1291	-
Stage 1	817	-	-	-	-	-
Stage 2	890	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	636	820	-	-	1291	-
Mov Cap-2 Maneuver	636	-	-	-	-	-
Stage 1	817	-	-	-	-	-
Stage 2	881	-	-	-	-	-
Approach	WB	NB	SB			
HCM Control Delay, s	10.9	0	0.8			
HCM LOS	B					
Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT		
Capacity (veh/h)	-	-	683	1291	-	
HCM Lane V/C Ratio	-	-	0.1	0.009	-	
HCM Control Delay (s)	-	-	10.9	7.8	0	
HCM Lane LOS	-	-	B	A	A	
HCM 95th %tile Q(veh)	-	-	0.3	0	-	

Intersection						
Int Delay, s/veh	1.7					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	45	14	224	16	5	127
Future Vol, veh/h	45	14	224	16	5	127
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	100	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	87	87	87	87	87	87
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	52	16	257	18	6	146
Major/Minor	Minor1	Major1	Major2			
Conflicting Flow All	415	257	0	0	275	0
Stage 1	257	-	-	-	-	-
Stage 2	158	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	594	782	-	-	1288	-
Stage 1	786	-	-	-	-	-
Stage 2	871	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	591	782	-	-	1288	-
Mov Cap-2 Maneuver	591	-	-	-	-	-
Stage 1	786	-	-	-	-	-
Stage 2	867	-	-	-	-	-
Approach	WB	NB	SB			
HCM Control Delay, s	11.4	0	0.3			
HCM LOS	B					
Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT		
Capacity (veh/h)	-	-	627	1288	-	
HCM Lane V/C Ratio	-	-	0.108	0.004	-	
HCM Control Delay (s)	-	-	11.4	7.8	0	
HCM Lane LOS	-	-	B	A	A	
HCM 95th %tile Q(veh)	-	-	0.4	0	-	

Intersection												
Int Delay, s/veh	1.8											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	24	2	15	15	0	14	21	592	11	12	662	21
Future Vol, veh/h	24	2	15	15	0	14	21	592	11	12	662	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	-	-	Yield	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	97	97	97	97	97	97	97	97	97	97	97	97
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	25	2	15	15	0	14	22	610	11	12	682	22








Major/Minor	Minor2		Minor1		Major1		Major2					
Conflicting Flow All	1377	1382	693	1386	1388	616	704	0	0	621	0	0
Stage 1	717	717	-	660	660	-	-	-	-	-	-	-
Stage 2	660	665	-	726	728	-	-	-	-	-	-	-
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	122	144	443	120	143	491	894	-	-	960	-	-
Stage 1	421	434	-	452	460	-	-	-	-	-	-	-
Stage 2	452	458	-	416	429	-	-	-	-	-	-	-
Platoon blocked, %								-	-	-	-	-
Mov Cap-1 Maneuver	113	136	443	109	135	491	894	-	-	960	-	-
Mov Cap-2 Maneuver	113	136	-	109	135	-	-	-	-	-	-	-
Stage 1	405	425	-	435	443	-	-	-	-	-	-	-
Stage 2	422	441	-	391	420	-	-	-	-	-	-	-

Approach	EB		WB		NB		SB	
HCM Control Delay, s	36.2		24.9		0.3		0.2	
HCM LOS	E		C					

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1WBLn1	SBL	SBT	SBR
Capacity (veh/h)	894	-	-	157 211	960	-	-
HCM Lane V/C Ratio	0.024	-	-	0.269 0.142	0.013	-	-
HCM Control Delay (s)	9.1	0	-	36.2 24.9	8.8	0	-
HCM Lane LOS	A	A	-	E C	A	A	-
HCM 95th %tile Q(veh)	0.1	-	-	1 0.5	0	-	-

Timings
2: Marietta Rd/W Marietta St & Dr John T Pettit St

3b. Future Build 2024 PM
05/13/2022

				
Lane Group	WBL	NBT	SBL	SBT
Lane Configurations				
Traffic Volume (vph)	179	402	19	516
Future Volume (vph)	179	402	19	516
Lane Group Flow (vph)	211	663	0	563
Turn Type	Prot	NA	Perm	NA
Protected Phases	8	2		6
Permitted Phases			6	
Detector Phase	8	2	6	6
Switch Phase				
Minimum Initial (s)	5.0	5.0	5.0	5.0
Minimum Split (s)	23.5	23.5	23.5	23.5
Total Split (s)	27.0	63.0	63.0	63.0
Total Split (%)	30.0%	70.0%	70.0%	70.0%
Yellow Time (s)	3.5	3.5	3.5	3.5
All-Red Time (s)	2.0	2.0	2.0	2.0
Lost Time Adjust (s)	0.0	0.0		0.0
Total Lost Time (s)	5.5	5.5		5.5
Lead/Lag				
Lead-Lag Optimize?				
Recall Mode	None	Min	Min	Min
v/c Ratio	0.52	0.66		0.57
Control Delay	22.6	11.5		10.6
Queue Delay	0.0	0.0		0.0
Total Delay	22.6	11.5		10.6
Queue Length 50th (ft)	45	101		89
Queue Length 95th (ft)	132	245		205
Internal Link Dist (ft)	388	411		672
Turn Bay Length (ft)				
Base Capacity (vph)	772	1716		1751
Starvation Cap Reductn	0	0		0
Spillback Cap Reductn	0	0		0
Storage Cap Reductn	0	0		0
Reduced v/c Ratio	0.27	0.39		0.32

Intersection Summary

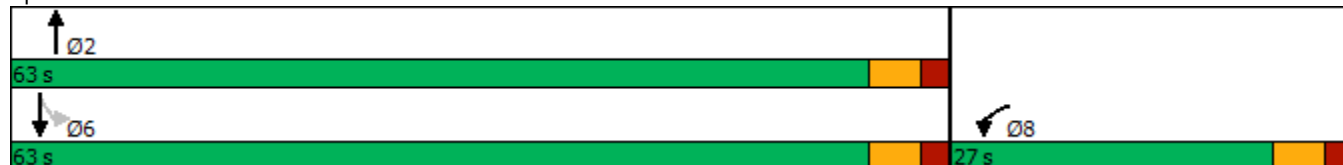
Cycle Length: 90

Actuated Cycle Length: 50.6

Natural Cycle: 60

Control Type: Actuated-Uncoordinated










Splits and Phases: 2: Marietta Rd/W Marietta St & Dr John T Pettit St










HCM 6th Signalized Intersection Summary
2: Marietta Rd/W Marietta St & Dr John T Pettit St

3b. Future Build 2024 PM

05/13/2022

						
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	179	22	402	228	19	516
Future Volume (veh/h)	179	22	402	228	19	516
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No			No
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	188	23	423	240	20	543
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	254	31	575	327	122	931
Arrive On Green	0.16	0.16	0.51	0.51	0.51	0.51
Sat Flow, veh/h	1559	191	1120	636	24	1813
Grp Volume(v), veh/h	212	0	0	663	563	0
Grp Sat Flow(s),veh/h/ln	1758	0	0	1756	1837	0
Q Serve(g_s), s	3.9	0.0	0.0	10.0	0.0	0.0
Cycle Q Clear(g_c), s	3.9	0.0	0.0	10.0	7.1	0.0
Prop In Lane	0.89	0.11		0.36	0.04	
Lane Grp Cap(c), veh/h	287	0	0	902	1053	0
V/C Ratio(X)	0.74	0.00	0.00	0.74	0.53	0.00
Avail Cap(c_a), veh/h	1111	0	0	2967	3147	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	13.6	0.0	0.0	6.5	5.8	0.0
Incr Delay (d2), s/veh	3.7	0.0	0.0	1.2	0.4	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.5	0.0	0.0	1.9	1.5	0.0
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	17.3	0.0	0.0	7.6	6.2	0.0
LnGrp LOS	B	A	A	A	A	A
Approach Vol, veh/h	212		663		563	
Approach Delay, s/veh	17.3		7.6		6.2	
Approach LOS	B		A		A	
Timer - Assigned Phs	2		6		8	
Phs Duration (G+Y+Rc), s	23.0		23.0		11.0	
Change Period (Y+Rc), s	5.5		5.5		5.5	
Max Green Setting (Gmax), s	57.5		57.5		21.5	
Max Q Clear Time (g_c+l1), s	12.0		9.1		5.9	
Green Ext Time (p_c), s	5.4		4.5		0.5	
Intersection Summary						
HCM 6th Ctrl Delay			8.5			
HCM 6th LOS			A			

Intersection						
Int Delay, s/veh	2					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	53	16	127	81	9	132
Future Vol, veh/h	53	16	127	81	9	132
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	94	94	94	94	94	94
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	56	17	135	86	10	140
Major/Minor	Minor1	Major1	Major2			
Conflicting Flow All	338	178	0	0	221	0
Stage 1	178	-	-	-	-	-
Stage 2	160	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	658	865	-	-	1348	-
Stage 1	853	-	-	-	-	-
Stage 2	869	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	653	865	-	-	1348	-
Mov Cap-2 Maneuver	653	-	-	-	-	-
Stage 1	853	-	-	-	-	-
Stage 2	862	-	-	-	-	-
Approach	WB	NB	SB			
HCM Control Delay, s	10.8	0	0.5			
HCM LOS	B					
Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT		
Capacity (veh/h)	-	-	692	1348	-	
HCM Lane V/C Ratio	-	-	0.106	0.007	-	
HCM Control Delay (s)	-	-	10.8	7.7	0	
HCM Lane LOS	-	-	B	A	A	
HCM 95th %tile Q(veh)	-	-	0.4	0	-	

Intersection						
Int Delay, s/veh	1.3					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	32	10	198	50	16	168
Future Vol, veh/h	32	10	198	50	16	168
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	100	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	35	11	215	54	17	183
Major/Minor	Minor1	Major1	Major2			
Conflicting Flow All	432	215	0	0	269	0
Stage 1	215	-	-	-	-	-
Stage 2	217	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	581	825	-	-	1295	-
Stage 1	821	-	-	-	-	-
Stage 2	819	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	572	825	-	-	1295	-
Mov Cap-2 Maneuver	572	-	-	-	-	-
Stage 1	821	-	-	-	-	-
Stage 2	807	-	-	-	-	-
Approach	WB	NB	SB			
HCM Control Delay, s	11.3	0	0.7			
HCM LOS	B					
Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT		
Capacity (veh/h)	-	-	617	1295	-	
HCM Lane V/C Ratio	-	-	0.074	0.013	-	
HCM Control Delay (s)	-	-	11.3	7.8	0	
HCM Lane LOS	-	-	B	A	A	
HCM 95th %tile Q(veh)	-	-	0.2	0	-	

TRAFFIC VOLUME WORKSHEETS

22-068 Residential Development on Cherokee Street @ Dr. John T. Pettit Street - Canton, Georgia
Traffic Volumes

A&R Engineering
 May 2022

1. Marietta Rd @ Goss St

A.M. Peak Hour

Condition	Marietta Road Northbound					Marietta Road Southbound					Canton Village Driveway Eastbound					Goss Street Westbound			
	L	T	R	Tot		L	T	R	Tot		L	T	R	Tot		L	T	R	Tot
Existing 2022 Traffic Counts:	15	603	10	628		11	302	14	327		16	3	14	33		8	0	6	14
Growth Factor (%):	2	2	2			2	2	2			2	2	2			2	2	2	
No-Build 2024 Volumes:	16	627	10	653		11	314	15	340		17	3	15	35		8	0	6	14
Total New Trips:	0	12	0	12		4	32	0	36		0	0	0	0		0	0	1	1
Future 2024 Traffic Volumes:	16	639	10	665		15	346	15	376		17	3	15	35		8	0	7	15

P.M. Peak Hour

Condition	Marietta Road Northbound					Marietta Road Southbound					Canton Village Driveway Eastbound					Goss Street Westbound			
	L	T	R	Tot		L	T	R	Tot		L	T	R	Tot		L	T	R	Tot
Existing 2022 Traffic Counts:	20	535	11	566		9	614	20	643		23	2	14	39		14	0	10	24
Growth Factor (%):	2	2	2			2	2	2			2	2	2			2	2	2	
No-Build 2024 Volumes:	21	556	11	588		9	639	21	669		24	2	15	41		15	0	10	25
Total New Trips:	0	36	0	36		3	23	0	26		0	0	0	0		0	0	4	4
Future 2024 Traffic Volumes:	21	592	11	624		12	662	21	695		24	2	15	41		15	0	14	29

22-068 Residential Development on Cherokee Street @ Dr. John T. Pettit Street - Canton, Georgia
Traffic Volumes

A&R Engineering
May 2022

2. W Marietta St @ Dr John St

A.M. Peak Hour

Condition	Marietta Road Northbound					W Marietta Street Southbound					- Eastbound					Dr John T Pettit Street Westbound			
	L	T	R	Tot		L	T	R	Tot		L	T	R	Tot		L	T	R	Tot
Existing 2022 Traffic Counts:	0	422	205	627		10	224	0	234		0	0	0	0		104	0	18	122
Growth Factor (%):	2	2	2			2	2	2			2	2	2			2	2	2	
No-Build 2024 Volumes:	0	439	213	652		10	233	0	243		0	0	0	0		108	0	19	127
Total New Trips:	0	0	13	13		3	0	0	3		0	0	0	0		36	0	9	45
Future 2024 Traffic Volumes:	0	439	226	665		13	233	0	246		0	0	0	0		144	0	28	172

P.M. Peak Hour

Condition	Marietta Road Northbound					W Marietta Street Southbound					- Eastbound					Dr John T Pettit Street Westbound			
	L	T	R	Tot		L	T	R	Tot		L	T	R	Tot		L	T	R	Tot
Existing 2022 Traffic Counts:	0	387	181	568		9	496	0	505		0	0	0	0		147	0	15	162
Growth Factor (%):	2	2	2			2	2	2			2	2	2			2	2	2	
No-Build 2024 Volumes:	0	402	188	590		9	516	0	525		0	0	0	0		153	0	16	169
Total New Trips:	0	0	40	40		10	0	0	10		0	0	0	0		26	0	6	32
Future 2024 Traffic Volumes:	0	402	228	630		19	516	0	535		0	0	0	0		179	0	22	201

22-068 Residential Development on Cherokee Street @ Dr. John T. Pettit Street - Canton, Georgia
Traffic Volumes

A&R Engineering
 May 2022

3. Dr John St @ Cherokee St

A.M. Peak Hour

Condition	Dr John T Pettit Street Northbound					Dr John T Pettit Street Southbound					- Eastbound					Cherokee Street Westbound			
	L	T	R	Tot		L	T	R	Tot		L	T	R	Tot		L	T	R	Tot
Existing 2022 Traffic Counts:	0	135	90	225		11	94	0	105		0	0	0	0		40	0	18	58
Growth Factor (%):	2	2	2			2	2	2			2	2	2			2	2	2	
No-Build 2024 Volumes:	0	140	94	234		11	98	0	109		0	0	0	0		42	0	19	61
Total New Trips:	0	12	2	14		0	4	0	4		0	0	0	0		1	0	0	1
Future 2024 Traffic Volumes:	0	152	96	248		11	102	0	113		0	0	0	0		43	0	19	62

P.M. Peak Hour

Condition	Dr John T Pettit Street Northbound					Dr John T Pettit Street Southbound					- Eastbound					Cherokee Street Westbound			
	L	T	R	Tot		L	T	R	Tot		L	T	R	Tot		L	T	R	Tot
Existing 2022 Traffic Counts:	0	114	76	190		9	114	0	123		0	0	0	0		48	0	15	63
Growth Factor (%):	2	2	2			2	2	2			2	2	2			2	2	2	
No-Build 2024 Volumes:	0	119	79	198		9	119	0	128		0	0	0	0		50	0	16	66
Total New Trips:	0	8	2	10		0	13	0	13		0	0	0	0		3	0	0	3
Future 2024 Traffic Volumes:	0	127	81	208		9	132	0	141		0	0	0	0		53	0	16	69

22-068 Residential Development on Cherokee Street @ Dr. John T. Pettit Street - Canton, Georgia
Traffic Volumes

A&R Engineering
 May 2022

4. Dr John St @ Drwy 1

A.M. Peak Hour

Condition	Dr John T Pettit Street Northbound					Dr John T Pettit Street Southbound					- Eastbound					Site Driveway 1 Westbound			
	L	T	R	Tot		L	T	R	Tot		L	T	R	Tot		L	T	R	Tot
Existing 2022 Traffic Counts:	0	215	0	215		0	122	0	122		0	0	0	0		0	0	0	0
Growth Factor (%):	2	2	2			2	2	2			2	2	2			2	2	2	
No-Build 2024 Volumes:	0	224	0	224		0	127	0	127		0	0	0	0		0	0	0	0
Total New Trips:	0	0	16	16		5	0	0	5		0	0	0	0		45	0	14	59
Future 2024 Traffic Volumes:	0	224	16	240		5	127	0	132		0	0	0	0		45	0	14	59

P.M. Peak Hour

Condition	Dr John T Pettit Street Northbound					Dr John T Pettit Street Southbound					- Eastbound					Site Driveway 1 Westbound			
	L	T	R	Tot		L	T	R	Tot		L	T	R	Tot		L	T	R	Tot
Existing 2022 Traffic Counts:	0	190	0	190		0	162	0	162		0	0	0	0		0	0	0	0
Growth Factor (%):	2	2	2			2	2	2			2	2	2			2	2	2	
No-Build 2024 Volumes:	0	198	0	198		0	168	0	168		0	0	0	0		0	0	0	0
Total New Trips:	0	0	50	50		16	0	0	16		0	0	0	0		32	0	10	42
Future 2024 Traffic Volumes:	0	198	50	248		16	168	0	184		0	0	0	0		32	0	10	42