

PLANNING COMMISSION AGENDA Monday, October 25, 2021 at 6:00 p.m. Caledonia Village Hall – 5043 Chester Lane

- 1. Meeting called to order
- 2. Roll Call/Introductions
- 3. Approval of Minutes
- 4. Citizens' Comments

5. Public Hearing Items

A. CONDITIONAL USE - Review a request for a conditional use and building, site, and operations plan for the construction and utilization of a ±10,792 square-foot commercial retail building, Dollar General, located at 4949 Erie Street, submitted by Peter Oleszczuk, Applicant, Manveer & Chaman Real Estate Inc., Owner. (Parcel ID No. 104-04-23-28-002-000)

6. Non-Public Hearing Items

- A. SIGN PLAN REVEIW Review a sign plan for the commercial site, Pilot Travel Center, located at 13712 Northwestern Avenue submitted by Michael Everett, Applicant, Pilot Travel Centers, Owner. (Parcel ID No. 104-04-22-30-022-001)
- B. BOUNDARY AGREEMENT REVIEW Review a certified survey map and rezone request from A-1, Farmland Preservation District and A-2, General Farming and Residential District II to M-2, General Industrial District for the parcel located at 3205 3 Mile Road submitted by Briohn Land Development LLC, Applicant, Anthony and Carol Janicek, Owner. (Parcel ID No. 168-04-21-36-008-000)

7. Adjournment

Dated October 21, 2021

Joslyn Hoeffert Village Clerk

Only Commission members are expected to attend. However, attendance by all Board members (including non-members of the Plan Commission) is permitted. If additional (non-commission) Board members attend, three or more Board members may be in attendance. Section 19.82(2), Wisconsin Statutes, states as follows: If one-half or more of the members of a governmental body are present, the meeting is rebuttably presumed to be for the purposes of exercising the responsibilities, authority, power or duties delegated to or vested in the body. To the extent that three or more members of the Caledonia Village Board actually attend, this meeting may be rebuttably presumed to be a "meeting" within the meaning of Wisconsin's open meeting law. Nevertheless, only the commission's agenda will be discussed. Only commission members will vote. Board members who attend the commission meeting do so for the purpose of gathering information and possible discussion regarding the agenda. No votes or other action will be taken by the Village Board at this meeting.

1. Meeting called to order

President Dobbs called the meeting to order at 6:00 pm at the Village Hall, 5043 Chester Lane, Racine, WI.

2. Roll Call/Introductions

Members present: Joseph Minorik, Bill Folk, Nancy Pierce, Tim Just, Trustee Weatherston, and President Dobbs.

Absent: None.

Also present: Development Director Peter Wagner and Village Administrator Kathy Kasper.

3. Approval of Minutes

Motion by Pierce to approve the minutes from August 30, 2021. Seconded by Just. Motion carried unanimously.

4. Citizens' Comments

None.

5. Public Hearing Items

5A. CONDITIONAL USE - Review a request for a conditional use and building, site, and operations plan for the construction and utilization of a ±10,792 square-foot commercial retail building, Dollar General, located at 4949 Erie Street, submitted by Peter Oleszczuk, Applicant, Manveer & Chaman Real Estate Inc., Owner. (Parcel ID No. 104-04-23-28-002-000)

Motion to postpone this public hearing to the next Planning Commission meeting by Folk. Seconded by Just. Motion carried unanimously.

6. Non-Public Hearing Items

6A. BUILDING, SITE & OPERATION PLAN REVEIW – Review a building, site, and operations plan for the construction and utilization of a $\pm 4,052$ square-foot training facility located at 3710 7 Mile Road, submitted by Ryan Rudie, Applicant, Wisconsin Electric Power Company, Owner. (Parcel ID No. 104-04-23-06-008-000)

This is a 4052 square foot training facility. An existing shooting range and other training facility buildings are also located on this parcel. The location of the proposed building will be over 600 feet from the Lake Michigan edge and 200 feet from the top of the bluff. According to Wagner, all

Plan Commission Meeting Monday, September 27, 2021

setback requirements have been met. Wagner presented the site plan to the Commission. The site plan does show a demolition project on the northeast corner of the site to negate impervious surface which will be added to this development. The applicant is doing this so that a stormwater management plan does not need to be submitted to accommodate for the impervious surface. The main exterior of the building will be constructed out of concreate masonry units. The roof will be asphalt shingles. Due to this type of facility, no windows are being proposed at this time. No additional parking is being proposed as there is already a parking lot on the parcel. No landscaping is being proposed because this location is located on a bluff and cannot be seen from the road. The only exterior lighting that is being proposed is located on the south and west side of the building. Staff does recommend approval of this proposed development.

Motion to approve by Trustee Weatherston. Seconded by Pierce. Motion carried unanimously.

7. Adjournment

Motion to adjourn by Trustee Weatherston. Seconded by Just. Motion carried unanimously. Meeting adjourned at 6:07 pm.

Respectfully submitted, Megan O'Brien Deputy Village Clerk



Meeting Date: October 25, 2021

Item No. 5a

Proposal:	Conditional Use & Building, Site, & Operations (BSO) Plan Review						
Description:	Review a request for approval of a conditional use and building, site, and operation plan for the construction and utilization of a $\pm 10,792$ square-foot commercial building located at 4949 Erie Street.						
Applicant(s):	Peter Oleszczuk						
Address(es):	4949 Erie Street						
Suggested Motion:	That the Plan Commission recommends to the Village Board that a conditional use and building, site, and operations plan for a $\pm 10,972$ square-foot commercial building be approved with conditions outlined in Exhibit A for the property located at 4949 Erie Street for the following reasons:						
	1. The proposed use is allowed through the conditional use and building, site, and operation plan review process and is a permitted use in B-1 Zoning District.						
Owner(s):	Manveer & Chaman Real Estate Inc.						
Tax Key(s):	104-04-23-28-002-000						
Lot Size(s):	±1.878 acres						
Current Zoning District(s):	B-1, Neighborhood Business District						
Overlay District(s):	N/A						
Wetlands:	☐ Yes ☐ No Floodplain: ☐ Yes ☐ No						
Comprehensive Plan:	Medium Density Residential						

Background: At their September 7th Village Board meeting, the Village Board tabled the proposal asking for clarification regarding the traffic impact analysis (TIA) and requested a representative of Dollar General be present at their next meeting to answer questions directly. Following that meeting, staff and the Village attorney reviewed the project process and found a section of code that requires any development that generates more than 100 daily trips be a conditional use and have a public hearing. At the Board's September 20th meeting, they were informed of this requirement and referred the proposal back to the Plan Commission to conduct a public hearing.

To address the TIA concerns, staff hired a third party to analyze the submitted TIA and provide an additional assessment of the impacts from the proposed development and is included with this report. The applicant also had their consultant reanalyze their report and provide the impacts of the condominium project occurring approximately one mile north of the proposed development. Included in this packet is a TIA memo summarizing the reevaluation of the TIA and a memo from the Village's hired consultant.

The Village consultant's TIA memo suggests that the entrance on 4 Mile should be modified to include a physical barrier to prevent cars turning left onto 4 Mile. Otherwise, the level of service (LOS) as identified in the original report remains the same of a LOS C. This level of service is considered an acceptable level within the Village.

The revised TIA submitted by the applicant takes into consideration new counts with school in session and includes traffic from the Waters Edge Condo project. In short, for traffic generated in 2021, the LOS will be a C with or without the development. In the year 2041, the intersection will have a LOS D for eastbound traffic with or without the proposed development. Overall, the LOS of the intersection will be a C. Currently, the Village is without a principal engineer, so a formal analysis by staff was not conducted. A representative from the firm who conducted the TIA will be in attendance to explain the report in more detail.

In response to revisions to the TIA, the applicant has modified the site plan to address the left turn out of the site by installing an island in the middle of the 4 Mile Road entrance to direct traffic out of the site only to the east. This modification removed multiple parking stalls on the northeast end of the parking lot. To maintain the minimum required stalls, the stalls were relocated to the southeast portion of the lot.

In addition to the TIA, Racine County Engineering identified regulations regarding the width of right-of-way and access to 4 Mile Road. As a result, the applicant has modified their site plan to accommodate the 45-foot right-of-way requirement from the center line of the roadways along 4 Mile Road and Erie Street by dedicating twelve feet of their parcel along 4 Mile Road and Erie Street. This widening of the right-of-way meets the road design standards for arterial roads. A right-of-way dedication has been drafted and a quit claim deed will be recorded dedicating additional right-of-way at this intersection. As a result, the building and parking lot have been shifted south and east by twelve feet.

By dedicating the additional right-of-way, the site has shifted to the south and east. The vegetative buffer of the eastern portion of the property has been reduced from forty feet to thirty feet. The vegetative buffer on the southern portion of the property has been reduced to twenty-one feet from thirty-five feet. This reduction in buffer size is compliant with the minimum buffering requirements for commercial developments abutting residential parcels. There will be an six-foot privacy fence along the edge of the vegetative buffers to provide additional screening of the parking lot to the residential parcels. The applicant has added landscaping around the perimeter of the building along Erie Street and 4 Mile Road. In the areas identified as bio-retention swales, there will be additional plantings as identified on the landscape plan.

Condition of approval Number 5 states that before any building permits can be issued, the property owner will need a stormwater management plan approved by the Utility Board.

Based on the existing zoning and modifications to the site in response to the TIA analysis and right-ofway dedication, staff recommends approval for the proposed development with conditions outlined in Exhibit A.

August 30, 2021: The applicant is proposing to construct a ±10,972 square-foot commercial building located at 4949 Erie Street. This commercial building is intended to be used as a single tenant retail business which is a permitted use in the B-1 District.

The proposed building will have an exterior consisting primarily of a stone veneer, fiber cement shake siding, and fiber cement horizontal siding. A glass paneled entrance will be located on the northeast corner of the building. The main portion of building will have a gable rooftop and a hip roof design along the northern elevation of the building. On both the east and west elevations, there will be spandrel glass giving the appearance of windows. In addition, the installation of stone columns will help break up the long expanse of the building on these elevations. LED light fixtures will be installed on the stone columns on all four sides of the building as illustrated on the plans. On the north elevation, above the spandrel glass will be dark bronze aluminum canopies providing articulation. The south elevation is clad in similar cement fiber board shake siding and horizontal siding with stone veneer accents. This elevation is where the mechanicals will be located and screened from view. Any roof mechanicals will be required to be screened from public right-of-way. Roofing materials of the building will asphalt shingles. The varying exterior materials and design of the building meet the design standard of a visually distinct top, middle, and base.

There will be 33 parking stalls with two ADA accessible stalls near the entrance which will require a waiver from the minimum parking standards of 3.5 stalls for every 1,000 square feet of floor area. Curb stops will be utilized on the eastern portion of the parking lot. The parking lot will be paved with either concrete or asphalt.

The site layout places the building at the minimum street yard setback requirement for the zoning district. This will help distance the building from the residential homes located to the east and south of the site. The placement of the building complies with the regulations pertaining to the vision triangle for two arterial streets. Per Engineering, no modifications to the roadway are required because of this development. The entrances to the site meet minimum distance requirements from the intersection. The northern entrance will line west of the residential driveway to the north. The west entrance will line up just north of the residential driveway to the west. When a commercial development abuts a residential district, a recently adopted ordinance requires that a vegetative buffer be between the differing land uses. This site has residential abutting to the south and east lot lines. A 30-foot mature vegetative buffer is proposed along the south lot line and a 45-foot mature vegetative buffer along the east side to mitigate the change in land use. An 18'x18' dumpster will be in the southern portion of the site, away from the entrance of the facility. It will be screened by shadowbox fencing with colors matching the main building.

The lighting of the site will consist of down-cast, cutoff, LED fixtures attached to the building. No parking lot lighting is proposed as part of this development. The submitted photometric plan will need some revisions along the western elevation as some areas exceed the maximum 0.5 foot-candles at the lot line. The applicant will be required to revise the lighting plan to meet this requirement prior to building permits being issued.

The proposed landscape plan meets the minimum requirements of Village Code. Per code trees along a street frontage need to be place a minimum of 50 feet apart. Along the western lot line, locust, lilac, and amuir maakia trees are proposed every 25-30 feet. One modification to the plan will be required. The proposed tree in the northwest corner of the site is located within the vision triangle and will need to be relocated on the site. Along the northern lot line, four trees are proposed along with shrubs around a monument sign. The eastern and southern areas of the site have a 35' and 40' vegetative buffer that will screen the parking lot. Arborvitae will be used to surround the mechanical screening and dumpster enclosure. Staff suggests additional shrubs and perennials beds abutting the building facing Erie Street be installed to provide a secondary landscape layer located behind the tree line as suggested in Village Code. This would further breakup the long expanse of building.

Three bio-retention areas are proposed as illustrated on the grading plan Prior to any building permits being issued, the applicant will need to get approvals for stormwater management, erosion control, and grading plans from Water Utility Department and Engineering Department.

The Fire Department indicated no concerns regarding the proposed site plan; however, they have identified various fire protection requirements that will need to be addressed. The Fire Department will work with the applicant to ensure compliance with fire protection and sprinkling requirements for this building type.

Staff recommends approval of the proposed development located at 4949 Erie Street subject to conditions outlined in Exhibit A. If the Plan Commission is comfortable with the proposed development, staff has drafted a suggested motion to approve the proposed development with conditions.

EXHIBIT A: Conditions of Approval for 4949 Erie Street Commercial Building

- 1. <u>Compliance.</u> Failure to comply with the terms and conditions stated herein could result in the issuance of citation(s) and/or revocation of this permit.
- 2. <u>Binding Effect.</u> These conditions bind and are applicable to the Property Owner, Agent, and any other users of the Property Owner with respect to the uses on the Property.
- 3. <u>Plans.</u> The proposed operation shall be located, constructed, and utilized in accordance with the revised plans and documents received by the Village Planning Office on October 18, 2021.
- 4. <u>Engineering Department.</u> The property owner or designated agent must contact the Village of Caledonia Engineering Department and must comply with all regulations and requirements of the Village of Caledonia Engineering Department.
- 5. <u>Stormwater.</u> The property owner or designated agent must contact the Village of Caledonia Stormwater Utility District regarding stormwater regulations for this site. Compliance with all regulations and requirements, as determined by the Village of Caledonia Stormwater Utility District is required. Stormwater management plans shall be submitted for approval and be in compliance with all Village requirements, as determined by the Village Engineer before permits are issued.
- 6. <u>Fire Department Approval.</u> Owner shall obtain approval from the Village of Caledonia Fire Department and meet applicable codes.
- 7. Parking. Parking at the site must be in compliance with the submitted plans. All employee and visitor parking must be conducted in the proposed parking lot as outlined on the submitted site plan. Each parking space shall be a minimum of 180 square feet in area exclusive of the space

required for ingress and egress. Handicapped spaces shall be provided in accordance with State requirements. The driveway and all parking areas must be maintained in a hard-surfaced, dust-free condition.

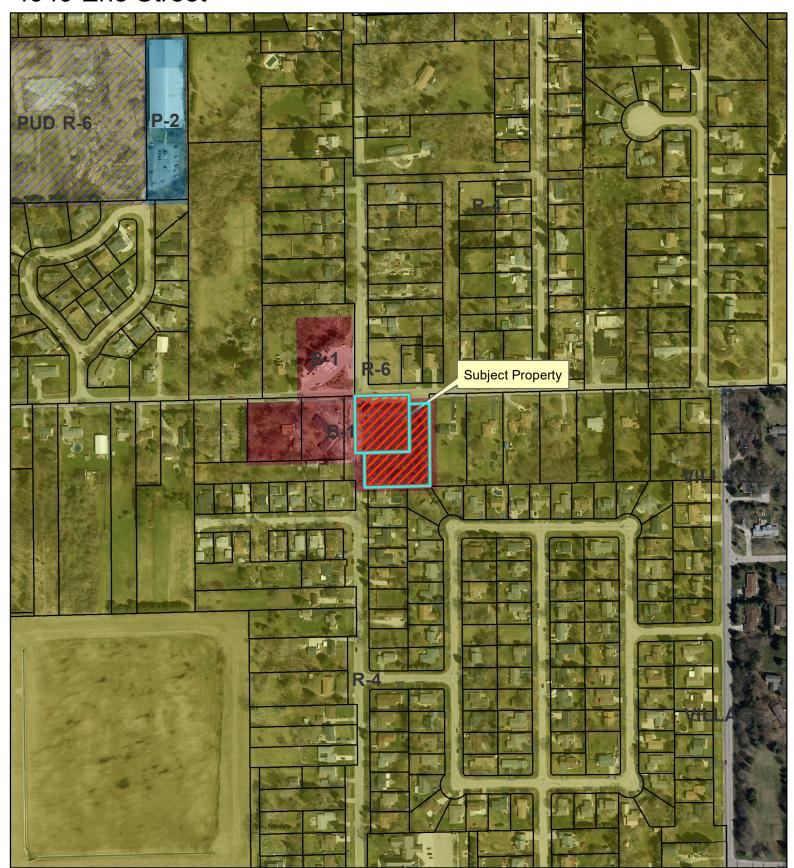
- 8. <u>Landscaping.</u> Landscaping at the site must be in compliance with the submitted Landscaping Plan received on October 18, 2021. The Village may require a letter of credit or bond to be posted to ensure implementation and maintenance. Landscaping shall comply with Title 16. The landscaping plan shall follow the Village of Caledonia planting requirements. Landscaping shall be maintained in a living condition and any landscaping that dies or is otherwise removed shall be immediately replaced.
- 9. <u>Lighting</u>. The lighting plan must be in compliance with the submitted lighting plan October 14, 2021. All lighting at the site must be full cut-off lights that may not glare onto abutting properties or onto any public roadway. Following installation, owner shall contact Village for an inspection to ensure that lighting was properly installed.
- 10. <u>Signage.</u> Prior to installation of any signs, a sign permit will be required prior to installation and meet all sign regulations in Title 16. Internally lit cabinet wall signs, banners, balloons, flashing, or animated signs are prohibited.
- 11. **No Accumulation of Refuse and Debris.** Any fence, wall, hedge, yard, space, or landscaped area must be kept free of any accumulation of refuse or debris. Plant materials must be kept in a healthy growing condition and structures must be maintained in a sound manner.
- 12. <u>Performance Standards.</u> The applicant must comply with the provisions of Article VII, Division 4, Performance Standards of Chapter 20, Zoning, Racine County Code of Ordinances, as adopted by the Village of Caledonia.
- 13. Property Maintenance Required. A complete and thorough maintenance program must be established to insure attractiveness. The continued positive appearance of buildings and property is dependent upon proper maintenance attitudes and procedures. Maintenance programs must be established that include watering, maintaining, and pruning all landscape planting areas including removal and replacement of dead or diseased landscaping; cleaning up litter; sweeping, cleaning, and repairing paved surfaces; and cleaning, painting, and repairing windows and building façade.
- 14. <u>Outdoor Display of Merchandise.</u> Outdoor storage will be limited to one ice chest box. The display of merchandise outdoors is prohibited. Such items shall include but not limited to propane exchange, firewood, general merchandise, redbox, and other retail goods.
- 15. **Expiration.** This approval will expire twelve (12) months from the date of the Village's final approval unless substantial work has commenced following such grant. If this office determines that no substantial work has commenced, the development will be required to resubmit their application and go through the conditional use process.
- 16. <u>Access.</u> The applicant must allow any Village employee full and unlimited access to the project site at a reasonable time to investigate the project's construction, operation, or maintenance.
- 17. <u>Compliance with Law.</u> The applicant is responsible for obtaining all necessary federal, state, and local permits, approvals, and licenses. The applicant is required to comply with all applicable local, state, and federal regulations, including Titles 14, 16 and 18 of the Village of Caledonia Code of Ordinances.

- 18. Reimburse Village Costs. Applicant shall reimburse to the Village all costs incurred by the Village for review of this conditional use including but not limited to engineering, legal and planning review that occurred prior to permit issuance and during the implementation of the plans and construction of the improvements.
- 19. Amendments to Building, Site & Operations Plan. No additions, deletions, or changes may be made to the project, site plan, or these conditions without the Village of Caledonia's prior approval. All addition, deletion, and/or change requests must be submitted to the Village of Caledonia in writing. A minor change to the conditions of this permit, as deemed by the Village Development Director, may be made at a staff level, if authorized by the Village Development Director.
- 20. <u>Caledonia Utility District.</u> The property owner or designated agent must contact the Caledonia Utility District regarding Utility District regulations for this site. Compliance with all regulations and requirements, as determined by the Caledonia Utility District is required.
- 21. <u>Site Plan and Title 16 Review.</u> The final site plan and site design and architectural details required under Title 16 of the Village's Code of Ordinances shall be reviewed and approved for compliance by the Village Development Director.
- 22. Agreement. You are accepting the conditions of approval and the beginning the project means that you have read, understand, and agree to follow all conditions of this approval. Therefore, Peter Oleszczuk, Midwest WI LLC, Manveer & Chaman Real Estate Inc., and their heirs, successors, and assigns, including tenants, are responsible for full compliance with the above conditions.
- 23. <u>Subsequent Owners.</u> It is the property owner's responsibility to inform any subsequent owner or operator of these conditions.

Respectfully submitted:

Peter Wagner, ACP
Development Director

Location Map 4949 Erie Street











November 23, 2021

Peter Wagner Village of Caledonia 5043 Chester Lane Racine, WI 53402

RE: Dollar General - 4949 Erie Street Location Rationale

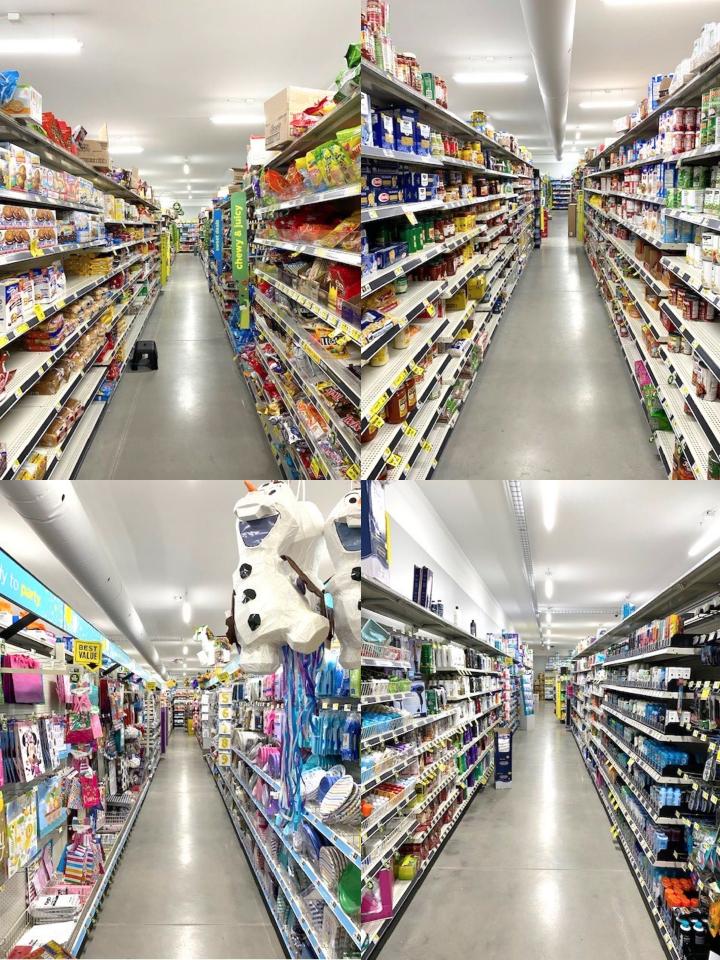
Mr. Wagner,

I am writing this letter to address the concerns of the public regarding the need for a midsized general retailer at the above-referenced location. Per the most recent census data, there is a population of 6,882 within approximately 3 square miles of the proposed development. Besides the Casey's gas station, Rice's 4 Mile Liquor and MJ Petroleum, there are currently no general retailers or grocers available to consumers within this area. Due to the success of the existing surrounding stores, Dollar General has identified a clear demand for a new store at this location. The nearest Dollar General is located 2.5 Miles southwest at 3440 Douglas Avenue in Racine, Wisconsin, and currently provides customers with non-perishable foodstuffs, frozen and refrigerated grocery items, household products, beauty/personal care items, apparel and over the counter medications. The proposed Dollar General will provide all those items plus expanded refrigerated and frozen groceries and additional square footage to accommodate fresh produce items and prescription medications in the future. The store will provide for the local public's daily needs at an affordable price. As the preferred developer, we are planning on investing \$1,760,000 to develop a new Dollar General on this vacant land that will provide jobs for 6-8 people. Along with this letter, I have included some photos of a similar wood prototype store as reference for future discussion.

Sincerely,

Scott Knowlton Midwest WI, LLC

VP - General Counsel



GENERAL NOTES:

- CONTACT DIGGER'S HOTLINE 5 WORKING DAYS PRIOR TO THE START OF DEMOLITION/CONSTRUCTION. 2. ALL DEMOLITION MATERIALS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL MANNER EXCEPT FOR THOSE ITEMS NOTED TO BE SALVAGED, WHICH SHOULD BE TURNED OVER TO THE OWNER.
- 3. INSTALL AND MAINTAIN ALL REQUIRED EROSION CONTROL MEASURES FOR PERIMETER PROTECTION PRIOR TO THE START OF DEMOLITION/CONSTRUCTION, IN ACCORDANCE WITH THE LOCAL AND STATE GOVERNING AUTHORITIES.
- 4. BIDDERS SHALL VISIT THE SITE AND REVIEW EXISTING CONDITIONS PRIOR TO THE BID DATE. COORDINATE WITH THE OWNER AND LOCAL UTILITY COMPANIES TO LOCATE ANY EXISTING UTILITIES ON SITE PRIOR TO THE START OF WORK.
- 6. ANY EXISTING UTILITIES NOT SHOWN ON THIS DOCUMENT WHICH NEED TO BE REMOVED, RELOCATED, AND/OR ADJUSTED SHALL BE THE RESPONSIBILITY OF THE SITE GRADING CONTRACTOR AND INCLUDED IN THE BASE BID
- 7. STRIP TOPSOIL WITHIN THE PROJECT LIMITS IN ACCORDANCE WITH THE PROJECT MANUAL SPECIFICATIONS. 8. IF STRIPPED TOPSOIL IS STOCKPILED ON SITE, SILT FENCE SHALL BE INSTALLED AROUND THE BASE OF THE STOCKPILE TO PREVENT SEDIMENT TRANSPORT.
- 9. PRIOR TO PERFORMING WORK WITHIN PUBLIC RIGHT OF WAYS, NOTIFY AND COORDINATE WORK WITH THE LOCAL
- 10. MAINTAIN TRAFFIC CIRCULATION TO ALL RETAIL AND COMMERCIAL BUILDINGS SHOWN ON THIS DOCUMENT. COORDINATE ALL WORK WITH SAID BUSINESSES.

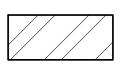
KEYNOTES:

- 1.) CLEAR AND GRUB EXISTING TREES
- 2.) MAINTAIN EXISTING TREES
- 3.) REMOVE EXISTING GRAVEL SHOULDER
- 4.) MAINTAIN EXISTING GRAVEL SHOULDER
- 5.) REMOVE WOODEN POST
- 6.) MAINTAIN EXISTING SIGN
- 7.) RELOCATE TELEPHONE PEDESTAL COORDINATE RELOCATION WITH ELECTRICAL COMPANY
- 8.) RELOCATE TELEPHONE PEDESTAL COORDINATE RELOCATION WITH ELECTRICAL COMPANY

DEMOLITION HATCH PATTERNS:



VEGETATIVE BUFFER DO NOT



REMOVE GRAVEL

MAINTAIN GRAVEL

DISTURB

C1.0 DEMOLITION PLAN C2.0 LAYOUT PLAN C3.0 GRADING PLAN C4.0 EROSION CONTROL PLAN C5.0 UTILITY PLAN C6.0 DETAILS C6.1 DETAILS L1.0 LANDSCAPING PLAN

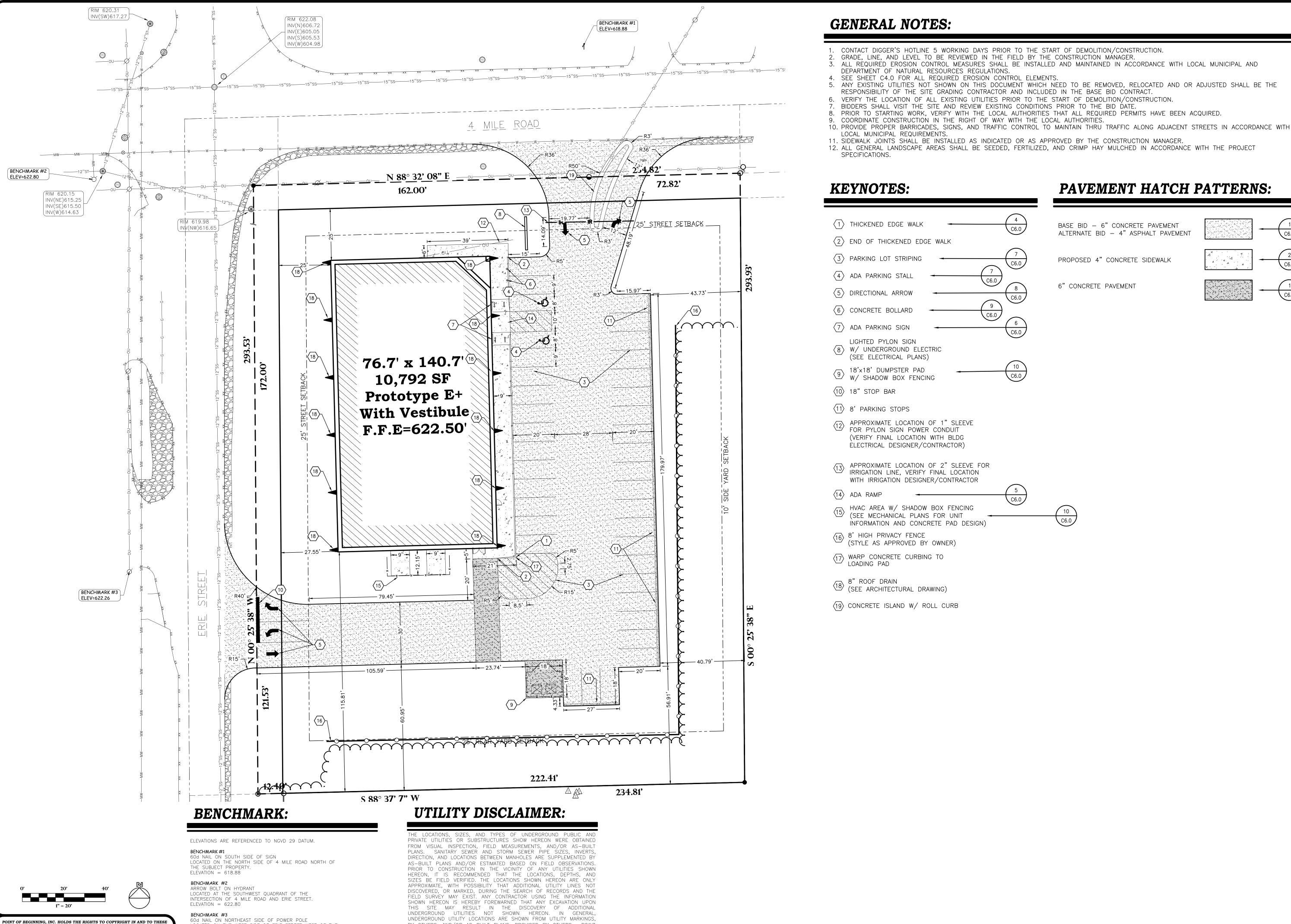
CIVIL SHEET INDEX:

CHECKED: DRAWN: DATE

10/11/2021 PROJECT NO. 21.028

Civil Engineering Land Surveying Landscape Arch

C1.0



BY OTHERS, AND/OR AS-BUILT PLANS, PROVIDED BY OTHERS. POINT

OF BEGINNING MAKES NO WARRANTY OF ANY KIND, EXPRESS OR

IMPLIED, WITH RESPECT TO THE EXISTING UTILITIES SHOWN HEREON,

AND BELIEVES THAT THE INFORMATION CONTAINED HEREIN IS RELIABLE

AND GENERALLY ACCURATE FOR THE PURPOSE INTENDED.

LOCATED ON THE WEST SIDE OF ERIE STREET WEST OF THE

ELEVATION = 622.26

PRINTS, DRAWINGS AND DOCUMENTS. NO REPRODUCTION, COPYING, ALTERATIO MODIFICATION, USAGE, INCORPORATION INTO OTHER DOCUMENTS OR

ASSIGNMENT OF THE SAME MAY OCCUR WITHOUT THE PRIOR WRITTEN

PERMISSION OF POINT OF BEGINNING, INC.

CHECKED: DRAWN:

DATE 10/11/2021 PROJECT NO. 21.028

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Civil Engineering Land Surveying Landscape Arch

C2.0

60d NAIL ON NORTHEAST SIDE OF POWER POLE

ELEVATION = 622.26

LOCATED ON THE WEST SIDE OF ERIE STREET WEST OF THE

POINT OF BEGINNING, INC. HOLDS THE RIGHTS TO COPYRIGHT IN AND TO THES

PRINTS, DRAWINGS AND DOCUMENTS. NO REPRODUCTION, COPYING, ALTERATION

ASSIGNMENT OF THE SAME MAY OCCUR WITHOUT THE PRIOR WRITTEN

PERMISSION OF POINT OF BEGINNING, INC.

UNDERGROUND UTILITY LOCATIONS ARE SHOWN FROM UTILITY MARKINGS,

BY OTHERS, AND/OR AS-BUILT PLANS, PROVIDED BY OTHERS. POINT

IMPLIED, WITH RESPECT TO THE EXISTING UTILITIES SHOWN HEREON,

AND BELIEVES THAT THE INFORMATION CONTAINED HEREIN IS RELIABLE

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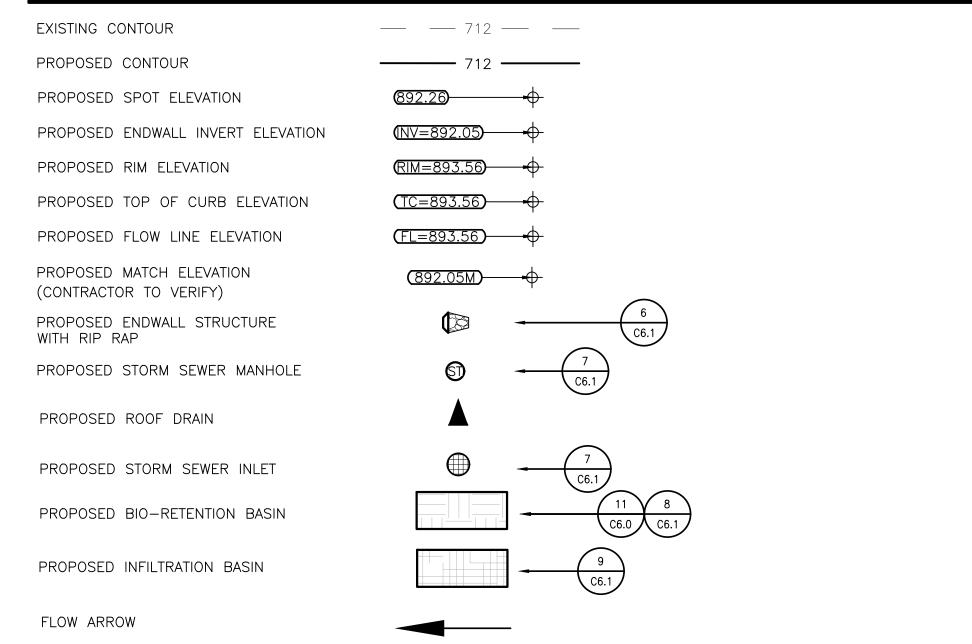
GENERAL NOTES:

- CONTACT DIGGER'S HOTLINE 5 WORKING DAYS PRIOR TO THE START OF DEMOLITION/CONSTRUCTION.
- THE PROPOSED SITE PLAN FINISH FLOOR ELEVATION OF 622.500' EQUALS THE PROPOSED BUILDING ARCHITECTURAL FINISH FLOOR ELEVATION OF 100.00'.
- GRADE, LINE, AND LEVEL SHALL BE REVIEWED IN THE FIELD BY THE CONSTRUCTION MANAGER.

6. SEE SHEET C4.0 FOR ALL REQUIRED EROSION CONTROL ELEMENTS

- INSTALL AND MAINTAIN ALL REQUIRED EROSION CONTROL MEASURES IN ACCORDANCE WITH LOCAL MUNICIPAL AND DEPARTMENT OF NATURAL RESOURCES REGULATIONS.
- 6" OF TOPSOIL SHALL BE PROVIDED IN ALL GENERAL LAWN AREAS AND 12" SHALL BE PROVIDED IN ALL PLANTING BED AREAS.
- 7. ANY EXISTING UTILITIES NOT SHOWN ON THIS DOCUMENT WHICH NEED TO BE REMOVED, RELOCATED, AND/OR ADJUSTED SHALL BE THE RESPONSIBILITY OF THE SITE GRADING CONTRACTOR AND INCLUDED IN THE BASE BID
- 8. COORDINATE ALL EARTHWORK ACTIVITIES WITH THE RESPECTIVE TRADES RESPONSIBLE FOR THE INSTALLATION OF GAS, CABLE, TELEPHONE AND ELECTRICAL (INCLUDING MAIN SERVICE, SITE LIGHTING, CONDUITS AND
- 9. PROVIDE RIP RAP AT ALL CULVERT ENDWALL STRUCTURES TO PREVENT WASHOUT AND EROSION.
- 10. INSTALL WISDOT TYPE HR FILTER FABRIC BENEATH UNDER RIP RAP. 11. EXCESS TOPSOIL SHALL BE REMOVED FROM SITE, UNLESS OTHERWISE DIRECTED BY THE OWNER. COORDINATE WITH OWNER FOR LOCATION OF STOCKPILE IF THE OWNER CHOOSES TO SALVAGE EXCESS TOPSOIL FOR FUTURE USE. SILT FENCE SHALL BE PLACED AROUND STOCKPILE.
- 12. THE ENGINEERED SOIL SHALL NOT BE PLACED IN THE BIORETENTION AREAS UNTIL THE SURROUNDING DRAINAGE AREA HAS BEEN FULLY STABILIZED. ALL CONSTRUCTION SITE SEDIMENT SHALL BE REMOVED FROM THE SUBGRADE OF THE BIORETENTION AREA PRIOR TO PLACEMENT OF THE ENGINEERED SOIL.
- 13. ALL TESTING AND INSPECTION SHALL BE DONE IN ACCORDANCE WITH SPS 382.21. 14. THE LOCAL MUNICIPALITY SHALL BE CONTACTED PRIOR TO ANY EXCAVATION IN THE PUBLIC RIGHT-OF-WAY.
- 15. THE CONTRACTOR SHALL HAVE HIS TRAFFIC CONTROL PLAN APPROVED PRIOR TO WORK COMMENCING. 16. THE LOCAL MUNICIPALITY SHALL OPERATE ALL EXISTING WATER VALVES IF NEEDED.
- 17. GRADES AT BUILDING EDGE SHALL BE 6" BELOW FINISHED FLOOR ELEVATION EXCEPT AT DOOR WAY ENTRANCES
- OR UNLESS OTHERWISE NOTED.

GRADING LEGEND:



NOTES ON BIO-RETENTION AREAS

*NOTES:

• ENGINEERED SOIL SHALL NOT BE INSTALLED UNTIL GRADING IS COMPLETE

• ENGINEERED SOIL SHALL NOT BE INSTALLED UNTIL GRADING IS COMPLETE

• ENGINEERED TEMPORARII Y STARII IZED TO PREVEN AND DISTURBED GROUND HAS BEEN TEMPORARILY STABILIZED TO PREVENT

- DO NOT ADD ENGINEERED MEDIA UNTIL SITE PAVING HAS OCCURRED AND TURF AREAS HAVE BEEN ESTABLISHED WITH VEGETATION.
- ENGINEERED MEDIA TO BE INSTALLED WITH NO MECHANICAL COMPACTION (INCLUDING EQUIPMENT TRACKING).
- ENGINEERED MEDIA TO BE INSTALLED IN 6 INCH LIFTS AND SPRINKLER WATERED (TO SIMULATE RAINFALL) AT EACH LIFT TO ACHIEVE SETTLEMENT. ALTERNATÈLY, ENGINEERED MEDIA MAY BE PLACED IN 6 INCH LIFTS WITHOUT WATERING AND FINISHED GRADE PLACED 3 INCHES ABOVE THE PLAN ELEVATION TO ACCOUNT FOR EXPECTED SETTLEMENT DURING INITIAL

ENGINEERED SOIL COMPOSITION-The soil shall be engineered to the following

(1) The planting mixture shall consist of a mixture of 70 to 85% sand and 15 to 30% compost. The percentages are based on volume. Special attention should be given to plant selection when the percentage of sand exceeds 75%.

Note: This mixture meets the equivalent level of protection as determined by DNR. (2) The sand shall meet one of the following gradation requirements: ·USDA Coarse Sand (.02 - .04 inches)

ASTM C33 (Fine Aggregate Concrete Sand) Wisconsin Standards and Specifications for Highway and Structure Construction, Section 501.2.5.3.4. (Fine Aggregate Concrete Sand) 2005 edition, or an equivalent as approved by the administering authority. The preferred sand component consists of mostly SiO2, but sand consisting of dolomite or calcium carbonate may also be used. Manufactured sand or stone dust is not allowed. The sand shall be washed and drained to remove clay and silt particles prior to mixing.

(3) The compost component shall meet the requirements of Wisconsin Department of Natural Resources Specification S100, Compost.

(4) The engineered soil mix shall be free of rocks, stumps, roots, brush or other material over 1 inch in diameter. No other materials shall be mixed with the planting soil that may be harmful to plant growth or prove a hindrance to planting or maintenance.

(5) The engineered soil mix shall have a pH between 5.5 and 6.5.

(6) The engineered soil mix shall have adequate nutrient content to meet plant growth

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Civil Engineering Land Surveying Landscape Arch

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AND BELIEVES THAT THE INFORMATION CONTAINED HEREIN IS RELIABLE

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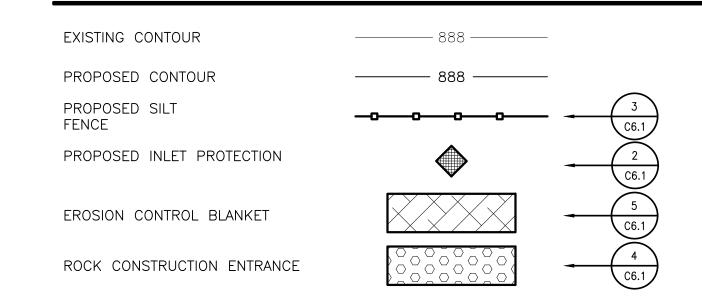
ELEVATION = 622.26

ASSIGNMENT OF THE SAME MAY OCCUR WITHOUT THE PRIOR WRITTEN

GENERAL NOTES:

- CONTACT DIGGER'S HOTLINE 5 WORKING DAYS PRIOR TO THE START OF DEMOLITION/CONSTRUCTION.
- NOTIFY THE LOCAL MUNICIPALITY AT LEAST 2 WORKING DAYS PRIOR TO THE START OF SOIL DISTURBING ACTIVITIES. INSTALL ALL TEMPORARY EROSION CONTROL ELEMENTS PRIOR TO THE START OF DEMOLITION/CONSTRUCTION.
- 4. ALL ACTIVITIES SHALL BE CONDUCTED IN A LOGICAL SEQUENCE TO MINIMIZE THE AMOUNT OF BARE SOIL EXPOSED AT ANY ONE TIME. MAINTAIN EXISTING VEGETATION AS LONG AS POSSIBLE.
- 5. CRUSHED ROCK DRIVES FOR SEDIMENT TRACKING UTILIZING 3" CRUSHED ROCK SHALL BE MAINTAINED AT ALL CONSTRUCTION ENTRANCES TO THE SITE. THE ROCK DRIVE SHALL BE A MINIMUM OF 12" THICK AND BE A MINIMUM OF 50 FEET IN LENGTH BY THE WIDTH OF THE DRIVEWAY. OFF SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF A STORM EVENT SHALL BE CLEANED UP BY THE END OF THE
- NEXT WORK DAY. ALL OFF SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF CONSTRUCTION ACTIVITIES, INCLUDING SOIL TRACKED BY CONSTRUCTION TRAFFIC, SHALL AT A MINIMUM BE CLEANED BY THE END OF EACH WORK DAY. EXCESSIVE AMOUNTS OF SEDIMENT OR OTHER DEBRIS TRACKED ONTO ADJACENT STREETS SHALL BE CLEANED BY THE END OF EACH WORK DAY. EXCESSIVE AMOUNTS OF SEDIMENT OR OTHER DEBRIS TRACKED ONTO ADJACENT STREETS SHALL BE CLEANED IMMEDIATELY. FINE SEDIMENT ACCUMULATIONS SHALL BE CLEANED FROM ADJACENT STREETS BY THE USE OF MECHANICAL
- OR MANUAL SWEEPING OPERATIONS ONCE A WEEK AT A MINIMUM AND BEFORE IMMINENT RAIN EVENTS DISTURBED GROUND OUTSIDE OF THE EVERYDAY CONSTRUCTION AREAS, INCLUDING SOIL STOCKPILES, THAT ARE LEFT INACTIVE FOR MORE THAN 7 DAYS SHALL BE TEMPORARILY STABILIZED BY SEEDING/MULCHING OR OTHER APPROVED METHODS.
- 8. WASTE MATERIAL THAT IS GENERATED ON THE CONSTRUCTION SITE SHALL BE PROPERLY DISPOSED OF AND NOT ALLOWED TO RUN INTO RECEIVING WATERS.
- EROSION CONTROL DEVICES DESTROYED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE END OF
- 10. INSPECT ALL EROSION CONTROL MEASURES AT LEAST ONCE A WEEK AND AFTER ANY RAINFALL OF 0.5" OR MORE. MAKE NEEDED REPAIRS AND DOCUMENT ALL ACTIVITIES AS PER THE REQUIREMENTS OF THE NOTICE OF INTENT SUBMITTED BY THE PROJECT CIVIL ENGINEER.
- 11. ALL TEMPORARY EROSION CONTROL ELEMENTS SHALL REMAIN IN PLACE UNTIL A SUFFICIENT GROWTH OF VEGETATION IS ESTABLISHED AND THEN BE REMOVED AS PART OF THE BASE BID.
- 12. IF SEDIMENT LADEN WATER NEEDS TO BE REMOVED FROM THE SITE, FILTER BAGS OR SCREENING SHALL BE USED IN ACCORDANCE WITH WI DNR TECHNICAL STANDARD 1061 TO PREVENT SEDIMENT DISCHARGE TO THE MAXIMUM EXTENT PRACTICABLE.
- 13. COORDINATE ALL EARTHWORK ACTIVITIES WITH THE RESPECTIVE TRADES RESPONSIBLE FOR THE INSTALLATION OF GAS, CABLE, TELEPHONE AND ELECTRICAL (INCLUDING MAIN SERVICE, SITE LIGHTING, CONDUITS AND SIGNAGE).
- 14. PROVIDE RIP RAP AT ALL CULVERT ENDWALL STRUCTURES TO PREVENT WASHOUT AND EROSION. 15. INSTALL WISDOT TYPE HR FILTER FABRIC BENEATH UNDER RIP RAP.
- 16. IF BARE SOIL IS EXPOSED DURING THE WINTER MONTHS, STABILIZATION BY MULCHING OR ANIONIC POLYACRYLAMIDE SHALL
- OCCUR PRIOR TO SNOWFALL OR GROUND FREEZE. 17. SILT FENCE SHALL BE INSTALLED AROUND THE TOPSOIL STOCKPILE.
- 18. SILT FENCE SHALL BE INSTALLED AROUND THE BIORETENTION AREA IMMEDIATELY FOLLOWING INSTALLATION OF THE ENGINEERED SOIL TO PROTECT IT FROM SILT CONTAMINATION.
- 19. THE ENGINEERED SOIL SHALL NOT BE PLACED IN THE BIORETENTION AREAS UNTIL THE SURROUNDING DRAINAGE AREA HAS BEEN FULLY STABILIZED. ALL CONSTRUCTION SITE SEDIMENT SHALL BE REMOVED FROM THE SUBGRADE OF THE BIORETENTION AREA PRIOR TO PLACEMENT OF THE ENGINEERED SOIL.
- 20. THE CONTRACTOR SHALL PERFORM INSPECTIONS AND MONITORING OF EROSION CONTROL PRACTICES IN ACCORDANCE WITH THE WI DNR "CONSTRUCTION SITE INSPECTION REPORT" FORM 3400-187. THIS FORM CAN BE FOUND IN THE CONSTRUCTION SPECIFICATIONS.

EROSION CONTROL LEGEND:



EROSION CONTROL SEQUENCING:

- INSTALL PERIMETER EROSION CONTROL
- 2. EXCAVATE A TEMPORARY SEDIMENT TRAP AT THE PROPOSED BIO-RETENTION AREA IN ACCORDANCE WITH DNR TECHNICAL STANDARD 1063
- 2.1. SEDIMENT TRAP BOTTOM BASIN ELEVATION SHALL BE P1=617.30', P2=617.150',
- P3=618.00' 2.2. EXCAVATE SWALES NORTH AND EAST FROM THE BASIN TO DIRECT AND MAXIMIZE STORMWATER RUNOFF TO THIS BASIN DURING CONSTRUCTION
- 4. BEGIN ROUGH GRADING AND UTILITY INSTALLATION 5. DURING GRADING ACTIVITIES EXISTING GRASS AND VEGETATION, TO BE REMOVED, SHALL
- REMAIN IN PLACE FOR AS LONG AS POSSIBLE, TO AVOID SEDIMENT TRANSPORT 6. TEMPORARY STABILIZATION ACTIVITY SHALL COMMENCE WHEN LAND DISTURBING
- CONSTRUCTION ACTIVITIES HAVE TEMPORARILY CEASED AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS.
- 7. FINAL STABILIZATION ACTIVITY SHALL COMMENCE WHEN LAND DISTURBING ACTIVITIES CEASE AND FINAL GRADE HAS BEEN REACHED ON ANY PORTION OF THE SITE.
- 8. PER GENERAL NOTE #19, THE SEDIMENT TRAP SHALL BE RECONSTRUCTED INTO THE PROPOSED BIO-RETENTION AREA AFTER THE SURROUNDING AREA HAS BEEN FULLY STABILIZED.
- 8.1. ANY CONSTRUCTION SITE SEDIMENT BUILD UP SHALL BE REMOVED FROM THE PROPOSED BIO-RETENTION BASIN BEFORE EXCAVATION TO THE FINAL DEPTH AND INSTALLATION OF THE ENGINEERED SOIL
- 9. IF DISTURBED AREAS MUST BE LEFT OVER WINTER, AN ANIONIC POLYACRYLAMIDE SHALL BE APPLIED TO ALL DISTURBED AREAS PRIOR TO GROUND FREEZE. SEE SPECIFICATIONS FOR

CHECKED: DRAWN: DATE

10/11/2021 PROJECT NO. 21.028

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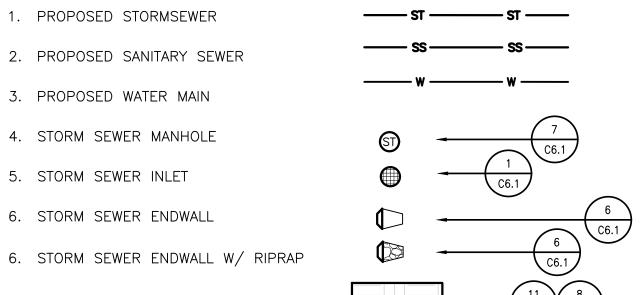


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GENERAL NOTES:

- CONTACT DIGGER'S HOTLINE 5 WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
- GRADE, LINE, AND LEVEL SHALL BE REVIEWED IN THE FIELD BY THE CONSTRUCTION MANAGER. ANY EXISTING UTILITIES NOT SHOWN ON THIS DOCUMENT WHICH NEED TO BE REMOVED, RELOCATED AND OR ADJUSTED SHALL BE THE RESPONSIBILITY OF THE SITE GRADING CONTRACTOR.
- 4. REFER TO THE PROPOSED BUILDING MECHANICAL/PLUMBING PLANS TO VERIFY EXACT CONNECTION LOCATIONS AND SIZES OF PROPOSED SANITARY SEWER AND WATER LATERALS.
- COORDINATE ALL UTILITY WORK WITH THE RESPECTIVE TRADES RESPONSIBLE FOR THE INSTALLATION OF GAS, CABLE, TELEPHONE AND
- ELECTRICAL (INCLUDING MAIN SERVICE, SITE LIGHTING, CONDUITS AND SIGNAGE).
- COORDINATE ALL WORK WITHIN THE PUBLIC RIGHT OF WAY WITH THE LOCAL MUNICIPALITY. . ALL TESTING AND INSPECTION SHALL BE DONE IN ACCORDANCE WITH SPS 382.21.
- 8. THE PROPOSED WATER MAIN SHALL HAVE A MINIMUM COVER OF 7'-6" TO THE TOP OF PIPE FROM PROPOSED FINISHED GRADE. SEE SHEET C3.0 FOR PROPOSED FINISHED GRADE.
- 9. THE MUNICIPALITY SHALL BE CONTACTED PRIOR TO ANY EXCAVATION IN THE PUBLIC RIGHT-OF-WAY, AND PRIOR TO CONNECTING SANITARY SEWER AND WATER LATERALS TO THE PUBLIC MAINS.
- 10. THE CONTRACTOR SHALL HAVE A TRAFFIC CONTROL PLAN APPROVED PRIOR TO WORK COMMENCING.
- 11. THE MUNICIPALITY SHALL OPERATE ALL EXISTING WATER VALVES, IF NEEDED. 12. FIELD VERIFY INVERT ELEVATION OF THE SANITARY SEWER AND WATER PUBLIC MAIN, AT THE LOCATION OF THE SERVICE LATERAL
- CONNECTIONS, PRIOR TO CONNECTING THE LATERALS TO THE PUBLIC MAIN.
- 13. PROVIDE RIP RAP AT ALL STORM ENDWALLS TO PREVENT WASHOUT AND EROSION.
 14. INSTALL WISDOT TYPE HR FILTER FABRIC BENEATH PROPOSED RIP RAP.

UTILITY LEGEND:



7. BIO-RETENTION BASIN

8. INFILTRATION BASIN

9. ROOF DRAIN

STORM STRUCTURE **SCHEDULE:**

STRUCTURE #	STRUCTURE DETAILS
ST #1	RIM = 620.65 INV (SE) = 617.15 INV (W) = 617.13 DEPTH = 3.52'
	36" I.D. PRECAST MANHOLE W/ NEENAH R-2556
ST # 2	RIM = 621.36 INV (E) = 616.72 INV (S) = 616.72 INV (NW) = 616.65 DEPTH = 4.71'
	48" I.D. PRECAST MANHOLE W/ NEENAH R-1555 CASTING W/ SOLID LID
ST #3	RIM = 620.38 INV (E) = 617.30 INV (N) = 617.30 DEPTH = 3.08'
"	48" I.D. PRECAST MANHOLE W/ NEENAH R-1555 CASTING W/ SOLID LID

STORM CLEAN OUT **SCHEDULE:**

STRUCTURE #	STRUCTURE DETAILS
CO #1	RIM = 620.50 INV (S) = 617.11 INV (N) = 617.11 DEPTH = 3.86
	8" STORM CLEANOUT
CO #2	RIM = 620.22 INV (S) = 616.75 INV (N) = 616.75 DEPTH = 3.95'
	8" STORM CLEANOUT
CO #3	RIM = 619.15 INV (NW) = 617.15 DEPTH = 2.00'
	8" STORM CLEANOUT
CO #4	RIM = 618.90 INV (W) = 617.30 DEPTH = 1.60'
	8" STORM CLEANOUT
CO #5	RIM = 622.17 INV (S) = 620.46 DEPTH = 1.71'
	STORM CLEANOUT

STORM ENDWALL **SCHEDULE:**

STRUCTURE #	STRUCTURE DETAILS
	INV (E) = 619.80
EW #1	8" HDPE ENDWALL W/ RIPRAP
EW #2	INV (N) = 619.30
Ενν π2	12" HDPE ENDWALL
EW #3	INV (S) = 619.15
	12" HDPE ENDWALL
EW #4	INV (W) = 619.15
# ·	12" HDPE ENDWALL
EW #5	INV (E) = 619.75
L., 110	12" HDPE ENDWALL

STORM ROOF DRAIN **SCHEDULE**

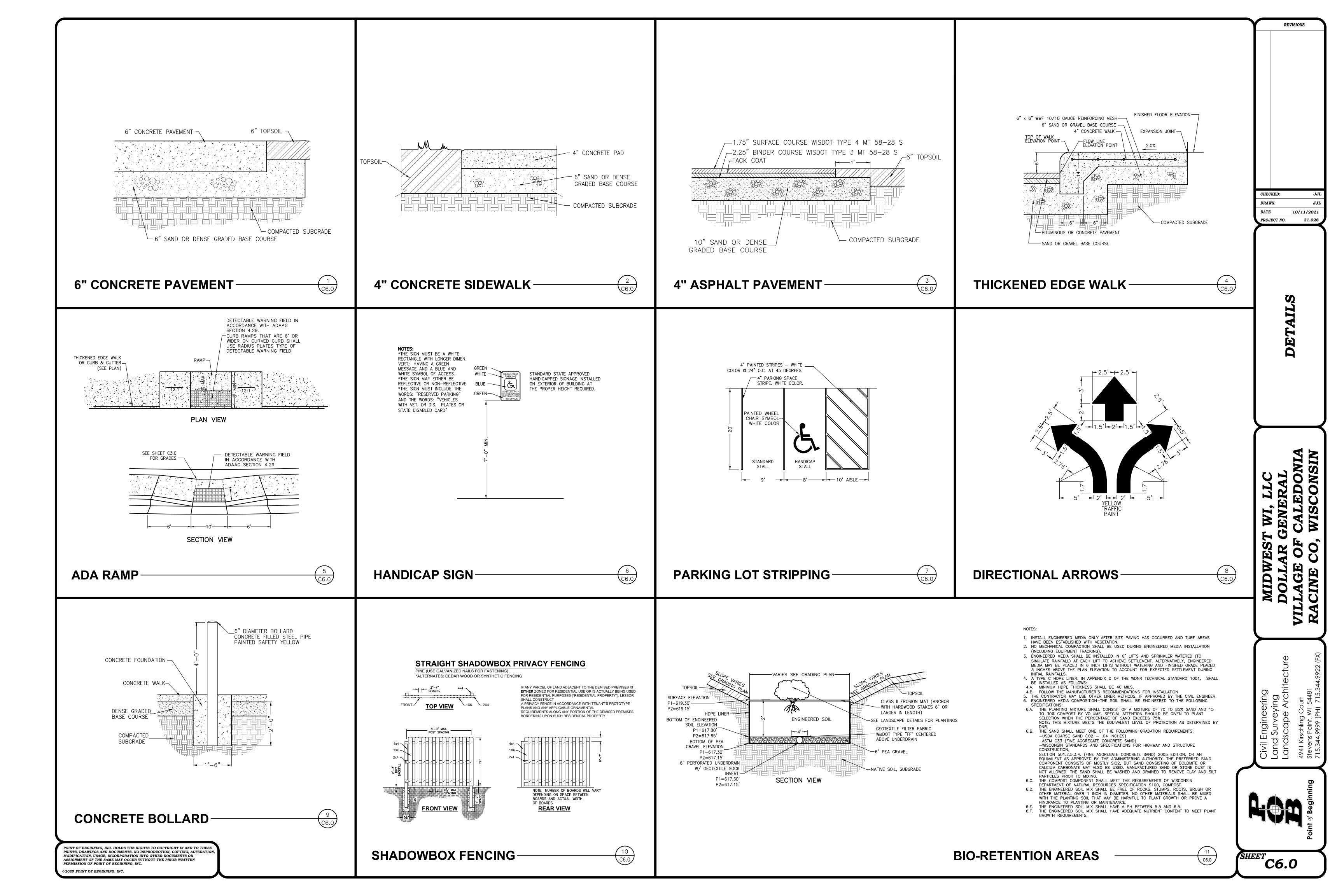
STRUCTURE #	STRUCTURE DETAILS
RD #1	RIM = 622.50 INV (E) = 620.47 DEPTH = 2.30'
	8" ROOF DRAIN
RD #2	RIM = 622.00 INV (E) = 620.39 DEPTH = 1.60'
	8" ROOF DRAIN
RD #3	RIM = 622.50 INV (E) = 620.32 DEPTH = 2.18'
	8" ROOF DRAIN
RD #4	RIM = 622.50 INV (E) = 620.25 DEPTH = 2.25'
	8" ROOF DRAIN
RD #5	RIM = 622.50 INV (E) = 620.18 DEPTH = 2.32'
	8" ROOF DRAIN
RD #6	RIM = 622.50 INV (E) = 620.10 DEPTH = 2.40'
	8" ROOF DRAIN

CHECKED: DRAWN: DATE 10/11/2021

PROJECT NO. 21.028

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AND GENERALLY ACCURATE FOR THE PURPOSE INTENDED.

GENERAL NOTES:

- CONTACT DIGGER'S HOTLINE 5 WORKING DAYS PRIOR TO THE START OF DEMOLITION/CONSTRUCTION.
- 6" OF TOPSOIL SHALL BE PROVIDED IN ALL GENERAL LANDSCAPE AREAS. LANDSCAPE CONTRACTOR SHALL VERIFY THAT SPECIFIED PLANTING SOIL DEPTH IS PRESENT PRIOR TO PLANTING.
- SEED/FERTILIZE/CRIMP HAY MULCH ALL GENERAL LANDSCAPE AREAS DISTURBED DURING CONSTRUCTION.
- 4. ALL PLANT MATERIALS LISTED SHALL MEET THE STANDARDS OF THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION FOR
- 5. ALL TREES SHALL BE STAKED WITH A MINIMUM OF THREE STAKES. ALL TREES IN THE TURF AREA SHALL HAVE A 5' DIAMETER CIRCLE OF 4" DEPTH SHREDDED HARDWOOD BARK MULCH.
- CURV-RITE LANDSCAPE EDGING (SERIES 3000, 3/16" X 4", W/MILL FINISH) OR APPROVED EQUAL SHALL BE PLACED AROUND ALL LANDSCAPE BEDS.
- 8. FILTER FABRIC, WISDOT TYPE HR, SHALL BE PLACED BENEATH ALL LANDSCAPE STONE. DEWITT WEED BARRIER-20 YEAR SHALL BE PLACED BENEATH ALL LANDSCAPE STONE IN PLANTING AREAS.
- VERIFY ALL UTILITY LOCATIONS IN THE FIELD PRIOR TO BEGINNING WORK. REPAIR ALL DAMAGED UTILITIES TO OWNER'S SATISFACTION AT NO ADDITIONAL COST.
- 10. THE CONTRACTOR SHALL MAINTAIN ALL PLANT MATERIAL AND LAWNS UNTIL THE PROJECT IS FULLY ACCEPTED BY THE LANDSCAPE ARCHITECT, UNLESS OTHERWISE NOTED.
- 11. ALL WORKMANSHIP AND MATERIALS SHALL BE GUARANTEED BY THE CONTRACTOR FOR A PERIOD OF TWO (2) CALENDAR YEARS AFTER FINAL ACCEPTANCE.
- 12. INSTALL ALL PLANT MATERIAL IN ACCORDANCE WITH ALL LOCAL CODES AND ORDINANCES. COORDINATE WITH OWNER TO
- OBTAIN ANY REQUIRED PERMITS NECESSARY TO COMPLETE WORK. 13. CONTRACTOR SHALL TEST ALL TREE PITS FOR DRAINAGE. ANY TREE PIT THAT HOLDS WATER FOR MORE THAN 24 HOURS
- SHALL BE INSTALLED USING TREE PIT DRAINAGE. 14. COORDINATE ALL LANDSCAPE WORK WITH GAS, ELECTRIC, (INCLUDING MAIN SERVICE, SITE LIGHTING, CONDUITS AND
- SIGNAGE) CABLE AND TELEPHONE CONSTRUCTION AND RESPECTIVE TRADES FOR THE INSTALLATION OF SAID UTILITIES.
- 15. 3" DEPTH OF 1-1/2" DIAMETER STONE MULCH SHALL BE PLACED IN PLANTING BEDS AS NOTED ON THIS SHEET. STONE FOR LANDSCAPE BEDS TO BE NATURALLY ROUNDED AND WASHED, GRADUATION FROM 1" TO 1-1/2" MAXIMUM, RIVER ROCK OR APPROVED EQUAL.

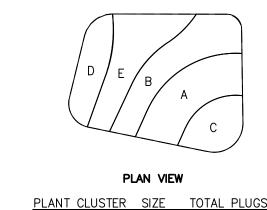
PLANTING SCHEDULE:

TREES SYMBOLS	BOTANICAL NAME	COMMON NAME	INSTALLATIO SIZE	N SIZE AT MATURITY	QUANTIT
MA	MAAKIA AMURENSIS	. AMUR MAAKIA	1.5" CAL.	20-30'T & W	3
GT	GLEDITSIA TRIACANTHOS VAR. INERMIS 'IN		2" CAL.	30-40'T & W	2
SR	SYRINGA RETICULATA 'IVORY SILK'	IVORY SILK TREE LILAC	1.5" CAL.	20'T & W	6
SHRUBS			INSTALLATION	SIZE AT	
SYMBOLS	BOTANICAL NAME	COMMON NAME	SIZE	MATURITY	QUANTITY
CA	CEANOTHUS AMERICANUS	NEW JERSEY TEA	#3	3-4'T X 4-5'W	15
DL	DIERVILLA LONICERA	NORTHERN BUSH HONEYSUCKLE	#3	3'T X 3-4'W	10
RR	ROSA RUGOSA 'MEITOZAURE'	RUGOSTAR RASPBERRY GROUNDCOVER ROS	SE #3	2-3'T X 3-5'W	24
TA	THUJA OCCIDENTALIS 'GOLDEN GLOBE'	GOLDEN GLOBE ARBORVITAE	#3	4'T & W	8
ТО	THUJA OCCIDENTALIS 'TECHNY'	TECHNY ARBORVITAE	5-7 ' T	12-15'T X 6-8'V	V 19
ORNAMEN ⁻	TAL GRASS		INSTALLATION	SIZE AT	
SYMBOLS	BOTANICAL NAME	COMMON NAME	SIZE	MATURITY	QUANTIT
CAF	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	KARL FOERSTER FEATHER REED GRASS	#2	6'T X 2'W	3

SITE PLAN RATIOS:

BITUMINOUS PAVEMENT OR CONCRETE: 19,425 S.F. OR 28.1%
BUILDING: 10,800 S.F. OR 15.7%
GREEN OR OPEN SPACE: 38,736 S.F. OR 56.2%

BIO-RETENTION PLANTING DETAILS



ANT CLUSTER SIZE TOTAL PLUGS PLUG PLUG PLUG PLUG 75 PLUG 100

COMMON NAME BOTANICAL NAME A-MONARDA FISTULOSA BERGAMOT SWEET BROWN-EYED SUSAN B-RUDBECKIA SUBTOMENTOSA C-LOBELIA SIPHILITICA GREAT BLUE LOBELIA D-CAREX VULPINOIDEA FOX SEDGE E-ASTER NOVAE-ANGLIAE NEW ENGLAND ASTER

PLUG 150 150 PLUG COMMON NAME A-MONARDA FISTULOSA BERGAMOT B-RUDBECKIA SUBTOMENTOSA SWEET BROWN-EYED SUSAN C-LOBELIA SIPHILITICA GREAT BLUE LOBELIA D-CAREX VULPINOIDEA FOX SEDGE E-ASTER NOVAE-ANGLIAE NEW ENGLAND ASTER **1 PLUG FOR EVERY 2 SQUARE FEET POND P1 PLANTING-

PLANT CLUSTER SIZE TOTAL PLUGS PLUG

PLUG

PLUG

300

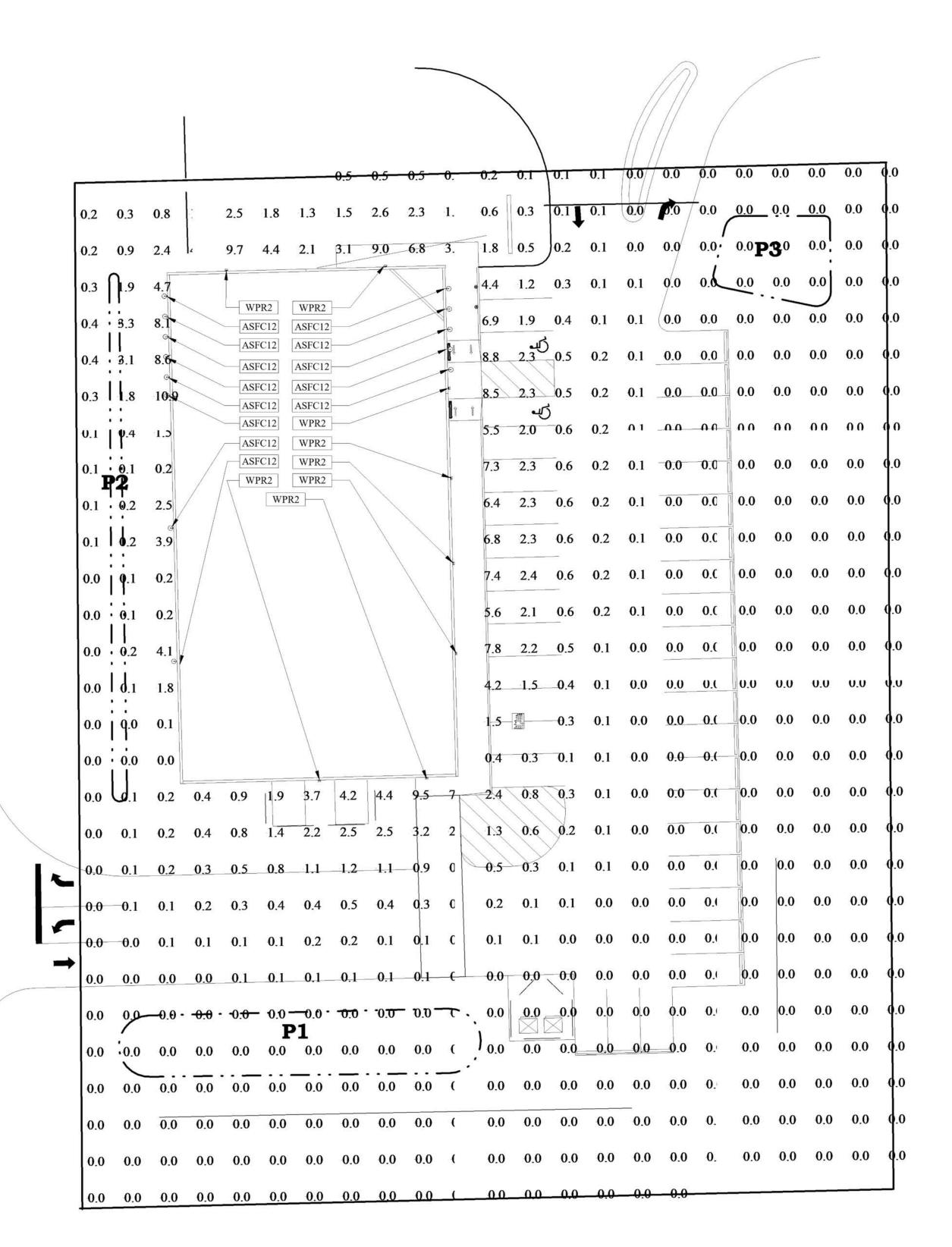
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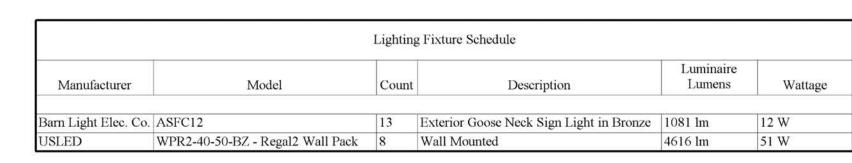


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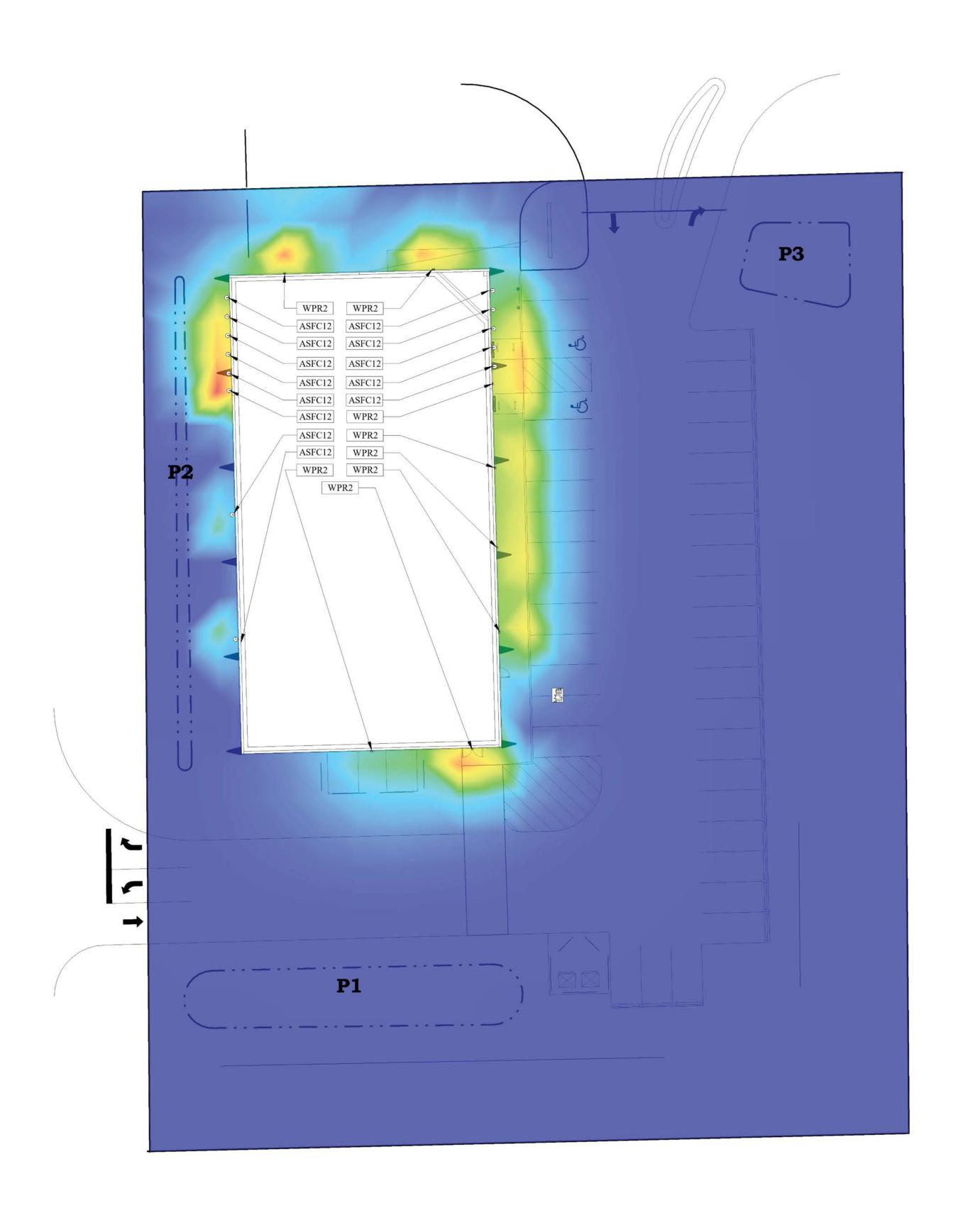
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Detail Filled Region	1 fc	11 fc	0 fc	435.6	8118

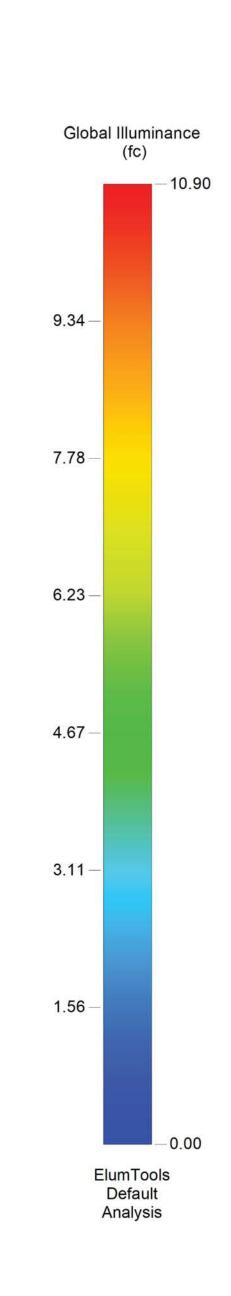
PROPOSED NEW
DOLLAR GENERA
Racine WI.

	Dollar C	General	
	PROJECT	NUMBER	
	XXX	XX	
DATE:	2021.1	10.14	
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No.	Revision S Descripti		Date
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	Conce		

Photometric Plan

E 400









PROPOSED NEW GENER

Dollar General PROJECT NUMBER

xxxxx 2021.10.14 DRAWN BY: CHECKED BY: JDV

Conceptual

Photometric Spacial Map

E 401



West Elevation
3/16" = 1'-0"

www.westwind.build | 616.842.2030

PROPOSED NEW BUILDING

RELIGITATION CONSTRUCTION

_		
	Dollar General	
	PROJECT NUMBER	1
	1211	
DATI	E: 2021.09.02	
DRA	WN BY: NTH	
CHEC	CKED BY: PO	
	Revision Schedule	
No.	Description	Date
	Conceptual	

ELEVATIONS

A2.0



2 Perspective



PERSPECTIVE

A2.1







13545 Watertown Plank Road, Suite 6 • Elm Grove, WI 53122 • (262) 797-9097 • www.tes.info

September 14, 2021

Anthony A. Bunkelman, PE Village of Caledonia 5043 Chester Lane Racine, WI 53402

RE: TIA Review

Proposed Dollar General 4 Mile Road & Erie Street Caledonia, WI

Dear Mr. Bunkelman,

The following is the results of our review of the traffic impact analysis completed by TADI and submitted to the Village of Caledonia on August 9, 2021.

The TIA from TADI has one major issue and several minor ones.

- 1. Traffic exiting to 4 Mile Road is only to turn right. There are no signs shown to require this exit movement to be right turn only. It also is very difficult to control traffic to be right turn only without a median directing them right. I attached a sketch for how this should be built. Two parking stalls are used to do this.
- 2. The pavement marking for the left turn eastbound on 4 Mile Road needs to be extended to provide left turns to the Dollar Store in a turn bay. This is also shown in the attached sketch.
- 3. The proportional traffic distribution in AM peak is 40% from the west, 20% from the north, 30% from the east and 10% from the south.
- 4. The proportional traffic distribution in PM peak is 40% from the west, 15% from the north, 25% from the east and 10% from the south.
- 5. The TIA report has traffic distributed 35% from the west, 15% from the north, 25% from the east and 25% from the south. The small amount of traffic is not impacted by this change.

The trip generation Table in the report has relatively small values so it will not change the LOS results for the correction of distribution.

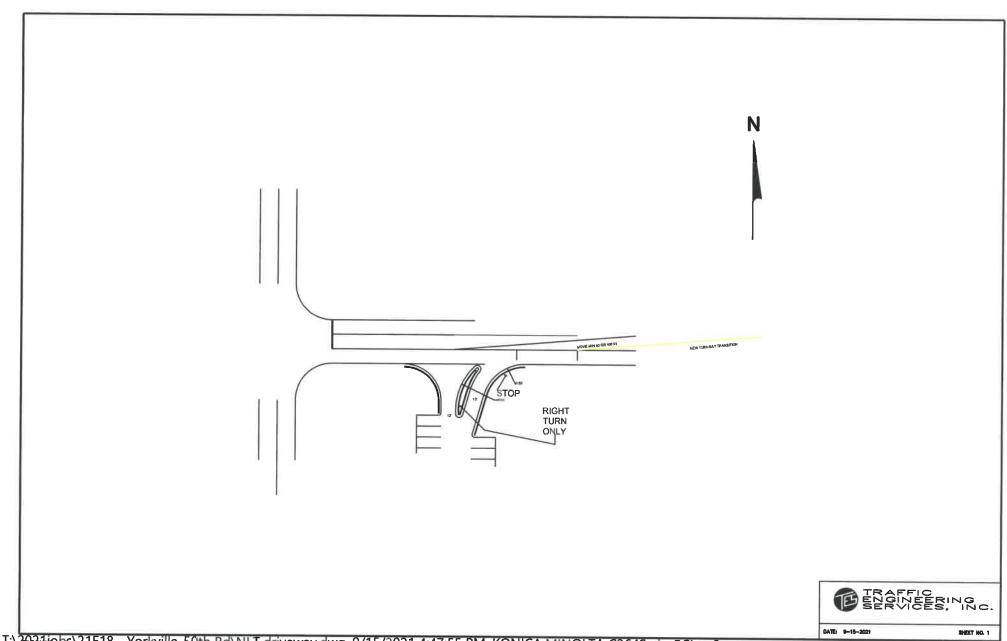
What is significant is the prohibition of the left out movement to 4 Mile Road and proper left turn storage inbound from 4 Mile Road.

Sincerely,

Wayne R. Higgins

Wayne R. Higgins, PE, PTOE

President



T:\2024jobs\21E18 - Yorkville_50th Rd\NJ-F-deiveway.dwg, 9/15/2021 4:47:55 PM-J, KONICA MINOLTA C364Series RCL.pc3

PLOT SCALE :





Date: September 21, 2021

Traffic Impact Analysis Memorandum

To: Anthony Bunkelman, P.E.

Village of Caledonia Public Works

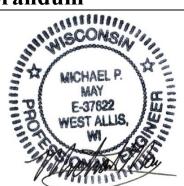
From: Michael May, P.E. PTOE

cc List: Jim Lundberg, P.E.

Point of Beginning, Inc.

Subject: Proposed Dollar General

Caledonia, Wisconsin



PART A – INTRODUCTION

Dollar General is proposed to be located in the southeast corner of 4 Mile Road & Erie Street on the east side of the Village of Caledonia, Racine County. A site location map is shown in Exhibit A. The Dollar General conceptual site plan is shown in Exhibit B. A traffic impact analysis (TIA) is required for the development in accordance with Village Resolution No. 2011-06.

TADI performed this TIA to determine and document the expected weekday morning and weekday evening peak hour operating conditions and recommendations at identified study area intersections. This report documents the procedures, findings, and conclusions of the analysis. The analysis identifies recommended modifications based on existing roadway conditions and additional traffic expected to be generated by Dollar General. Note that this TIA replaces a TIA submitted on August 9, 2021, is based on new counts performed with school in session, and includes traffic to/from the Waters Edge Place off-site development.

PART B - STUDY AREA & PROJECT DESCRIPTION

The study area includes the following intersections.

- 4 Mile Road & Erie Street (existing intersection, all-way stop control)
- 4 Mile Road & East Driveway (proposed intersection, one-way stop control)
- Erie Street & South Driveway (proposed intersection, one-way stop control)

A transportation detail illustrating existing intersection lane configurations and speed limits is shown in Exhibit C.

4 Mile Road is a two-lane east/west highway with a posted speed limit of 35 mph. According to WisDOT, the Year 2017 annual average daily traffic (AADT) volume on 4 Mile Road was approximately 6,600 vehicles per day (vpd) east of Erie Street. Exclusive left-turn lanes exist on

4 Mile Road at its intersection with Erie Street. No pedestrian, bicycle, or transit accommodations exist along 4 Mile Road within the study area.

Erie Street is a two-lane undivided north/south road with a posted speed limit of 30 mph. The WisDOT Year 2011 AADT volume was approximately 2,900 vpd north of 4 Mile Road. No dedicated turn lanes exist on Erie Street at 4 Mile Road. No pedestrian, bicycle, or transit accommodations exist along Erie Street within the study area. A Class B weight restriction is posted on Erie Street.

The study area is primarily built-out with residential development. A liquor store is located in the southwest corner of the intersection and a gas station with C-store is located in the northwest corner. The site of the proposed 10,640 square foot (sf) Dollar General is undeveloped and zoned B-1 Neighborhood Business District. As shown in Exhibit B, the development plan includes one left-in/right-in/right-out driveway along 4 Mile Road ("East Driveway") approximately 170-feet east of Erie Street (center-to-center) and one full-movement driveway along Erie Street ("South Driveway") approximately 235-feet south of 4 Mile Road (center-to-center).

PART C – TRAFFIC VOLUMES

C1. Year 2021 Background Traffic Volumes

An intersection turning movement traffic count was performed at 4 Mile Road & Erie Street from 6:00am to 9:00am and from 3:00pm to 6:00pm in mid-September 2021 while school was in session. Based on the counts, the weekday morning evening peak hours were identified as being 7:45 to 8:45am and 3:00 to 4:00pm under favorable weather conditions. The Year 2021 unadjusted existing traffic volumes are shown in Exhibit D1.

TADI compared the peak hour counts against WisDOT mainline hourly traffic volumes to determine if adjustments should be made.

- The peak hour turning movement volumes along Erie Street were higher than the hourly mainline volumes and, therefore, no adjustment was needed to volumes along and to/from Erie Street.
- Along 4 Mile Road, the weekday morning peak hour volumes were less than the hourly mainline volumes but the weekday evening peak hour volumes were more than the hourly mainline volumes. To bring the weekday morning turning movement volumes on 4 Mile Road at Erie Street up to the hourly mainline volumes, the weekday morning through volumes on 4 Mile Road were increased by 8.7% (a factor of 1.087).

The Year 2021 adjusted existing traffic volumes are shown in Exhibit D2.

The Waters Edge Place off-site development is planned north of 4 Mile Road with access to Erie Street. A TIA for Waters Edge Place was completed in January of 2021. The Waters Edge Place TIA contemplated a future 5 Mile Road extension. The Waters Edge Place new trips without 5 Mile Road extension are shown in Exhibit D3 while the Waters Edge Place new trips with a 5 Mile Road extension are shown in Exhibit D4. These trip assignments came from the Waters Edge Place TIA.

The Year 2021 background traffic were determined by summing the Year 2021 adjusted existing traffic volumes (Exhibit D2) and the Waters Edge Place new trips without 5 Mile Road extension (Exhibit D3). The resulting Year 2021 background traffic volumes used in the traffic analysis are shown in Exhibit D5.

C2. Year 2041 Background Traffic Volumes

Historical traffic counts from Year 1987 through Year 2017 were plotted to estimate the annual linear growth rate within the study area. The results, included in the appendices, show that traffic along Erie Street have been in steady decline since 1993 (i.e., a negative annual growth) while traffic along 4 Mile Road has been increasing at an annual growth rate of approximately 0.10% per year.

Though Erie Street has a negative annal growth and 4 Mile Road has a low 0.10% annual growth, a 0.50% annual growth rate was applied to the Year 2021 adjusted existing traffic volumes (Exhibit D2) to estimate the Year 2041 forecast traffic volumes shown in Exhibit E1.

As previously mentioned, the Waters Edge Place TIA contemplated a future 5 Mile Road extension. The TIA estimated that approximately 45% of traffic turning to/from the west from/to Erie at 4 Mile Road would divert and instead use the new 5 Mile Road extension. The Year 2041 5 Mile Road diverted trips are shown in Exhibit E2.

The Year 2041 background traffic were determined by summing the Year 2041 forecast traffic volumes (Exhibit E1), and the Waters Edge Place new trips with 5 Mile Road extension (Exhibit D4), and the Year 2041 5 Mile Road diverted trips. The resulting Year 2041 background traffic volumes used in the traffic analysis are shown in Exhibit E3.

C3. Development Traffic

To address potential future traffic impacts at the study area intersection, it is necessary to identify the hourly volume of traffic generated by Dollar General. The traffic volumes expected to be generated by Dollar General are based on the size and type of the proposed use and on trip rates published in the Institute of Transportation Engineers' (ITE) *Trip Generation Manual*, 10th *Edition*, 2017. The Dollar General trip generation is shown below in Table 1.

Table 1
Dollar General Trip Generation Table

	ITE		Weekday	AM Peak		PM Peak			
Land Use	Code	Proposed Size	Daily	In	Out	Total	In	Out	Total
Dollar General	814	10.64 x 1,000 SF	680	20	15	35	40	35	75
Dollar Gerleral	014	10.04 X 1,000 31	(63.47)	(57%)	(43%)	(3.18)	(52%)	(48%)	(6.84)
Total New Trips			680	20	15	35	40	35	75

The trip generation was assigned to the study area network with the estimate that 35% of development traffic will travel to/from the west on 4 Mile Road, 25% will travel to/from the east on 4 Mile Road, 15% will travel to/from the north on Erie Street, and 25% will travel to/from the south on Erie Street. The Dollar General new trips are shown in Exhibit F.

C4. Year 2021 Build & Year 2041 Build Traffic Volumes

The Year 2021 build traffic volumes, shown in Exhibit G, were determined by adding the Year 2021 background traffic volumes (Exhibit D5) to the Dollar General new trips (Exhibit F).

The Year 2041 build traffic volumes, shown in Exhibit H, were determined by adding the Year 2041 background traffic volumes (Exhibit E3) to the Dollar General new trips (Exhibit F).

PART D – INTERSECTION CAPACITY ANALYSIS

The study area intersections were analyzed based on the procedures set forth in the *Highway Capacity Manual*, *6th Edition*. Intersection operation is defined by "Level of Service". Level of Service (LOS) is a quantitative measure that refers to the overall quality of flow at an intersection ranging from very good, represented by LOS 'A', to very poor, represented by LOS 'F'. As is required for use in Village of Caledonia, LOS C (25-seconds or less of average vehicle delay) or better was used to define desirable peak hour operating conditions. Note that nearly all other communities in southeast Wisconsin require a LOS D (35-seconds or less of average vehicle delay) or better when defining desirable peak hour operating conditions. The analysis was performed using the existing transportation detail shown in Exhibit C. The driveways were analyzed using the layouts represented in the Dollar General site plan (Exhibit B).

As shown in the Tables 2 through 5, all movements are expected to operate at LOS C or better conditions through the Year 2021 both without and with the proposed Dollar General. By Year 2041, the intersection is expected to operate at LOS D or better conditions without and with the proposed Dollar General.

Table 2
Year 2021 Background Traffic Peak Hour Operating Conditions

Level of Service (LOS) per Movement by Approach															
				Le	evelo	f Service (LOS) per Movement by Approach									
	Peak		Eastbound			We	estbou	ınd	No	rthbou	ınd	So	LOS &		
Intersection	Hour	Metric	٦	л → Ы		Ľ	+	K	下 		K	\	Ľ	Delay	
		$Lanes \rightarrow$	1 1		1		1	1							
4 Mile Road &		LOS	В	ВС		Α	(В			В			С
Erie Street	AM	Delay	10	2	:1	9	1	5	12			14			16
All-Way Stop Control		Queue	20'	135'		20'	70'		20'			60'			
		LOS		С		A C			В		В			С	
	PM	Delay	11	20		9	18		12		13			16	
		Queue	20'	125'		20'	100'		30'			40'			

Delay is reported in seconds. Queue is the maximum of the 50th & 95th percentile queue, measured in feet.

Year 2041 Background Traffic Peak Hour Operating Conditions

rear 2041 Background Traine Feak flour Operating Conditions															
			Level of Service (LOS) per Movement									pproa	I/S		
	Peak		Eastbound			We	estbou	ınd	No	rthbou	und	So	LOS &		
Intersection	Hour	Metric	٦	→ Z		Ľ	+	K	K	↑	7	K	\	Ľ	Delay
		Lanes →	1	1		1		1	1						
4 Mile Road &		LOS	B D		Α			В			В			С	
Erie Street	AM	Delay	10	25 170'		9	16		12			14			19
All-Way Stop Control		Queue	20'			20'	85'		25'			50'			
		LOS	В	С		Α	С		В			В			С
	PM	Delay	10	10 24 20' 160'		9	2	20		13			13		
		Queue	20'			20'	120'		35'						

Delay is reported in seconds. Queue is the maximum of the 50th & 95th percentile queue, measured in feet.

Table 4
Year 2021 Build Traffic Peak Hour Operating Conditions

Year 2021 Build Traffic Peak Hour Operating Conditions															
				Level of Service (LOS) per Movement by Approach											I/S
	Peak		Ea	stbou	nd	W	estbou	ınd	No	rthbou	ınd	So	LOS &		
Intersection	Hour	Metric	7	\rightarrow	K	Ľ	+	K	ĸ	1	7	И	V	Ľ	Delay
		Lanes \rightarrow	1	1		1		1	1			1			
4 Mile Road &		LOS	В	С		Α		3	В				В		
Erie Street	AM	Delay	10	1	8	9	1	3		11		11			14
All-Way Stop Control		Queue	20'	12	20'	20'	6	0'		20'			35'		1
		LOS	S B C A C					В		В			С		
	PM	Delay	10	1	8	9	1	5		12			11		15
		Queue	20' 120'		20'	7	5'		30'		25'				
		$Lanes \rightarrow$	-		1		1	-	-	-	1	•	-	-	
4 Mile Road &		LOS	-		*	-	4	-	-	-	В	-	-	-	Α
East Driveway	AM	Delay	-	*		Ü	3	-	-	-	10	•	-	-	0
Stop Sign Control (NB)		Queue	-			2	20' -		-	-	20'	-	-	-	
		LOS	-	*			4	-	-	-	В	•	-	-	Α
	PM	Delay	•		*		7	-	-	-	10	•	-	-	0
		Queue	-		*	2	:0'	-	-	-	20'	•	-	-	
		Lanes \rightarrow	•	-	-	1	-	1	-		1		1	-	
Erie Street &		LOS	١	•	-	Α	-	Α	-		*	Α		-	Α
South Driveway	AM	Delay	•			9	-	8	-		*		7	-	0
Stop Sign Control		Queue	-	-	-	20'	-	20'	-		*	2	0'	-	
		LOS	-	-	-	В	-	Α	-		*		4	-	Α
	PM	Delay	-	-	-	10	-	9	-		*		7	-	0
		Queue	-	-	-	20'	-	20'	-		k	2	0'	-	

⁽⁻⁾ indicates a movement that is prohibited or does not exist; (*) indicates a freeflow movement.

Delay is reported in seconds. Queue is the maximum of the 50th & 95th percentile queue, measured in feet.

Table 5
Year 2041 Build Traffic Peak Hour Operating Conditions

	Level of Service (LOS) per Movement by Approach														I/S
	Peak		Ea	stbou			estbou			rthbou		So	LOS &		
Intersection	Hour	Metric	7	→	K	L/	←	K	K	1	7	K	→	L L	Delay
		Lanes →	1	1		1		1	1						
4 Mile Road &		LOS	В	_	D				В				С		
Erie Street	AM	Delay	10	2	27	10	1	7	12			14			19
All-Way Stop Control		Queue	20'	18	30'	20'	85' 25'						55'		
		LOS	В)	В			В				С		
	PM	Delay	10	2	28	10	_	!1	14				21		
		Queue	20'	20' 180'		20'	12	25'		45'		40'			
		$Lanes \rightarrow$	- 1			1	-	•	-	1	•	-	•		
4 Mile Road &		LOS	•		*	-	4	•	·	-	В	•	-	•	Α
East Driveway	AM	Delay	•		*		3	•	•	•		•	•	•	0
Stop Sign Control (NB)		Queue	•		*	2	0'	•	-	•	20'	•	•	-	
		LOS	•	*			4	•	-	•	В	•	•	•	Α
	PM	Delay	•		*		8 -		•	•	10	•	•	•	0
		Queue	•	,	*	2	0'	•	-	-	20'	•	-	•	
		Lanes \rightarrow	•	-	-	1	•	1		1		1		•	
Erie Street &		LOS	-	-	-	В	-	Α	-		*	Α		-	Α
South Driveway	AM	Delay	-	-			-	8	-		*	7		-	0
Stop Sign Control		Queue	Queue 20' -		•	20'	•	* 20'		•					
		LOS	LOS		-	В	-	Α	•		*		4	-	Α
	PM	Delay	•	-	-	11	•	9	•		*		7	•	0
		Queue	•	-	-	20'	-	20'	-	*		20' -		-	

⁽⁻⁾ indicates a movement that is prohibited or does not exist; (*) indicates a freeflow movement.

Delay is reported in seconds. Queue is the maximum of the 50th & 95th percentile queue, measured in feet.

PART E - RECOMMENDATION & CONCLUSION

Modifications to accommodate the Dollar General are outlined below. *Recommended modifications are for jurisdictional consideration and are not legally binding. The Village of Caledonia reserves the right to determine alternative solutions.*

4 Mile Road & East Driveway

- Construct the East Driveway to allow for left-in/right-in/right-out operations (no left-out). No dedicated turn lanes are necessary along 4 Mile Road.
- Install a stop sign on the driveway approach to 4 Mile Road.

Erie Street & South Driveway

- Construct the South Driveway to allow for all movements. No dedicated turn lanes are necessary along Erie Street. Construct separate left-turn and right-turn lanes on the driveway approach to Erie Street.
- Install a stop sign on the driveway approach to Erie Street.

As previously outlined, all movements are expected to operate at LOS C or better conditions through the Year 2021 both without and with the proposed Dollar General (Tables 2 & 4) – the Village's preferred operation. The movements may be expected to deteriorate to LOS D or better by Year 2041 both without and with the proposed Dollar General (Tables 3 & 5) – beyond the Village's preferred operation but well within the operations typically expected for other communities in southeast Wisconsin. Because this operation is not expected for another 20 years, because it occurs without Dollar General, and because the operation is 3-seconds of average vehicle delay beyond the LOS C/D threshold, TADI has no additional recommendations for construction at this time. If the Village wishes to obtain LOS C or better operations, 100-foot eastbound and westbound right-turn lanes may be constructed along 4 Mile Road regardless of whether Dollar General is constructed. Outputs with the optional right-turn lanes are included in the report appendix.

Should any questions or comments arise, please feel free to contact Michael May, P.E. PTOE of TADI at 414-807-1912 or mmay@tadi-us.com.





EXHIBIT A SITE LOCATION MAP

CALEDONIA, WISCONSIN

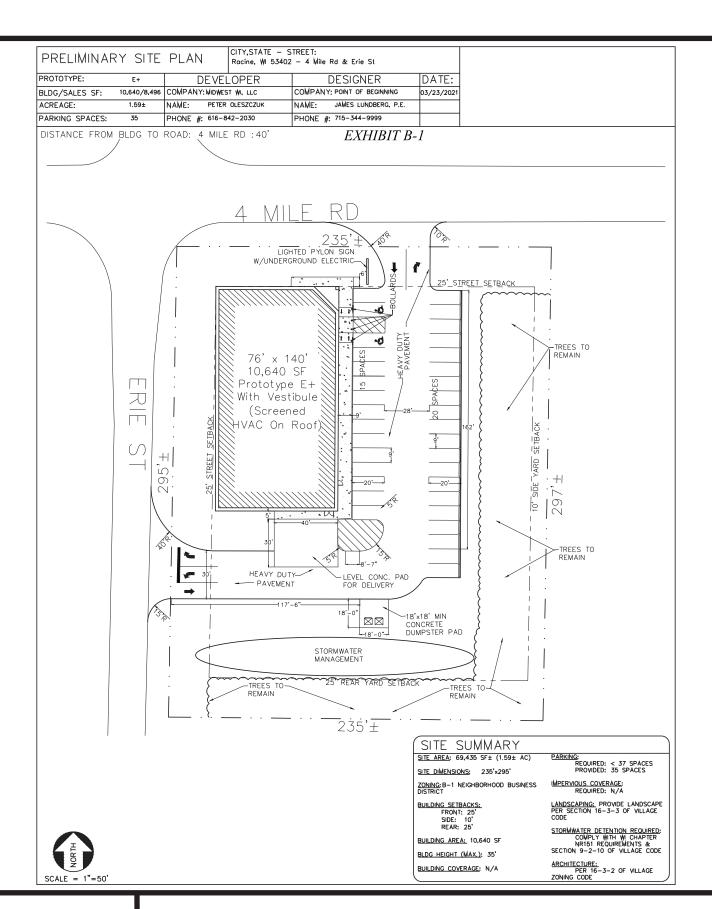




EXHIBIT B CONCEPTUAL SITE PLAN

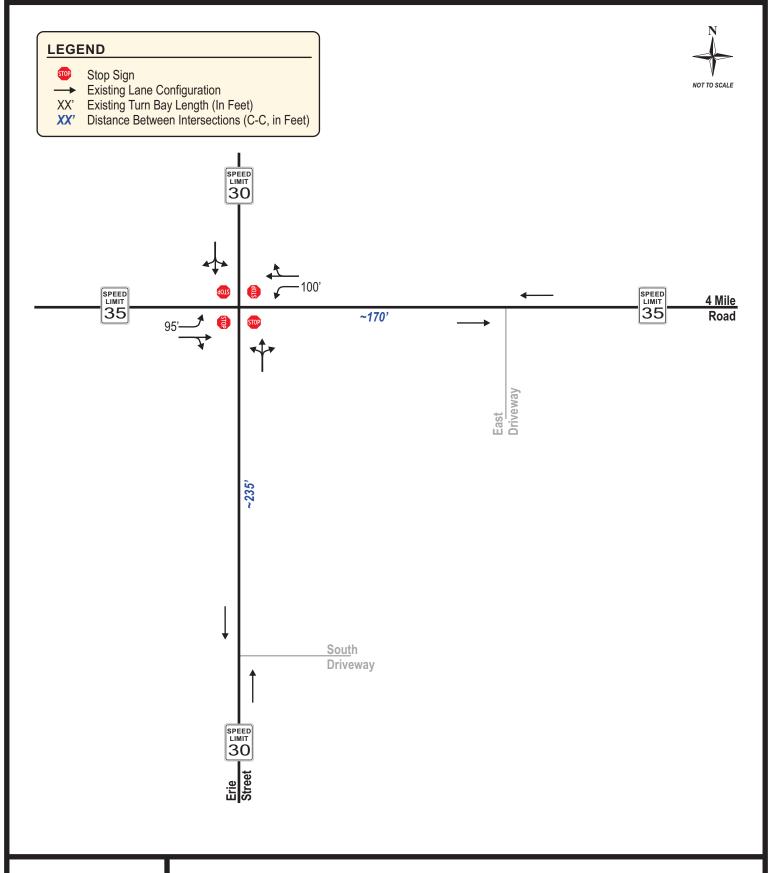




EXHIBIT C EXISTING TRANSPORTATION DETAIL

XX Weekday Morning Peak Hour (7:45-8:45AM) (XX) Weekday Evening Peak Hour (3:00-4:00PM) - Fewer than 2 vehicles per hour



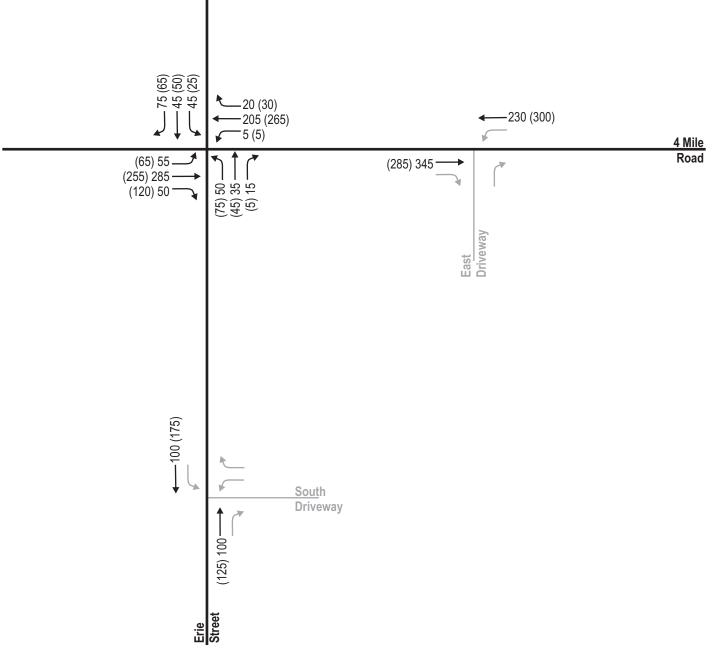




EXHIBIT D1
YEAR 2021 EXISTING TRAFFIC VOLUMES
UNADJUSTED

XX Weekday Morning Peak Hour (7:45-8:45AM) (XX) Weekday Evening Peak Hour (3:00-4:00PM) - Fewer than 2 vehicles per hour



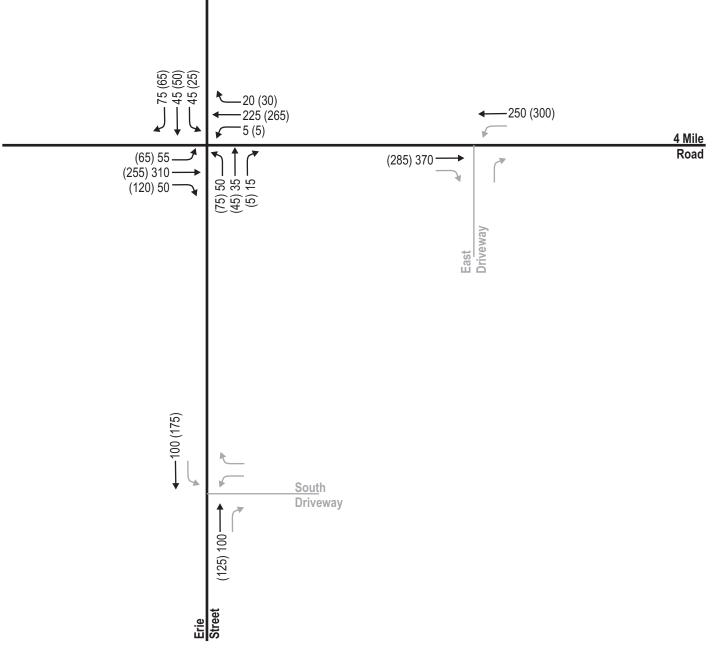
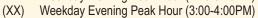




EXHIBIT D2
YEAR 2021 EXISTING TRAFFIC VOLUMES
ADJUSTED

LEGEND

XX Weekday Morning Peak Hour (7:45-8:45AM)



Fewer than 2 vehicles per hour



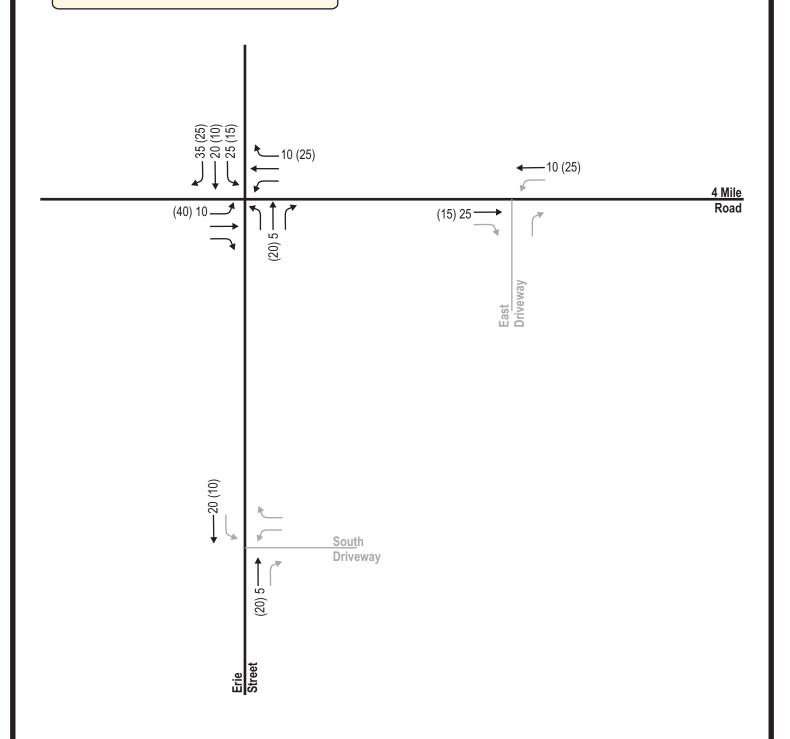




EXHIBIT D3
WATERS EDGE PLACE NEW TRIPS
WITHOUT 5 MILE ROAD EXTENSION

XX Wee (XX) Wee

X Weekday Morning Peak Hour (7:45-8:45AM)

(XX) Weekday Evening Peak Hour (3:00-4:00PM)

Fewer than 2 vehicles per hour



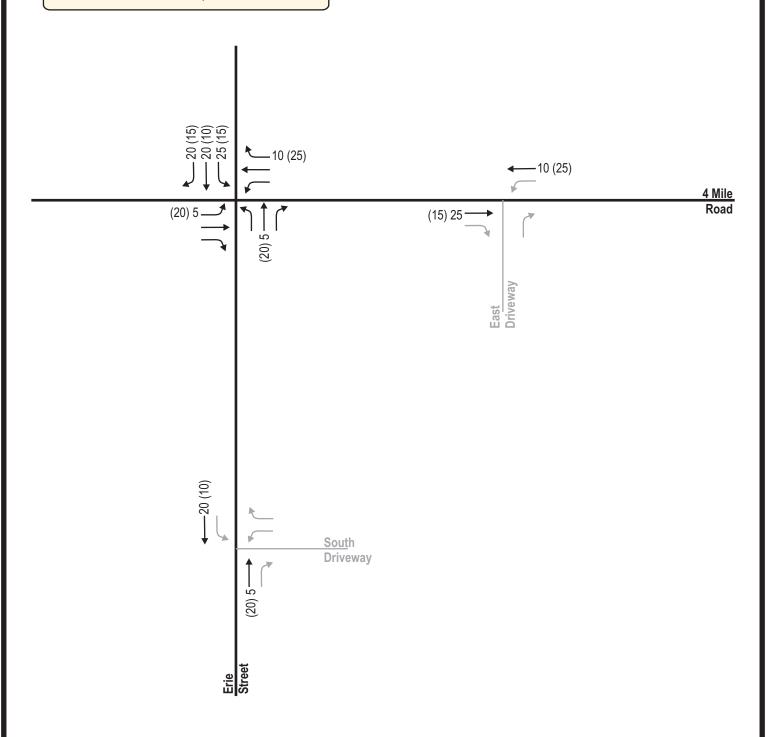




EXHIBIT D4
WATERS EDGE PLACE NEW TRIPS
WITH 5 MILE ROAD EXTENSION

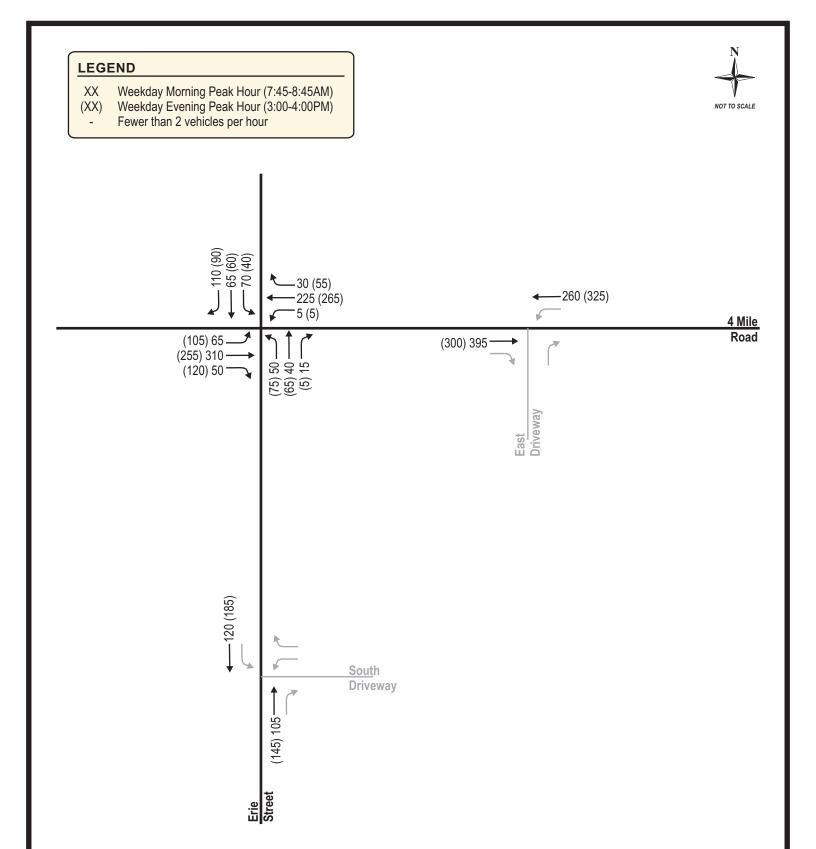




EXHIBIT D5
YEAR 2021 BACKGROUND TRAFFIC VOLUMES

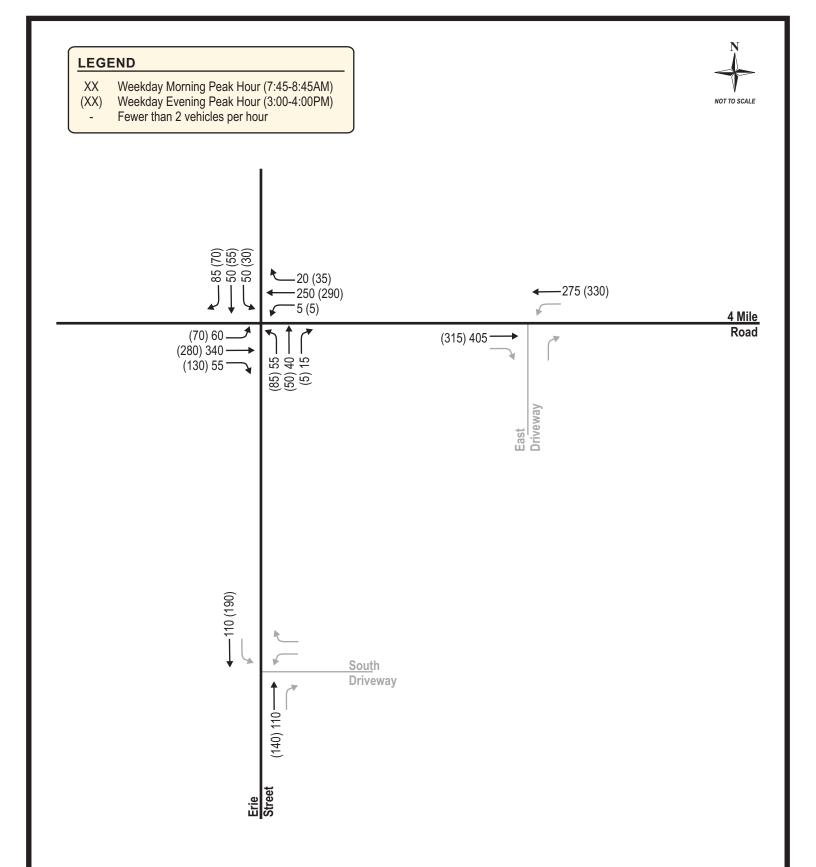




EXHIBIT E1
YEAR 2041 FORECAST TRAFFIC VOLUMES

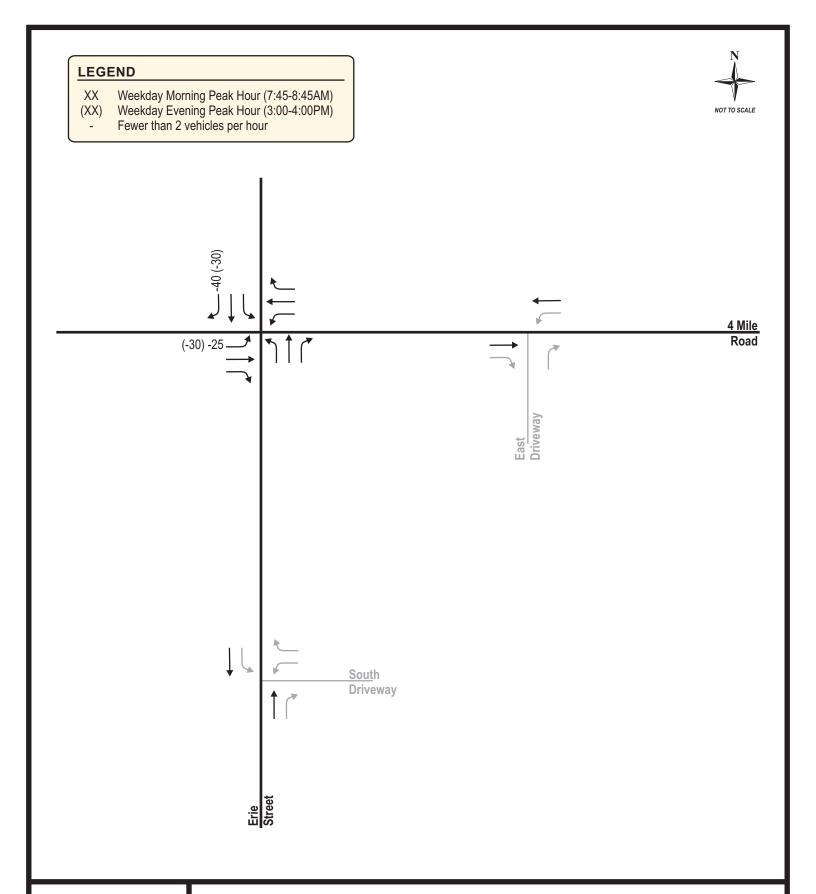




EXHIBIT E2 5 MILE ROAD EXTENSION DIVERTED TRIPS

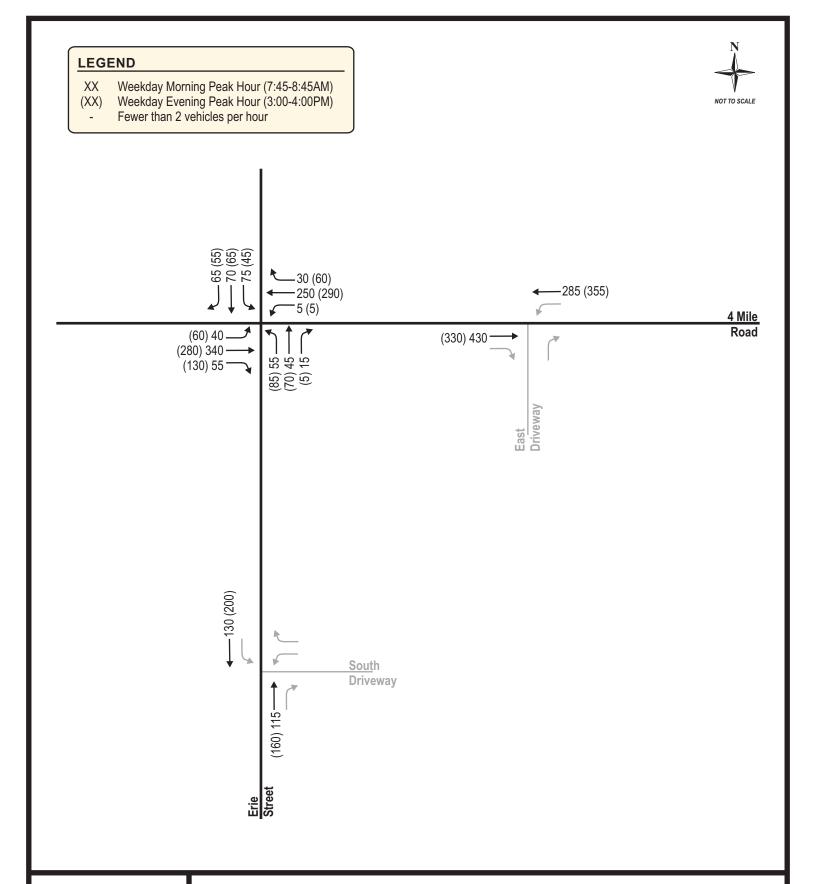




EXHIBIT E3
YEAR 2041 BACKGROUND TRAFFIC VOLUMES

LEGEND

- XX Weekday Morning Peak Hour (7:45-8:45AM)
- (XX) Weekday Evening Peak Hour (3:00-4:00PM)
 - Fewer than 2 vehicles per hour



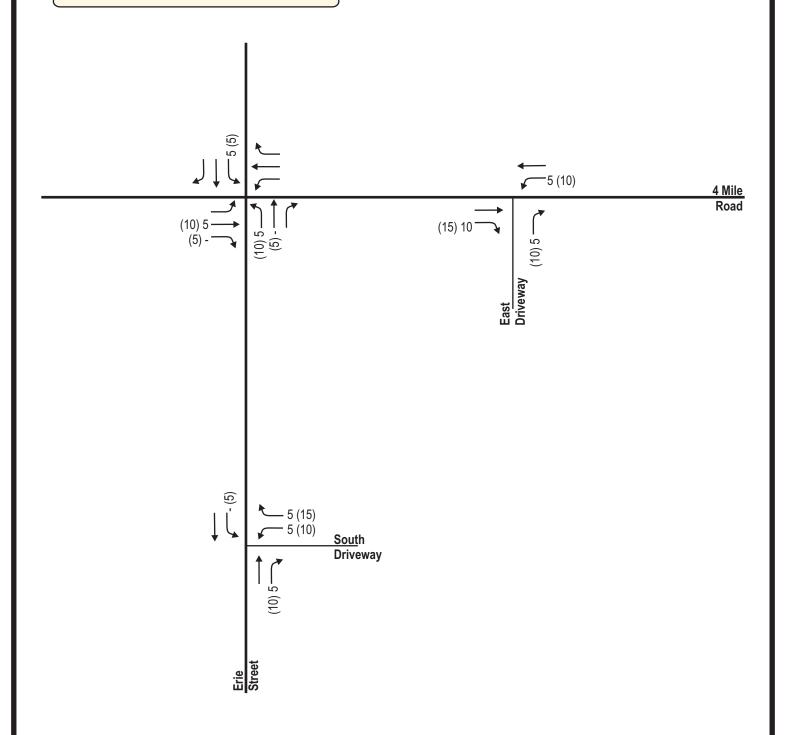




EXHIBIT F DOLLAR GENERAL NEW TRIPS

LEGEND

- XX Weekday Morning Peak Hour (7:45-8:45AM)
- (XX) Weekday Evening Peak Hour (3:00-4:00PM)
 - Fewer than 2 vehicles per hour



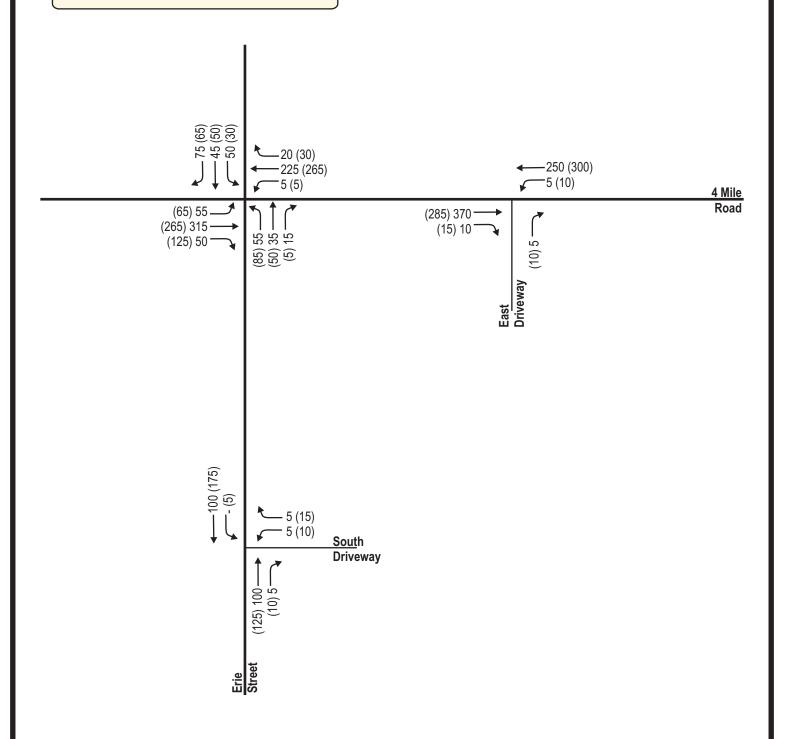




EXHIBIT G
YEAR 2021 BUILD TRAFFIC VOLUMES

XX Week (XX) Week - Fewer



Weekday Morning Peak Hour (7:45-8:45AM)
Weekday Evening Peak Hour (3:00-4:00PM)

Fewer than 2 vehicles per hour

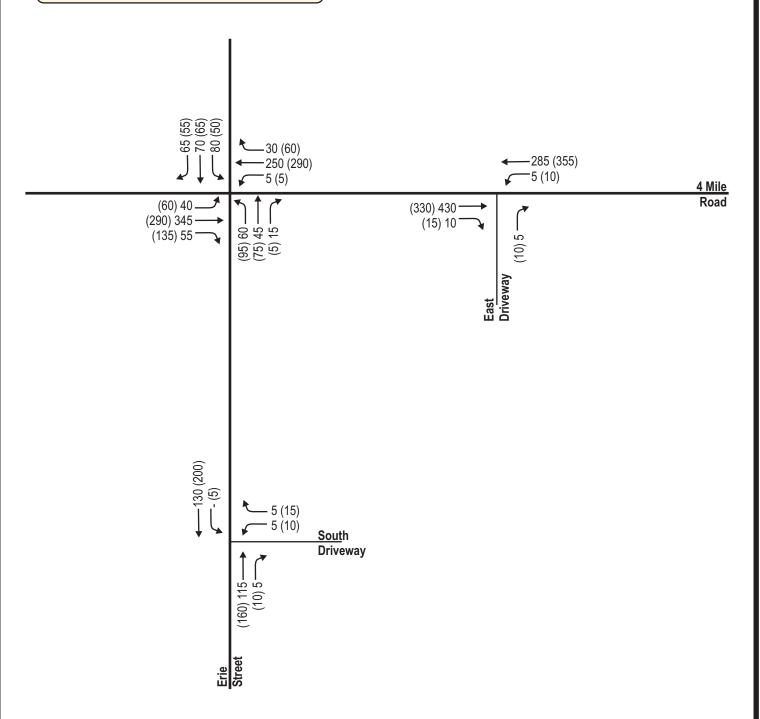




EXHIBIT H
YEAR 2041 BUILD TRAFFIC VOLUMES

APPENDIX

Traffic Counts

Count Basics	Version	n 2013.J4.1	Page 1 of 13
Start Date:	Monday, September 13, 2021	Weekday	Schools in Session
Total Number of	Hours Counted: 6	Non-Holiday	No Special Events

Base Information, Observed (6) Hour and Estimated (24) Hour Volume Summaries

Intersection of: Erie Street and 4 Mile Road

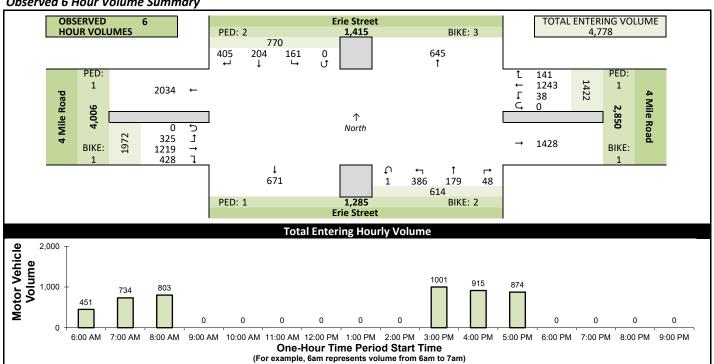
Site Information

Site illioilliat			
Municipality	Village of Caledor	nia	
County	Racine	WisDOT Reg	ion SE
Traffic Control	All-Way Stop		
Roadway Names		North Direction	1
North Leg	Erie Street		
East Leg	4 Mile Road		
	Erie Street		
West Leg	4 Mile Road		
Special Considera	ations		
	In Session		
Holidays	None		
Special Events			
Special Pedestria	ns Observed		
		Pre-school children Non	e
	Elementry	school age children Non	ro
Visua	ally impaired (whit	te cane/helper dog) None	ro
	Elderly/disabled (e	except wheelchairs) Non-	e
	Wheelcha	irs/electric scooters None	e
Other (de	scribe)	None None	9

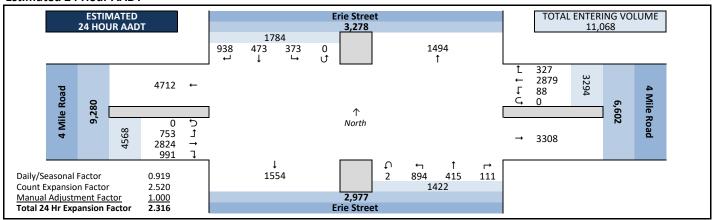
Count Information

Hrs Counted:	6:00 AN	И-9:00 A	M and	3:00 PN	1-6:00 PM		
1st Day of Cou	ınt	Monday	, Septe	mber 13	3, 2021	Weatl	ner
AM Peak	Period	Tuesday	, Septe	mber 14	1, 2021	Clear	& Dry
Midday Peak	Period	Tuesday	, Septe	mber 14	1, 2021	Clear	& Dry
PM Peak	Period	Monday	, Septe	mber 13	3, 2021	Clear	& Dry
Calculated Pea	ak Hours	5	,	,			
AM	7:45-8:4	45am	MD			PM	3:00-4:00pm
Peak Hours Se	lected f	or Analy	sis				
	7:45-8:4		MD			PM	3:00-4:00pm
					an Arterials & (
C	Count Ex	pansion	Group	(2) Urb	an Arterials & 0	Collecto	irs
Daily/Seaso	nal Adji	ustment	Factor	0.919	Count Ex	pansio	n Factor 2.520
Company	Name	TADI, Inc	c.			Man	ual Adj. 1.000
Observers	A	AM Peak	Period	Wendy	Picard		
		lay Peak					
	F	PM Peak	Period	Wendy	Picard		
Comments	2019 D	OT Seaso	onal Fac	ctors	·		

Observed 6 Hour Volume Summary



Estimated 24 Hour AADT



Peak Hour Volume Graphical Summary

Erie Street and 4 Mile Road



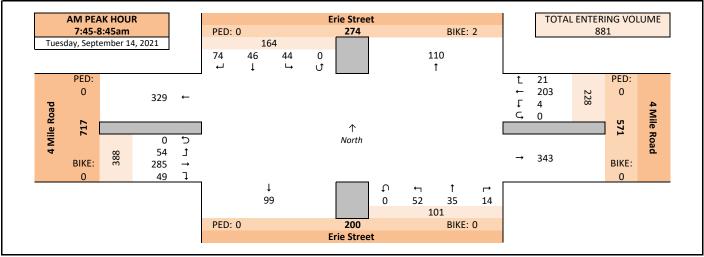
Weekday

Page 2 of 13

Schools in Session

No Special Events

AM Peak Hour Summary

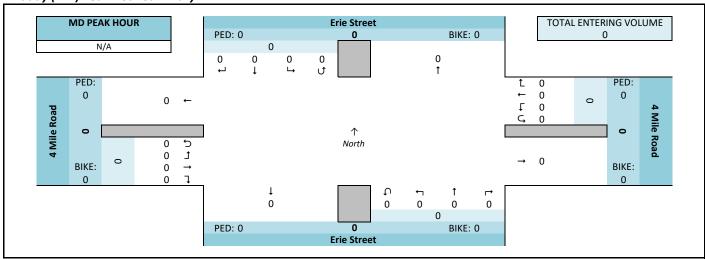


Count Basics
Start Date:

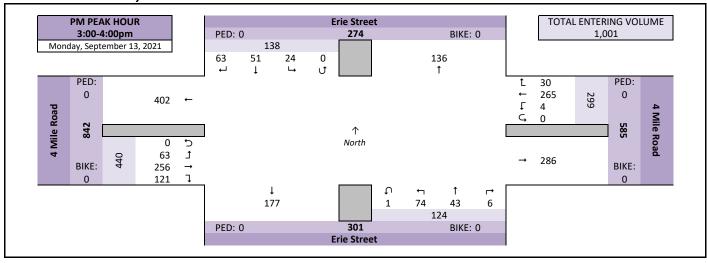
Total Number of Hours Counted: 6

Monday, September 13, 2021

Midday (MD) Peak Hour Summary



PM Peak Hour Summary



Peak Hour Volume Summary

Erie Street and 4 Mile Road

Peak Hour Volumes, Truck Percentages, and PHFs

Count Basics Page 3 of 13 Start Date: Monday, September 13, 2021 Weekday Schools in Session Total Number of Hours Counted: 6 Non-Holiday No Special Events



Tue	esday, September 14, 2021		Fro	₩ m No	rth			Fr	← om Ea	st			Fro	↑ m Sou	uth			Fro	→ om We	est		
	AM Peak Hour		Eri	e Stre	et			4 N	∕lile Ro	ad			Eri	ie Stre	et			4 N	/lile Ro	ad		
	Start Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Totals
	7:45 AM	22	15	15	0	52	8	49	2	0	59	2	10	11	0	23	11	71	15	0	97	231
×	8:00 AM	17	11	10	0	38	4	42	0	0	46	2	7	11	0	20	13	86	13	0	112	216
身	8:15 AM	17	7	12	0	36	4	66	2	0	72	5	10	14	0	29	12	74	17	0	103	240
ž	8:30 AM	18	13	7	0	38	5	46	0	0	51	5	8	16	0	29	13	54	9	0	76	194
Sec	Peak Hour Volume	74	46	44	0	164	21	203	4	0	228	14	35	52	0	101	49	285	54	0	388	881
Ē	Rounded Hourly Volume	75	45	45	0	165	20	205	5	0	230	15	35	50	0	100	50	285	55	0	390	885
₹	% Single Unit Trucks	4.1	2.2	6.8	0.0	4.3	0.0	2.0	25.0	0.0	2.2	42.9	2.9	3.8	0.0	8.9	10.2	4.6	9.3	0.0	5.9	5.0
	% Heavy Trucks	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	% Trucks (Total)	4.1	2.2	6.8	0.0	4.3	0.0	2.0	25.0	0.0	2.2	42.9	2.9	3.8	0.0	8.9	10.2	4.6	9.3	0.0	5.9	5.0
	Peak Hour Factor (PHF)	0.84	0.77	0.73	0.00	0.79	0.66	0.77	0.50	0.00	0.79	0.70	0.87	0.81	0.00	0.87	0.94	0.83	0.79	0.00	0.87	0.92

N/	A		Fro	₩ m No	rth			Fre	← om Ea	st			Fro		ıth			Fro	→ om We	est		
	MD Peak Hour		Eri	e Stree	et			4 N	/lile Ro	ad			Eri	ie Stree	et			4 N	∕lile Ro	ad		
⊾ ا	Start Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Totals
l o	12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
κ 1	12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ea	12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
١,	12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	Peak Hour Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	Rounded Hourly Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
da	% Single Unit Trucks	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
lid	% Heavy Trucks	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<	% Trucks (Total)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Peak Hour Factor (PHF)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Мо	nday, September 13, 2021		F	Ψ.				F	+				F	1	.41.			F	→			
				m No					om Ea					m Sou					om We			
	PM Peak Hour		Eri	e Stree	et			4 N	/lile Ro	ad			Eri	e Stree	et			4 N	∕Iile Ro	ad		
	Start Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Totals
	3:00 PM	15	11	10	0	36	3	55	2	0	60	1	16	19	0	36	28	58	16	0	102	234
×	3:15 PM	18	16	5	0	39	8	59	2	0	69	2	10	22	0	34	34	71	14	0	119	261
P	3:30 PM	15	14	7	0	36	9	70	0	0	79	3	9	9	0	21	30	73	17	0	120	256
Ιž	3:45 PM	15	10	2	0	27	10	81	0	0	91	0	8	24	1	33	29	54	16	0	99	250
Sec.	Peak Hour Volume	63	51	24	0	138	30	265	4	0	299	6	43	74	1	124	121	256	63	0	440	1001
ĪĒ	Rounded Hourly Volume	65	50	25	0	140	30	265	5	0	300	5	45	75	0	125	120	255	65	0	440	1005
٦	% Single Unit Trucks	9.5	3.9	0.0	0.0	5.8	6.7	2.3	25.0	0.0	3.0	16.7	7.0	2.7	0.0	4.8	1.7	2.3	7.9	0.0	3.0	3.6
	% Heavy Trucks	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	% Trucks (Total)	9.5	3.9	0.0	0.0	5.8	6.7	2.3	25.0	0.0	3.0	16.7	7.0	2.7	0.0	4.8	1.7	2.3	7.9	0.0	3.0	3.6
	Peak Hour Factor (PHF)	0.87	0.80	0.60	0.00	0.88	0.75	0.82	0.50	0.00	0.82	0.50	0.67	0.77	0.25	0.86	0.89	0.88	0.93	0.00	0.92	0.96

Peak Hour Pedestrian and Bicyclist Volumes

Pe	destrians and Bicyclists	Cr	ossing 🛨		Cr	ossing	1	Cr	ossing	L	Cr	ossing 🛔	L	Total
	š &	North App	oroach		East App	oroach	ı.	South App	oroach 💠	-	West App	oroach 🗼		Ped &
	K 010	Eri	ie Street		4 N	/lile Road		Er	ie Street		4 N	∕lile Road		Bike
	15-Minute Start Time	Pedestrian	Bicyclist	Total	Pedestrian	Bicyclist	Total	Pedestrian	Bicyclist	Total	Pedestrian	Bicyclist	Total	Volume
	7:45 AM	0	1	1	0	0	0	0	0	0	0	0	0	1
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
18	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
1	8:30 AM	0	1	1	0	0	0	0	0	0	0	0	0	1
	Total	0	2	2	0	0	0	0	0	0	0	0	0	2
	12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
١,	12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
ND N	12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0
								1	1					
	3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
١.	3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
M	3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0

Hourly Volume Summary - Motor Vehicle Data

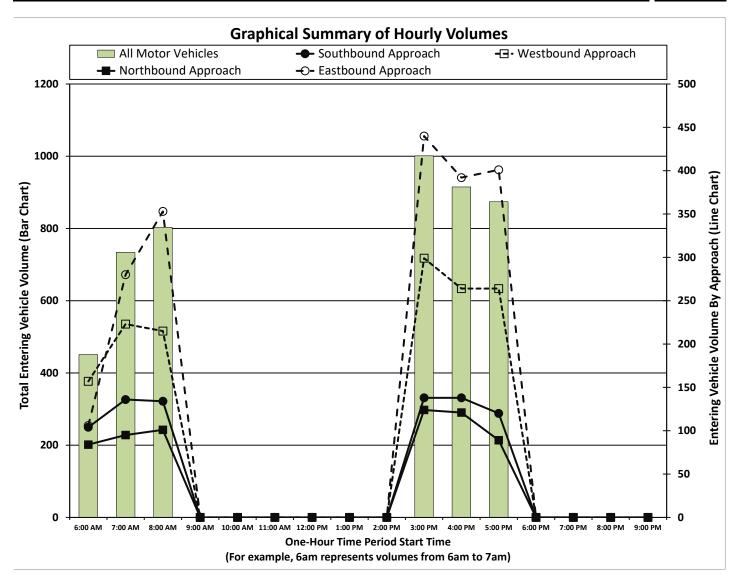
Erie Street and 4 Mile Road

One-Hour Motor Vehicle Data

Count Basics				Page 4 of 13
Start Date:	Monday, September 13, 2021	Weekday	Schools in Session	
Total Number	of Hours Counted: 6	Non-Holiday	No Special Events	



				Ψ					←					1					→					
On	e-Hour		Fro	m No	rth			Fr	om Ea	st			Fro	m Sou	ıth			Fro	m We	st		Total	Direction	nal
Tin	ne Period		Er	ie Stre	et			4 N	∕lile Ro	ad			Er	ie Stree	t			4 N	1ile Roa	ad		Vehicle	Volume '	Totals
Sta	art Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Volume	E/W	N/S
	6:00 AM	63	18	23	0	104	12	141	4	0	157	5	15	64	0	84	23	59	24	0	106	451	263	188
N	7:00 AM	71	30	35	0	136	24	194	5	0	223	4	22	69	0	95	42	196	42	0	280	734	503	231
A	8:00 AM	68	34	32	0	134	19	192	4	0	215	12	30	59	0	101	55	249	49	0	353	803	568	235
	9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
a	11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Z	12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:00 PM	63	51	24	0	138	30	265	4	0	299	6	43	74	1	124	121	256	63	0	440	1001	739	262
	4:00 PM	72	36	30	0	138	26	226	12	0	264	13	34	74	0	121	88	228	76	0	392	915	656	259
N	5:00 PM	68	35	17	0	120	30	225	9	0	264	8	35	46	0	89	99	231	71	0	401	874	665	209
Ы	6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
To	tals	405	204	161	0	770	141	1243	38	0	1422	48	179	386	1	614	428	1219	325	0	1972	4778	3394	1384



15-Minute Motor Vehicle Data

Erie Street and 4 Mile Road

15-Minute Motor Vehicle Data

Count Basics Page 5 of 13 Start Date: Monday, September 13, 2021 Weekday Schools in Session Total Number of Hours Counted: 6 Non-Holiday No Special Events



15)-I\	∕linute N	<u>/lotor</u>	Vehic	cle Da	ata																			
15	-Mi	inute		Fr	↓ om N	orth			F	← rom E	ast			Fr	↑ om Sou	th			Fr	om W	/est				
Tir	ne	Period		E	rie Str	eet			4	Mile R	oad			Е	rie Stree	t			4	Mile R	oad		15-Min	Hourly	
Sta		Time	Right	Thru	Left		Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left l	J-Tn	Total	Right		Left	U-Tn	Total	Totals	Sum	PHF
		5:00 AM 5:15 AM	13	1			16		20	0		24	1	1	11	0		5	14	6			78	451	0.78
		5:30 AM	11 22	<u>6</u> 5			18 38		29 42	3			1	6 4	14 23	0		3 9	9 14	7 6	0		88 145	504 596	0.87
		5:45 AM	17	6					50	1			2	4	16	0		6	22	5			140	643	
١,		7:00 AM	15	2	4		21	4	49	0		53	0	1	15	0	16	7	27	7		41	131	734	0.79
Period	7	7:15 AM	19	8						0			1	5	17	0		13	53	8			180	819	0.89
Po	1 /	7:30 AM 7:45 AM	15 22	5 15			28 52		52 49	2	0		1	6 10	26 11	0		11 11	45 71	12 15	0		192 231	879 881	0.92
Peak	8	3:00 AM	17	11			38			0			2	7	11	0		13	86	13	0		216	803	0.84
		3:15 AM	17	7			36		66	2			5	10	14	0		12	74	17			240		
MA	8	3:30 AM	18	13		0	38		46	0			5	8	16	0		13	54	9	0				
	0	3:45 AM 9:00 AM	16 0	3			22 0			0			0	5 0	18 0	0		17 0	35 0	10 0			153 0	-	
	_	9:15 AM	0	0			0	0		0		0	0	0		0		0	0				0		
		9:30 AM	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0			0	0		
		9:45 AM	0	0	_		0	0					0	0		0			0				-		
	_	L0:00 AM L0:15 AM	0	0			0	0				0	0	0	0	0			0				0	-	\vdash
	_	L0:30 AM	0	0			0	0		0		0	0	0	0	0			0						\vdash
_	1	L0:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Period	1	L1:00 AM	0	0			0	0		0		0	0	0	0	0			0				0		
Pol	<u> </u>	L1:15 AM L1:30 AM	0	0			0	0		0		0	0	0	0	0		0	0				0		
Poak		L1:45 AM	0	0			0	0	_	0		0	0	0	0	0			0				0		
		L2:00 PM	0	0	0	0	0		0	0	0	0	0	0	0	0		0	0	0	0	0			
Viddav	1	L2:15 PM	0	0			0	0				0	0	0	0	0		0	0				0		
l d	1	L2:30 PM L2:45 PM	0	0			0						0	0		0			0						
>	1	L:00 PM	0	0			0	0				0	0	0	0	0		0	0				0		
	_	L:15 PM	0	0			0	0		0		0	0	0		0			0						
		L:30 PM L:45 PM	0	0									0	0		0			0						
		2:00 PM	0	0				_	_		_		0	0		0		_	0	_	_				
	_	2:15 PM	0	0				0					0			0			0						
	_	2:30 PM	0	0			0	0		0			0	0		0			0				0		
	_	2:45 PM 3:00 PM	0 15	0 11			36		0 55	2			0 1	0 16	0 19	0		0 28	0 58	0 16				1001	0.96
	_	3:15 PM	18	16			39			2			2	10		0		34	71	14			261	992	0.95
		3:30 PM	15	14	7	0	36	9		0			3	9	9	0		30	73	17	0	120	256	938	0.92
	_	3:45 PM	15	10			27		81	0			0			1	33	29	54	16				918	0.92
	_	1:00 PM 1:15 PM	15 20	7 5			31 28			3			2	9 7	17 20	0		19 24	54 54	20 16			225 207	915 923	0.93
	_	1:30 PM	19	11						2			5	8	20	0		24	55	14			236	939	0.95
	4	1:45 PM	18	13			41	6		3			4	10	17	0		21	65	26			247	903	0.91
7		5:00 PM	26	16						2			1	8	14	0		27	49	14			233	874	0.94
Period	5	5:15 PM 5:30 PM	20 8	7			32 21	7 7	59 43	3			1	9 10	11 11	0		21 27	60 63	20 14			223 200	-	
		5:45 PM	14	4				6		1			5	8	10	0		24	59	23					
Peak	6	5:00 PM	0	0			0	0	0	0			0	0	0	0		0	0				0		
0 0		5:15 PM	0	0			0	0		0		0	0	0	0	0		0	0	_	_		0		
8		5:45 PM	0	0			0						0			0			0				0		
		7:00 PM	0											_		0		_	0						
		7:15 PM	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0		
	_	7:30 PM	0										0			0			0						
		7:45 PM 3:00 PM	0					_					0			0			0					-	
		3:15 PM	0										0			0			0						\vdash
	8	3:30 PM	0											_		0			0						
		3:45 PM	0										0			0			0						
	_	9:00 PM 9:15 PM	0										0	_		0			0	_				L	ш
	_	9:30 PM	0						_				0			0		_	0						
		9:45 PM	0										0			0			0						
То	tals	S	405	204	161	0	770	141	1243	38	0	1422	48	179	386	1	614	428	1219	325	0	1972	4778		

Peak Hour All Vehicle Volume Summary

				¥					+					1					→			
Ηοι	ırly		Fre	om No	orth			F	rom E	ast			Fr	om So	uth			Fr	om W	est		Total
Tim	e Period		Eı	rie Stre	et			4	Mile R	oad			E	rie Stre	et			4	Mile R	oad		Hourly
Star	rt Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Volume
AM	7:45 AM	74	46	44	0	164	21	203	4	0	228	14	35	52	0	101	49	285	54	0	388	881
MD	12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	3:00 PM	63	51	24	0	138	30	265	4	0	299	6	43	74	1	124	121	256	63	0	440	1001

	PHF
ı	0.92
ı	
ı	0.96

15-Minute Automobile Data

Erie Street and 4 Mile Road

Automobiles (Cars, Light Tr

15-Minute Automobile Data



Weekday Non-Holiday

Count Basics
Start Date: Monday, September 13, 2021
Total Number of Hours Counted: 6

Page 6 of 13
Schools in Session
No Special Events

15-1	Minute			↓ om No					← rom E					↑ om Sc					→ om W				
	e Period			rie Stre	-				Mile R					rie Stre					Mile R			15-Min	Hourly
Star	t Time	Right	Thru	Left			Right		Left	U-Tn		Right	Thru	Left	U-Tn	Total	Right		Left	U-Tn		Totals	Sum
	6:00 AM	13	1	2			3	20	0		23	0	1	10	0	11	4	14	5	0	23	73	4
	6:15 AM	11	6				1	28	0			0		13	0	19	3		7		18	83	4
	6:30 AM 6:45 AM	22 17	<u>4</u>				5 2	42 49	1	0		2	4	23 15	0	27 21	8 6		5 5	_	26 32	138 137	5°
	7:00 AM	15	2	4			4	49	0			0		14	0	15	7	26	6		39	128	70
po	7:15 AM	18	8				4		0			1	5	17	0	23	13		8		72	176	7
Period	7:30 AM	15	5	8			8		1	0		1	6	24	0	31	9		10		62	182	8:
	7:45 AM	22	14	13			8		1	0		1	10	10	0	21	9		13	0	89	216	8:
Peak	8:00 AM	16	11	10	0	37	4	41	0	0		1	6	10	0	17	13	80	12	0	105	204	7
	8:15 AM	15	7	11			4	66	2			2	10	14	0	26	10		16	0	98	229	
Ā	8:30 AM	18	13	7			5	44	0			4	8	16	0	28	12	53	8		73	188	
`	8:45 AM	14	3	3			6		2			0	4	18	0	22	16		10		61	147	-
	9:00 AM 9:15 AM	0	0				0					0		0		0	0		0		0	0	
	9:30 AM	0	0				0					0		_		0	0		_		0	0	
	9:45 AM	0	0				0					0				0					0	0	-
	10:00 AM	0	0				0	_	_			0				0	0				0	0	
	10:15 AM	0	0				0					0				0	0		0		0	0	
	10:30 AM	0	0				0					0			_	0	0		0		0	0	
_	10:45 AM	0	0				0					0				0	0				0	0	
Period	11:00 AM	0	0				0					0	0	0	_	0	0		0		0	0	
er	11:15 AM	0	0				0					0	0			0	0		0		0	0	<u> </u>
	11:30 AM	0	0				0					0				0	0				0	0	-
Peak	11:45 AM 12:00 PM	0	0				0					0	0	0		0	0				0	0	
	12:15 PM	0	0				0					0	0			0	0		0		0	0	
Midday	12:30 PM	0	0				0					0	0	0		0	0		0		0	0	-
βį	12:45 PM	0	0				0					0				0					0	0	
2	1:00 PM	0	0				0					0				0	0				0	0	
	1:15 PM	0	0				0					0	0			0	0				0	0	
	1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1:45 PM	0	0				0					0				0	0				0	0	
	2:00 PM	0	0				0					0		_		0					0	0	
	2:15 PM	0	0				0					0			_	0					0	0	
	2:30 PM	0	0				0					0	0		0	0	0		0		0	0	-
	2:45 PM 3:00 PM	0 15	0 11	10			0	_	2	_		0	0 15	0 18	0		0		0 15	0	0	227	90
	3:15 PM	15	15				3 7	55	1	0		2	9	22	0	33 33	28 34		15	0	98 117	248	9!
	3:30 PM	15	14	7			8		0			3	9	9	0	21	28		15	0	115	248	90
	3:45 PM	12	9				10		0			0		23	1	31	29		14		97	242	88
	4:00 PM	14	5				8		3			2	8	17	0	27	18		19		90	213	88
	4:15 PM	19	4				3		2			2	7	20	0	29	24		15		93	202	90
	4:30 PM	18	11	8			7		1			4	8	20	0	32	24		14		92	230	9:
	4:45 PM	18	13	9			6		3			4	10	17	0	31	20		25	0	108	239	88
7	5:00 PM	26	16				10		2			1	7	14	0	22	27		13		89	230	86
Period	5:15 PM	18	8				7		3			1	9	11	0	21	21		20		101	218	-
Pe	5:30 PM 5:45 PM	7	7	6			7	42	3			1	10	11	0	22	27		14		104	198	<u> </u>
	6:00 PM	14 0	<u>4</u> 0				6 0		1 0	0		5 0	8	10 0		23 0	24 0		23 0		105 0	217 0	_
Peak	6:15 PM	0	0				0				0	0	0		_	0	0		0		0	0	-
Σ	6:30 PM	0	0				0	0	0		0	0	0	0	_	0	0		_	0	0	0	
۵	6:45 PM	0	0				0	0			0	0		0	0	0			_		0	0	
	7:00 PM	0	0				0					0				0					0	0	
	7:15 PM	0	0									0				0					0	0	
	7:30 PM	0	0				0					0				0	_				0	0	
	7:45 PM	0	0				0					0										0	
	8:00 PM	0	0									0				0					0	0	
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	9:30 PM	0	0				0					0			_	0					0	0	
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Peak Hour Automobile Volume Summary

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Ηοι	ırly		Fr	om No	orth			F	rom E	ast			Fr	om Sc	outh			Fr	om W	est		Total
Tim	e Period		E	rie Stre	et			4	Mile R	oad			E	rie Stre	eet			4	Mile R	oad		Hourly
Sta	rt Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Volume
AM	7:45 AM	71	45	41	0	157	21	199	3	0	223	8	34	50	0	92	44	272	49	0	365	837
MD	12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	3:00 PM	57	49	24	0	130	28	259	3	0	290	5	40	72	1	118	119	250	58	0	427	965

15-Minute Single Unit (SU) Truck & Bus Data

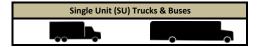
Erie Street and 4 Mile Road

15-Minute Single Unit (SU) Truck & Bus Data

 Count Basics
 Page 7 of 13

 Start Date:
 Monday, September 13, 2021
 Weekday
 Schools in Session

 Total Number of Hours Counted: 6
 Non-Holiday
 No Special Events



15-	Minute		Fre	↓ om No		& DUS I		F	← rom E	ast			Fr	个 om So	outh			Fr	→ rom W	/est			
Tim	e Period		Eı	rie Stre	eet			4	Mile R	oad			E	rie Str	eet			4	Mile R	oad		15-Min	Hourly
Sta	rt Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Totals	Sum
	6:00 AM	0	0	0			1	0			1	1	0	1	. 0	2	0			0		4	18
	6:15 AM	0	0	1			0		0		1	1	0	C		1	0		0			4	17
	6:30 AM	0	1	0			0				2	1	0			1	1		1			7	17
	6:45 AM	0	0	0			0		0			0		1	. 0	1	0		0			3	20
Ø	7:00 AM 7:15 AM	0	0	1			0				0	0		1	0	1	0		0			3	41
Period	7:30 AM	0	0	0			0				2	0				2	2		2	0		10	48
Pe	7:45 AM	0	1	2			0		1	0		1	0	1	. 0	2	2	4	2	0		15	44
Peak	8:00 AM	1	0	0			0		0			1	1	1	. 0	3	0		1	0		12	35
	8:15 AM	2	0	1	0	3	0	0			0	3	0	C	0	3	2	2	1	0	5	11	
AM	8:30 AM	0	0	0			0	2	0		2	1	0	C	0	1	1	1	1	0		6	
٧.	8:45 AM	2	0	0	_		0				2	0		C		1	1					6	
	9:00 AM	0	0	0			0				0	0				0	0					0	
	9:15 AM 9:30 AM	0	0	0			0				0	0				0	0					0	
	9:45 AM	0	0	0			0				0					0	0					0	
	10:00 AM	0	0	0			0									0	0					0	-
	10:15 AM	0	0	0			0				0	_				0	0					0	
	10:30 AM	0	0	0	_		0				0					0	0					Ö	
	10:45 AM	0	0	0			0	0	0	0	0	0	0	C	0	0	0	0	0	0	0	0	
Period	11:00 AM	0	0	0	_		0				0		_			0	0					0	
e	11:15 AM	0	0	0	_		0				0					0	0					0	
K	11:30 AM	0	0	0			0				0					0	0					0	
Peak	11:45 AM 12:00 PM	0	0	0			0				0					0	0					0	
	12:15 PM	0	0	0			0				0					0						0	
Midday	12:30 PM	0	0	0			0		_		0					0						0	
į	12:45 PM	0	0	0			0				0					0	0					0	
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	1:15 PM	0	0	0			0				0					0	0					0	
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	2:15 PM	0	0	0			0				0	0			_	0	0					0	
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	2:45 PM	0	0	0			0				0	0				- 0	0					0	
	3:00 PM	0	0	0			0				0	1	1	1	. 0	3	0	1	1	0		7	36
	3:15 PM	3	1	0	0	4	1	4		0	6	0	1	C	0	1	0	2	0	0	2	13	41
	3:30 PM	0	0	0			1		0		3	0		C		0	2	1	2	0		8	33
	3:45 PM	3	1	0			0				0	0		1	. 0	2	0		2	_		8	31
	4:00 PM	1	2	0			1				5	0		0		1	1		1			12	31
	4:15 PM 4:30 PM	1	1 0	0			0	1	1	0	2	0	0			1	0		0			5	22
	4:45 PM	0	0	1	_		0	3			3	0					1		1			8	18
	5:00 PM	0	0	0			0		0		1	0		0	_	1	0					3	11
po	5:15 PM	2	0	0			0		0		3	0		C		0	0					5	
Period	5:30 PM	1	0	0	_		0		0		1	0				0	0					2	
K P	5:45 PM	0	0	0			0				0	0				0	0		0			1	
Peak	6:00 PM	0	0	0			0				0	0		C		0	0					0	
	6:15 PM	0	0	0	_		0				0	0			_	0	0					0	
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Tot	als	18	7	6	_		_		_	_		_	_				Ŭ			_		163	

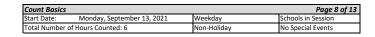
Peak Hour Single Unit (SU) Truck & Buses Volume Summary

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				¥					+					1					→			
Ηοι	ırly		Fr	om No	orth			F	rom E	ast			Fr	om Sc	outh			Fr	om W	/est		Total
Tim	e Period		Е	rie Stre	et			4	Mile R	oad			E	rie Str	eet			4	Mile R	oad		Hourly
Star	rt Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Volume
AM	7:45 AM	3	1	3	0	7	0	4	1	0	5	6	1	2	0	9	5	13	5	0	23	44
MD	12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	3:00 PM	6	2	0	0	8	2	6	1	0	9	1	3	2	0	6	2	6	5	0	13	36

15-Minute Semi-Truck Data

Erie Street and 4 Mile Road

15-Minute Semi-Truck Data





	Vinute			↓ om No					← rom E					om So					om W				
	e Period			rie Stre					Mile R		1			rie Str					Mile R		1 -	15-Min	Hourly
Star	t Time	Right	Thru		U-Tn		Right		Left	U-Tn	Total	Right		Left		Total	Right		Left		Total	Totals	Sum
	6:00 AM	0	0			0	0	0	_	0	0	0	0			0	1	0				1	
	6:15 AM 6:30 AM	0	0			0	0									1	0					1	
	6:45 AM	0	0			0										0						0	
	7:00 AM	0	0			0	0	_								0	0					0	
po	7:15 AM	0	0			0						0				0						0	
Period	7:30 AM	0	0		0	0	0	0			0	0	0			0	0			0	0	0	
	7:45 AM	0	0			0	0	0			0	0	0	0		0	0		0			0	
Peak	8:00 AM	0	0			0	0					0				0	0		0			0	
	8:15 AM	0	0			0	0					0				0	0		0			0	
Ā	8:30 AM	0	0			0	0	0				0				0	0		0			0	
-	8:45 AM 9:00 AM	0	0			0	0	_	_			0				0	0			_		0	
	9:00 AM 9:15 AM	0	0			0	0									0	0		0			0	-
	9:30 AM	0	0	_		0	0		_			0				0	0		_			0	
	9:45 AM	0	0			0		_								0				_		0	
	10:00 AM	0	0	_		_	_		_						_	0	0					0	
	10:15 AM	0	0			0	0									0	0					0	
	10:30 AM	0	0			0		_	_							0						0	
-	10:45 AM	0	0													0	0					0	
Period	11:00 AM	0	0			0	0	_	_			0				0	0		_			0	-
Pel	11:15 AM 11:30 AM	0	0			0		_	_							0						0	
ž	11:45 AM	0	0			0	0					0				0	0					0	-
Peak	12:00 PM	0	0			0				0						0						0	
	12:15 PM	0	0													0						0	
g	12:30 PM	0	0			0										0			0			0	
Midday	12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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Peak	6:00 PM	0	0			0					0					0						0	
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Peak Hour Semi-Truck Volume Summary

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Ηοι	ırly		Fr	om No	orth			F	rom E	ast			Fr	om Sc	outh			Fr	om W	/est		Total
Tim	e Period		Е	rie Stre	et			4	Mile R	oad			E	rie Str	eet			4	Mile R	oad		Hourly
Star	rt Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Volume
AM	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MD	12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

15-Minute Heavy Vehicle Data

Erie Street and 4 Mile Road

15-Minute Heavy Vehicle Data

Count Basics Page 9 of 13 Start Date: Monday, September 13, 2021 Weekday Schools in Session Total Number of Hours Counted: 6 Non-Holiday No Special Events



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	Period			rie Stre		1			Mile R		1			rie Str					Mile R		1	15-Min	Hou
tart		Right	Thru	_	U-Tn		Right		Left	U-Tn	Total	Right		Left	_	Total	Right		Left	U-Tn	Total	Totals	Sum
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	:45 AM	0	0				0	1	0			0	0			1	1 0	1	0			2	-
	:00 AM	0	0				0	0				0	0		0	1	0		1			3	-
	:15 AM	1	0				0	0				0	0			0	0		0			4	
_	:30 AM	0	0				0	0				0	0			2	2	2				10	-
	:45 AM	0	1	2			0	1	1	0		1	0		0	2	2	4	2			15	
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	:15 AM	2	0				0	0			0	3	0	0	0	3	2	2	1	0	5	11	
_	:30 AM	0	0				0	2	0			1	0			1	1	1	1	0		6	
. 0	:45 AM	2	0				0	2	0			0	1	0		1	1	0		_		6	
	:00 AM	0	0				0	0								0	0					0	
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	1:30 AM	0	0				0	0								0	0					0	
	1:45 AM	0	0				0	0				0	0			0	0					0	
	2:00 PM	0	0				0	0					0			0	v					0	
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	:45 PM	0	0			0	0	0	_		0	0	0	0	0	0	0	0	0	0	0	0	
_	:00 PM	0	0				0	0					1	1		3	0		1			7	
	:15 PM	3	1	0			1	4	1	0		0	1	0		1	0	2	0			13	
	:30 PM	0	0		_		1	2	0			0	0	0		0	2	1	2			8	<u> </u>
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~	:15 PM	2	0				0	3	0			0				0				_		5	
5	:30 PM	1	0				0	1	0			0				0	0	0				2	
5	:45 PM	0	0				0	0				0	0	_		0	0			_		1	
	:00 PM	0	0				0	0							_	0						0	
	:15 PM	0	0				0	0			0	0	0		_	0	0	0		_		0	
	:30 PM	0	0				0	0	0			0	0	_	U	0	0			0		0	\vdash
О	:45 PM	0	0				0									0							\vdash
_	:00 PM :15 PM	0	0				0									0				_		0	\vdash
	:30 PM	0	0				0								_	0						0	\vdash
	:45 PM	0	0				0									0							\vdash
_	:00 PM	0	0				0									0				_		0	\vdash
_	:15 PM	0	0				0									0							
	:30 PM	0	0				0		_							0						0	
8	:45 PM	0	0				0	0			0				0	0	0					0	
	:00 PM	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	:15 PM	0	0				0		_							0				_		0	
	:30 PM	0	0				0								_	0	_			_		0	
	:45 PM	0	0	_			0		_				_		_	0		_		_		0	
tals		18	7	6	0	31	5	27	9	0	41	11	7	10	0	28	14	32	19	0	65	165	

Peak Hour Heavy Vehicle Volume Summary

		,				• • • • • • • • • • • • • • • • • • • •	,															
				¥					+					1					→			
Hou	ırly		Fr	om No	orth			F	rom E	ast			Fr	om So	uth			Fr	om W	est		Total
Tim	e Period		E	rie Stre	eet			4	Mile R	oad			Е	rie Stre	et			4	Mile R	oad		Hourly
Star	t Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Volume
AM	7:45 AM	3	1	3	0	7	0	4	1	0	5	6	1	2	0	9	5	13	5	0	23	44
MD	12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	3:00 PM	6	2	0	0	8	2	6	1	0	9	1	3	2	0	6	2	6	5	0	13	36

15-Minute Heavy Vehicle Percentages

Erie Street and 4 Mile Road

15-Minute Heavy Vehicle Percentages

Count Basics Page 10 of 13 Start Date: Monday, September 13, 2021 Weekday Schools in Session Total Number of Hours Counted: 6 Non-Holiday No Special Events

Heavy Vehicles (Single-Unit Trucks, Buses & Semi-Trucks)

15-N	/linute		Fr	↓ om No				Fr	om Ea	ast			Fr	↑ om So	uth			Fr	→ rom W	est (Total Heavy	Hourly Heavy
Time	e Period		Е	rie Stre	eet			41	Mile Ro	oad			E	rie Stre	eet			4	Mile R	oad		Vehicle	Vehicle
Star	t Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Percent	Percent
	6:00 AM	0.0	0.0	0.0		0.0	25.0	0.0	0.0	0.0	4.2	100.0	0.0	9.1	0.0	15.4	20.0	0.0		0.0	8.0	6.4	4.4
	6:15 AM	0.0	0.0	100.0	0.0	5.6	0.0	3.4	0.0	0.0	3.3	100.0	0.0	7.1	0.0	9.5	0.0	11.1	0.0	0.0	5.3	5.7	3.6
	6:30 AM 6:45 AM	0.0	20.0	0.0	0.0	2.6	0.0	0.0	66.7	0.0	4.0	100.0	0.0	0.0	0.0	3.6	11.1	7.1	16.7	0.0	10.3	4.8	2.9 3.1
	7:00 AM	0.0	0.0	0.0	0.0	0.0	0.0	2.0 0.0	0.0	0.0	1.9 0.0	0.0		6.2 6.7	0.0	4.5 6.2	0.0	4.5 3.7	0.0 14.3	0.0	3.0 4.9	2.1	4.4
po	7:15 AM	5.3	0.0	12.5	0.0	5.7	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	3.8	0.0	0.0	2.7	2.2	5.0
Period	7:30 AM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.7	0.0	3.2	0.0		7.7	0.0	6.1	18.2	4.4	16.7	0.0	8.8	5.2	5.5
	7:45 AM	0.0	6.7	13.3	0.0	5.8	0.0	2.0	50.0	0.0	3.4	50.0	0.0	9.1	0.0	8.7	18.2	5.6	13.3	0.0	8.2	6.5	5.0
Peak	8:00 AM	5.9	0.0	0.0	0.0	2.6	0.0	2.4	0.0	0.0	2.2	50.0	14.3	9.1	0.0	15.0	0.0	7.0		0.0	6.2	5.6	4.4
	8:15 AM 8:30 AM	11.8	0.0	8.3 0.0	0.0	8.3 0.0	0.0	0.0 4.3	0.0	0.0	0.0 3.9	60.0 20.0	0.0	0.0	0.0	10.3 3.4	16.7 7.7	2.7 1.9	5.9 11.1	0.0	4.9 3.9	4.6 3.1	
AM	8:45 AM	12.5	0.0	0.0		9.1	0.0	5.3	0.0	0.0	4.3	0.0		0.0	0.0	4.3	5.9	0.0		0.0	1.6	3.9	
	9:00 AM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
	9:15 AM	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
	9:30 AM	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
	9:45 AM	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
	10:00 AM 10:15 AM	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0		0.0		0.0	0.0	0.0		0.0	0.0	0.0	
	10:15 AM 10:30 AM	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
	10:45 AM	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
po	11:00 AM	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
Perioa	11:15 AM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
	11:30 AM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
Peak	11:45 AM	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
	12:00 PM 12:15 PM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
Midday	12:30 PM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
Nia	12:45 PM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
	1:00 PM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	1:15 PM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
	1:30 PM 1:45 PM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
	2:00 PM	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
	2:15 PM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
	2:30 PM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	2:45 PM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
	3:00 PM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	6.2	5.3	0.0	8.3	0.0	5.2		0.0	3.9	3.0	3.6 4.1
	3:15 PM 3:30 PM	16.7 0.0	6.2 0.0	0.0	0.0	10.3	12.5 11.1	6.8 2.9	50.0	0.0	8.7 3.8	0.0		0.0	0.0	2.9 0.0	0.0 6.7	2.8 1.4		0.0	1.7 4.2	5.0 3.1	3.5
	3:45 PM	20.0	10.0	0.0	0.0	14.8	0.0	0.0	0.0	0.0	0.0	0.0	12.5	4.2	0.0	6.1	0.0	0.0		0.0	2.0	3.2	3.4
	4:00 PM	6.7	28.6	0.0	0.0	9.7	11.1	5.0	25.0	0.0	6.8	0.0		0.0	0.0	3.6	5.3	1.9		0.0	3.2	5.3	3.4
	4:15 PM	5.0	20.0	0.0	0.0	7.1	0.0	2.0	33.3	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	0.0	1.1	2.4	2.4
	4:30 PM	5.3	0.0	0.0	0.0	2.6	12.5	1.6	50.0	0.0	4.2	20.0	0.0	0.0	0.0	3.0	0.0	1.8		0.0	1.1	2.5	2.3
	4:45 PM 5:00 PM	0.0	0.0	10.0	0.0	2.4 0.0	0.0	5.6	0.0	0.0	4.8	0.0		0.0	0.0	0.0 4.3	4.8 0.0	3.1 0.0	3.8 7.1	0.0	3.6 1.1	3.2	2.0
pc	5:15 PM	10.0	0.0	0.0	0.0	6.2	0.0	1.6 5.1	0.0	0.0	1.4 4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	1.3 2.2	1.3
Period	5:30 PM	12.5	0.0	0.0	0.0	4.8	0.0	2.3	0.0	0.0	1.9	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	1.0	
k Pe	5:45 PM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0		0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.9	0.5	
Peal	6:00 PM	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
	6:15 PM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
PM	6:30 PM 6:45 PM	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
	7:00 PM	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0		0.0	0.0	0.0	
	7:15 PM	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0				0.0	0.0	0.0			0.0	0.0	
	7:30 PM	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0				0.0	0.0	0.0			0.0	0.0	
	7:45 PM	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0				0.0	0.0	0.0			0.0	0.0	
	8:00 PM	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0				0.0	0.0	0.0			0.0	0.0	
	8:15 PM 8:30 PM	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0		0.0		0.0	0.0	0.0			0.0	0.0	-
	8:45 PM	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0				0.0	0.0	0.0			0.0	0.0	
	9:00 PM	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0		0.0		0.0	0.0	0.0			0.0	0.0	
	9:15 PM	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0						0.0	0.0	0.0			0.0	0.0	
	9:30 PM	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0				0.0	0.0	0.0		0.0	0.0	0.0	
	9:45 PM	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0				0.0	0.0	0.0			0.0	0.0	
Tota	ils	4.4	3.4	3.7	0.0	4.0	3.5	2.2	23.7	0.0	2.9	22.9	3.9	2.6	0.0	4.6	3.3	2.6	5.8	0.0	3.3	3.5	

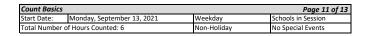
Peak Hour Heavy Vehicle Percentages Summary

	ait from r	,	• • • • • • • • • • • • • • • • • • • •			4500 00		. ,														
				¥					+					1					→			Hourly
Ηοι	ırly		Fr	om No	orth			F	rom E	ast			Fr	om So	uth			Fr	om W	'est		Heavy
Tim	e Period		Е	rie Stre	eet			4	Mile R	oad			E	rie Stre	et			4	Mile R	oad		Vehicle
Sta	rt Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Percent
AM	7:45 AM	4.1	2.2	6.8	0.0	4.3	0.0	2.0	25.0	0.0	2.2	42.9	2.9	3.8	0.0	8.9	10.2	4.6	9.3	0.0	5.9	5.0
MD	12:00 PM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PM	3:00 PM	9.5	3.9	0.0	0.0	5.8	6.7	2.3	25.0	0.0	3.0	16.7	7.0	2.7	0.0	4.8	1.7	2.3	7.9	0.0	3.0	3.6

15-Minute Pedestrian and Bicyclist Data

Erie Street and 4 Mile Road

15-Minute Pedestrian and Bicyclist Data





			ist Data											
		Cr	ossing 👛	-	Cre	ossing	← →	Cre	ossing		Cr	ossing 🛊		
15	Minute	North App	roach		East App	roach	ı i	South App	roach 💠	•••	West App	roach 🗼		1
Tin	ne Period	Ei	rie Street		4	Mile Road		Eı	rie Street		4	Mile Road		15-Min
Sta	rt Time	Pedestrian	Bicyclist	Total	Pedestrian	Bicyclist	Total	Pedestrian	Bicyclist	Total	Pedestrian	Bicyclist	Total	Totals
	6:00 AM	0	0	0	0	0	0	0	0	0	0	1	1	1
	6:15 AM	0	0	0	0	0	0	0	1	1	0	0	0	1
	6:30 AM 6:45 AM	0	0	0	0	0 1	0	0	0	1	0	0	0	1
_	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
<u>8</u>	7:15 AM	1	0	1	0	0	0	0	0	0	1	0	1	2
Period	7:30 AM	0	0	0	0	0	0	0	0	Ö	0	0	0	0
٥	7:45 AM	0	1	1	0	0	0	0	0	0	0	0	0	1
Peak	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
چ	8:15 AM 8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
Š	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
`	9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:30 AM	0	0	0	0	0	0	0	0	Ö	0	0	Ö	0
	9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	10:15 AM 10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	10:30 AM 10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
100	11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
Peri	11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
٦	11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
Peak	11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
ī	12:00 PM 12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
idaay	12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Ξ	1:00 PM	0	0	Ö	0	0	0	0	0	0	0	0	0	0
	1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:00 PM 2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:45 PM 4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	1	1	0	0	0	0	0	0	0	0	0	1
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
ø	5:00 PM	1	0	1	1	0	1	0	0	0	0	0	0	2
Period	5:15 PM 5:30 PM	0	0	0	0	0	0	0	1	1	0	0	0	1
Pe	5:30 PM 5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Peak	6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Pe	6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Ž	6:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
٥	6:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 PM 7:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 PM	0	0	0	0	Ö	0	0	Ö	0	0	Ö	0	0
	8:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:15 PM 9:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
	9:45 PM													

Special Pedestrians

Special redestrialis		1		1	1	1
Pedestrian Type	None	1 or 2	A Few	Several	Many	Unknown
Pre-school Children	х					
Elementry School Age Children	х					
Visually Impaired (white cane/helper dog)	х					
Elderly/Disabled (except wheelchairs)	х					
Wheelchairs/Electric Scooters	х					
Other (None)	х					



Wisconsin Department of Transportation

Hourly Traffic Volume Report

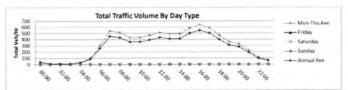
2017-Jun-06 to 2017-Jun-08

Coverage Count

48 Hour Count - Averages and Graphs Do Not Include All Days

Location	CTH G EAST OF ERIE ST CALEDONIA TNSHP	Segment ID
Site #	511002	Seasonal Factor Group 2
Region	SE	Daily Factor Group 2
County	RACINE	Axle Factor Group 6
Funct. Class	U Minor Arterial	Growth Factor Group

Hour	Sun Mon				Tues 2017-06-06			Wed :	2017-06-	-07	Thur 2	2017-06-	-08	Fri			Sat		
Hour	Undivided Hw	y Tot	/ Undivid	led Hwy	Total	Undivide	d Hwy	Total	Undivide	d Hwy	Total	Undivide	d Hwy	Total	Undivided	Hwy	Total	Undivided Hy	vy Tota
00:00-00:59			-	1	-					36	36		44	44	5.500	-	-	1	
01:00-01:59			-		-			-		15	15		11	11			16		
02:00-02:59			-		-			-		9	9		13	13					
03:00-03:59			-		-					10	10		16	16					
04:00-04:59					-			-		30	30		38	38	7				
05:00-05:59		1	-		-			-		98	98		100	100					
06:00-06:59			-		-			-		302	302		306	306				. 8	
07:00-07:59			-		-					548	548		528	528					
08:00-08:59			+		+			-		566	566		457	457					
09:00-09:59					-					426	426		437	437					
10:00-10:59			-		-			-		450	450		412	412			-		
11:00-11:59			-		-					478	478		456	456			-		
12:00-12:59			-							528	528		495	495					
13:00-13:59			-							475	475		504	504					
14:00-14:59			-		-					503	503		476	476			-	VIII. 1	
15:00-15:59			-		-		632	632		534	534						7		
16:00-16:59			-		-		632	632		646	646			-			- 1		
17:00-17:59			-		-		594	594		582	582			-					
18:00-18:59		3	-		-		436	436		500	500			-	7				
19:00-19:59			-		-		358	358		367	367								
20:00-20:59			7		-		312	312		338	338			-			-		7
21:00-21:59					-		214	214		230	230		-				-		
22:00-22:59		-			-		106	106		118	118			-					
23:00-23:59			-				64	64		70	70			-					
Daily Total								-	-	7,859	7,859	-				-			-
AM Peak			-							556			F20	520					
Hour	37	1		-		-			-	566	566	- 1	528	528					
MD Peak		-		-		-	-		-	08:00 528	08:00	-	07:00	07:00 504	4	*			-
Hour	-			-		-	-			-	-		504		-	-	-		
PM Peak	-	1	-		_	-	632	632		12:00	12:00	-	13:00	13:00	-			1	-
		1		intiation to the		-	15:00	nerent eletablishing		546	646				*	-	-		
Hour	-	1	-	-	_	1	15:00	15:00	-	16:00	16:00	-	-	-		-			-
Daily Peak	-4-	1				-	- 1			646	646		-			-			-
Hour		-		-		-	-			16:00	16:00		-	-		-	-		-
% of Total		-	1			-	-		- 1	8.2%	8.2%	-	-	-	+)	-			-
Daily Ave		1	-	-	-		-	-		327	327	-				•			-
Seasonal Fctr			1			0.924	0.924		0.924	0.924		0.924	0.924						
Daily Fctr			of the second			0.948	0.948		0.948	0.948		0.914	0.914						
Axle Factor		A LEG				0.489	0.489		0.489	0.489		0.489	0.489						
Pulse Fctr	No.					2.000	2.000		2.000	2.000		2.000	2.000						
Overall Fctr	0.000 0.0	on	0.000	0.000		0.857	0.857		0.857	0.857		0.826	0.826		0.000	0.000		0.000 0.	000



U	Mon-T	hurs Av	erage	Mon-Fri Ave	rage	7 Day Avera	age	Estimated Annual Ave			
Hour	Undivid	ed Hwy	Total	Undivided Hwy	Total	Undivided Hwy	Total	Undivide	d Hwy	Total	
00:00-00:59		40	40		-			-	34	34	
01:00-01:59		13	13		-	-	-	1	11	11	
02:00-02:59	-	11	11			/ 1	90)	9	9	
03:00-03:59		13	13		-	3 18.7	10	1	11	11	
04:00-04:59	-	34	34		. 4	1370	wn	/-	29	29	
05:00-05:59	-	99	99	ماماه حر	-	1. 1	-		83	83	
06:00-06:59	-	304	304	100	.04	to.	/		256	256	
07:00-07:59	-	538	538	alsu.			-	-	453	453	
08:00-08:59	1-	512	512		-		-		431	431	
09:00-09:59	-	432	432			-		-	363	363	
10:00-10:59	-	431	431		-		-		363	363	
11:00-11:59		467	467		-				393	393	
12:00-12:59	-	512	512		-		1	-	431	431	
13:00-13:59	3-	490	490	-47	.6.	~ SAM).	-	412	412	
14:00-14:59	-	490	490	583		2~5AM	/		412	412	
15:00-15:59	-	583	(583	2050	m .	<u> </u>	+		499	499	
16:00-16:59	-	639	639	580				-	547	547	
17:00-17:59	-	588	588		-				504	504	
18:00-18:59	-	468	468	4 4				1.5	401	401	
19:00-19:59	-	363	363		1			-	311	311	
20:00-20:59	-	325	325		-		-	-	278	278	
21:00-21:59	-	222	222		-		7	*	190	190	
22:00-22:59	-	112	112		-			10	96	96	
23:00-23:59	-	67	67		-			-	57	57	
Daily Total		7,750	7,750						6,573	6,573	
AM Peak	1000	538	538		-				453	453	
Hour	-	07:00	07:00		-			-4	07:00	07:00	
MD Peak	-	512	512		-		1-	-	431	431	
Hour		12:00	12:00			-	-	-	12:00	12:00	
PM Peak	-	639	639				-	-	547	547	
Hour	-	16:00	16:00		-	-		-	16:00	16:00	
Daily Peak	-	639	639		-		-	-	547	547	
Hour	-	16:00	16:00		-		-	-	16:00	16:00	
% of Total	-	8.2%	8.2%		-			-	8.3%	8.3%	
Daily Ave	-	323	323		-				274	274	



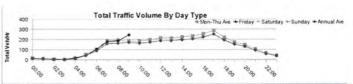
Wisconsin Department of Transportation Hourly Traffic Volume Report 2011-Aug-02 to 2011-Aug-05

Coverage Count

72 Hour Count - Averages and Graphs Do Not Include All Days

Location ERIE ST NORTH OF CTH G CALEDONIA TNSHP	Segment ID
Site # 511003	Seasonal Factor Group 2
Region SE	Daily Factor Group 2
County RACINE	Axle Factor Group 7
Funct. Class U Collector	Growth Factor Group

Hour	Sun Mon			Tues 2011-08-02 Wed 2011-08-03			03	3 Thur 2011-08-04				011-08-	05	Sat	770				
123.61	Undivided Hwy	Total Un	divided Hwy	Total	Undivide	d Hwy	Total	Undivide	d Hwy	Total	Undivide	d Hwy	Total	Undivided	Hwy	Total	Undivided	Hwy	To
00:00-00:59				-					16	16		20	20		15	15	Section 1		
01:00-01:59				-					9	9		15	15		11	11			
02:00-02:59				-			-		6	6		7	7		8	8			-
03:00-03:59							-		4	4		4	4		4	4			
04:00-04:59				-			-		11	11		14	14		20	20			
05:00-05:59		-		-			-		51	51		55	55		40	40			
06:00-06:59				-					104	104	-	103	103		103	103			
07:00-07:59		-		-					194	194		186	186		178	178			
08:00-08:59		-							219	219		168	168		187	187			
09:00-09:59								-	194	194		169	169		245	245			
10:00-10:59				-		179	179		208	208		169	169		-				_
11:00-11:59					1	179	179		202	202		210	210						
12:00-12:59		-				196	196		209	209		237	237	-					
13:00-13:59						216	216		209	209	unensumeens in	215	215	-		-			-
14:00-14:59			1 1			223	223		209	209		243	243						-
15:00-15:59				-		197	197		252	252		252	252						_
16:00-16:59		-				230	230		255	255	-	277	277		-				_
17:00-17:59						276	276		294	294	-	295	295		-		-		-
18:00-18:59						209	209		228	228	-	225	225	-				-	
19:00-19:59	333					160	160	1	152	152	-	209	209				-	-	-
20:00-20:59	100					133	133		166	166		148	148		-		-		-
21:00-21:59	- 331-3					113	113		121	121		83	83			-	-		-
22:00-22:59	3707			-		70	70		70	70		60	60	-			- 1	1	
23:00-23:59						49	49		35	35		45	45						
Daily Total		-	4 .		- 4	-		-	3,418	3,418	- 4	3,409	3,409		-		- 1		
M Peak		-1	- 1	-1	- 2	-1		- 1	219	219		186	186		245	245	- 2		
Hour					- 1	-		- 1	08:00	08:00	7	07:00	07:00		09:00	09:00			
AD Peak			4 4	-	-	223	223	-	209	209	- 1	243	243		30.00	-			
Hour				-	-	14:00	14:00	-	12:00	12:00		14:00	14:00		- 4				
PM Peak	-	-		-		276	276		294	294	- 4	295	295		-		-	-	
lour						17:00	17:00	-	17:00	17:00		17:00	17:00		-	-	-	-	
Daily Peak		-		-	-	- 1		-	294	294		295	295	-	-		-	-	
lour		-	-	-	-	-	-	-	17:00	17:00		17:00	17:00	1	-		-	-	
6 of Total	4 4	- 1		_	-				8.6%	8.6%		8.7%	8.7%	-	-		-	-	
Daily Ave	8 4	-			4	- 1		-	142	142		142	142		-		4		
easonal Fctr					0.943	0.943		0.943	0.943		0.943	0.943		0.943	0.943				
Daily Fctr					0.955	0.955		0.929	0.929		0.913	0.913		0.872	0.872				
xle Factor					0.500	0.500		0.500	0.500		0.500	0.500		0.500	0.500		0.00		
Pulse Fctr					2.000	2.000		2.000	2.000		2.000	2.000		2.000	2.000				
Overall Fctr	0.000 0.000		0.000 0.000		0.901	0.901		0.876	0.876		0.861	0.861		0.822	0.822		0.000	0.000	

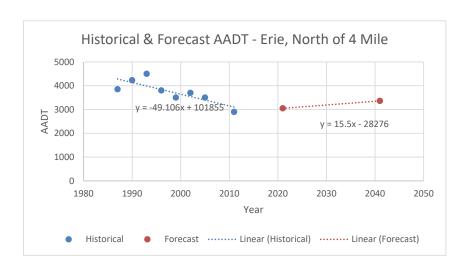


	Mon-Thurs Average			Mon	-Fri Aver	age	7 Day Avera	ige	Estimated Annual Ave			
Hour			Total	Undivid	ed Hwy	Total	384 vs	Total	Undivide	ed Hwy	Tota	
00:00-00:59		18	18	-	17	17		/		15	15	
01:00-01:59		12	12	-	12	12		/ .	ME -) 10	10	
02:00-02:59	-	7	7	-	7	7	- A	25	r -/	6		
03:00-03:59	-	4	4	-	4	4	11.15	20	/-	3	3	
04:00-04:59	-	13	13	-	15	15	284		-	13	13	
05:00-05:59	-	53	53	-	49	15 49	70-1		-	42	42	
06:00-06:59	-	104	104		103	103	29		-	88	88	
07:00-07:59	-	190	196	- 155	106	186	2.		- 4	159	159	
08:00-08:59	-	194	194	- 204	191	191		1.		163	163	
09:00-09:59	-	182	182	-	203	203				172	172	
10:00-10:59	-	185	185	-	-	-			-	163	163	
11:00-11:59	-	197	197	-	-		-			173	173	
12:00-12:59	-	214	214	-	-		(-20)	1 .	١ -	188	188	
13:00-13:59	-	213	213	-			1-000	UEP.) -	188	188	
14:00-14:59		225	225	2	34 275	UD	200	-		198	198	
15:00-15:59	-	234	(234	7	-				-	205	205	
16:00-16:59	-	254	254	,	175	now				223	223	
17:00-17:59	-	288	288						-	253	253	
18:00-18:59	-	221	221	-	- 1				-	194	194	
19:00-19:59	-	174	174	-	-	-				152	152	
20:00-20:59	-	149	149	-	-				-	131	131	
21:00-21:59	-	106	106	-	-				-	93	93	
22:00-22:59	-	67	67	-	-				-	59	59	
23:00-23:59		43	43	-	-		-		-	38	38	
Daily Total	-4	3,344	3,344	-	-		4 4		- 2	2,928	2,928	
AM Peak		194	194	- 4	203	203	4 4		- 4	172	172	
Hour	-	08:00	08:00	-	09:00	09:00				09:00	09:00	
MD Peak	-	225	225		-	-			-	198	198	
Hour	-	14:00	14:00	-	-				-	14:00	14:00	
PM Peak	-	288	288	-	-					253	253	
Hour	-	17:00	17:00		-		4 -		- 4	17:00	17:00	
Daily Peak	-	288	288						-	253	253	
Hour	-	17:00	17:00		-				-	17:00	17:00	
% of Total	-	8.6%	8.6%		-	-			-	8.7%	8.7%	
Daily Ave	-	139	139	- 4	-	-	4 4		-	122	122	

Historical Traffic Trends & Forecast

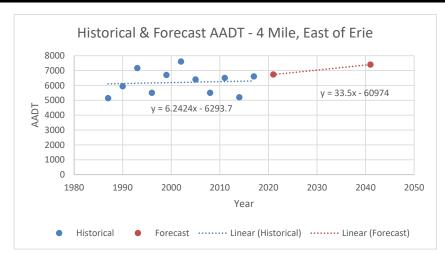
511003 - Erie, North of 4 Mile

1987	3850	
1990	4230	
1993	4500	
1996	3800	
1999	3500	
2002	3700	
2005	3500	
2011	2900	
2021	3050	0.52%
2041	3360	0.51%



511002 - 4 Mile, East of Erie

1987	5140	
1990	5940	
1993	7160	
1996	5500	
1999	6700	
2002	7600	
2005	6400	
2008	5500	
2011	6500	
2014	5200	
2017	6600	
2021	6730	0.49%
2041	7400	0.50%



Year 2021 Background Traffic Analysis Outputs

09/16/2021

Synchro 11 Report

	۶	→	•	•	+	4	1	†	~	/	+	4
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	î,		ሻ	î,			4			4	
Traffic Volume (vph)	65	310	50	5	225	30	50	40	15	70	65	110
Future Volume (vph)	65	310	50	5	225	30	50	40	15	70	65	110
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12	12	12	12	12	12	12
Grade (%)		0%			0%			0%			0%	
Storage Length (ft)	95		0	100		0	0		0	0		0
Storage Lanes	1		0	1		0	0		0	0		0
Taper Length (ft)	50			50			50			50		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor												
Frt		0.979			0.982			0.981			0.939	
Flt Protected	0.950			0.950				0.977			0.986	
Satd. Flow (prot)	1703	1755	0	1770	1829	0	0	1671	0	0	1691	0
Flt Permitted	0.950			0.950				0.977			0.986	
Satd. Flow (perm)	1703	1755	0	1770	1829	0	0	1671	0	0	1691	0
Link Speed (mph)		35			35			30			30	
Link Distance (ft)		726			167			241			618	
Travel Time (s)		14.1			3.3			5.5			14.0	
Confl. Peds. (#/hr)												
Confl. Bikes (#/hr)												
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Growth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	6%	6%	6%	2%	2%	2%	9%	9%	9%	4%	4%	4%
Bus Blockages (#/hr)	0	0	0	0	0	0	0	0	0	0	0	0
Parking (#/hr)												
Mid-Block Traffic (%)		0%			0%			0%			0%	
Adj. Flow (vph)	71	337	54	5	245	33	54	43	16	76	71	120
Shared Lane Traffic (%)												
Lane Group Flow (vph)	71	391	0	5	278	0	0	113	0	0	267	0
Sign Control		Stop			Stop			Stop			Stop	
Intersection Summary												
Area Type:	Other											
Control Type: Unsignalized												

Intersection												
Intersection Delay, s/veh	16.8											
Intersection LOS	С											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	. ነ	₽		ሻ	f)			4			4	
Traffic Vol, veh/h	65	310	50	5	225	30	50	40	15	70	65	110
Future Vol, veh/h	65	310	50	5	225	30	50	40	15	70	65	110
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	6	6	6	2	2	2	9	9	9	4	4	4
Mvmt Flow	71	337	54	5	245	33	54	43	16	76	71	120
Number of Lanes	1	1	0	1	1	0	0	1	0	0	1	0
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	2			2			1			1		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	1			1			2			2		
Conflicting Approach Right	NB			SB			WB			EB		
Conflicting Lanes Right	1			1			2			2		
HCM Control Delay	20.1			15.6			12			14.5		
HCM LOS	С			С			В			В		
Lane		NBLn1	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1					
Vol Left, %		48%	100%	0%	100%	0%	29%					
Vol Thru, %		38%	0%	86%	0%	88%	27%					
Vol Right, %		14%	0%	14%	0%	12%	45%					
Sign Control		Stop	Stop	Stop	Stop	Stop	Stop					
Traffic Vol by Lane		105	65	360	5	255	245					
LT Vol		50	65	0	5	0	70					
Through Vol		40	0	310	0	225	65					
RT Vol		15	0	50	0	30	110					
Lane Flow Rate		114	71	391	5	277	266					
Geometry Grp		2	7	7	7	7	2					
Degree of Util (X)		0.221	0.136	0.687	0.011	0.504	0.461					
Departure Headway (Hd)		6.963	6.927	6.318	7.142	6.546	6.238					
Convergence, Y/N		Yes	Yes	Yes	Yes	Yes	Yes					
Can		E1E	EOO	676	EOO	EEO	E70					

575

21.8

С

5.3

5.018 4.638 4.029 4.855

503

9.9 15.7 578

14.5

552

2.8

4.26 4.282

AM Peak Synchro 11 Report

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515 520

12 10.7

0.5

Cap

Service Time HCM Lane V/C Ratio

HCM Control Delay

HCM Lane LOS

HCM 95th-tile Q

09/	16/2021	

Synchro 11 Report

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	f)		ሻ	f)			4			4	
Traffic Volume (vph)	105	255	120	5	265	55	75	65	5	40	60	90
Future Volume (vph)	105	255	120	5	265	55	75	65	5	40	60	90
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12	12	12	12	12	12	12
Grade (%)		0%			0%			0%			0%	
Storage Length (ft)	95		0	100		0	0		0	0		0
Storage Lanes	1		0	1		0	0		0	0		0
Taper Length (ft)	50			50			50			50		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor												
Frt		0.952			0.974			0.996			0.936	
Flt Protected	0.950			0.950				0.975			0.990	
Satd. Flow (prot)	1752	1756	0	1752	1797	0	0	1757	0	0	1661	0
Flt Permitted	0.950			0.950				0.975			0.990	
Satd. Flow (perm)	1752	1756	0	1752	1797	0	0	1757	0	0	1661	0
Link Speed (mph)		35			35			30			30	
Link Distance (ft)		726			167			241			618	
Travel Time (s)		14.1			3.3			5.5			14.0	
Confl. Peds. (#/hr)												
Confl. Bikes (#/hr)	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.01	0.07	0.01	0.07	0.01
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Growth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	3%	3%	3%	3%	3%	3%	5%	5%	5%	6%	6%	6%
Bus Blockages (#/hr) Parking (#/hr)	0	0	0	0	0	0	0	0	0	0	0	0
Mid-Block Traffic (%)		0%			0%			0%			0%	
Adj. Flow (vph)	109	266	125	5	276	57	78	68	5	42	63	94
Shared Lane Traffic (%)	109	200	125	5	2/0	57	/0	00	5	42	03	94
Lane Group Flow (vph)	109	391	0	5	333	0	0	151	0	0	199	0
Sign Control	109	Stop	U	5	Stop	U	U	Stop	U	U	Stop	U
Sign Control		Stop			Stop			Stop			Stop	
Intersection Summary												

Area Type: Control Type: Unsignalized Other

HCM 6th AWSC 100: Erie Street & 4 Mile Road

09/16/2021

Intersection												
Intersection Delay, s/veh	16.9											
Intersection LOS	С											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	f)		٦	£			4			4	
Traffic Vol, veh/h	105	255	120	5	265	55	75	65	5	40	60	90
Future Vol, veh/h	105	255	120	5	265	55	75	65	5	40	60	90
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Heavy Vehicles, %	3	3	3	3	3	3	5	5	5	6	6	6
Mvmt Flow	109	266	125	5	276	57	78	68	5	42	63	94
Number of Lanes	1	1	0	1	1	0	0	1	0	0	1	0
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	2			2			1			1		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	1			1			2			2		
Conflicting Approach Right	NB			SB			WB			EB		
Conflicting Lanes Right	1			1			2			2		
HCM Control Delay	18.5			18.3			12.9			13.3		
HCM LOS	С			С			В			В		
Lane		NBLn1	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1					
Vol Left, %		52%	100%	0%	100%	0%	21%					
Vol Thru, %		45%	0%	68%	0%	83%	32%					
Vol Right, %		3%	0%	32%	0%	17%	47%					
Sign Control		Stop	Stop	Stop	Stop	Stop	Stop					
Traffic Vol by Lane		145	105	375	5	320	190					
LT Vol		75	105	0	5	0	40					
Through Vol		65	0	255	0	265	60					
RT Vol		5	0	120	0	55	90					

Vol Thru, %	45%	0%	68%	0%	83%	32%
Vol Right, %	3%	0%	32%	0%	17%	47%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	145	105	375	5	320	190
LT Vol	75	105	0	5	0	40
Through Vol	65	0	255	0	265	60
RT Vol	5	0	120	0	55	90
Lane Flow Rate	151	109	391	5	333	198
Geometry Grp	2	7	7	7	7	2
Degree of Util (X)	0.293	0.21	0.67	0.01	0.599	0.36
Departure Headway (Hd)	6.986	6.912	6.174	7.098	6.464	6.549
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	514	523	590	504	560	548
Service Time	5.04	4.612	3.874	4.839	4.205	4.599
HCM Lane V/C Ratio	0.294	0.208	0.663	0.01	0.595	0.361
HCM Control Delay	12.9	11.4	20.5	9.9	18.4	13.3
HCM Lane LOS	В	В	С	Α	С	В
HCM 95th-tile Q	1.2	0.8	5	0	3.9	1.6

Year 2041 Background Traffic Analysis Outputs

09/16/2021

Synchro 11 Report

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	₽		"	f)			4			4	
Traffic Volume (vph)	40	340	55	5	250	30	55	45	15	75	70	65
Future Volume (vph)	40	340	55	5	250	30	55	45	15	75	70	65
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12	12	12	12	12	12	12
Grade (%)		0%			0%			0%			0%	
Storage Length (ft)	95		0	100		0	0		0	0		0
Storage Lanes	1		0	1		0	0		0	0		0
Taper Length (ft)	50			50			50			50		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor												
Frt		0.979			0.984			0.983			0.958	
Flt Protected	0.950			0.950				0.977			0.982	
Satd. Flow (prot)	1703	1755	0	1770	1833	0	0	1674	0	0	1719	0
Flt Permitted	0.950			0.950				0.977			0.982	
Satd. Flow (perm)	1703	1755	0	1770	1833	0	0	1674	0	0	1719	0
Link Speed (mph)		35			35			30			30	
Link Distance (ft)		726			167			241			618	
Travel Time (s)		14.1			3.3			5.5			14.0	
Confl. Peds. (#/hr)												
Confl. Bikes (#/hr)												
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Growth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	6%	6%	6%	2%	2%	2%	9%	9%	9%	4%	4%	4%
Bus Blockages (#/hr)	0	0	0	0	0	0	0	0	0	0	0	0
Parking (#/hr)												
Mid-Block Traffic (%)		0%			0%			0%			0%	
Adj. Flow (vph)	43	370	60	5	272	33	60	49	16	82	76	71
Shared Lane Traffic (%)												
Lane Group Flow (vph)	43	430	0	5	305	0	0	125	0	0	229	0
Sign Control		Stop			Stop			Stop			Stop	
Intersection Summary												
Area Type:	Other											
Control Type: Unsignalized												

Intersection												
Intersection Delay, s/veh	19											
Intersection LOS	С											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	ĵ»		ħ,	ĵ»			4			4	
Traffic Vol, veh/h	40	340	55	5	250	30	55	45	15	75	70	65
Future Vol, veh/h	40	340	55	5	250	30	55	45	15	75	70	65
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	6	6	6	2	2	2	9	9	9	4	4	4
Mvmt Flow	43	370	60	5	272	33	60	49	16	82	76	71
Number of Lanes	1	1	0	1	1	0	0	1	0	0	1	0
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	2			2			1			1		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	1			1			2			2		
Conflicting Approach Right	NB			SB			WB			EB		
Conflicting Lanes Right	1			1			2			2		
HCM Control Delay	24.4			16.8			12.4			14.2		
HCM LOS	С			С			В			В		
Lane		NBLn1	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1					
Vol Left, %		48%	100%	0%	100%	0%	36%					
Vol Thru, %		39%	0%	86%	0%	89%	33%					
Vol Right, %		13%	0%	14%	0%	11%	31%					
Sign Control		Stop	Stop	Stop	Stop	Stop	Stop					
Traffic Vol by Lane		115	40	395	5	280	210					

Traffic Vol by Lane LT Vol Through Vol 45 340 0 250 70 RT Vol Lane Flow Rate
Geometry Grp
Degree of Util (X)
Departure Headway (Hd)
Convergence, Y/N 125 43 429 304 228 0.245 0.084 0.754 0.011 0.549 0.414 7.061 6.93 6.321 7.082 6.495 6.533 Yes Yes Yes Yes Yes Yes Cap 507 575 554 550 520 505 Service Time HCM Lane V/C Ratio 5.119 4.63 4.021 4.827 4.239 4.584 HCM Control Delay 12.4 10.3 25.8 9.9 16.9 14.2 HCM Lane LOS HCM 95th-tile Q 0.3 6.7 3.3

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AM Peak

Synchro 11 Report

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	Ĭ	f)		J.	î,			4			4	
Traffic Volume (vph)	60	280	130	5	290	60	85	70	5	45	65	55
Future Volume (vph)	60	280	130	5	290	60	85	70	5	45	65	55
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12	12	12	12	12	12	12
Grade (%)		0%			0%			0%			0%	
Storage Length (ft)	95		0	100		0	0		0	0		0
Storage Lanes	1		0	1		0	0		0	0		0
Taper Length (ft)	50			50			50			50		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor												
Frt		0.953			0.974			0.996			0.955	
Flt Protected	0.950			0.950				0.974			0.987	
Satd. Flow (prot)	1752	1758	0	1752	1797	0	0	1755	0	0	1690	0
Flt Permitted	0.950			0.950				0.974			0.987	
Satd. Flow (perm)	1752	1758	0	1752	1797	0	0	1755	0	0	1690	0
Link Speed (mph)		35			35			30			30	
Link Distance (ft)		726			167			241			618	
Travel Time (s)		14.1			3.3			5.5			14.0	
Confl. Peds. (#/hr)												
Confl. Bikes (#/hr)												
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Growth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	3%	3%	3%	3%	3%	3%	5%	5%	5%	6%	6%	6%
Bus Blockages (#/hr)	0	0	0	0	0	0	0	0	0	0	0	0
Parking (#/hr)												
Mid-Block Traffic (%)		0%			0%			0%			0%	
Adj. Flow (vph)	63	292	135	5	302	63	89	73	5	47	68	57
Shared Lane Traffic (%)												
Lane Group Flow (vph)	63	427	0	5	365	0	0	167	0	0	172	0
Sign Control		Stop			Stop			Stop			Stop	
Intersection Summary												
Area Type:	Other											
Control Type: Unsignalize	d											

Synchro 11 Report

HCM 6th AWSC 100: Erie Street & 4 Mile Road

09/16/2021

Intersection Intersection Delay, s/veh Intersection LOS 19.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	٦	ĵ.		٦	ĵ.			4			4	
Traffic Vol, veh/h	60	280	130	5	290	60	85	70	5	45	65	55
Future Vol, veh/h	60	280	130	5	290	60	85	70	5	45	65	55
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Heavy Vehicles, %	3	3	3	3	3	3	5	5	5	6	6	6
Mvmt Flow	63	292	135	5	302	63	89	73	5	47	68	57
Number of Lanes	1	1	0	1	1	0	0	1	0	0	1	0
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	2			2			1			1		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	1			1			2			2		
Conflicting Approach Right	NB			SB			WB			EB		
Conflicting Lanes Right	1			1			2			2		
HCM Control Delay	22.6			20.5			13.6			13.3		
HCM LOS	С			С			В			В		

Lane	NBLn1	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1	
Vol Left, %	53%	100%	0%	100%	0%	27%	
Vol Thru, %	44%	0%	68%	0%	83%	39%	
Vol Right, %	3%	0%	32%	0%	17%	33%	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	
Traffic Vol by Lane	160	60	410	5	350	165	
LT Vol	85	60	0	5	0	45	
Through Vol	70	0	280	0	290	65	
RT Vol	5	0	130	0	60	55	
Lane Flow Rate	167	62	427	5	365	172	
Geometry Grp	2	7	7	7	7	2	
Degree of Util (X)	0.328	0.12	0.735	0.01	0.655	0.328	
Departure Headway (Hd)	7.082	6.932	6.195	7.096	6.463	6.861	
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	
Cap	507	517	585	504	558	523	
Service Time	5.138	4.677	3.94	4.841	4.207	4.917	
HCM Lane V/C Ratio	0.329	0.12	0.73	0.01	0.654	0.329	
HCM Control Delay	13.6	10.6	24.3	9.9	20.7	13.3	
HCM Lane LOS	В	В	С	Α	С	В	
HCM 95th-tile Q	1.4	0.4	6.3	0	4.7	1.4	

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Year 2021 Build Traffic Analysis Outputs

09/16/2021

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	î,		ሻ	î,			4			4	
Traffic Volume (vph)	55	315	50	5	225	20	55	35	15	50	45	75
Future Volume (vph)	55	315	50	5	225	20	55	35	15	50	45	75
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12	12	12	12	12	12	12
Grade (%)		0%			0%			0%			0%	
Storage Length (ft)	95		0	100		0	0		0	0		0
Storage Lanes	1		0	1		0	0		0	0		0
Taper Length (ft)	50			50			50			50		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor												
Frt		0.980			0.988			0.981			0.940	
Flt Protected	0.950			0.950				0.974			0.986	
Satd. Flow (prot)	1703	1757	0	1770	1840	0	0	1666	0	0	1693	0
Flt Permitted	0.950			0.950				0.974			0.986	
Satd. Flow (perm)	1703	1757	0	1770	1840	0	0	1666	0	0	1693	0
Link Speed (mph)		35			35			30			30	
Link Distance (ft)		726			167			241			618	
Travel Time (s)		14.1			3.3			5.5			14.0	
Confl. Peds. (#/hr)												
Confl. Bikes (#/hr)												
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Growth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	6%	6%	6%	2%	2%	2%	9%	9%	9%	4%	4%	4%
Bus Blockages (#/hr)	0	0	0	0	0	0	0	0	0	0	0	0
Parking (#/hr)												
Mid-Block Traffic (%)		0%			0%			0%			0%	
Adj. Flow (vph)	60	342	54	5	245	22	60	38	16	54	49	82
Shared Lane Traffic (%)												
Lane Group Flow (vph)	60	396	0	5	267	0	0	114	0	0	185	0
Sign Control		Stop			Stop			Stop			Stop	
Intersection Summary												
Area Type:	Other											
Control Type: Unsignalized												

ntersection Delay, s/veh ntersection LOS	14.8
ntersection LOS	В

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	٦	î,		٦	ĵ.			4			4	
Traffic Vol, veh/h	55	315	50	5	225	20	55	35	15	50	45	75
Future Vol, veh/h	55	315	50	5	225	20	55	35	15	50	45	75
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	6	6	6	2	2	2	9	9	9	4	4	4
Mvmt Flow	60	342	54	5	245	22	60	38	16	54	49	82
Number of Lanes	1	1	0	1	1	0	0	1	0	0	1	0
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	2			2			1			1		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	1			1			2			2		
Conflicting Approach Right	NB			SB			WB			EB		
Conflicting Lanes Right	1			1			2			2		
HCM Control Delay	17.6			13.6			11.3			11.8		
HCM LOS	С			В			В			В		

Lane	NBLn1	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1
Vol Left, %	52%	100%	0%	100%	0%	29%
Vol Thru, %	33%	0%	86%	0%	92%	26%
Vol Right, %	14%	0%	14%	0%	8%	44%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	105	55	365	5	245	170
LT Vol	55	55	0	5	0	50
Through Vol	35	0	315	0	225	45
RT Vol	15	0	50	0	20	75
Lane Flow Rate	114	60	397	5	266	185
Geometry Grp	2	7	7	7	7	2
Degree of Util (X)	0.206	0.107	0.645	0.01	0.449	0.309
Departure Headway (Hd)	6.489	6.457	5.852	6.638	6.072	6.011
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	550	554	615	537	591	595
Service Time	4.57	4.212	3.607	4.403	3.836	4.084
HCM Lane V/C Ratio	0.207	0.108	0.646	0.009	0.45	0.311
HCM Control Delay	11.3	10	18.7	9.5	13.7	11.8
HCM Lane LOS	В	Α	С	Α	В	В
HCM 95th-tile Q	0.8	0.4	4.7	0	2.3	1.3

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Synchro 11 Report

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Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	f)			ર્ન		7
Traffic Volume (vph)	370	10	5	250	0	5
Future Volume (vph)	370	10	5	250	0	5
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12
Grade (%)	0%			0%	0%	
Storage Length (ft)		0	0		0	0
Storage Lanes		0	0		0	1
Taper Length (ft)			50		50	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor						
Frt	0.996					0.865
Flt Protected				0.999		
Satd. Flow (prot)	1785	0	0	1861	0	1611
Flt Permitted				0.999		
Satd. Flow (perm)	1785	0	0	1861	0	1611
Link Speed (mph)	35			35	25	
Link Distance (ft)	167			699	91	
Travel Time (s)	3.3			13.6	2.5	
Confl. Peds. (#/hr)						
Confl. Bikes (#/hr)						
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Growth Factor	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	6%	6%	2%	2%	2%	2%
Bus Blockages (#/hr)	0	0	0	0	0	0
Parking (#/hr)						
Mid-Block Traffic (%)	0%			0%	0%	
Adj. Flow (vph)	402	11	5	272	0	5
Shared Lane Traffic (%)						
Lane Group Flow (vph)	413	0	0	277	0	5
Sign Control	Free			Free	Stop	
Intersection Summary						
Area Type:	Other					
Control Type: Unsignalized						

Intersection						
Int Delay, s/veh	0.2					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	1			4		7
Traffic Vol, veh/h	370	10	5	250	0	5
Future Vol, veh/h	370	10	5	250	0	5
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length		-		-		0
Veh in Median Storage,	# 0	-	-	0	0	-
Grade, %	0			0	0	
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	6	6	2	2	2	2
Mymt Flow	402	11	5	272	0	5
	102					
	lajor1		Major2		/linor1	100
Conflicting Flow All	0	0	413	0	-	408
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	4.12	-	-	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	2.218	-	-	3.318
Pot Cap-1 Maneuver	-	-	1146	-	0	643
Stage 1	-	-	-	-	0	-
Stage 2	-	-	-	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1146	-	-	643
Mov Cap-2 Maneuver	-	-		-	-	-
Stage 1	-					-
Stage 2						-
-1-9						
Approach	EB		WB		NB	
Approach						
HCM Control Delay, s	0		0.2		10.6	
HCM LOS					В	
Minor Lane/Major Mvmt	1	VBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		643	-	-	1146	
HCM Lane V/C Ratio		0.008			0.005	
HCM Control Delay (s)		10.6			8.2	0
HCM Lane LOS		В			Α	A
HCM 95th %tile Q(veh)		0			0	/1
TIGINI 73(II /OUIE Q(VEII)		U			U	

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Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	٦	7	f)			4
Traffic Volume (vph)	5	5	100	5	1	100
Future Volume (vph)	5	5	100	5	1	100
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12
Grade (%)	0%		0%			0%
Storage Length (ft)	0	0		0	0	
Storage Lanes	1	1		0	0	
Taper Length (ft)	50				50	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor						
Frt		0.850	0.994			
Flt Protected	0.950					
Satd. Flow (prot)	1770	1583	1733	0	0	1827
Flt Permitted	0.950					
Satd. Flow (perm)	1770	1583	1733	0	0	1827
Link Speed (mph)	25		30			30
Link Distance (ft)	116		460			241
Travel Time (s)	3.2		10.5			5.5
Confl. Peds. (#/hr)						
Confl. Bikes (#/hr)						
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Growth Factor	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	2%	2%	9%	9%	4%	4%
Bus Blockages (#/hr)	0	0	0	0	0	0
Parking (#/hr)						
Mid-Block Traffic (%)	0%		0%			0%
Adj. Flow (vph)	5	5	109	5	1	109
Shared Lane Traffic (%)						
Lane Group Flow (vph)	5	5	114	0	0	110
Sign Control	Stop		Free			Free
Intersection Summary						
Area Type:	Other					
Control Type: Unsignalized	d					

Intersection							
Int Delay, s/veh	0.5						
Movement	WBL	WBR	NBT	NBR	SBL	SBT	
Lane Configurations	WDL	WDR	IND I	INDK	JDL	<u>अधा</u>	
Traffic Vol, veh/h	1 5	r 5	100	5	1	100	
Future Vol, veh/h	5	5	100	5	1	100	
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	0	-	-		-	
Veh in Median Storage	e, # 0	-	0	-	-	0	
Grade, %	0		0			0	
Peak Hour Factor	92	92	92	92	92	92	
Heavy Vehicles, %	2	2	9	9	4	4	
Mvmt Flow	5	5	109	5	1	109	
Major/Minor I	Minor1	- 1	Major1		Major2		
Conflicting Flow All	223	112	0	0	114	0	
Stage 1	112	112	-	-		-	
Stage 2	111						
Critical Hdwy	6.42	6.22	-		4.14		
Critical Hdwy Stg 1	5.42	-			-	-	
Critical Hdwy Stg 2	5.42	-	-	-	-	-	
Follow-up Hdwy	3.518	3.318	-	-	2.236	-	
Pot Cap-1 Maneuver	765	941	-	-	1463	-	
Stage 1	913	-	-	-	-	-	
Stage 2	914	-	-	-	-	-	
Platoon blocked, %			-	-		-	
Mov Cap-1 Maneuver	764	941	-	-	1463	-	
Mov Cap-2 Maneuver	764	-	-	-	-	-	
Stage 1	913	-	-	-	-	-	
Stage 2	913	-	-	-	-	-	
Approach	WB		NB		SB		
HCM Control Delay, s	9.3		0		0.1		
HCM LOS	Α						
Minor Lane/Major Mvm	nt	NBT	NRR	NBLn1V	VRI n2	SBL	SBT
Capacity (veh/h)		-	-	764	941	1463	-
HCM Lane V/C Ratio				0.007			
HCM Control Delay (s))	-	-	9.7	8.8	7.5	0
HCM Lane LOS				Α.	A	A	A
HCM 95th %tile Q(veh))	-	-	0	0	0	-
2(101)	,						

Area Type: Other Control Type: Unsignalized

HCM 6th AWSC 100: Erie Street & 4 Mile Road

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tersection	
tersection Delay, s/veh	15.3
itersection LOS	С

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	٦	ĵ.		ሻ	ĵ.			4			4	
Traffic Vol, veh/h	65	265	125	5	265	30	85	50	5	30	50	65
Future Vol, veh/h	65	265	125	5	265	30	85	50	5	30	50	65
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Heavy Vehicles, %	3	3	3	3	3	3	5	5	5	6	6	6
Mvmt Flow	68	276	130	5	276	31	89	52	5	31	52	68
Number of Lanes	1	1	0	1	1	0	0	1	0	0	1	0
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	2			2			1			1		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	1			1			2			2		
Conflicting Approach Right	NB			SB			WB			EB		
Conflicting Lanes Right	1			1			2			2		
HCM Control Delay	17.5			15.3			12			11.6		
HCM LOS	С			С			В			В		

Lane	NBLn1	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1
Vol Left, %	61%	100%	0%	100%	0%	21%
Vol Thru, %	36%	0%	68%	0%	90%	34%
Vol Right, %	4%	0%	32%	0%	10%	45%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	140	65	390	5	295	145
LT Vol	85	65	0	5	0	30
Through Vol	50	0	265	0	265	50
RT Vol	5	0	125	0	30	65
Lane Flow Rate	146	68	406	5	307	151
Geometry Grp	2	7	7	7	7	2
Degree of Util (X)	0.266	0.122	0.65	0.01	0.522	0.262
Departure Headway (Hd)	6.561	6.492	5.757	6.695	6.114	6.251
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	544	550	626	532	587	569
Service Time	4.653	4.255	3.519	4.465	3.884	4.343
HCM Lane V/C Ratio	0.268	0.124	0.649	0.009	0.523	0.265
HCM Control Delay	12	10.2	18.7	9.5	15.4	11.6
HCM Lane LOS	В	В	С	Α	С	В
HCM 95th-tile Q	1.1	0.4	4.7	0	3	1

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Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	f)			4		7
Traffic Volume (vph)	285	15	10	300	0	10
Future Volume (vph)	285	15	10	300	0	10
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12
Grade (%)	0%			0%	0%	
Storage Length (ft)		0	0		0	0
Storage Lanes		0	0		0	1
Taper Length (ft)			50		50	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor						
Frt	0.993					0.865
Flt Protected				0.998		
Satd. Flow (prot)	1832	0	0	1841	0	1611
Flt Permitted				0.998		
Satd. Flow (perm)	1832	0	0	1841	0	1611
Link Speed (mph)	35			35	25	
Link Distance (ft)	167			699	91	
Travel Time (s)	3.3			13.6	2.5	
Confl. Peds. (#/hr)						
Confl. Bikes (#/hr)						
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Growth Factor	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	3%	3%	3%	3%	2%	2%
Bus Blockages (#/hr)	0	0	0	0	0	0
Parking (#/hr)						
Mid-Block Traffic (%)	0%			0%	0%	
Adj. Flow (vph)	297	16	10	313	0	10
Shared Lane Traffic (%)						
Lane Group Flow (vph)	313	0	0	323	0	10
Sign Control	Free			Free	Stop	
Intersection Summary						
Area Type:	Other					
Control Type: Unsignalized	i					

Intersection						
Int Delay, s/veh	0.3					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	1	LDIT	******	4	1100	7
Traffic Vol, veh/h	285	15	10	300	0	10
Future Vol. veh/h	285	15	10	300	0	10
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	riee -	None	riee -	None	Siup -	None
Storage Length		None -		None -		0
Veh in Median Storage,				0	0	U
		-	-	_	-	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	96	96	96	96	96	96
Heavy Vehicles, %	3	3	3	3	2	2
Mvmt Flow	297	16	10	313	0	10
Major/Minor N	Major1	ı	Major2	-	Minor1	
Conflicting Flow All	0	0	313	0	-	305
Stage 1	-	U	313	U		303
Stage 2						
Critical Hdwy	-	-	4.13	-	-	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	2.227	-		3.318
Pot Cap-1 Maneuver	-	-	1242	-	0	735
Stage 1	-	-	-	-	0	-
Stage 2		-	-	-	0	-
Platoon blocked, %				-		
Mov Cap-1 Maneuver		-	1242	_	-	735
Mov Cap-2 Maneuver			1212			755
Stage 1						
		-	-	-	-	-
Stage 2	-	-	-	-	-	
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.3		10	
HCM LOS	U		0.5		В	
I ICIVI EOS					ь	
Minor Lane/Major Mvmt	1	VBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		735	-	-	1242	-
		0.014	-	-	0.008	-
HCM Lane V/C Ratio						0
HCM Lane V/C Ratio		10			79	()
HCM Control Delay (s)		10 B			7.9 A	0
		10 B 0	-	-	7.9 A	A

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Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	ሻ	7	ĥ			ર્ન
Traffic Volume (vph)	10	15	125	10	5	175
Future Volume (vph)	10	15	125	10	5	175
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12
Grade (%)	0%		0%			0%
Storage Length (ft)	0	0		0	0	
Storage Lanes	1	1		0	0	
Taper Length (ft)	50				50	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor						
Frt		0.850	0.990			
Flt Protected	0.950					0.999
Satd. Flow (prot)	1770	1583	1791	0	0	1791
Flt Permitted	0.950					0.999
Satd. Flow (perm)	1770	1583	1791	0	0	1791
Link Speed (mph)	25		30			30
Link Distance (ft)	116		460			241
Travel Time (s)	3.2		10.5			5.5
Confl. Peds. (#/hr)						
Confl. Bikes (#/hr)						
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Growth Factor	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	2%	2%	5%	5%	6%	6%
Bus Blockages (#/hr)	0	0	0	0	0	0
Parking (#/hr)						
Mid-Block Traffic (%)	0%		0%			0%
Adj. Flow (vph)	10	16	130	10	5	182
Shared Lane Traffic (%)						
Lane Group Flow (vph)	10	16	140	0	0	187
Sign Control	Stop		Free			Free
Intersection Summary						
Area Type:	Other					
Control Type: Unsignalized	d					

Intersection							
Int Delay, s/veh	0.8						
		WDD	NDT	NDD	CDI	CDT	
Movement	WBL	WBR	NBT	NBR	SBL	SBT	
Lane Configurations	1 0	7	125	10	г	4 175	
Traffic Vol, veh/h	10 10	15 15	125 125	10	5	175	
Future Vol, veh/h				10	5		
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control RT Channelized	Stop	Stop None	Free	Free None	Free	Free None	
	- 0	None 0			-	None -	
Storage Length		-				0	
Veh in Median Storage	e, # 0 0		0		-	0	
Grade, % Peak Hour Factor	96	96		- 0/	96	96	
			96 5	96			
Heavy Vehicles, %	10	16	130	5 10	6 5	6 182	
Mvmt Flow	10	16	130	10	5	182	
Major/Minor	Minor1	1	Major1	- 1	Major2		
Conflicting Flow All	327	135	0	0	140	0	
Stage 1	135	-	-	-	-		
Stage 2	192	-	-	-	-	-	
Critical Hdwy	6.42	6.22	-	-	4.16	-	
Critical Hdwy Stg 1	5.42	-	-	-	-	-	
Critical Hdwy Stg 2	5.42	-	-	-	-	-	
Follow-up Hdwy	3.518	3.318	-	-	2.254	-	
Pot Cap-1 Maneuver	667	914	-	-	1419	-	
Stage 1	891	-	-	-	-	-	
Stage 2	841	-	-	-	-	-	
Platoon blocked, %			-	-		-	
Mov Cap-1 Maneuver	664	914	-	-	1419	-	
Mov Cap-2 Maneuver	664	-	-	-	-	-	
Stage 1	891	-	-	-	-	-	
Stage 2	838	-	-	-	-	-	
, and the second							
Approach	WB		NB		SB		
HCM Control Delay, s	9.6		0		0.2		
HCM LOS	9.0 A		U		0.2		
IICIVI LUS	А						
Minor Lane/Major Mvm	nt	NBT	NBR\	VBLn1V	VBLn2	SBL	
Capacity (veh/h)		-	-	664	914	1419	
HCM Lane V/C Ratio		-	-	0.016		0.004	
HCM Control Delay (s))	-	-	10.5	9	7.5	
HCM Lane LOS		-	-	В	Α	Α	
HCM 95th %tile Q(veh)	-	-	0	0.1	0	

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Year 2041 Build Traffic Analysis Outputs

Lane Group
Lane Configurations
Traffic Volume (vph)
Future Volume (vph)
Ideal Flow (vphpl)
Lane Width (ft)
Grade (%)

09/16/2021

۶	→	•	•	—	•	1	†	~	/	ļ	1
EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
٦	ĵ»		Ţ	ĵ.			4			4	
40	345	55	5	250	30	60	45	15	80	70	65
40	345	55	5	250	30	60	45	15	80	70	65
1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
12	12	12	12	12	12	12	12	12	12	12	12
	0%			0%			0%			0%	
95		0	100		0	0		0	0		0
1		0	1		0	0		0	0		0
EΟ			ΓΛ			ГΛ			ГΛ		

Grade (70)		070			070			070			070	
Storage Length (ft)	95		0	100		0	0		0	0		0
Storage Lanes	1		0	1		0	0		0	0		0
Taper Length (ft)	50			50			50			50		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor												
Frt		0.979			0.984			0.983			0.959	
Flt Protected	0.950			0.950				0.976			0.982	
Satd. Flow (prot)	1703	1755	0	1770	1833	0	0	1672	0	0	1720	0
Flt Permitted	0.950			0.950				0.976			0.982	
Satd. Flow (perm)	1703	1755	0	1770	1833	0	0	1672	0	0	1720	0
Link Speed (mph)		35			35			30			30	
Link Distance (ft)		726			167			241			618	
Travel Time (s)		14.1			3.3			5.5			14.0	
Confl. Peds. (#/hr)												
Confl. Bikes (#/hr)												

Peak Hour Factor 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 Growth Factor 100% 100% 100% 100% 100% 100% 100% 100% 100% 100% 100% 100% Heavy Vehicles (%) Bus Blockages (#/hr) 0 0 0 0 0 0 0 0 0 0 0 0 Parking (#/hr) Mid-Block Traffic (%) 0% 375 Adj. Flow (vph) 272 49 Shared Lane Traffic (%) Lane Group Flow (vph) 435 305 130 234 Sign Control Stop Stop Stop Stop

Intersection Summary
Area Type: Other
Control Type: Unsignalized

Intersection	
Intersection Delay, s/veh	19.7
Intersection LOS	С

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	٦	î,		٦	ĵ.			4			4	
Traffic Vol, veh/h	40	345	55	5	250	30	60	45	15	80	70	65
Future Vol, veh/h	40	345	55	5	250	30	60	45	15	80	70	65
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	6	6	6	2	2	2	9	9	9	4	4	4
Mvmt Flow	43	375	60	5	272	33	65	49	16	87	76	71
Number of Lanes	1	1	0	1	1	0	0	1	0	0	1	0
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	2			2			1			1		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	1			1			2			2		
Conflicting Approach Right	NB			SB			WB			EB		
Conflicting Lanes Right	1			1			2			2		
HCM Control Delay	25.8			17.2			12.7			14.6		
HCM LOS	D			С			В			В		

Lane	NBLn1	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1
Vol Left, %	50%	100%	0%	100%	0%	37%
Vol Thru, %	38%	0%	86%	0%	89%	33%
Vol Right, %	12%	0%	14%	0%	11%	30%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	120	40	400	5	280	215
LT Vol	60	40	0	5	0	80
Through Vol	45	0	345	0	250	70
RT Vol	15	0	55	0	30	65
Lane Flow Rate	130	43	435	5	304	234
Geometry Grp	2	7	7	7	7	2
Degree of Util (X)	0.258	0.085	0.772	0.011	0.556	0.429
Departure Headway (Hd)	7.133	7	6.391	7.16	6.572	6.602
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	502	515	570	499	548	545
Service Time	5.201	4.7	4.091	4.912	4.324	4.658
HCM Lane V/C Ratio	0.259	0.083	0.763	0.01	0.555	0.429
HCM Control Delay	12.7	10.3	27.4	10	17.3	14.6
HCM Lane LOS	В	В	D	Α	С	В
HCM 95th-tile Q	1	0.3	7.1	0	3.4	2.1

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Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	1>			ર્ન		7
Traffic Volume (vph)	430	10	5	285	0	5
Future Volume (vph)	430	10	5	285	0	5
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12
Grade (%)	0%			0%	0%	
Storage Length (ft)		0	0		0	0
Storage Lanes		0	0		0	1
Taper Length (ft)			50		50	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor						
Frt	0.997					0.865
Flt Protected				0.999		
Satd. Flow (prot)	1787	0	0	1861	0	1611
Flt Permitted				0.999		
Satd. Flow (perm)	1787	0	0	1861	0	1611
Link Speed (mph)	35			35	25	
Link Distance (ft)	167			699	91	
Travel Time (s)	3.3			13.6	2.5	
Confl. Peds. (#/hr)						
Confl. Bikes (#/hr)						
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Growth Factor	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	6%	6%	2%	2%	2%	2%
Bus Blockages (#/hr)	0	0	0	0	0	0
Parking (#/hr)						
Mid-Block Traffic (%)	0%			0%	0%	
Adj. Flow (vph)	467	11	5	310	0	5
Shared Lane Traffic (%)						
Lane Group Flow (vph)	478	0	0	315	0	5
Sign Control	Free			Free	Stop	
Intersection Summary						
Area Type:	Other					
Control Type: Unsignalized						

Intersection						
Int Delay, s/veh	0.1					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
		EDR	WDL		INDL	NBK
Lane Configurations Traffic Vol, veh/h	1 → 430	10	5	€ 1 285	0	
Future Vol. veh/h	430	10	5	285	0	5
	430	0	0	200	0	0
Conflicting Peds, #/hr		-			-	
Sign Control RT Channelized	Free -	Free	Free -	Free None	Stop	Stop
		None			-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage,		-	-	0	0	
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	6	6	2	2	2	2
Mvmt Flow	467	11	5	310	0	5
Major/Minor N	Najor1	ı	Major2	ı	/linor1	
Conflicting Flow All	0	0	478	0	-	473
Stage 1	-	-	-	-		-
Stage 2						
Critical Hdwy			4.12			6.22
Critical Hdwy Stg 1			7.12			0.22
Critical Hdwy Stg 2						
Follow-up Hdwy			2.218			3.318
Pot Cap-1 Maneuver	-		1084		0	591
Stage 1			1004		0	J71
Stage 2					0	
Platoon blocked, %					U	-
Mov Cap-1 Maneuver	-	-	1084	-		591
	-	-				
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.1		11.1	
HCM LOS	Ū		0.1		В	
110111 200						
Minor Lane/Major Mvmt		VBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		591	-	-	1084	-
HCM Lane V/C Ratio		0.009	-	-	0.005	-
HCM Control Delay (s)		11.1	-	-	8.3	0
HCM Lane LOS		В	-	-	Α	Α
HCM 95th %tile Q(veh)		0	-	-	0	-
,						

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Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	۲	7	4î			ની
Traffic Volume (vph)	5	5	115	5	1	130
Future Volume (vph)	5	5	115	5	1	130
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12
Grade (%)	0%		0%			0%
Storage Length (ft)	0	0		0	0	
Storage Lanes	1	1		0	0	
Taper Length (ft)	50				50	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor						
Frt		0.850	0.995			
Flt Protected	0.950					
Satd. Flow (prot)	1770	1583	1734	0	0	1827
Flt Permitted	0.950					
Satd. Flow (perm)	1770	1583	1734	0	0	1827
Link Speed (mph)	25		30			30
Link Distance (ft)	116		460			241
Travel Time (s)	3.2		10.5			5.5
Confl. Peds. (#/hr)						
Confl. Bikes (#/hr)						
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Growth Factor	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	2%	2%	9%	9%	4%	4%
Bus Blockages (#/hr)	0	0	0	0	0	0
Parking (#/hr)						
Mid-Block Traffic (%)	0%		0%			0%
Adj. Flow (vph)	5	5	125	5	1	141
Shared Lane Traffic (%)						
Lane Group Flow (vph)	5	5	130	0	0	142
Sign Control	Stop		Free			Free
Intersection Summary						
Area Type:	Other					
Control Type: Unsignalize						
Control Type: Unsignalize	eu					

Intersection							ľ
Int Delay, s/veh	0.4						
Movement	WBL	WBR	NBT	NBR	SBL	SBT	
Lane Configurations	WDL	WDK	IND I	NDK	SDL	अवा	
Traffic Vol. veh/h	ካ 5		115	5	1	130	
Future Vol. veh/h	5	5	115	5	1	130	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Stop	Stop	Free	Free	Free	Free	
RT Channelized	Stop -	None	riee -	None	riee	None	
Storage Length	0	0		None -		None -	
Veh in Median Storage		-	0			0	
Grade, %	, # 0		0			0	
Peak Hour Factor	92	92	92	92	92	92	
Heavy Vehicles, %	2	2	92	92	4	4	
Mymt Flow	5	5	125	5	1	141	
IVIVIIII FIOW	3	3	120	3	- 1	141	
	/linor1		Najor1		Major2		
Conflicting Flow All	271	128	0	0	130	0	
Stage 1	128	-	-		-	-	
Stage 2	143	-	-	-	-	-	
Critical Hdwy	6.42	6.22	-	-	4.14	-	
Critical Hdwy Stg 1	5.42	-	-	-	-	-	
Critical Hdwy Stg 2	5.42	-	-	-	-	-	
Follow-up Hdwy	3.518	3.318	-	-	2.236	-	
Pot Cap-1 Maneuver	718	922	-	-	1443	-	
Stage 1	898	-	-	-	-	-	
Stage 2	884	-	-	-	-	-	
Platoon blocked, %			-	-		-	
Mov Cap-1 Maneuver	717	922	-	-	1443	-	
Mov Cap-2 Maneuver	717	-	-	-	-	-	
Stage 1	898	-	-	-	-	-	
Stage 2	883	-	-	-	-	-	
Approach	WB		NB		SB		
HCM Control Delay, s	9.5		0		0.1		
HCM LOS	Α.		U		0.1		
TION EOS							
Minor Lane/Major Mvm	t	NBT	NBR\	NBLn1V		SBL	
Capacity (veh/h)		-	-	717	922	1443	
HCM Lane V/C Ratio		-	-		0.006		
				10.1	8.9	7.5	
HCM Control Delay (s)		-	-				
		-	-	B 0	0.9 A	A 0	

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	,	f)		J.	î,			4			4	
Traffic Volume (vph)	60	290	135	5	290	60	95	75	5	50	65	55
Future Volume (vph)	60	290	135	5	290	60	95	75	5	50	65	55
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12	12	12	12	12	12	12
Grade (%)		0%			0%			0%			0%	
Storage Length (ft)	95		0	100		0	0		0	0		0
Storage Lanes	1		0	1		0	0		0	0		0
Taper Length (ft)	50			50			50			50		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor												
Frt		0.952			0.974			0.996			0.957	
Flt Protected	0.950			0.950				0.974			0.986	
Satd. Flow (prot)	1752	1756	0	1752	1797	0	0	1755	0	0	1691	0
Flt Permitted	0.950			0.950				0.974			0.986	
Satd. Flow (perm)	1752	1756	0	1752	1797	0	0	1755	0	0	1691	0
Link Speed (mph)		35			35			30			30	
Link Distance (ft)		726			167			241			618	
Travel Time (s)		14.1			3.3			5.5			14.0	
Confl. Peds. (#/hr)												
Confl. Bikes (#/hr)												
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Growth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	3%	3%	3%	3%	3%	3%	5%	5%	5%	6%	6%	6%
Bus Blockages (#/hr)	0	0	0	0	0	0	0	0	0	0	0	0
Parking (#/hr)												
Mid-Block Traffic (%)		0%			0%			0%			0%	
Adj. Flow (vph)	63	302	141	5	302	63	99	78	5	52	68	57
Shared Lane Traffic (%)												
Lane Group Flow (vph)	63	443	0	5	365	0	0	182	0	0	177	0
Sign Control		Stop			Stop			Stop			Stop	
Intersection Summary												
Area Type:	Other											
Control Type: Unsignalized	t											

Intersection												
Intersection Delay, s/veh	21.2											
Intersection LOS	C											
mioroccion 200												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	4		Ť	\$			4			4	
Traffic Vol, veh/h	60	290	135	5	290	60	95	75	5	50	65	55
Future Vol, veh/h	60	290	135	5	290	60	95	75	5	50	65	55
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Heavy Vehicles, %	3	3	3	3	3	3	5	5	5	6	6	6
Mvmt Flow	63	302	141	5	302	63	99	78	5	52	68	57
Number of Lanes	1	1	0	1	1	0	0	1	0	0	1	0
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	2			2			1			1		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	1			1			2			2		
Conflicting Approach Right	NB			SB			WB			EB		
Conflicting Lanes Right	1			1			2			2		
HCM Control Delay	25.9			21.7			14.4			13.8		
HCM LOS	D			С			В			В		
110111 200												
Lane		NBLn1	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1					
Lane		NBLn1 54%	100%	0%	100%	0%	29%					
Lane Vol Left, %		54% 43%	100% 0%		100% 0%		29% 38%					
Lane Vol Left, % Vol Thru, %		54%	100%	0%	100%	0%	29%					
Lane Vol Left, % Vol Thru, % Vol Right, %		54% 43%	100% 0%	0% 68%	100% 0%	0% 83% 17% Stop	29% 38%					
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control		54% 43% 3% Stop 175	100% 0% 0%	0% 68% 32%	100% 0% 0%	0% 83% 17%	29% 38% 32% Stop 170					
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane		54% 43% 3% Stop 175 95	100% 0% 0% Stop	0% 68% 32% Stop	100% 0% 0% Stop	0% 83% 17% Stop	29% 38% 32% Stop					
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol		54% 43% 3% Stop 175	100% 0% 0% Stop 60	0% 68% 32% Stop 425	100% 0% 0% Stop 5	0% 83% 17% Stop 350	29% 38% 32% Stop 170					
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol		54% 43% 3% Stop 175 95	100% 0% 0% Stop 60	0% 68% 32% Stop 425	100% 0% 0% Stop 5	0% 83% 17% Stop 350 0	29% 38% 32% Stop 170 50					
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol		54% 43% 3% Stop 175 95 75	100% 0% 0% Stop 60 60	0% 68% 32% Stop 425 0 290	100% 0% 0% Stop 5 5	0% 83% 17% Stop 350 0 290	29% 38% 32% Stop 170 50					
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate		54% 43% 3% Stop 175 95 75	100% 0% 0% Stop 60 60 0	0% 68% 32% Stop 425 0 290 135	100% 0% 0% Stop 5 5 0	0% 83% 17% Stop 350 0 290	29% 38% 32% Stop 170 50 65					
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp		54% 43% 3% Stop 175 95 75 5	100% 0% 0% Stop 60 60 0	0% 68% 32% Stop 425 0 290 135 443	100% 0% 0% Stop 5 5 0	0% 83% 17% Stop 350 0 290 60 365	29% 38% 32% Stop 170 50 65 55 177 2					
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X)		54% 43% 3% Stop 175 95 75 5 182	100% 0% 0% Stop 60 60 0 0	0% 68% 32% Stop 425 0 290 135 443	100% 0% 0% Stop 5 5 0 0	0% 83% 17% Stop 350 0 290 60 365	29% 38% 32% Stop 170 50 65 55 177					
Lane Vol Left, % Vol Tiphru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd)		54% 43% 3% Stop 175 95 75 5 182 2 0.365	100% 0% 0% Stop 60 0 0 0 62 7	0% 68% 32% Stop 425 0 290 135 443 7 0.779 6.331 Yes	100% 0% 0% Stop 5 5 0 0 5 7	0% 83% 17% Stop 350 0 290 60 365 7 0.671 6.626 Yes	29% 38% 32% Stop 170 50 65 55 177 2 0.346 7.037 Yes					
Lane Vol Left, % Vol Right, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap		54% 43% 3% Stop 175 95 75 5 182 2 0.365 7.214	100% 0% 0% Stop 60 0 0 0 62 7 0.123 7.069	0% 68% 32% Stop 425 0 290 135 443 7 0.779 6.331	100% 0% 0% Stop 5 0 0 5 7 0.011 7.261	0% 83% 17% Stop 350 0 290 60 365 7 0.671 6.626	29% 38% 32% Stop 170 50 65 55 177 2 0.346 7.037					
Lane Vol Left, % Vol Right, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap		54% 43% 3% Stop 175 95 75 5 182 2 0.365 7.214 Yes	100% 0% 0% Stop 60 0 0 0 62 7 0.123 7.069 Yes	0% 68% 32% Stop 425 0 290 135 443 7 0.779 6.331 Yes	100% 0% 0% Stop 5 0 0 5 7 0.011 7.261 Yes	0% 83% 17% Stop 350 0 290 60 365 7 0.671 6.626 Yes	29% 38% 32% Stop 170 50 65 55 177 2 0.346 7.037 Yes					
Lane Vol Left, % Vol Tryn, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time		54% 43% 3% Stop 175 95 75 5 182 2 0.365 7.214 Yes 498	100% 0% 0% Stop 60 0 0 62 7 0.123 7.069 Yes 506	0% 68% 32% Stop 425 0 290 135 443 7 0.779 6.331 Yes 571	100% 0% 0% Stop 5 0 0 5 7 0.011 7.261 Yes 492	0% 83% 17% Stop 350 0 290 60 365 7 0.671 6.626 Yes 543	29% 38% 32% Stop 170 50 65 55 177 2 0.346 7.037 Yes 510					
Lane Vol Left, % Vol Tipht, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time HCM Lane V/C Ratio		54% 43% 3% Stop 175 95 75 182 2 0.365 7.214 Yes 498 5.282	100% 0% 0% Stop 60 0 0 62 7 0.123 7.069 Yes 506 4.821	0% 68% 32% Stop 425 0 290 135 443 7 0.779 6.331 Yes 571	100% 0% 0% Stop 5 0 0 5 7 0.011 7.261 Yes 492 5.016	0% 83% 17% Stop 350 0 290 60 365 7 0.671 6.626 Yes 543 4.381	29% 38% 32% Stop 170 50 65 55 177 2 0.346 7.037 Yes 510 5.105					
		54% 43% 3% Stop 175 95 75 5 182 2 0.365 7.214 Yes 498 5.282 0.365	100% 0% 0% Stop 60 0 0 62 7 0.123 7.069 Yes 506 4.821 0.123	0% 68% 32% Stop 425 0 290 135 443 7 0.779 6.331 Yes 571 4.082 0.776	100% 0% 0% Stop 5 0 0 5 7 0.011 7.261 Yes 492 5.016 0.01	0% 83% 17% Stop 350 0 290 60 365 7 0.671 6.626 Yes 543 4.381	29% 38% 32% Stop 170 50 65 55 177 2 0.346 7.037 Yes 510 5.105 0.347					

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Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	fè			ર્ન		7
Traffic Volume (vph)	330	15	10	355	0	10
Future Volume (vph)	330	15	10	355	0	10
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12
Grade (%)	0%			0%	0%	
Storage Length (ft)		0	0		0	0
Storage Lanes		0	0		0	1
Taper Length (ft)			50		50	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor						
Frt	0.994					0.865
Flt Protected				0.999		
Satd. Flow (prot)	1834	0	0	1843	0	1611
Flt Permitted				0.999		
Satd. Flow (perm)	1834	0	0	1843	0	1611
Link Speed (mph)	35			35	25	
Link Distance (ft)	167			699	91	
Travel Time (s)	3.3			13.6	2.5	
Confl. Peds. (#/hr)						
Confl. Bikes (#/hr)						
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Growth Factor	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	3%	3%	3%	3%	2%	2%
Bus Blockages (#/hr)	0	0	0	0	0	0
Parking (#/hr)						
Mid-Block Traffic (%)	0%			0%	0%	
Adj. Flow (vph)	344	16	10	370	0	10
Shared Lane Traffic (%)						
Lane Group Flow (vph)	360	0	0	380	0	10
Sign Control	Free			Free	Stop	
Intersection Summary						
Area Type:	Other					
Control Type: Unsignalized						

Intersection						
Int Delay, s/veh	0.2					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
		EDR	WDL	₩B1	INDL	NBK
Lane Configurations Traffic Vol. veh/h	1 → 330	15	10	355	0	10
Future Vol. ven/h	330	15	10	355	0	10
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage,		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	96	96	96	96	96	96
Heavy Vehicles, %	3	3	3	3	2	2
Mvmt Flow	344	16	10	370	0	10
Major/Minor N	lajor1	. 1	Major2	P	/linor1	
Conflicting Flow All	0	0	360	0	-	352
Stage 1	-	-	-	-		332
Stage 2						
Critical Hdwy			4.13			6.22
Critical Hdwy Stg 1			4.13			0.22
Critical Hdwy Stg 2						
Follow-up Hdwy		-	2.227		-	3.318
Pot Cap-1 Maneuver	-	-	1193	-	0	692
	-	-	1193	-	-	092
Stage 1	-			-	0	-
Stage 2	-	-		-	0	-
Platoon blocked, %	-	-	4400	-		100
Mov Cap-1 Maneuver	-	-	1193	-	-	692
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.2		10.3	
HCM LOS	U		0.2		10.3 B	
IICIVI EUS					ь	
Minor Lane/Major Mvmt		NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		692	-	-	1193	-
HCM Lane V/C Ratio		0.015	-	-	0.009	-
HCM Control Delay (s)		10.3	-	-	8	0
HCM Lane LOS		В			Α	Α
HCM 95th %tile Q(veh)		0			0	-
70 70 Q(VCII)		- 3			- 3	

PM Peak
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PM Peak

Synchro 11 Report

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Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	7	7	f)			ર્ન
Traffic Volume (vph)	10	15	160	10	5	200
Future Volume (vph)	10	15	160	10	5	200
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12
Grade (%)	0%		0%			0%
Storage Length (ft)	0	0		0	0	
Storage Lanes	1	1		0	0	
Taper Length (ft)	50				50	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor						
Frt		0.850	0.992			
Flt Protected	0.950					0.999
Satd. Flow (prot)	1770	1583	1795	0	0	1791
Flt Permitted	0.950					0.999
Satd. Flow (perm)	1770	1583	1795	0	0	1791
Link Speed (mph)	25		30			30
Link Distance (ft)	116		460			241
Travel Time (s)	3.2		10.5			5.5
Confl. Peds. (#/hr)						
Confl. Bikes (#/hr)						
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Growth Factor	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	2%	2%	5%	5%	6%	6%
Bus Blockages (#/hr)	0	0	0	0	0	0
Parking (#/hr)						
Mid-Block Traffic (%)	0%		0%			0%
Adj. Flow (vph)	10	16	167	10	5	208
Shared Lane Traffic (%)						
Lane Group Flow (vph)	10	16	177	0	0	213
Sign Control	Stop		Free			Free
Intersection Summary						
Area Type:	Other					
Control Type: Unsignalize						

Intersection							
Int Delay, s/veh	0.7						
Movement	WBL	WBR	NBT	NBR	SBL	SBT	
Lane Configurations	ኻ	7	<u>}</u>	11011	ODL	4	
Traffic Vol, veh/h	10	15	160	10	5	200	
Future Vol. veh/h	10	15	160	10	5	200	
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	0				-	
Veh in Median Storage	e, # 0	-	0	-	-	0	
Grade, %	0	-	0	-	-	0	
Peak Hour Factor	96	96	96	96	96	96	
Heavy Vehicles, %	2	2	5	5	6	6	
Mymt Flow	10	16	167	10	5	208	
Maine/Mines	N Ai1		M=:==1		M=:==0		
	Minor1		Major1		Major2	0	
Conflicting Flow All	390	172	0	0	177	0	
Stage 1	172	-	-	-	-	-	
Stage 2	218	- (00	-	-	- 4.17	-	
Critical Hdwy	6.42	6.22	-	-	4.16	-	
Critical Hdwy Stg 1	5.42	-	-	-	-	-	
Critical Hdwy Stg 2	5.42	-	-	-		-	
Follow-up Hdwy	3.518		-	-	L.LO .	-	
Pot Cap-1 Maneuver	614	872	-	-	1375	-	
Stage 1	858	-	-	-	-	-	
Stage 2	818	-	-	-	-	-	
Platoon blocked, %			-	-		-	
Mov Cap-1 Maneuver	612	872	-	-	1375	-	
Mov Cap-2 Maneuver	612	-	-	-	-	-	
Stage 1	858	-	-	-	-	-	
Stage 2	815	-	-	-	-	-	
Approach	WB		NB		SB		
HCM Control Delay, s	9.9		0		0.2		
HCM LOS	Α.,		U		0.2		
TIGINI EOS	А						
Minor Lane/Major Mvn	nt	NBT	NBRV	WBLn1V		SBL	
Capacity (veh/h)		-	-	612	872	1375	
HCM Lane V/C Ratio		-	-		0.018		
HCM Control Delay (s))	-	-	11	9.2	7.6	
HCM Lane LOS		-	-	В	Α	Α	
HCM 95th %tile Q(veh	1)	-	-	0.1	0.1	0	

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Synchro 11 Report

PM Peak

Synchro 11 Report

Year 2041 Background Traffic Analysis Outputs

(With 4 Mile Road & Erie Street

Optional EB/WB Right-Turn Lanes)

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	↑	7	7	↑	7		4			4	
Traffic Volume (vph)	40	340	55	5	250	30	55	45	15	75	70	65
Future Volume (vph)	40	340	55	5	250	30	55	45	15	75	70	65
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12	12	12	12	12	12	12
Grade (%)		0%			0%			0%			0%	
Storage Length (ft)	95		0	100		0	0		0	0		0
Storage Lanes	1		1	1		1	0		0	0		0
Taper Length (ft)	50			50			50			50		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor												
Frt			0.850			0.850		0.983			0.958	
Flt Protected	0.950			0.950				0.977			0.982	
Satd. Flow (prot)	1703	1792	1524	1770	1863	1583	0	1674	0	0	1719	0
Flt Permitted	0.950			0.950				0.977			0.982	
Satd. Flow (perm)	1703	1792	1524	1770	1863	1583	0	1674	0	0	1719	0
Link Speed (mph)		35			35			30			30	
Link Distance (ft)		726			167			241			618	
Travel Time (s)		14.1			3.3			5.5			14.0	
Confl. Peds. (#/hr)												
Confl. Bikes (#/hr)												
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Growth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	6%	6%	6%	2%	2%	2%	9%	9%	9%	4%	4%	4%
Bus Blockages (#/hr)	0	0	0	0	0	0	0	0	0	0	0	0
Parking (#/hr)												
Mid-Block Traffic (%)		0%			0%			0%			0%	
Adj. Flow (vph)	43	370	60	5	272	33	60	49	16	82	76	71
Shared Lane Traffic (%)												
Lane Group Flow (vph)	43	370	60	5	272	33	0	125	0	0	229	0
Sign Control		Stop			Stop			Stop			Stop	
Intersection Summary												
Aron Tumo.	Othor											

Area Type: Control Type: Unsignalized Other

Synchro 11 Report

HCM 6th AWSC 100: Erie Street & 4 Mile Road

Intersection

09/17/2021

Intersection Delay, s/veh	16.7											
Intersection LOS	С											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	٦	†	7	٦	†	7		4			4	
Traffic Vol, veh/h	40	340	55	5	250	30	55	45	15	75	70	65
Future Vol, veh/h	40	340	55	5	250	30	55	45	15	75	70	65
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	6	6	6	2	2	2	9	9	9	4	4	4
Mvmt Flow	43	370	60	5	272	33	60	49	16	82	76	71
Number of Lanes	1	1	1	1	1	1	0	1	0	0	1	0
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	3			3			1			1		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	1			1			3			3		
Conflicting Approach Right	NB			SB			WB			EB		
Conflicting Lanes Right	1			1			3			3		
HCM Control Delay	19.1			15.3			13.1			15.4		
HCM LOS	С			С			В			С		

Lane	NBLn1	EBLn1	EBLn2	EBLn3	WBLn1	WBLn2	WBLn3	SBLn1
Vol Left, %	48%	100%	0%	0%	100%	0%	0%	36%
Vol Thru, %	39%	0%	100%	0%	0%	100%	0%	33%
Vol Right, %	13%	0%	0%	100%	0%	0%	100%	31%
Sign Control	Stop							
Traffic Vol by Lane	115	40	340	55	5	250	30	210
LT Vol	55	40	0	0	5	0	0	75
Through Vol	45	0	340	0	0	250	0	70
RT Vol	15	0	0	55	0	0	30	65
Lane Flow Rate	125	43	370	60	5	272	33	228
Geometry Grp	7	7	7	7	7	7	7	7
Degree of Util (X)	0.264	0.085	0.673	0.097	0.011	0.506	0.054	0.448
Departure Headway (Hd)	7.613	7.067	6.555	5.838	7.219	6.705	5.987	7.059
Convergence, Y/N	Yes							
Cap	471	510	554	618	496	538	598	511
Service Time	5.363	4.767	4.255	3.538	4.959	4.446	3.727	4.801
HCM Lane V/C Ratio	0.265	0.084	0.668	0.097	0.01	0.506	0.055	0.446
HCM Control Delay	13.1	10.4	21.7	9.2	10	16.2	9.1	15.4
HCM Lane LOS	В	В	С	Α	Α	С	Α	С
HCM 95th-tile Q	1.1	0.3	5	0.3	0	2.8	0.2	2.3

AM Peak Synchro 11 Report

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09/17/2021

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	^	7	ሻ	↑	7		4			4	
Traffic Volume (vph)	60	280	130	5	290	60	85	70	5	45	65	55
Future Volume (vph)	60	280	130	5	290	60	85	70	5	45	65	55
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12	12	12	12	12	12	12
Grade (%)		0%			0%			0%			0%	
Storage Length (ft)	95		0	100		0	0		0	0		0
Storage Lanes	1		1	1		1	0		0	0		0
Taper Length (ft)	50			50			50			50		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor												
Frt			0.850			0.850		0.996			0.955	
Flt Protected	0.950			0.950				0.974			0.987	
Satd. Flow (prot)	1752	1845	1568	1752	1845	1568	0	1755	0	0	1690	0
Flt Permitted	0.950			0.950				0.974			0.987	
Satd. Flow (perm)	1752	1845	1568	1752	1845	1568	0	1755	0	0	1690	0
Link Speed (mph)		35			35			30			30	
Link Distance (ft)		726			167			241			618	
Travel Time (s)		14.1			3.3			5.5			14.0	
Confl. Peds. (#/hr)												
Confl. Bikes (#/hr)												
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Growth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	3%	3%	3%	3%	3%	3%	5%	5%	5%	6%	6%	6%
Bus Blockages (#/hr)	0	0	0	0	0	0	0	0	0	0	0	0
Parking (#/hr)												
Mid-Block Traffic (%)		0%			0%			0%			0%	
Adj. Flow (vph)	63	292	135	5	302	63	89	73	5	47	68	57
Shared Lane Traffic (%)												
Lane Group Flow (vph)	63	292	135	5	302	63	0	167	0	0	172	0
Sign Control		Stop			Stop			Stop			Stop	
Intersection Summary												
Area Type:	Other											
Control Type: Unsignalized												

Intersection												
Intersection Delay, s/veh	14.7											
Intersection LOS	В											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	J.	†	7	٦	†	7		4			44	
Traffic Vol, veh/h	60	280	130	5	290	60	85	70	5	45	65	55
Future Vol, veh/h	60	280	130	5	290	60	85	70	5	45	65	55
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Heavy Vehicles, %	3	3	3	3	3	3	5	5	5	6	6	6
Mvmt Flow	63	292	135	5	302	63	89	73	5	47	68	57
Number of Lanes	1	1	1	1	1	1	0	1	0	0	1	0
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	3			3			1			1		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	1			1			3			3		
Conflicting Approach Right	NB			SB			WB			EB		
Conflicting Lanes Right	1			1			3			3		
HCM Control Delay	14			16.2			14.3			13.8		
HCM LOS	В			С			В			В		

Lane	NBLn1	EBLn1	EBLn2	EBLn3	WBLn1	WBLn2	WBLn3	SBLn1
Vol Left, %	53%	100%	0%	0%	100%	0%	0%	27%
Vol Thru, %	44%	0%	100%	0%	0%	100%	0%	39%
Vol Right, %	3%	0%	0%	100%	0%	0%	100%	33%
Sign Control	Stop							
Traffic Vol by Lane	160	60	280	130	5	290	60	165
LT Vol	85	60	0	0	5	0	0	45
Through Vol	70	0	280	0	0	290	0	65
RT Vol	5	0	0	130	0	0	60	55
Lane Flow Rate	167	62	292	135	5	302	62	172
Geometry Grp	7	7	7	7	7	7	7	7
Degree of Util (X)	0.35	0.123	0.53	0.219	0.01	0.562	0.104	0.346
Departure Headway (Hd)	7.557	7.059	6.547	5.83	7.207	6.694	5.977	7.237
Convergence, Y/N	Yes							
Cap	477	510	554	619	499	541	602	497
Service Time	5.304	4.772	4.26	3.542	4.921	4.408	3.69	4.982
HCM Lane V/C Ratio	0.35	0.122	0.527	0.218	0.01	0.558	0.103	0.346
HCM Control Delay	14.3	10.8	16.4	10.2	10	17.7	9.4	13.8
HCM Lane LOS	В	В	С	В	Α	С	Α	В
HCM 95th-tile Q	1.6	0.4	3.1	0.8	0	3.4	0.3	1.5

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PM Peak Synchro 11 Report

Year 2041 Build Traffic Analysis Outputs

(With 4 Mile Road & Erie Street Optional EB/WB Right-Turn Lanes)

09/17/2021

HCM 6th AWSC

HCM Lane LOS

HCM 95th-tile Q

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	†	7	*	^	7		4			4	
Traffic Volume (vph)	40	345	55	5	250	30	60	45	15	80	70	65
Future Volume (vph)	40	345	55	5	250	30	60	45	15	80	70	65
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12	12	12	12	12	12	12
Grade (%)		0%			0%			0%			0%	
Storage Length (ft)	95		100	100		0	0		0	0		0
Storage Lanes	1		1	1		1	0		0	0		0
Taper Length (ft)	50			50			50			50		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor												
Frt			0.850			0.850		0.983			0.959	
Flt Protected	0.950			0.950				0.976			0.982	
Satd. Flow (prot)	1703	1792	1524	1770	1863	1583	0	1672	0	0	1720	0
Flt Permitted	0.950			0.950				0.976			0.982	
Satd. Flow (perm)	1703	1792	1524	1770	1863	1583	0	1672	0	0	1720	0
Link Speed (mph)		35			35			30			30	
Link Distance (ft)		726			167			241			618	
Travel Time (s)		14.1			3.3			5.5			14.0	
Confl. Peds. (#/hr)												
Confl. Bikes (#/hr)												
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Growth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	6%	6%	6%	2%	2%	2%	9%	9%	9%	4%	4%	4%
Bus Blockages (#/hr)	0	0	0	0	0	0	0	0	0	0	0	0
Parking (#/hr)												
Mid-Block Traffic (%)		0%			0%			0%			0%	
Adj. Flow (vph)	43	375	60	5	272	33	65	49	16	87	76	71
Shared Lane Traffic (%)												
Lane Group Flow (vph)	43	375	60	5	272	33	0	130	0	0	234	0
Sign Control		Stop			Stop			Stop			Stop	
Intersection Summary												
Area Type:	Other											
Control Type: Unsignalize	d											

Intersection												
Intersection Delay, s/veh	17.2											
Intersection LOS	С											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	*	*	7	ች	*	1		4			4	
Traffic Vol, veh/h	40	345	55	5	250	30	60	45	15	80	70	65
Future Vol., veh/h	40	345	55	5	250	30	60	45	15	80	70	65
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	6	6	6	2	2	2	9	9	9	4	4	4
Mvmt Flow	43	375	60	5	272	33	65	49	16	87	76	71
Number of Lanes	1	1	1	1	1	1	0	1	0	0	1	0
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	3			3			1			1		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	1			1			3			3		
Conflicting Approach Right	NB			SB			WB			EB		
Conflicting Lanes Right	1			1			3			3		
HCM Control Delay	19.8			15.6			13.4			15.9		
HCM LOS	С			С			В			С		
Lane		NBLn1	EBLn1	EBLn2	EBLn3	WBLn1	WBLn2	WBLn3	SBLn1			
Vol Left, %		50%	100%	0%	0%	100%	0%	0%	37%			
Vol Thru, %		38%	0%	100%	0%	0%	100%	0%	33%			
Vol Right, %		12%	0%	0%	100%	0%	0%	100%	30%			
Sign Control		Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop			
Traffic Vol by Lane		120	40	345	55	5	250	30	215			
LT Vol		60	40	0	0	5	0	0	80			
Through Vol		45	0	345	0	0	250	0	70			
RT Vol		15	0	0	55	0	0	30	65			
Lane Flow Rate		130	43	375	60	5	272	33	234			
Geometry Grp		7	7	7	7	7	7	7	7			
Degree of Util (X)		0.279	0.086	0.687	0.098	0.011	0.513	0.055	0.463			
Departure Headway (Hd)		7.691	7.105	6.592	5.875	7.303	6.79	6.07	7.13			
Convergence, Y/N		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Сар		467	505	548	610	490	530	590	505			
Service Time		5.439	4.842	4.329	3.611	5.044	4.531	3.811	4.872			
HCM Lane V/C Ratio		0.278	0.085	0.684	0.098	0.01	0.513	0.056	0.463			
HCM Control Delay		13.4	10.5	22.6	9.3	10.1	16.5	9.2	15.9			
HCM Land LOS		D	D		٨	D		۸	0			

AM Peak Synchro 11 Report Z:\Shared\WI\2720 - Dollar General Caledonia\Analysis\3. 2041 Build\MODS\2041 Build (MODS).syn

AM Peak Synchro 11 Report Z:\Shared\WI\2720 - Dollar General Caledonia\Analysis\3. 2041 Build\MODS\2041 Build (MODS).syn

С

5.3

0.3

2.9

0.3

09/17/2021

HCM 6th AWSC

Intersection Delay, s/veh

Conflicting Lanes Right

HCM Control Delay

HCM LOS

Intersection

Intersection LOS

100: Erie Street & 4 Mile Road

15.4

14.8

Area Type: Other Control Type: Unsignalized

IIIIEISECIIOII LOS	C											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	†	7	٦	†	7		4			4	
Traffic Vol, veh/h	60	290	135	5	290	60	95	75	5	50	65	55
Future Vol, veh/h	60	290	135	5	290	60	95	75	5	50	65	55
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Heavy Vehicles, %	3	3	3	3	3	3	5	5	5	6	6	6
Mvmt Flow	63	302	141	5	302	63	99	78	5	52	68	57
Number of Lanes	1	1	1	1	1	1	0	1	0	0	1	0
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	3			3			1			1		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	1			1			3			3		
Conflicting Approach Right	NR			SB			WB			FB		

16.8

15.2

Lane	NBLn1	EBLn1	EBLn2	EBLn3	WBLn1	WBLn2	WBLn3	SBLn1	
Vol Left, %	54%	100%	0%	0%	100%	0%	0%	29%	
Vol Thru, %	43%	0%	100%	0%	0%	100%	0%	38%	
Vol Right, %	3%	0%	0%	100%	0%	0%	100%	32%	
Sign Control	Stop								
Traffic Vol by Lane	175	60	290	135	5	290	60	170	
LT Vol	95	60	0	0	5	0	0	50	
Through Vol	75	0	290	0	0	290	0	65	
RT Vol	5	0	0	135	0	0	60	55	
Lane Flow Rate	182	62	302	141	5	302	62	177	
Geometry Grp	7	7	7	7	7	7	7	7	
Degree of Util (X)	0.388	0.124	0.559	0.232	0.011	0.573	0.106	0.363	
Departure Headway (Hd)	7.665	7.17	6.657	5.939	7.342	6.828	6.109	7.386	
Convergence, Y/N	Yes								
Cap	470	500	541	605	488	529	586	487	
Service Time	5.411	4.91	4.397	3.678	5.082	4.568	3.849	5.132	
HCM Lane V/C Ratio	0.387	0.124	0.558	0.233	0.01	0.571	0.106	0.363	
HCM Control Delay	15.2	10.9	17.6	10.5	10.2	18.4	9.6	14.3	
HCM Lane LOS	С	В	С	В	В	С	Α	В	
HCM 95th-tile Q	1.8	0.4	3.4	0.9	0	3.6	0.4	1.6	

14.3

09/17/2021

State Bar of Wisconsin Form 3-2003 QUIT CLAIM DEED

Document Number

Document Name

THIS DEED, made between Midwest WI, LLC					
	rantor," whether one or more),				
and Racine County Road Commission	rantor, whether one of more,				
("Gi	rantee," whether one or more).				
Grantor quit claims to Grantee the following described rents, profits, fixtures and other appurtenant interests, County, State of Wisconsin ("Property") (if more spaddendum): See attached Exhibit "A"	Recording Area Name and Return Address Midwest WI, LLC Attn: Scott M. Knowlton 1435 Fulton Street, 2nd Floor Grand Haven, MI 49417				
		See attached Exhibit "A" Parcel Identification Number (PIN)			
		This is not homestead property. (is) (is not)			
		(18) (18 1101)			
*	MIDWEST WI, LLC (SE	(SEAL)			
(S	SEAL)	(SEAL)			
*	*				
AUTHENTICATION ACKI Signature(s) STATE OF WISCONSI		DWLEDGMENT			
)			
authenticated on) ss.			
		COUNTY)			
*	Personally came before m	e on,			
TITLE: MEMBER STATE BAR OF WISCONSIN	the above-named	, , , , , , , , , , , , , , , , , , ,			
authorized by Wis. Stat. § 706.06)	(If not, to me known to be the point instrument and acknowledge in the control of the point instrument and acknowledge in the control of the control of the point instrument and acknowledge.				
THIS INSTRUMENT DRAFTED					
BY:	*				
<i>B</i> 1.	Notary Public, State of Wi	sconsin			
	My Commission (is permanent) (expires:)				

(Signatures may be authenticated or acknowledged. Both are not necessary.)

NOTE: THIS IS A STANDARD FORM. ANY MODIFICATIONS TO THIS FORM SHOULD BE CLEARLY IDENTIFIED.

QUIT CLAIM DEED © 2003 STATE BAR OF WISCONSIN FORM NO. 3-2003

Exhibit "A" – 4 Mile Road

Being a part of the Northwest ¼ of the Northeast ¼ of Section 28, Township 4 North, Range 23 East, Village of Caledonia, Racine County, Wisconsin, described as follows:

Commencing at the North ¼ corner of Section 28, Township 4 North, Range 23 East, said point also being the point of beginning (POB) of the parcel to be described;

Thence N 88°32'08"E along the North line of the Northeast ¼ of said Section 28, 267.82 feet to the Northeast corner of "Parcel II" of lands described and recorded in Document No. 2545762;

Thence S 00°25'38"E along the East line of said lands described and recorded, 33.01' to the intersection of said East line and the South right-of-way line of 4 Mile Road;

Thence S 88°32'08"W along the South right-of-way line of 4 Mile Road and the westerly extension thereof, 267.82 feet to a point on the West line of the Northeast ¼ of said Section 28;

Thence N 00°25'38"W, 33.01 feet to the point of beginning.

Containing: 8,838 Square Feet -0.203 Acres.

Subject to (if any) covenants, conditions, restrictions, right-of-ways and easements of record.



Meeting Date: October 25, 2021

Item No. 6a

Proposal:	Sign Plan Review						
Description:	Review a sign plan for installation of multiple wall signs, a monument sign, and directional signs for the existing commercial building located at 13712 Northwestern Avenue.						
Applicant(s):	Michael Everett						
Address(es):	13712 Northwestern Avenue						
Suggested Motion:	 That the Plan Commission recommends that the Village Board approve the sign plan submitted by Michael Everett on behalf Pilot Travel Centers as presented for the property located at 13712 Northwestern Avenue for the following reason: The proposed number, height and size of signs are permissible through the sign plan review process. The proposed signs do not result in an undue concentration of signage making if difficult or confusing to read. 						
Owner(s):	Pilot Travel Centers						
Tax Key(s):	104-04-22-30-022-001						
Lot Size(s):	8.63 acres						
Current Zoning District(s):	B-3, Commercial Service District						
Overlay District(s):	N/A						
Wetlands:							
Comprehensive Plan:	Industrial/Business Park						

Background: The applicant is requesting approval of a master sign plan for the Pilot Travel Center located at 13712 Northwestern Avenue. The applicant is proposing to replace a monument sign, multiple wall signs, and directional signs on the site. Sign code limits the number of signs for a single tenant building to two signs per street frontage not including window signs or directional signs. The applicant is seeking to replace seven signs. Sign regulations have changed since the initial installation of signs on this site, which are now more restrictive. However, the current zoning code allows modifications to the

Meeting Date: October 25, 2021 Item No.: 6a

sign regulations sign size, height, and number if a master sign plan is submitted and approved by the Village.

Monument Sign:

The proposed sign will be 130.66 square feet in area and contain an electronic gasoline price board that is 80 square feet in area. The existing sign is 93.6 square feet in area. The proposed sign will be 20 feet tall, which will be two feet taller than the existing sign. Monument signs cannot exceed 48 square feet in area and cannot exceed 8 feet in height. This sign does not comply with existing monument sign height and size. The sign will be located on the south side of the parcel, west of the Northwestern Avenue entrance. The sign will be setback 32 feet from the street yard lot line, meeting minimum setback requirements.

Wall Signs:

There are four proposed wall signs replacing two existing wall signs on the building as it pertains to Pilot. No sign changes are proposed for the Arby's located on site. Currently, there is a Pilot sign above the entrance which is 47.5 square feet in area. A similar design sign that is 42 square feet in area will replace it. Also on the southern elevation is a channel letter sign which is internally lit that is 48 square feet. This will be replaced with three snap banner frames that will be externally lit totaling 132 square feet.

Directional Signs:

There currently exists four directional signs on site. These signs will be replaced with updated signs that comply with directional sign regulations and meet setback requirements. These types of signs do not count towards the two sign per street frontage regulation.

Fuel Canopy Signs:

There are multiple existing canopy signs. The applicant will replace with new designs that are similar in size. The total area of these signs along with all signs related to the Arby's count towards the cap of 1,200 square feet of total signage on a site.

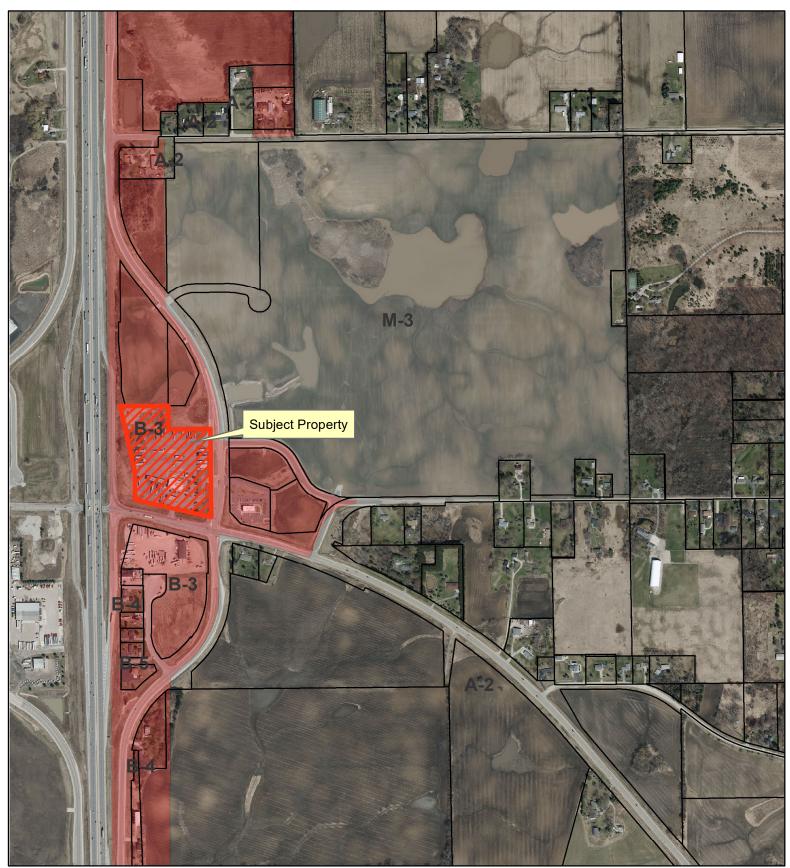
The proposed sign plan includes the replacement of walls signs, monument sign, and directional signs along with the existing Arby's signs. The applicant is requesting approval of this master plan to allow for the updating of the signage on the site that exceeds sign regulations. The sum area of all signs on the site is 605 square feet which is within sign regulations for total area of signage on a site. Staff recommends approval of the proposed sign plan as it does not create confusion or clutter along the road landscape with signs and with proximity to the freeway, the larger monument sign will improve readability from the freeway.

If the Plan Commission is comfortable with the proposed sign plan, a suggested motion has been prepared at the beginning of this report.

Respectfully submitted by:

Peter Wagner, ACP Development Director

Location Map 13712 Northwestern Avenue







Village of Caledonia 5043 Chester Lane Racine, WI 53402

RE: Pilot Travel Centers Signage

Pilot Travel Centers is requesting a sign plan review to keep the existing wall signage for Arby's as is and replace the wall signage for the Pilot side of the store. They are also requesting to replace the ground sign that exist. This change will keep the signage to under 1200 sq ft maximum per property. The following is a breakdown comparison of existing signage to proposed signage.

(Sign A)

Existing Ground sign: 18'0" Overall Height @ 93.6 Sq. Ft. Proposed Ground sign: 20' Overall Height @ 130.66 Sq. Ft.

(Sign B)

Existing Pilot Wall Sign: 47.5 Sq. Ft. Proposed Pilot Wall Sign: 42.0 Sq. Ft.

(Sign C)

Travel Center Letters Wall Sign: 48.0 Sq. Ft.

Wall Murals: 132.0 Sq. Ft.

(Sign D, E, F, G Directional Signs)
Existing Directional Signs 15.83 Sq. Ft. Ea.
Proposed Directional Signs 15.83 Sq. Ft. Ea.

(Sign H)

DEF Directional Sign. 15.83 Sq. Ft.

Removed from site.

Existing Arby's Wall Signage: To remain untouched.

Arby's Letters Front Elevation: 9.43 Sq Ft. Arby's Hat Logo Front Elevation: 25.78 Sq Ft. Arby's Hat Logo Side Elevation: 25.78 Sq Ft. Arby's Letters Driver Entrance: 26.0 Sq Ft

Canopy Signs:

Diesel Canopy 3 Pilot Logos: 21.56 Sq Ft Ea. Auto Canopy 4 Pilot Logos: 21.56 Sq Ft Ea.

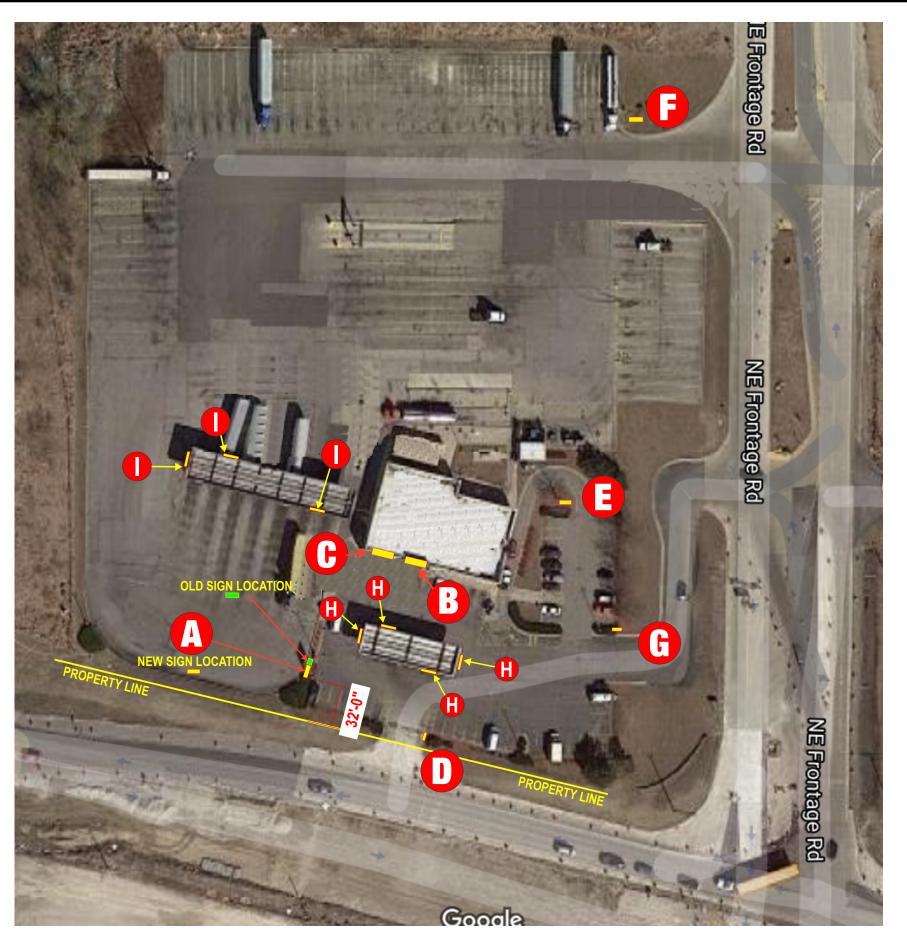
Total Proposed All signage existing and proposed 605.89 Sq Ft.

SITE PLAN

PILOT #324 13712 NORTHWESTERN AVE. FRANKSVILLE, WI 53126

- MID-RISE
- B PILOT WALL SIGN (FRONT)
- TRAVEL CENTER (RE-IMAGE)
- DIRECTIONAL AUTO ENTRY/EXIT
- **DIRECTIONAL NO ENTRY**
- DIRECTIONAL TRUCK ENTRY/EXIT
- **G** DIRECTIONAL AUTO ENTRY/EXIT
- AUTO CANOPY SIGNS
- DIESEL CANOPY SIGNS





TEXAS REPUBLIC SIGNS

2211 PECH RD HOUSTON TX 77055 832-727-5415 TEXASREPUBLICSIGNS.COM

Customer:

PILOT - # 324

Address:

13712 NORTHWESTERN AVE. FRANKSVILLE, WI 53126

City of Jurisdiction:

FRANKSVILLE

Designer:

JORGE

01.17.21

W.O. #:

File Path:

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REVISIONS

Rev 1: 03-25-21 Added graphics to ravel Center

Rev 2: 06-30-21 Revised mid-rise s

Rev 3:

Rev 4:

Rev 5:

CUSTOMER APPROVA

Todd Signature:

SITE PLAN NOT TO SCALE



TEXAS REPUBLIC SIGHS

2211 PECH RD HOUSTON TX 77055 832-727-5415 TEXASREPUBLICSIGNS.COM

Customer:

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Address:

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REVISIONS

Rev 1: 03-25-21 Added graphics to Travel Center

Rev 2: 06-30-21 Revised mid-rise sig to 20 ft ht.

Rev 3:

Rev 4:

Rev 5:

CUSTOMER APPROVA

Todd Signature:

Date:

AMPS: VOLTS: CIRCUITS

SIGN TYPE A QUANTITY: 1

SCOPE OF WORK: MID RISE

- REMOVE & DISCARD OF ALL EXISTING SIGNS & STEEL SUPPORT STRUCTURE
- PROVIDE AND INSTALL NEW SIGNS
- & NEW STEEL SUPPORTS

SPECIFICATIONS: ARBY'S

- CABINET FILLER AND 1 1/2" RETAINERS PAINTED, P1
- FACES: FORMED AND EMBOSSED WITH APPLIED V1 VINYL

SPECIFICATIONS: PILOT

- CABINET FILLER AND 1 1/2" RETAINERS PAINTED, P1
- FACES: FORMED AND EMBOSSED WITH APPLIED V2 VINYL

SPECIFICATIONS: LED GAS PRICER

• 2 PRODUCT PRICER WITH 3' DIGITS PROVIDED BY CLIENT AND INSTALLED BY TRS

PECIFICATIONS: STEEL SUPPORT

- NEW 8" X 8" X 1/2" STEEL TUBES
- DIRECT BURIAL INTO CONCRETE PIERS

COLOR LEGEND

aces Painted Red PMS 1795 2nd Surface

2: TO MATCH LOGO COLORS

2: 3630-53 CARDINAL RED

3: 3630-25 SUNFLOWER YELLOW

1: 3630-33 RED

Clear Polycarbonate Faces painted White 2nd surface

1: TO MATCH LOGO COLORS

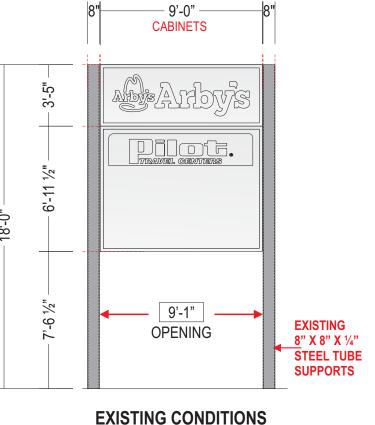
PAINT COLORS

1: BLACK

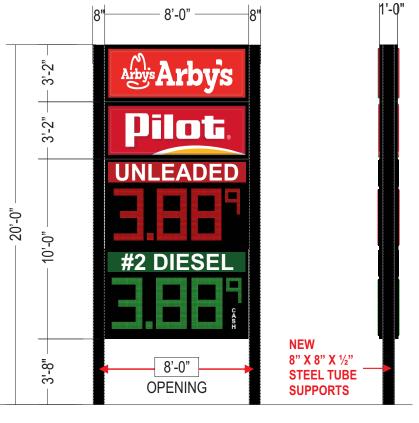
VINYL COLORS TO MATCH

VINYL COLORS TO MATCH

PAINT ENTIRE STEEL STRUCTURE: P1







..25.33 ft2 ..25.33 ft2

.80.0 ft2

Arby's Pilot

EXISTING CONDITIONS

UPDATED CONDITIONS

ELEVATION SCALE: 3/16" = 1'-0" **ELEVATION** SCALE: 3/16" = 1'-0"

TEXAS REPUBLIC SIGNS

2211 PECH RD HOUSTON TX 77055 832-727-5415 TEXASREPUBLICSIGNS.COM

Customer:

PILOT - # 324

Address:

13712 NORTHWESTERN AVE. FRANKSVILLE, WI 53126

City of Jurisdiction:

FRANKSVILLE

Designer:

JORGE

Date Created:

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W.O. #:

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REVISIONS

Rev 1: 03-25-21 Added graphics to Travel Center

Rev 2: 06-30-21 Revised mid-rise sig to 20 ft ht.

Rev 3:

Rev 4:

Rev 5:

CUSTOMER APPROVA

Todd Signature:

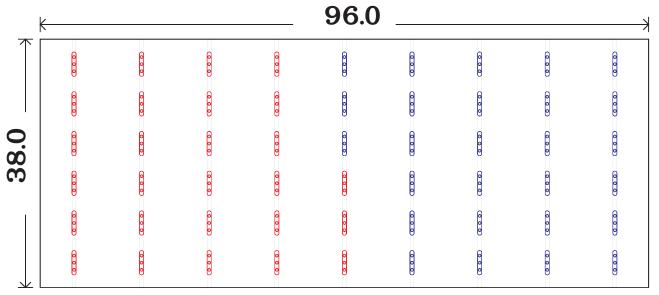
Date

THIS SIGN IS INTENDED TO BE INSTALLED II ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 6000F THE NEC AND/OR OTHER APPLICABLE LOCAL CODE. THIS INCLUDES BEDDER CROUNDED AND ROUND OF SECONDARY OF SECONDARY OF SECONDARY OF SEC

ELECTRICAL REQUIREMEN

AMPS: VOLTS: CIRCUITS

PILOT - MID-RISE D/F CABINET 8'-0" x 3'-2"



Module (9) Street Stik DS 42 Module Part No.

(2) Universal 120W

Power Supply Part Number PL-120-12-U

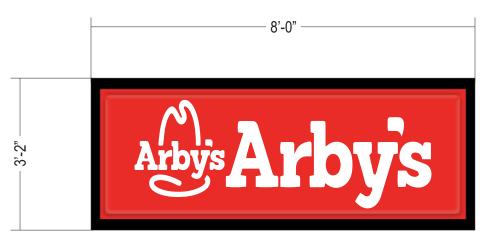
10.9"

PL-OP2-HW3-P/ST-DS-42-TW

Power Supply

54.44 sqft 23.00 ft

NOTE: 18 MODS PER Universal 96W 24V PS MAX NOTE: 7 MODS PER Universal 120W PS MAX



25.33 SQ FT



UPDATED CONDITIONS

UPDATED CONDITIONS

TEXAS REPUBLIC

2211 PECH RD HOUSTON TX 77055 832-727-5415

TEXASREPUBLICSIGNS.COM

Customer:

PILOT - # 324

Address:

13712 NORTHWESTERN AVE. FRANKSVILLE, WI 53126

City of Jurisdiction:

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Designer:

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REVISIONS

Rev 1: 03-25-21 Added graphics to Travel Center

Rev 2: 06-30-21 Revised mid-rise sign to 20 ft ht.

Rev 3:

Rev 4:

Rev 5:

25.33

SQ FT

CUSTOMER APPROVA

Todd Signature:

SCALE: 1/2" = 1'-0" **ELEVATION**

EXISTING SIGNS



EXISTING CONDITIONS

ELEVATION SCALE: 1/8" = 1'-0"

TOTAL BUILDING SIGNS SQ FOOTAGE 260.99 SQ FT **PROPOSED**

26.0 SQ FT

DRIVER ENTRANCE



TOTAL BUILDING SIGNS SQ FOOTAGE 182.49 SQ FT **EXISITNG**

TEXAS REPUBLIC SIGHS

2211 PECH RD HOUSTON TX 77055 832-727-5415 TEXASREPUBLICSIGNS.COM

Customer: PILOT - # 324

Address:

13712 NORTHWESTERN AVE. FRANKSVILLE, WI 53126

City of Jurisdiction:

FRANKSVILLE

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Rev 3:

Rev 4:

Rev 5:

CUSTOMER APPROVA

Todd Signature:

SIGN TYPE B QUANTITY: 1 **SCOPE OF WORK: WALL SIGN REMOVE & DISPOSE OF EXISTING** PILOT WALL SIGN PROVIDE AND INSTALL NEW

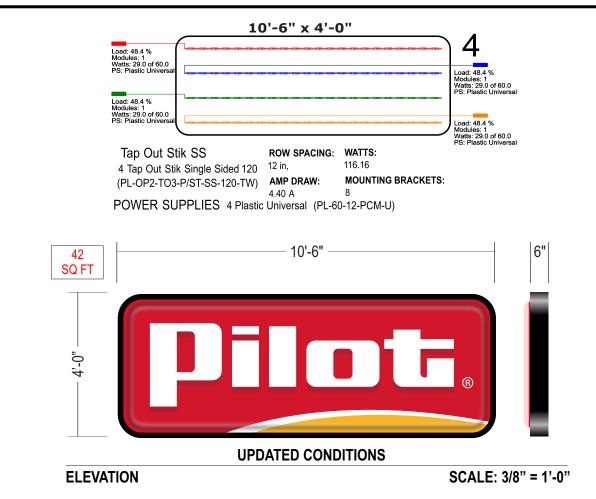
SPECIFICATIONS: PILOT SIGN

PILOT WALL SIGN

- CABINET FILLER AND 2" RETAINERS PAINTED, P1
- FACES: FORMED AND EMBOSSED WITH APPLIED V1 VINYL

SPECIFICATIONS: MOUNTING

• MOUNTING: INSTALL SIGN ONTO **EXISTING WALL**



PAN FORMED 1 ½" RETAINER 2' .040" X 5" DEEP EXTRUDED BLACK-RETURNS .063" PRE-FINISHED WHITE ALUM. BACKS 3/16" WHITE LEXAN FACES LACRYL PAINT SECOND SURFACE **FASTENERS** WHITE PRINCIPAL LED MODULES **WEEP HOLE DETAIL**

PATCH AND PAINT TO MATCH **EXISTING WALL COLOR**

NOT TO SCALE

42.0 SQ FT

SCALE: 1/8" = 1'-0"

COLOR LEGEND

PAINT COLORS 1: BLACK

VINYL COLORS TO MATCH V1: TO MATCH LOGO COLORS

1: 3630-33 RED

2: 3630-53 CARDINAL RED 3: 3630-25 SUNFLOWER YELLOW



ELEVATION

EXISTING CONDITIONS



UPDATED CONDITIONS

TEXAS REPUBLIC

2211 PECH RD HOUSTON TX 77055 832-727-5415 TEXASREPUBLICSIGNS.COM

Customer:

PILOT - # 324

Address:

13712 NORTHWESTERN AVE. FRANKSVILLE, WI 53126

City of Jurisdiction:

FRANKSVILLE

Designer:

JORGE

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REVISIONS

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Rev 3:

Rev 4:

Rev 5:

CUSTOMER APPROVA

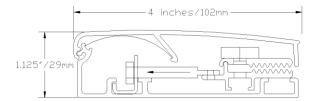
Todd Signature:

AMPS: VOLTS: CIRCUITS

SIGN TYPE C QUANTITY: 1

SCOPE OF WORK

- REMOVE EXISTING "TRAVEL CENTER" SIGN AND "BOX" LIGHT FIXTURES. PROPERLY TERMINATE ELECTRICAL AND INSTALL WEATHERPROOF COVER AT EXISTING JUNCTION BOXES. WHERE EXPOSED, PAINT TO MATCH FIELD OF WALL.
- INSTALL NEW GOOSENECK LIGHT FIXTURES IN PLACE OF "BOX" LIGHT TOP ROW - SUPPLY FROM HJC INSTALL NEW SNAPFRAMES BELOW GOOSENECK LIGHTS - SIZED AND SPACED ACCORDING TO THE ATTACHED MODEL CONDITIONS – IF ODD CONDITION IS ENCOUNTERED, CLIENT TO PROVIDE GUIDANCE -**SUPPLY FROM DFAB**
- PAINT TOUCH-UP TO MATCH EXISTING ALTERNATE: IF BUILDING IS TO BE PAINTED, THE ATTACHED COLOR SCHEMES ARE TO BE USED. ALSO HAVE WILLIAMS, FJ AND SPEEDWAY SCHEMES AVAILABLE.



Banner stretching frame dims



EXISTING CONDITIONS - (FRONT ENTRANCE)

ELEVATION NOT TO SCALE





OC



SNAP BANNER FRAMES

EXTERIOR GRADE GOOSE NECK LIGHTS

48.0 SQ FT

36.0 SQ FT

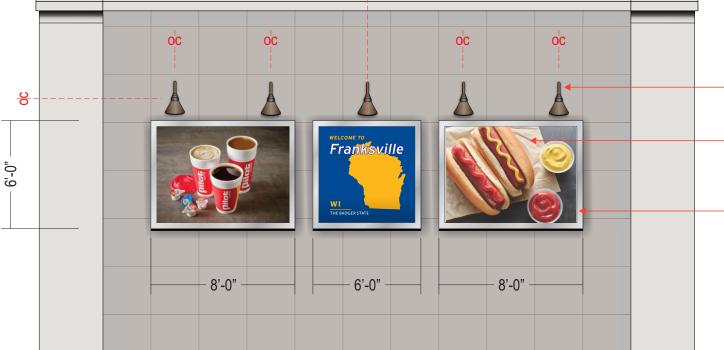
48.0 SQ FT

TOTAL = 132.0 SQ FT

CLIENT PROVIDED ARTWORK

SNAP BANNER FRAMES SMALLER FRAME CENTERED **OVER SINGLE LIGHT** • LARGE FRAMES CENTERED **OVER TWO LIGHTS**

(SIZES AS PER GUIDELINES PROVIDED BY CLIENT) OC OC OC OC



UPDATED CONDITIONS

ELEVATION SCALE: 3/16" = 1'-0"



2211 PECH RD HOUSTON TX 77055 832-727-5415

TEXASREPUBLICSIGNS.COM

Customer:

PILOT - # 324

Address:

13712 NORTHWESTERN AVE. FRANKSVILLE, WI 53126

City of Jurisdiction:

FRANKSVILLE

Designer:

JORGE

Date Created:

01.17.21

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Rev 3:

Rev 4:

Rev 5:

CUSTOMER APPROVA

Todd Signature:

Date:

Scope Of Work: Remove & Discard Existing Directional Signs and concrete base. Install New Directional Signs

1K! 141. +11 PCB

5503+/. UF GRC TGL W

1K! 141. +03 QSL DJ MU CP WCJ J MU

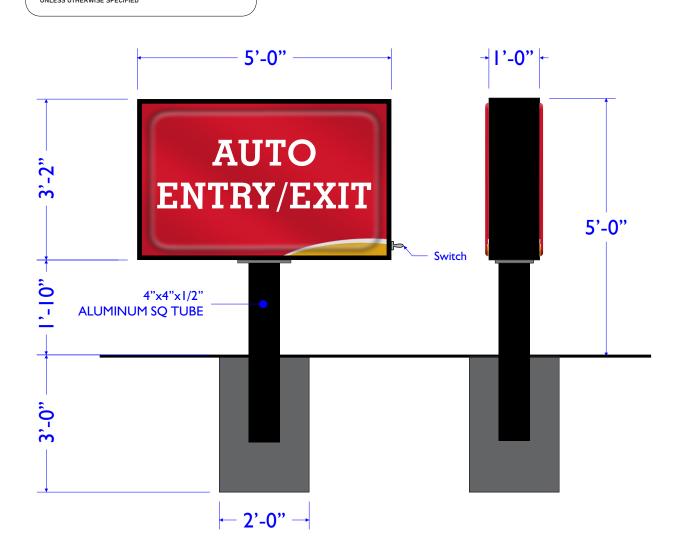
ELECTRICAL DIRECTIONAL SIGNS



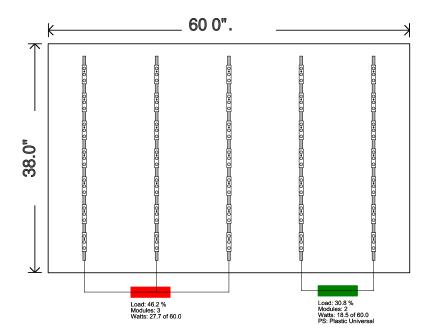


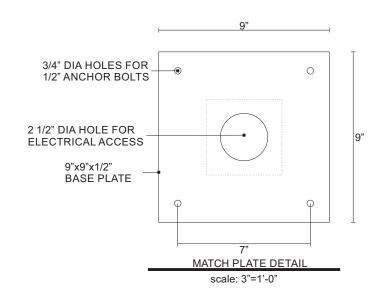


15.83 SQ FT EA



DIRECTIONAL SIGN





Scale: 1"=22.67"

TEXAS REPUBLIC

2211 PECH RD HOUSTON TX 77055 832-727-5415 TEXASREPUBLICSIGNS.COM

Customer:

PILOT - # 324

Address:

13712 NORTHWESTERN AVE. FRANKSVILLE, WI 53126

City of Jurisdiction:

FRANKSVILLE

Designer:

JORGE

Date Created:

01.17.21

W.O. #:

File Path:

P:\2021 JOBS\P\Pilot\Pilot # 324 - Franksville. WI\PRELIM DRAWINGS

REVISIONS

Rev 1: 03-25-21 Added graphics to Travel Center

Rev 2: 06-30-21 Revised mid-rise si to 20 ft ht.

Rev 3:

Rev 4:

Rev 5:

CUSTOMER APPROVA

Todd Signature:

ELECTRICAL DIRECTIONAL SIGNS

SIDE A

15.83 ft2

SIDE B

AUTO/RV ENTRY/EXIT

(X1)

AUTO/RV ENTRY/EXIT

NO **ENTRY**

(X1)

THANK YOU

TRUCK **ENTRY/EXIT** (X1)

TRUCK ENTRY/EXIT

G

AUTO/RV ENTRY/EXIT (X1)

AUTO/RV ENTRY/EXIT

GOOGLE MAPS IMAGE







SURVEY IMAGE - SIGN IS MISSING



NOT TO SCALE





0





TEXAS REPUBLIC

2211 PECH RD HOUSTON TX 7705

TEXASREPUBLICSIGNS.COM

Customer:

PILOT - # 324

Address:

13712 NORTHWESTERN AVE. FRANKSVILLE, WI 53126

City of Jurisdiction: FRANKSVILLE

Designer:

JORGE

Date Created:

01.17.21

W.O. #:

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Rev 5:

CUSTOMER APPROVA

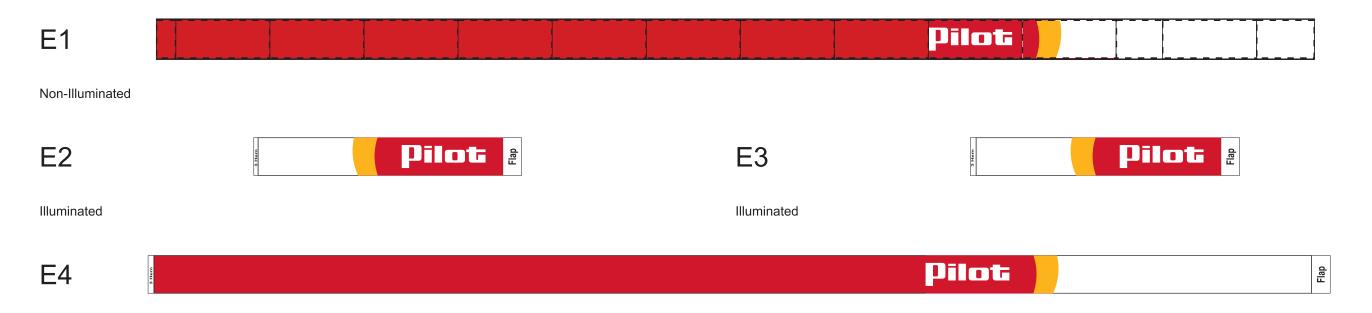
Todd Signature:

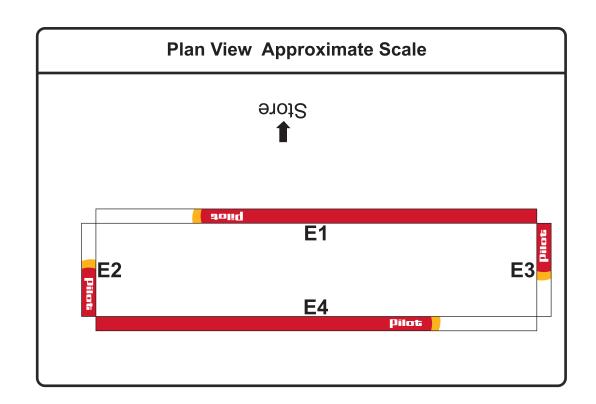
Scale: 1"=22.67"

EXISTING CONDITIONS

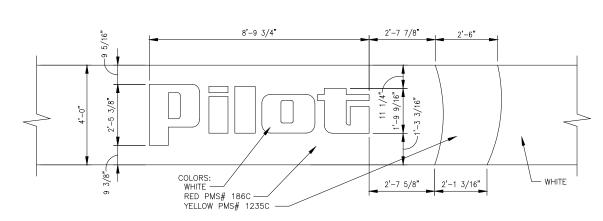
AUTO CANOPY

Illuminated





21.56 SQ FT



INTERNALLY ILLUMINATED PANAFLEX CANOPY LOGOS. SQUARE FOOTAGE: 21.56 SF.

CANOPY SIGNS

SCALE: 3/8" = 1'-0"

TEXAS REPUBLIC SIGHS

2211 PECH RD HOUSTON TX 77055 832-727-5415 TEXASREPUBLICSIGNS.COM

Customer:

PILOT - # 324

Address:

13712 NORTHWESTERN AVE. FRANKSVILLE, WI 53126

City of Jurisdiction:

FRANKSVILLE

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Rev 4:

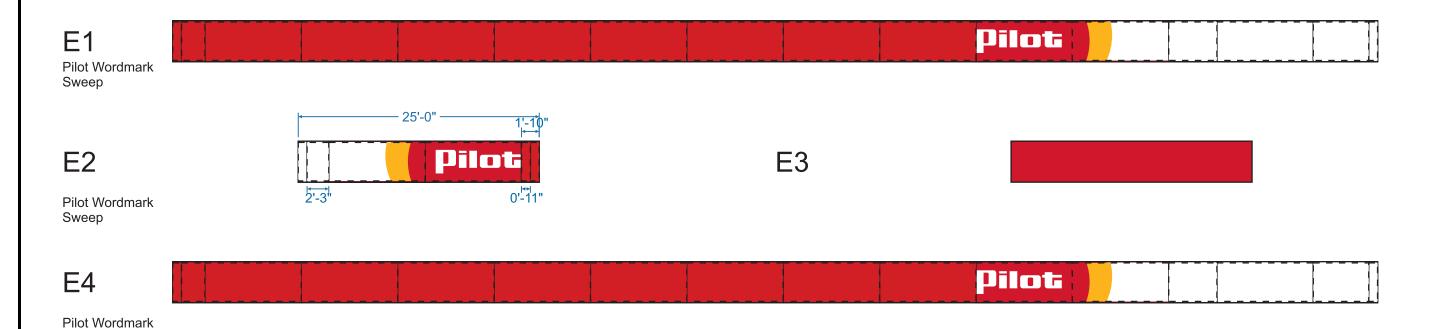
Rev 5:

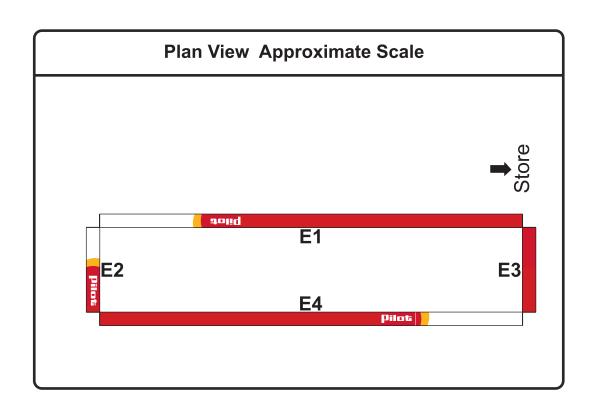
CUSTOMER APPROVA

Todd Signature:

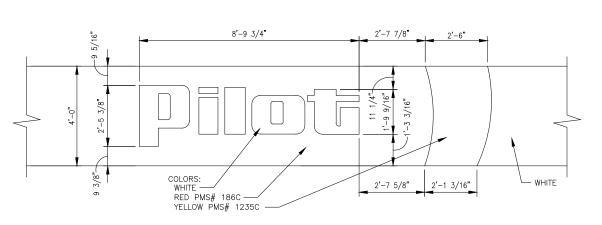
DIESEL CANOPY

Sweep





21.56 SQ FT



07 INTERNALLY ILLUMINATED PANAFLEX CANOPY LOGOS. SQUARE FOOTAGE: 21.56 SF.

CANOPY SIGNS
SCALE: 3/8" = 1'-0"

TEXAS REPUBLIC SIGNS

2211 PECH RD HOUSTON TX 77055 832-727-5415 TEXASREPUBLICSIGNS.COM

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Rev 3:

Rev 4:

Rev 5:

CUSTOMER APPROVAL

Todd Signature:

Date

THIS SIGN IS INTENDED TO BE INSTALLED I ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 6000F THE NEC AND/OR OTHER APPLICABLE LOCAL CODE. THIS INCLUDES OF THE COUNTY OF THE C

ELECTRICAL REQUIREMENT

AMPS: VOLTS: CIRCUITS



Meeting Date: October 25, 2021

Item No. 6b

Proposal: Cooperative Boundary Agreement Review

Description: Review a request to approve a certified survey map for a parcel located at 3205 3 Mile

Road and rezone the Lot 2 from A-1 and A-2, Agricultural Zoning Districts to M-2, General

Industrial District in the Village of Raymond.

Applicant(s): Briohn Land Development LLC

Address(es): 3205 3 Mile Road

Suggested Motion:

That the Plan Commission recommends to the Village Board that the proposed certified survey map for the parcel located at 3205 3 Mile Road and that proposed Lot 2 (22.34 acres) be rezoned from A-1, Farmland Preservation District and A-2, General Farming and Residential District II to M-2, General Industrial District Use for future development of a semi-truck repair and storage business in the Village of Raymond be approved for the following reasons:

- 1. The Village of Raymond Plan Commission and Village Board granted approval of the proposed certified survey map and rezone.
- 2. The proposed M-2 District is in accord with the 2035 Land Use Plan for the Village of Raymond.
- 3. The proposed certified survey map and rezoning is allowed by underlying zoning through the Cooperative Boundary Agreement review process.
- 4. Due to the parcel's proximity to the Interstate, the requested zoning district should be encouraged in this area.
- 5. At the time of development, the applicant will be required to come before the Village of Caledonia for site plan review. Any development will need to meet the intent of the Village of Caledonia development standards and be considered a spectacular use for this parcel to be allowed to proceed without connecting to sewer and water in accordance with the Cooperative Boundary Agreement between the Villages of Raymond and Caledonia.

Owner(s): Tony Janicek

Tax Key(s): 168-04-21-25-004-200

Lot Size(s): 80.44 acres Proposed Lots: 36.29 acres, 22.92 acres, & 21.23 acres

Current Zoning

District(s): A-1, Farmland Preservation District, A-2, General Farming and Residential District II

Overlay District(s): N/A

Meeting Date: October 25, 2021

				eetg =	Item No.: 6b	
Wetlands: Comprehensive Plan:	⊠ Yes Industria	□ No I and Busine	Floodplain: ss Park	⊠ Yes □] No	
Background: The applicant is requesting approval of a certified survey map creating three lots for the parcel located at 3205 3 Mile Road. In addition, the applicant is requesting a rezone of Lot 2 (22.34 acres) from A-1, Farmland Preservation District and A-2, General Farming and Residential District II to M-2, General Industrial District for the future development of a semi-truck repair and storage business.						
These requests will be reviewed by the Village of Raymond Plan Commission and Village Board at the same night as the Plan Commission's meeting. The Zoning Administrator for the Village of Raymond recommends approval of both the CSM and rezone request for the parcel as it complies with CSM parameters, and the rezone request is consistent with the Raymond Land Use Plan. The parcel is located 700 west of the Blackhawk Industrial Park which is zoned M-2, General Industrial District and located along the interstate.						
As part of the Cooperative Boundary Agreement, the Village of Caledonia has the authority to review and approve proposed CSMs, rezones, variances, plats, land use amendments, site plans, and conditional uses. Staff concurs with the Raymond Zoning Administrator 's recommendation that the proposed rezone request is consistent with the land use plan for the area and the proximity of the parcel to the interstate lends itself to this type of zoning classification. Furthermore, the proposed CSM conforms with subdivision regulations except for minor corrections such as noted on the CSM included with this report.						
When the applicant is ready to propose a development, Caledonia will have the authority to review the site plan and make the determination of whether the proposed development is of a spectacular use and therefore not be required to connect to sewer and water and meet development design standards.						
If the Plan Commission is comfortable with the proposed CSM and requested rezoning, staff drafted a suggested motion to approve the CSM and rezone for 22.92-acre lot located at 3205 3 Mile Road.						
Respectfully submit	ted:					
Peter Wagner, AICI	ur					
Development Director						

Northwest 1/4 of the Northeast 1/4 and part of the Northeast 1/4 of the Northwest 1/4 of Section 36, Township 4 North, Range 21 East, Village of Raymond, Racine County, Wissensin

Wisconsin.

SURVEY LEGEND
GOVERNMENT MONUMENT

FOUND (AS NOTED)

2

1 1/2" IRON PIPE SET
 18" LONG AND 1.13 LBS /
 PER FOOT

0 200 400 800 GRAPHIC SCALE

FOUND 3/4" IRON REBAR ⊗ FOUND 1" IRON PIPE (M) N8915'36'F 2638.47 FORTH LINE OF THE NORTHWEST 1/4 OF SECTION 36-04-21 (M) N89"15'49'E 2660.42' NORTH LINE OF THE NORTHEAST 1/4 OF SECTION 36-04-21 BRASS CAPPED
MONUMENT NOT FOUND,
RECREATED BY TIES,
NORTH 1/4 CORNER
SEC 36 TAN R21E BRASS CAPPED MONUMENT NOT FOUND, RECREATED BY TIES, NORTHWEST CORNER SEC 36 TAN R21E BRASS CAPPED MONUMENT MONUMENT FOUND NORTHEAST CORNER SEC 36 TAN R21E LAND TO BE DEDICATED FOR ROADWAY PURPO 3 MILE ROAD u 200 ROW L N8975'36" ROW LINE TOTAL ACREAGE 3,504,423 SQUARE FEET 80.45 ACRES NORTHEAST BLACKBAME EXISTING 30 TALL GRAIN BINS EXISTING WETLANDS -E OF THE EXISTING GREENHOUSES EXISTING 50' TALL GRAIN BIN EAST LINE OF TH WEST LINE OF THE NORTHWEST 1/4 OF SECTION 36-04-21 LOT 3 925,190 SQUARE FEET 21.24 ACRES (GROSS) 902,841 SQUARE FEET 20.73 ACRES (NET) LOT 2 998,527 SQUARE FEET 22.92 ACRES (GROSS) 973,174 SQUARE FEET 22.34 ACRES (NET) LOT 1 1,580,706 SQUARE FEET 38.29 ACRES (GROSS) 1,541,300 SQUARE FEET 35.38 ACRES (NET) WEST LINE 2640.56 N00'34'04'W, NG FLOODPLAIN 2645,82 SEE PAGE 2 FOR DIM FOR LOT 1 $\widehat{\mathbf{z}}$ N00'39'24'W, $\widehat{\mathbf{S}}$ 8976'25"W OUTH LINE OF THE NW 1/4 DE THE NE 1/4 UNPLATTED. UNPLATTED LANDS BRASS CAPPED MONUMENT FOUND CENTER CORNER SEC 36 TAN RZIE BRASS CAPPED MONUMENT FOUND BRASS CAPPED MONUMENT NOT FOUND, RECREATED BY TIES, WEST 1/4 CORNER SEC 36 TAN R21E FOUND EAST CORNER 1/4 CORNER SEC 36 T4N R21E

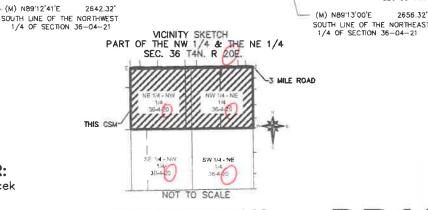


OWNER/SUBDIMDER:

Anthony & Carol Janicek 3205 W. 3 Mile Rd. Franksville, WI 53126 920—832—6443

PREPARED BY:

Ruekert & Mielke, Inc. W233 N2080 Ridgeview Pkwy. Waukesha, WI 53188 262-542-5733



BEARINGS ARE REFERENCED TO THE WISCONSIN STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD 83, NORTH LINE OF THE NE 1/4 OF 36-4-21, MEASURED AS N89°15'49°E.



DRAFI

Chris Ruetten, P.L.S. 2942 Dated this 4th day of Oct., 2021

SHEET 1 OF 7

THIS INSTRUMENT WAS DRAFTED BY JOHN SCHULZ (10/4/21), CHECKED BY: CHRIS RUETTEN, P.L.S., (10/4/21)