CITY of NOVI CITY COUNCIL



Agenda Item 7 July 8, 2019

SUBJECT: Consideration of the request of GPD group for Chick-Fil-A, JSP 18-75, for Preliminary Site Plan with a Planned Development (PD-2) Option, Special Land Use and Stormwater Management Plan approval. The subject property is 1.40 acres located at the northeast corner of Novi Road and the I-96 service drive in Section 14 in the RC, Regional Center District. The applicant is proposing to develop a 4,990 square foot Chick-Fil-A restaurant with a drive-through.

SUBMITTING DEPARTMENT: Department of Community Development, Planning Division

CITY MANAGER APPROVAL:

BACKGROUND INFORMATION:

The applicant is proposing to demolish the existing vacant building (old Denny's restaurant) to develop a Chick-Fil-A Restaurant located at the northeast corner of Novi Road and the I-96 service drive. The new restaurant will be approximately 4,990 square feet and the applicant will be utilizing the Planned Development 2 (PD-2) option. The proposed restaurant includes a drive-through and a play area inside the building. The restaurant proposes 114 indoor seats and 16 outdoor seats.

The property is currently zoned Regional Center. The existing building is considered a legal nonconforming structure. The existing building and the parking lot do not meet the minimum Ordinance requirements for setbacks. Section 7.1.4. of the Zoning Ordinance restricts the redevelopment and/or alteration of non-conforming structures. The proposed redevelopment is required to conform to the Ordinance standards and is not allowed to follow the non-conforming setbacks.

The current RC, Regional Center zoning would limit the development potential for the site. Regional Center allows a variety of uses; however, it also has a minimum building setback requirement of 100 feet for all yards. The applicant is proposing to redevelop the site using PD-2 option, which provides a greater



flexibility for redevelopment. RC does not allow a drive-through, so the PD-2 option would be required. The applicant states that the proposed development will fit with the surrounding mall development and is similar to McDonald's drive-through nearby, which was developed using PD-2 Option (see image above).

PD-2 Option in Future Land Use Map

The PD options contained in Section 3.31 shall be considered only within those areas of the City which are specifically designated for their application on the City's Master Plan for Land Use Map. The subject property is currently not designated as PD-2 on the 2016 Future Land Use Map. The map recommends PD-2 for other outlots around the north and west side of the Twelve Oaks Mall, including the existing McDonald's Restaurant, and for properties in part of West Oaks Mall, and for the Hotel property on the west side of Novi Road, north of I-96 (see image below).



While the property at issue is not designated on the future land use map, Section 3.31 does contemplate a process whereby an applicant can process a rezoning request at the same time it is seeking a rezoning to a district that permits the PD option. A similar process has been proposed here under which the site plan has been processed at the same time. The Planning Commission and City Council were asked to review a text change to Section 3.31 that would allow the use of the PD option if it is shown on either the zoning map or the future land use map, and to make other changes for clarity as well. Hence, the processing of this plan as a map change to allow RC with PD Option. The Planning Commission may be asked to amend the future land use map as well, although that process is substantially longer than the rezoning process.

PREVIOUS MEETING RESULTS

- Master Plan and Zoning Committee Meeting: The request for rezoning was presented to the Committee at their March 13, 2019 meeting. The Committee noted that it is similar to other properties in the area with PD-2. However, the ingress and egress issue should be addressed as part of the site plan review.
- Planning Commission Public Hearing: The Planning Commission met on April 17, 2019 and held a Public Hearing with regard to the rezoning request. Following a brief discussion of the request, the Planning Commission voted to **recommend approval** to the City Council to rezone the subject property from Regional Center (RC) to Regional Center with a Planned Development 2 (PD-2) Option.
- City Council Meeting: The request for rezoning was presented to the City Council at their May 20, 2019 meeting. The City Council recommended tentative approval noting

serious concerns about traffic circulation. The Site Plan was not presented for discussion at that meeting, but was subsequently shared in the June 6th off-week packet.

SITE PLAN REVIEW SUMMARY

The following paragraphs summarize plan review comments. The review letters are attached.

• **Planning:** The site plan as proposed would require a number of deviations from the Ordinance requirements as noted in the recommended motion. The Planning Commission recommended approval of this request at their April 17, 2019 meeting.

As part of the submittal, the applicant has submitted a Community Impact Statement and Noise Impact Study.

As noted in the Planning Review, some of the deviations are straightforward, such as lack of rezoning traffic study (since a Traffic Impact Statement was provided), and exceeding the minimum distance from another restaurant (since the site is currently developed with a restaurant, and so there is no change in this requirement). Other deviations are supported by staff contingent on additional conditions. For example, alternate locations for the loading zone and the dumpster are supported if the usage does not conflict with peak traffic times. Some of the deviations, such as setbacks, are a result of the site size and multiple street frontages. The proposed parking setback deviations are consistent with existing non-conformities. The building is proposed at the current location to best accommodate required drive-through queuing, access for pedestrians in the parking lot, and street visibility.

Another deviation that is required for the site plan is the lack of the minimum required parking spaces. A minimum of 100 spaces are required; 68 spaces are proposed. The applicant has provided a parking study to support the proposed parking counts. The study compared three different existing locations. Two of the locations required about 62 spaces at peak usage, and the Grand Rapids location required about 79 parking spaces. Staff recommended that the applicant pursue a shared parking agreement with the La-Z-Boy facility to east facility to alleviate issues with potential peak parking needs, similar to the Grand Rapids restaurant. The applicant is working with the La-Z-Boy representatives to allow for overflow parking during peak hours when parking demand is at its maximum.

Taubman Company has provided a letter indicating the ongoing efforts to work together in good faith to formalize an agreement between the parties that will address any potential adverse impacts on the traffic along Twelve Oaks Mall Drive. Taubman's Director of Development indicates that Twelve Oks Mall takes no exception to the rezoning of the property to allow for the Chick Fil-A as proposed.

- **Engineering:** Storm water would be collected by a single storm sewer collection system and discharged to a regional detention basin. Engineering review noted that the requested rezoning to RC with a PD-2 will result in utility demands that are approximately equal to, or less than, the utility demand if the property were to be developed under the current zoning.
- Landscape: The applicant has been working with the City's landscape architect and the following list of deviations is supported by staff.
 - 1. Insufficient greenbelt width along I-96 frontage.
 - 2. Lack of berm or wall along entire frontage.

- 3. Deficiency in greenbelt plantings (sub canopy trees).
- 4. Deficiency in perimeter parking lot canopy trees. 24 deciduous canopy trees are required. 13 canopy trees and 6 sub canopy trees are proposed.
- 5. Deficiency in interior parking lot trees: 12 trees are required, 9 trees are proposed.
- 6. Missing endcap island trees.
- 7. Providing less than 60 percent of the landscape along the façade facing road.
- 8. Proposing some of the required building foundation landscaping away from the building.
- Traffic: The applicant has provided a Traffic Impact Statement that analyzed the vehicular operating conditions of the external roadways in the vicinity (Novi Road, Grand River Avenue and Twelve Mile Road), both before and after its construction to determine what, if any, impact the proposed development will have on the surrounding roadway network. All internal traffic operations related to the drive-through operation and on-site parking are addressed as part of the parking study and the queuing study. Copies of the studies are attached.

The traffic study noted that the impacts of the development are not anticipated to degrade levels of services beyond those under existing conditions during either the AM or PM peak periods. A queuing study was submitted that compared queuing demand at three similar locations. The demand is between 11 and 20 depending on the location. The current plan proposes stacking up to 17, which is in excess of current ordinance requirements. The applicant has agreed to designate certain parking spaces for employee parking to avoid potential conflict with excess queuing, if that should happen.

- **Façade:** The building is proposed to be constructed primarily of brick and is full compliance with the Façade Ordinance. The canopy columns will be fully enclosed in brick as well. A copy of the elevations and a picture of the façade sample board are attached. Façade review recommends approval.
- Fire: An ordinance deviation is required for the lack of bypass lane for a limited stretch. The applicant is providing an 11-foot bypass lane where the two drive-through lanes merge into one lane near the northwest corner of the building. The City's Fire Marshal has confirmed that it will have access to all sides of the building and has no additional comments to the proposed layout. Fire review recommends approval.

SITE CIRCULATION AND TRAFFIC CONCERNS

A recurring point of discussion in the traffic review letter and at the MPZ Committee, Planning Commission and the City Council meetings is the feasibility of ingress and egress movements from the site onto Twelve Oaks Mall drive. After reviewing the information from the Traffic studies, our consultant notes the following:

- 1. With regard to the Chick-Fil-A development, we do not see any traffic concerns in the public right-of-way. Traffic on northbound Novi Road has what equates to a free flow drive to get into the mall property and Chick-Fil-A.
- 2. The southbound Novi Road traffic will have to enter the mall via a signalized intersection. Due to the traffic signal, there is no real indication that additional delay or left turn queues will come to fruition.
- 3. The primary concern from a traffic perspective is the circulation once on the property and more importantly the traffic leaving Chick-Fil-A. Due to the one-way road on the north side it is assumed that most traffic will exit on the east side of the development, which is currently a drive with no traffic control device (stop sign signal, etc.). The applicant has provided a conceptual circulation diagram and

some wayfinding signage restricting on-site traffic existing to the north. <u>Circulation</u> diagrams are attached that indicate both exit and entry patterns.

- 4. The developer has stated in the response letter that they have been working with mall ownership and La-Z-Boy and have agreed to keep future communication open. It also states that no physical measures are proposed to be installed at this time. Traffic conditions will be evaluated on an on-going basis and appropriate mitigation measures will be implemented as needed.
- 5. <u>A letter of support from Twelve Oaks Mall is also included in the packet.</u> Staff had a conversation with the La-Z-Boy representative who was in general support of the project and is willing to work with Chick-Fil-A for overflow parking at peak hours on an ongoing basis.

RECOMMENDED ACTION:

Approval at the request of GPD group, for JSP 18-75 Chick-Fil-A with a Drive-Through, for Preliminary Site Plan with a PD-2 Option based on and subject to the following:

A. The standards of Section 6.1.2.C are met, as follows:

- 1. The proposed use will not cause any detrimental impact on existing thoroughfares (based on Traffic review);
- 2. The proposed use will not cause any detrimental impact on the capabilities of public services and facilities (based on Engineering rezoning memo and the review);
- 3. The proposed use is compatible with the natural features and characteristics of the land (because there are no regulated natural features on site);
- 4. The proposed use is compatible with adjacent uses of land (because the proposed use is similar to an existing restaurant use with an addition of drive-through);
- 5. The proposed use is consistent with the goals, objectives, and recommendations of the City's Master Plan for Land Use (as it fulfills one of the Master Plan objectives to attract new businesses within City of Novi);
- 6. The proposed use will promote the use of land in a socially and economically desirable manner (as it fulfills one of the Master Plan objectives to attract new businesses within City of Novi);
- 7. The proposed use is (1) listed among the provision of uses requiring special land use review as set forth in the various zoning districts of this Ordinance, and (2) is in harmony with the purposes and conforms to the applicable site design regulations of the zoning district in which it is located.

B. The additional standards of Section 3.31.4.A are met as follows:

- 1. The plan meets all the requirements of Section 6.1 of this Ordinance for Preliminary Site Plans and the requirements set forth in the City's Site Plan and Development Manual.
- 2. The plan satisfies the intent of the Special Land Use provisions as stated in Section 6.1.2.c. (as noted under Item A);
- The Community Impact Statement and Traffic Study are provided, regardless of site size, in accordance with the requirements set forth in the City's Site Plan and Development Manual;
- 4. The plan satisfies the intent of this Section with respect to use of the land and principal and accessory use relationships within the site as well as with uses on adjacent sites;

- 5. That all existing or proposed streets, road, utilities and marginal access service drives, as are required, are correctly located on the site plan in accordance with the approved plans for these improvements (based on the Traffic Consultant's review);
- 6. The plan meets all the applicable standards of this Ordinance relative to height, bulk and area requirements, building setbacks, off-street parking and preliminary site engineering requirements (subject to deviations as noted in this motion);
- 7. That there exists a reasonable harmonious relationship between the location of buildings on the site relative to buildings on lands in the surrounding area; that there is a reasonable architectural and functional compatibility between all structures on the site and structures within the surrounding area to assure proper relationships between:
 - a. The topography of the adjoining lands as well as that of the site itself including any significant natural or manmade features (No changes to existing site grading are proposed;
 - b. The relationship of one building to another whether on-site or on adjacent land, i.e., entrances, service areas and mechanical appurtenances (based on site plan reviews);
 - c. The rooftops of buildings that may lie below street levels or from windows of higher adjacent buildings (based on façade review);
 - d. Landscape plantings, off-street parking areas and service drives on adjacent lands (based on landscape plan review);
 - e. Compliance with street, road and public utility layouts approved for the area (based on Engineering review);
 - f. The architecture of the proposed building including overall design and façade materials used. Architectural design and façade material are to be complimentary to existing or proposed buildings within the site and the surrounding area. It is not intended that contrasts in architectural design and use of façade materials is to be discouraged, but care shall be taken so that any such contrasts will not be so out of character with existing building designs and façade materials so as to create an adverse effect on the stability and value of the surrounding area (based on façade review).

C. The following deviations are granted under Section 3.31.5:

- 1. Deviation from Sec. 5.2.12.C to allow reduction of minimum required parking spaces: A minimum of 100 spaces are required, 65 spaces are proposed (based on City's Traffic Consultant's review and recommendation from the findings of the Parking study);
- Deviation from Section 3.31.7.B.v.a, the use conditions for fast food drive-through under PD-2 Option as listed under that requires a minimum distance of 1,000 feet between a proposed independently freestanding restaurant from any other such use on the same side of the street/because previous use of existing parcel was also a sit-down restaurant);
- 3. Deviation from Section 5.3.11.D that requires a bypass lane, minimum of 18 feet width. The applicant is providing an 11 foot by pass lane when two drive-through lanes merge into one around the Northwest corner of the building (as the proposed layout provides sufficient access for Fire and Emergency purpose);
- 4. Deviation from Section 3.31.7.D for not meeting the minimum building setback requirements for exterior side yard along I-96 (south west frontage). A minimum of 50 feet is required, 32 feet is proposed (due to site shape and size and multiple road frontages);
- 5. Deviation from Section 3.31.7.D for not meeting the minimum parking setback requirements for Exterior side yard along Twelve Oaks Mall Road (North). A minimum

of 20 feet is required, 14.5 feet is proposed(due to site shape and size and multiple road frontages);

- 6. Deviation from Section 3.31.7.D for not meeting the minimum parking setback requirements for Exterior side yard along I-96 (Southwest). A minimum of 20 feet is required, 9.3 feet is proposed/due to site shape and size and multiple road frontages);
- 7. Deviation from Section 3.31.7.D for not meeting the minimum parking setback requirements for rear yard (east). A minimum of 20 feet is required, 6 feet is proposed(due to site shape and size and multiple road frontages);
- 8. Deviation from Section 5.4.1 for reduction of minimum required loading area. A minimum of 2,110 square feet is required and 360 square feet is proposed (based on the largest truck size provided by the applicant, that accesses the site);
- Deviation from Section 4.19.2.F for allowing a dumpster in the exterior side yard instead of required rear yard(due to site shape and size and multiple road frontages);
- 10. Deviation from Section 4.19.2.F for allowing a dumpster in the parking setback. A minimum of 20 feet is required and 12.1 feet is provided(due to site shape and size and multiple road frontages);
- 11. Landscape deviation from Section 5.5.3.B.ii and iii for insufficient greenbelt width along I-96 frontage (because it is consistent with existing greenbelt plantings);
- 12. Landscape deviation from Section 5.5.3.B.ii and iii for lack of berm or wall along entire frontage (due to conflicts with existing underground utilities and proposed additional landscaping in lieu of the berm);
- 13. Landscape deviation from Section 5.5.3.B.ii and iii for deficiency in greenbelt plantings (22 sub canopy trees are required, 17 are provided) due to lack of space in the greenbelt;
- 14. Landscape deviation from Section 5.5.3.C. for deficiency in interior parking lot trees.12 trees required, 10 trees proposed (because shrubs are proposed in lieu of trees due to conflicts with existing underground utilities);
- 15. Landscape deviation from Section 5.5.3.D. for providing less than 60% landscape along the façade facing road (because almost the entire building foundation is screened by the landscaping across the drive-thru lane);
- 16. Landscape deviation from Section 5.5.3.D. for proposing some of the required building foundation landscaping away from the building (because it is proposed in a very visible location away from the building);
- 17. These deviations are based on the City Council's findings:
 - a. That each zoning ordinance provision from which a deviation is sought would, if the deviation were not granted, prohibit an enhancement of the development that would be in the public interest;
 - b. That approving the proposed deviation would be compatible with the existing and planned uses in the surrounding area;
 - c. That the proposed deviation would not be detrimental to the natural features and resources of the affected property and surrounding area, or would enhance or preserve such natural features and resources;
 - d. That the proposed deviation would not be injurious to the safety or convenience of vehicular or pedestrian traffic; and
 - e. That the proposed deviation would not cause an adverse fiscal or financial impact on the City's ability to provide services and facilities to the property or to the public as a whole.

D. The following conditions are imposed under Section 3.31.4.B:

- 1. The applicant shall direct exiting traffic from the site to the eastern exit to Twelve Oaks Mall road with appropriate site signage, subject to review and approval by City's Traffic Consultant at the time of final site plan submittal;
- 2. The dumpster pick up times shall not conflict with peak hour traffic; and
- 3. The findings of compliance with Ordinance standards in the staff and consultant review letters, and the conditions and items listed in those letters being addressed on the Final Site Plan.

This motion is made because the plan is otherwise in compliance with Article 3, Article 4, and Article 5 of the Zoning Ordinance and all other applicable provisions of the Ordinance.

MEMORANDUM

TO:PETE AUGER, CITY MANAGERTHRU:BARBARA MCBETH, AICP, CITY PLANNERFROM:SRI RAVALI KO'MARAGIRI, PLANNERSUBJECT:JSP 18-75 CHICK-FIL-A SITE PLAN REVIEWDATE:JUNE 5, 2019

This memo is being prepared to provide a summary of reviews for the Chick-Fil-A restaurant proposed near Novi Road and I-96 at the site of the former Denny's Restaurant in advance of the City Council's consideration of the second reading of the rezoning request in the next few weeks. The memo covers the following:

- 1. Project information: Location and rezoning request
- 2. Previous Meeting Results (see page 3)
 - a. Master Planning and Zoning Committee meeting;
 - b. Planning Commission public hearing;
 - c. City Council meeting regarding the rezoning request
- 3. Site Plan Review Summary: Planning, Engineering, Landscape, Traffic, Façade and Fire (see page 3)
- 4. Site Circulation and Traffic Concerns (see page 5)
- 5. Next Steps (see page 6)

PROJECT INFORMATION AND BACKGROUND

The applicant is proposing to demolish the existing vacant building (old Denny's restaurant) to develop a Chick-Fil-A Restaurant located the south east corner of Novi Road and Twelve Oaks Drive. The new restaurant will be approximately 4,990 square feet and the applicant will be utilizing the Planned Development 2 (PD-2) option. The proposed restaurant includes a drive-through and a play area inside the building. The restaurant proposes 114 indoor seats and 16 outdoor seats.

The property is currently zoned Regional Center. The existing building is considered a legal nonconforming structure. The existing building and the parking lot do not meet the minimum Ordinance requirements for setbacks. Section 7.1.4. of the Zoning Ordinance restricts the



redevelopment and/or alteration of non-conforming structures. The proposed redevelopment is required to conform to the Ordinance standards and is not allowed to follow the non-conforming setbacks.

The current RC, Regional Center zoning would limit the development potential for the site. Regional Center allows a variety of uses; however, it also has a minimum building setback requirement for 100 feet for all yards. The applicant is proposing to redevelop the site using PD-2 option, which provides a greater flexibility for redevelopment. RC does not allow a drive-through, so the PD-2 option would be required. The applicant states that the proposed development will fit with the surrounding mall development and is similar to McDonald's drive-through nearby, which was developed using PD-2 Option (see image above).

PD-2 Option in Future Land Use Map

The PD options contained in Section 3.31 shall be considered only within those areas of the City which are specifically designated for their application on the City's Master Plan for Land Use Map. The subject property is currently not designated as PD-2 on the 2016 Future Land Use Map. The map recommends PD-2 for other outlots around the north and west side of the Twelve Oaks Mall, including the existing McDonald's Restaurant, and for properties in part of West Oaks Mall, and for the Hotel property on the west side of Novi Road, north of I-96 (see image below).



While the property at issue is not designated on the future land use map, Section 3.31 does contemplate a process whereby an applicant can process a rezoning request at the same time it is seeking a rezoning to a district that permits the PD option. A similar process has been proposed here under which the site plan has been processed at the same time the Planning Commission and City Council are being asked to review a text change to Section 3.31 that would allow the use of the PD option if it is shown on either the zoning map or the future land use map, and to make other changes for clarity as well. Hence the processing of this plan as a map change to allow RC with PD Option. The Planning Commission may be asked to amend the future land use map as well, although that process is substantially longer than the rezoning process.

Use of the PD-2 Option for smaller parcels around the Twelve Oaks Mall would improve the development potential of the lots, since the setbacks provided with the overlay are considerable smaller than in the RC, Regional Center District, and because the uses are expanded to allow additional uses, such as drive-through restaurants (subject to limitations as noted in the ordinance).

PREVIOUS MEETING RESULTS

- Master Planning and Zoning Committee Meeting: The request for rezoning was presented to the Committee at their March 13, 2019 meeting and received favorable recommendation. The Committee noted that it is similar to other properties in the area with PD-2. However, the ingress and egress issue should be addressed as part of the site plan review. A copy of the meeting minutes are attached to the memo.
- **Planning Commission Public Hearing:** The Planning Commission met on April 17, 2019 and held a Public Hearing with regard to the rezoning request. Following a brief discussion of the request, the Planning Commission voted to **recommend approval** to the City Council to rezone the subject property from Regional Center (RC) to Regional Center with a Planned Development 2 Option (PD-2). A copy of the meeting minutes and action summary are attached to the memo.
- **City Council Meeting:** The request for rezoning was presented to the City Council at their May 20, 2019 meeting. The City Council has recommended tentative approval noting serious concerns about Traffic. The Site Plan was not presented for discussion at that meeting.

SITE PLAN REVIEW SUMMARY

- **Planning:** The site plan as proposed would require the following deviations from the Ordinance requirements. These are subject to the City Council approval based on Planning Commission's recommendation. Please refer to Planning Review letter for more detail. As part of the submittal, the applicant has submitted a Community Impact study and noise impact study. A copy of Community Impact study is attached to the memo.
 - 1. Reduction of minimum required parking spaces for fast food restaurants. A minimum of 100 are required, 65 are proposed;
 - 2. To allow the proposed restaurant within 1,000 feet from another independently freestanding restaurant from any other such use on the same side of the street;
 - 3. Lack of a bypass lane, minimum of 18 feet width. The applicant is providing an 11 foot by pass lane when two drive-through lanes merge into one around the Northwest corner of the building;
 - 4. Reduction of the minimum building setback requirements for exterior side yard along I-96 (south west frontage). A minimum of 50 feet is required, 32 feet is proposed;
 - 5. Reduction of the minimum parking setback requirements for Exterior side yard along Twelve Oaks Mall Road (North). A minimum of 20 feet is required, 14.5 feet is proposed;

- 6. Reduction of the minimum parking setback requirements for Exterior side yard along I-96 (Southwest). A minimum of 20 feet is required, 9.3 feet is proposed;
- 7. Reduction of the minimum parking setback requirements for rear yard (east). A minimum of 20 feet is required, 6 feet is proposed;
- 8. Reduction of minimum required loading area. A minimum of 2,110 square feet is required and 360 square feet is proposed;
- 9. To allow dumpster in the exterior side yard instead of required rear yard.
- 10. To allow a dumpster in the parking setback. A minimum of 20 feet is required and 12.1 feet is provided.

As noted in the Planning Review, some of the deviations are straightforward, such as lack of rezoning traffic study, and distance from another restaurant, whereas some are supported by staff contingent on additional conditions. For example, alternate locations for the loading zone and the dumpster are supported if the usage does not conflict with peak traffic times. Some of the deviations, such as setbacks and the like, are a result of the site size and multiple frontages. The proposed parking setback deviations are consistent with existing non-conformities. The building is proposed at the current location to best accommodate required Queuing and street visibility.

A major deviation that is required for the Site Plan as proposed is the lack of minimum parking. A minimum of 100 spaces are required, 68 spaces are currently proposed. The applicant has provided a parking study to support the proposed parking counts. The study compared three different existing locations. Two of the locations required about 62 spaces at peak usage, and the Grand Rapids location required about 79 parking spaces. Staff recommended that the applicant pursue a shared parking agreement with Lazy-Boy facility to east facility to alleviate issues with potential peak parking needs similar to Grand Rapids. The applicant has indicated that they reached out to the La-Z-Boy property owner to request cross parking and was denied.

- **Engineering:** Storm water would be collected by a single storm sewer collection system and discharged to a regional detention basin. Engineering review noted that the requested rezoning to RC with a PD-2 will result in utility demands that are approximately equal to or less than the utility demand if the property were to be developed under the current zoning. The rezoning would have negligible impact on utility demands.
- Landscape: The applicant has been working with City's landscape architect and the following list of deviations supported by staff.
 - 1. Insufficient greenbelt width along I-96 frontage.
 - 2. Lack of berm or wall along entire frontage.
 - 3. Deficiency in greenbelt plantings (sub canopy trees).
 - 4. Deficiency in perimeter parking lot canopy trees. 24 deciduous canopy trees are required. 13 canopy trees and 6 sub canopy trees are proposed.
 - 5. Deficiency in interior parking lot trees. 12 trees required, 9 trees proposed.
 - 6. Missing endcap island trees.
 - 7. Providing less than 60% landscape along the façade facing road.

- 8. Proposing some of the required building foundation landscaping away from the building.
- **Traffic:** The applicant has provided a Traffic Impact Statement that analyzed the vehicular operating conditions of the external roadways in the vicinity (Novi Road, Grand River Avenue and Twelve Mile Road), both before and after its construction to determine what, if any, impact the proposed development will have on the surrounding roadway network. All internal traffic operations related to the drive-through operation and on-site parking are addressed as part of the parking study and the Queuing study. Copies of the studies are attached to the memo.

The study noted that the impacts of the development are not anticipated to degrade levels of services beyond those under existing conditions during either the AM or PM peak periods. A queuing study was submitted that compared queuing demand at three similar locations. The demand is between 11 and 20 depending on the location. The current plan proposes stacking up to 17, which is in excess of current ordinance requirements. The applicant has agreed to designate certain parking spaces for employee parking to avoid potential conflict with excess queuing.

• Façade

The building is proposed to be constructed primarily of brick and is full compliance with the Façade Ordinance. The canopy columns will be fully enclosed in brick as well. A copy of the elevations and a picture of the façade sample board are attached to the memo. Façade review recommends approval.

• Fire

An ordinance deviation is required a for the lack of bypass lane for a limited stretch. The applicant is providing an 11 foot bypass lane when two drive-through lanes merge into one around the northwest corner of the building. The City's Fire Marshal has confirmed that it has access to all sides of the building and has no additional comments to the proposed layout. Fire review recommends approval.

SITE CIRCULATION AND TRAFFIC CONCERNS

A recurring point of discussion in the traffic review letter and at the MPZ Committee, Planning Commission and the City Council meetings is the feasibility of ingress and egress movements from the site onto Twelve Oaks Mall drive. After reviewing the information from the Traffic studies, our consultant notes the following:

- 1. With regard to the Chick-fil-A development, we do not see any traffic concerns in the public right-of-way. Traffic on northbound Novi Road has what equates to a free flow drive to get into the mall property and Chick-fil-A.
- 2. The southbound Novi Road traffic will have to enter the mall via a signalized intersection. Due to the traffic signal, there is no real indication that additional delay or left turn queues will come to fruition.
- 3. The primary concern from a traffic perspective is the circulation once on the property and more importantly the traffic leaving Chick-fil-A. Due to the one-way road on the north side it is assumed that most traffic will exit on the east side of the development, which is currently a drive with no traffic control device (stop sign, signal, etc.). The applicant has provided a conceptual circulation diagram and

some wayfinding signage restricting on-site traffic existing to the north. Circulation diagrams are attached to the memo.

- 4. The developer should work with the Mall ownership and develop a plan for the best circulation pattern and then place traffic control devices, if needed, accordingly.
- 5. Additionally, the developer should work with the mall to identify a plan for potential parking overflow and traffic patterns during high shopping times such as around the holidays. The applicant has noted that the discussions with Twelve Oaks mall are ongoing. Staff has not received an update at this time, but anticipates that additional information will be provided when this matter returns to the City Council.



NEXT STEPS

The applicant's request is two parts:

- **Rezoning:** A request for rezoning from RC to RC with a PD-2 Option. The City Council has tentatively approved the request at their May 20, 2019 meeting. Staff will bring forward the request for a final approval (second reading) at a future meeting, yet to be scheduled. At that meeting, Council will also be asked to do second reading of the text amendment that allows the PD designation to be on the zoning map as well as the future land use map.
- Site Plan: A request for approval for Preliminary Site Plan with a PD-2, Special Land Use and Stormwater Management Plan. Planning Commission has recommended approval. It is anticipated that the Preliminary Site Plan will be presented to the City Council at the same time as the second reading for rezoning.

MAPS

Location Zoning Future Land Use Natural Features









SITE SURVEY



SITE PLAN

Full Size plans available at Community Development Department



Const. (5 Version Const.) (2 March Cale), Miles Carallocater, Construction (Const.), Construction (Const.), Const. (2 March 2012), Const.



ELEVATIONS







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M.



PLANNING REVIEW: REZONING



PLAN REVIEW CENTER REPORT

March 06, 2019 Planning Review Chick-Fil-A JZ 18-75 with Rezoning 18.729

PETITIONER

GPD Group

REVIEW TYPE

Rezoning Request from Regional Center (RC) to Regional Center with a Planned Development 2 Options (PD-2)

PROPERTY CHARACTERISTICS

Section	14		
Site Location	22-14-100-50; 27750 Novi Road; north of I-96, east of Novi Road		
Site School District	Novi Community School District		
Current Zoning	Regional Center(RC)		
Proposed Zoning	RC with a PD-2 Option (Planned Development)		
Adjoining Zoning	North	RC	
	East	RC	
	West	RC	
	South	TC across I-96	
Current Site Use	Vacant building and unused parking lot (Old Denny's restaurant)		
Adjoining Uses	North	Sit-down restaurant	
	East	Twelve Oaks Mall	
	West	West Oaks Mall	
	South	Novi Town Center	
Site Size	1.40 acres		
Plan Date	February 06, 2019		

PROJECT SUMMARY

The petitioner is requesting a Zoning Map amendment for 1.40 acres of property located at the south east corner of Novi Road and Twelve Oaks Drive (Section 15) from Regional Center(RC) to Regional Center with a Planned Development 2 Options (PD-2). The applicant states that the rezoning request is necessary for a possible restaurant with a drive-thru, which could be considered as a Special Land Use under RC with a PD-2 Overlay once the rezoning is approved.

MASTER PLAN FOR LAND USE

The Future Land Use Map of the 2016 City of Novi Master Plan for Land Use identifies this property as Gateway East. The proposal would address the general goal for "Economic Development" listed in Master Plan for Land Use by fulfilling the following objective:

- 1. <u>Objective:</u> Retain and support the growth of existing businesses and attract new businesses to the City of Novi.
- 2. <u>Objective:</u> I-96/Novi Road Study Area. Develop the I-96/Novi Road Study Area in a manner that reflects the importance of this important gateway to the City in terms of its location, visibility, and economic generation. Mitigate impacts to the City's infrastructure. (See page 125)

DEVELOPMENT POTENTIAL

The property is currently zoned Regional Centerl. Existing building is considered a legal nonconforming structure and the parking lot does not meet the minimum Ordinance requirements for setbacks. Section 7.1.4. of our Zoning Ordinance restricts the redevelopment and/or alteration of non-conforming structures. The proposed redevelopment is required to conform to the Ordinance standards and is not allowed to follow the non-conforming setbacks.

Regional Center allows a variety of uses; however has a minimum building setback requirement for 100 feet for all yards. Community Development had couple of concept meetings with other developers and it is our understanding that the site size coupled with RC development standards could limit the redevelopment potential.

The applicant is proposing to redevelop the site using PD-2 option which provides a greater flexibility for redevelopment. RC does not allow a drive-thru. Rezoning to PD-2 would allow a drive-thru at that location. The applicant states that the proposed development will fit with the surrounding mall development and is similar to MC Donald's drive-thru nearby.

COMPATIBILITY WITH SURROUNDING LAND USE

The following table summarizes the zoning and land use status for the subject property and surrounding properties.



As you can see from the aerial image from Google, the subject property is surrounded by existing uses that are well established. The chances for redevelopment are less. The current zoning and proposed zoning allow similar uses, which will result in similar use even when redeveloped.

Developments south of I-96 are zoned Town Center, which are intended to promote the development of a pedestrian accessible, commercial service district.

Developments north of I-96 zoned Regional Center which includes the subject property are intended to permit major planned commercial centers that will, by virtue of their size, serve not only the local community, but the surrounding market area as well. As noted in our Zoning Ordinance, the PD-2 Planned Development Option is intended to permit the limited application of (i) more extensive commercial uses in a district otherwise restricted to community and regional oriented shopping centers or (ii) transitional uses on the periphery of regional oriented shopping centers.

		Master Plan Land		
	Existing Zoning	Use Designation	Existing Land Use	
Subject Property	Regional	Regional	Vacant building and	
	Center	Commercial	parking lot	
Northern Parcels	Regional	Regional		
(across Twelve Oaks Mall Drive)	Center	Commercial	Red Lobster Restaurant	
Eastern Parcels	Regional Center	Regional Commercial	Laz-A-Boy furniture store	
Western Parcels	Regional	Regional	Carabba's Italian Grill	
(across Novi Road)	Center	Commercial	Restaurant	
Southern Parcels (across I-96 ROW)	Town Center	Town Center	Novi Town Center shopping center	

Land Use and Zoning: For Subject Property and Adjacent Properties

The surrounding land uses are shown in the above chart. The compatibility of the proposed rezoning with the zoning and uses on the adjacent properties should be considered by the Planning Commission in making the recommendation to City Council on the rezoning request.



Future Land Use



COMPARISON OF ZONING DISTRICTS

Related sections of the zoning Ordinance that pertain to the existing zoning and proposed zoning are attached to this review letter for reference.

The PD Planned Development Options contained herein are intended to provide for alternative means of land use development within designated zoning districts. The options contained herein shall be considered only within those areas of the City which are specifically designated for their application on the City's Master Plan for Land Use Map.

The subject property is currently not designated as PD-2 in the Land Use Map. However this is located in close proximity to the properties to the west across Novi Road and properties along Twelve Mile Road which are designated as PD-2. This is also located on the periphery of Twelve Oaks Mall similar to McDonalds drive-thru to the north.

	Regional Center (Existing)	Planned Development- PD-2 Option (Proposed)	
Principal Permitted Uses	See attached 3.1.24.	See attached Sec. 3.31.7.B	
Special Land Uses	See attached 3.1.24.	All uses under PD-2 are subject to Special land use standards	
Minimum Lot Size	Determined by off-street	Determined by off-street parking, loading, greenbelt screening, yard setback or usable open space requirements	
Minimum Lot Width	parking, loading, greenbelt screening, yard setback or usable open space		
	requirements	1.25 Acres for banquet halls, restaurants and other uses listed in 3.31.B.v.	
Building Height	45 ft. or 3 stories whichever is less	Same as RC	
Building Setbacks	Front: 100 feet Rear: 100 feet Side: 100 feet	Front: 50 feet Rear: 20 feet Side: 35 feet (total of two 70 ft.)	
Parking Setbacks	Front: 20 feet Rear: 10 feet Side: 10 feet	Front: 20 feet Rear: 10 feet Side: 10 feet	

Engineering

The Staff Engineer has reviewed the rezoning request and summarized that the requested rezoning to RC with a PD-2 will result in utility demands that are approximately equal to or less than the utility demand if the property were to be developed under the current zoning. The rezoning would have negligible impact on utility demands.

Traffic

The applicant requested to waive the requirement for a rezoning traffic study as many other traffic related studies are provided. The City's Traffic consultants reviewed the Traffic Impact Study provided by the applicant and indicated that the changes of the impacts for the proposed rezoning would be minimal especially considering the small size of the parcel. Most of the potential uses that could have a negative impact for the rezoning would not fit on such a small site. The impacts of the development are not anticipated to degrade levels of services beyond those under existing conditions during either the AM or PM peak periods. Refer to Traffic study review for more details.

JSP 18-75 CHICK-FIL-A Rezoning Review

Natural Features

The project site does not contain both City-Regulated Wetlands and Regulated Woodlands.

RECOMMENDATION

Approval of the **Rezoning is recommended** because

- The rezoning request fulfills one of the Master Plan for Land Use objectives by fostering a favorable business climate.
- The rezoning is a recommended land use will be consistent with the surrounding zoning and existing developments.
- The rezoning would increase development potential of the subject property.
- The rezoning provides a redevelopment opportunity for a challenging site in a visible location along I-96/Novi corridor.
- The rezoning will not have impact on public utilities.

Per Section 3.31.2.C, the Planning Commission may proceed simultaneously with review and recommendation on applications for rezoning, PD Option and preliminary site plan approval. Staff review for the proposed site plan under PD-2 option is provided in a separate letter.

NEXT STEP: MASTER PLANNING AND ZONING COMMITTEE (MPZ) MEETING

Proposed Rezoning is currently not supported by our 2016 Master Plan for Land use. A Master Planning and Zoning Committee meeting is scheduled for March 13, 2019 to gather their input.

PLANNING COMMISSION PUBLIC HEARING

If the MPZ Committee provides favorable input for the plans to move forward without requiring additional revisions, staff will schedule a public hearing for **April 17, 2019** meeting. Please provide the following no later than **April 1, 2019**.

1. A rezoning sign should be installed on site as shown on the approved sign location plan.

The following should be provided in response to site plan reviews that were provided under separate cover.

- 2. A response addressing comments from staff and consultants review letters.
- 3. Original site plan submittal in PDF format. No revisions made.
- 4. A Physical Façade sample board
- 5. Color renderings of the site or building, if available for presentation purposes

CITY COUNCIL MEETING

If the Planning Commission makes a favorable recommendation, the plan will be scheduled for next available City Council meeting, date to be determined.

If the applicant has any questions concerning the above review or the process in general, do not hesitate to contact me at 248.735.5607 or <u>skomaragiri@cityofnovi.org</u>.

Sri Ravali Komaragiri – Planner

ENGINEERING MEMO: REZONING
MEMORANDUM



TO:SRI KOMARAGIRI, PLANNERFROM:KATE RICHARDSON, PLAN REVIEW ENGINEERSUBJECT:REVIEW OF REZONING IMPACT ON PUBLIC UTILITIES
REZONING 18.729, CHICK-FIL-ADATE:MARCH 7, 2019

The Engineering Division has reviewed a rezoning request for the 1.40 acres located north of I-96 and east of Novi Road. The applicant is requesting to rezone parcel 22-14-100-50 from the existing zoning of Regional Commercial (RC) to Regional Commercial with a Planned Development 2 Options (PD-2). The Master Plan for Land Use indicates a future land use of Regional Commercial.

Utility Demands

A residential equivalency unit (REU) equates to the utility demand from one single family home. If the area were developed under the current zoning, demand on the utilities for the site would be 11.0 REUs per acre for Restaurants. Other acceptable uses under Regional Commercial zoning have lower REUs per acre, thus have less of an impact. The applicant intends to propose a restaurant with a drive-thru and a sit down option, as well as additional parking. This would have an approximate utility demand of 11.0 REUs per acre.

Water System

The site is located within the Intermediate Pressure District. Water service is currently available from an eight-inch water main that runs parallel to Novi Road. The proposed rezoning would have minimal impact on available capacity, pressure and flows in the City's water distribution system.

Sanitary Sewer

The site is located within the Hudson Sewer District. Sanitary service is available by connection to an existing six-inch sanitary sewer to the east of the property. The proposed rezoning is not anticipated to have an impact on the capacity of the downstream sanitary sewer within the City's infrastructure.

Summary

The requested rezoning will result in utility demands that are approximately equal to or less than the utility demand if the property were to be developed under the current zoning. The requested rezoning is not consistent with the future land use for this location. However, it is compatible with the surrounding land uses. Therefore, the rezoning would have negligible impact on utility demands.

cc: Ben Croy, P.E.; Water & Sewer Senior Manager Barb McBeth, AICP; City Planner George Melistas; Engineering Senior Manager Darcy Rechtien, P.E.; Construction Engineer

PLANNING REVIEW: SITE PLAN



PLAN REVIEW CENTER REPORT

March 06, 2019 Planning Review Chick-Fil-A JSP 18-75

PETITIONER GPD Group

REVIEW TYPE

Rezoning to PD-2, Preliminary and Final Site Plan

PROPERTY CHARACTERISTICS

Section	14				
Site Location	22-14-100	0-50; 27750 Novi Road; north of I-96, east of Novi Road			
Site School	Novi Co	mmunity School District			
Current Zoning	Regional	Center(RC)			
Proposed Zoning	RC with a	RC with a PD-2 Option (Planned Development)			
Adjoining Zoning	North RC				
	East	RC			
	West	RC			
	South	TC across I-96			
Current Site	Vacant &	puilding and unused parking lot (Old Denny's restaurant)			
	North	Sit-down restaurant			
	East	Twelve Oaks Mall			
Adjoining Uses	West	West Oaks Mall			
	South	Novi Town Center			
Site Size	1.40 acre	25			
Plan Date	February	06, 2019			

PROJECT SUMMARY

The applicant is proposing to demolish the existing vacant building (old Denny's restaurant) to develop a Chick-Fil-A Restaurant located the south east corner of Novi Road and Twelve Oaks Drive. The new restaurant will be approximately 4,990 square feet and the applicant will be utilizing the Planned Development 2 (PD-2) option. The proposed restaurant includes a drive-through and a play area inside the building. The restaurant proposes 114 indoor seating and 16 outdoor seating.

RECOMMENDATION

Provided the applicant can get the necessary waivers/findings from the Planning Commission/City Council, approval of the **Rezoning from RC to RC with a PD-2**, **Preliminary Site Plan with PD-2 option and Special Land Use Permit is recommended**.

In its recommendation to the City Council, the Planning Commission will also need to consider the standards for Special Land Use consideration as well as the standards of the site plan review section of the Planned Development option.

PROJECT HISTORY

A pre-application meeting for this project was conducted on January 10, 2019,

PLANNED DEVELOPMENT OPTION CONDITIONS

Section 3.31.4 of the ordinance outlines the review procedures for Preliminary Site Plans using the PD-2 Option. This requires the Preliminary Site Plan to receive a recommendation for approval or denial from the Planning Commission with City Council ultimately approving or denying the proposed plan. It also outlines specific factors the Planning Commission and City Council shall consider in the review:

- 1. The plan meets all the requirements of Section 6.1 of this Ordinance for Preliminary Site Plans and the requirements set forth in the City's Site Plan and Development Manual. The plan meets all the requirements except a couple minor deviations as noted in Landscape review letter, which staff recommends trying to minimize.
- 2. The plan satisfies the intent of the Special Land Use provisions as stated in Section 6.1.2.c. See the Special Land Use Considerations noted in this Plan Review Letter.
- 3. The Community Impact Statement and Traffic Study are provided, regardless of site size, in accordance with the requirements set forth in the City's Site Plan and Development Manual. The applicant has provided Community Impact Statement and Traffic Study as required.
- 4. The plan satisfies the intent of this Section with respect to use of the land and principal and accessory use relationships within the site as well as with uses on adjacent sites.
- 5. That all existing or proposed streets, road, utilities and marginal access service drives, as are required, are correctly located on the site plan in accordance with the approved plans for these improvements. See the attached Engineering and Traffic Review Letter for additional information.
- 6. The plan meets all the applicable standards of this Ordinance relative to height, bulk and area requirements, building setbacks, off-street parking and preliminary site engineering requirements. The plan is in general conformance with the code requirements. See the attached Plan Review Chart for additional information.
- 7. That there exists a reasonable harmonious relationship between the location of buildings on the site relative to buildings on lands in the surrounding area; that there is a reasonable architectural and functional compatibility between all structures on the site and structures within the surrounding area to assure proper relationships between:
 - a. The topography of the adjoining lands as well as that of the site itself including any significant natural or manmade features. No changes to existing site grading proposed
 - b. The relationship of one building to another whether on-site or on adjacent land, i.e., entrances, service areas and mechanical appurtenances. Additional information is requested with regards to at-grade transformer and rooftop equipment.
 - c. The rooftops of buildings that may lie below street levels or from windows of higher adjacent buildings.
 - d. Landscape plantings, off-street parking areas and service drives on adjacent lands. Landscape generally conforms to the requirements. See the Landscape Review Letter for additional information.
 - e. Compliance with street, road and public utility layouts approved for the area. See the Engineering and Traffic Review Letters for additional information.
 - f. The architecture of the proposed building including overall design and façade materials used. Architectural design and façade material are to be complimentary to existing or proposed buildings within the site and the surrounding area. It is not intended that contrasts in architectural design and use of façade materials is to be discouraged, but care shall be taken so that any such contrasts will not be so out of character with existing building designs and façade materials so as to create an adverse effect on the stability and value of the surrounding area. See the Façade Review Letter for additional information.

Section 3.31.4.B indicates the City Council shall review the proposed plan considering the Planning Commission's recommendation and the requirements of Section 3.31.4.A. As part of its approval of the Preliminary Site Plan, the Council is permitted to impose conditions that are reasonably related to the purposes of this section and that will:

- 1. Insure that public services and facilities affected by a proposed land use or activity will be capable of accommodating increased services and facility loads caused by the land use or activity;
- 2. Protect the natural environment and conserving natural resources and energy;
- 3. Insure compatibility with adjacent use of land; and
- 4. Promote the use of land in a socially and economically desirable manner.

SPECIAL LAND USE CONSIDERATIONS

When the PD-2 Option is utilized, all uses fall under the Special Land Use requirements. Section 6.1.2.C of the Zoning Ordinance outlines specific factors the Planning Commission shall consider in the review and recommendation to City Council of the Special Land Use Permit request:

- i. Whether, relative to other feasible uses of the site, the proposed use will cause any detrimental impact on existing thoroughfares in terms of overall volumes, capacity, safety, vehicular turning patterns, intersections, view obstructions, line of sight, ingress and egress, acceleration/deceleration lanes, off-street parking, off-street loading/unloading, travel times and thoroughfare level of service.
- ii. Whether, relative to other feasible uses of the site, the proposed use will cause any detrimental impact on the capabilities of public services and facilities, including water service, sanitary sewer service, storm water disposal and police and fire protection to service existing and planned uses in the area.
- iii. Whether, relative to other feasible uses of the site, the proposed use is compatible with the natural features and characteristics of the land, including existing woodlands, wetlands, watercourses and wildlife habitats.
- iv. Whether, relative to other feasible uses of the site, the proposed use is compatible with adjacent uses of land in terms of location, size, character, and impact on adjacent property or the surrounding neighborhood.
- Whether, relative to other feasible uses of the site, the proposed use is consistent with the goals, objectives and recommendations of the City's Master Plan for Land Use.
- vi. Whether, relative to other feasible uses of the site, the proposed use will promote the use of land in a socially and economically desirable manner.
- vii. Whether, relative to other feasible uses of the site, the proposed use is
 - a. Listed among the provision of uses requiring special land use review as set forth in the various zoning districts of this Ordinance, and
 - b. Is in harmony with the purposes and conforms to the applicable site design regulations of the zoning district in which it is located.

ORDINANCE REQUIREMENTS

This project was reviewed for conformance with the Zoning Ordinance with respect to Article 3 (Zoning Districts), Article 4 (Use Standards), Article 5 (Site Standards), and any other applicable provisions of the Zoning Ordinance. **Please see the attached chart for information pertaining to ordinance requirements.** Items in **bold** below must be addressed and incorporated as part of the Final Site Plan submittal:

1. <u>Rezoning to PD-2 Option:</u> The property is currently zoned Regional Center. Existing building is considered a legal non-conforming structure and the parking does not meet the Ordinance requirements. The proposed redevelopment is required to conform to the Ordinance standards and is not allowed to follow the non-conforming setbacks. As noted in the rezoning review, this would limit the development potential for the site. The applicant is proposing to redevelop the site using PD-2 option which provides a greater flexibility for redevelopment. The subject property should be rezoned from RC to RC with a PD-2 option. Per Section 3.31.2.C, the Planning

Commission may proceed simultaneously with review and recommendation on applications for rezoning, PD Option and preliminary site plan approval.

The rezoning request is reviewed under separate letter, which is attached to this review.

- 2. <u>Studies:</u> The applicant has submitted a Community Impact study, noise impact study, Traffic Impact study, Parking and Queuing study.
- 3. <u>Minimum Parking required (Sec. 5.2.12)</u>: Minimum parking required for a sit-down restaurant is calculated at the rate off 1 space for every 2 employees, 1 space for every 2 customers per maximum occupancy including waiting areas. A minimum of 100 spaces are required and 65 spaces are provided. Our Traffic consultant provided two recommendations as part of the parking study review.
 - a. The parking spaces on the north side of the site and the spillover area for the drive-thru queue could experience conflicts during high-volume periods. We recommend that the applicant consider allocating those spaces as planned employee parking, to prevent a high frequency of conflicts between customers exiting those spaces while others attempt to enter the drive-thru.
 - b. In instances when the demand for parking exceeds the available spaces, as the peak parked vehicles at the Grand Rapids location suggests can occur, customers will likely park in the adjacent La-Z-Boy Home Furnishings & Decor store parking lot. We recommend that the applicant pursue a shared parking agreement with this facility to alleviate issues with potential parking needs.
- 4. <u>Transformer Location:</u> There is a transformer indicated in the legend, but we are unable to find it on the plan. Please indicate the location, height and required screening to verify conformance
- 5. <u>Lighting and Photometric Plan:</u> Additional information is required for these items. Refer to chart for other minor comments.
 - a. **Security Lighting** (Sec. 5.7.3.H): Lighting for security purposes shall be directed only onto the area to be secured.
 - b. **Building Lighting** (Sec. 5.7.2.A.iii): Relevant building elevation drawings showing all fixtures, the portions of the walls to be illuminated, illuminance levels of walls and the aiming points of any remote fixtures.
- <u>Plan Review Chart:</u> Planning review chart provides additional comments and requests clarification for certain items. Please address them in addition to the comments provided in this letter.

DEVIATIONS FROM AREA, BULK, YARD, AND DIMENSIONAL REQUIREMENTS (SEC. 3.31.5.):

As part of approval of a Preliminary Site Plan, the City Council shall be authorized to grant deviations from the strict terms of the zoning ordinance governing area, bulk, yard, and dimensional requirements applicable to the property; provided, however, that such authorization to grant deviations shall be conditioned upon the Council finding:

- A. That each zoning ordinance provision from which a deviation is sought would, if the deviation were not granted, prohibit an enhancement of the development that would be in the public interest;
- B. That approving the proposed deviation would be compatible with the existing and planned uses in the surrounding area;
- C. That the proposed deviation would not be detrimental to the natural features and resources of the affected property and surrounding area, or would enhance or preserve such natural features and resources;
- D. That the proposed deviation would not be injurious to the safety or convenience of vehicular or pedestrian traffic; and

E. That the proposed deviation would not cause an adverse fiscal or financial impact on the City's ability to provide services and facilities to the property or to the public as a whole.

The current site plan would require the following deviations from Ordinance requirements. The applicant has provided reasonable justification in the response letter as noted by staff comments in **bold**.

- i. Deviation to waive the required Rezoning Traffic study as a Traffic Impact Study is submitted that addresses the traffic impacts. The changes of the impacts for the proposed rezoning would be minimal especially considering the small size of the parcel. Most of the potential uses that could have a negative impact for the rezoning would not fit on such a small site.
- *ii.* Deviation from Section 3.31.7.B.v.a, the use conditions for fast food drive-thru under PD-2 Option as listed under that requires a minimum distance of 1,000 feet between a proposed independently freestanding restaurant from any other such use on the same side of the street; There is an existing freestanding restaurant within 295 feet. It should be noted that the previous use for the current site was a free standing restaurant.
- iii. Deviation from Section 5.3.11.D that requires a bypass lane, minimum of 18 feet width. The applicant is providing an 11 foot by pass lane when two drive-thru lanes merge into one around the Northwest corner of the building. Fire has confirmed that it has access to all sides of the building and has no additional comments to the proposed layout. Traffic is in support of the layout based on the Queuing study findings.
- iv. Deviation from Section 3.31.7.D for not meeting the minimum building setback requirements for exterior side yard along I-96 (south west frontage). A minimum of 50 feet is required, 32 feet is provided. The applicant noted that there is a large area of green space at the corner of the site which pinches the site and restricts the building placement. Staff supports this deviation.
- v. Deviation from Section 3.31.7.D for not meeting the minimum parking setback requirements for Exterior side yard along Twelve Oaks Mall Road (North). A minimum of 20 feet is required, 14.5 feet is provided.
- vi. Deviation from Section 3.31.7.D for not meeting the minimum parking setback requirements for Exterior side yard along I-96 (Southwest). A minimum of 20 feet is required, 9.3 feet is provided. This deviation is requested to allow drive-thru lanes within the parking setback.
- vii. Deviation from Sec. 5.2.12.C to allow reduction of minimum required parking spaces for fast food restaurants. A minimum of 100 are required, 65 is provided. This deviation can be supported if the applicant can provide an agreement for shared parking/overflow parking on the adjacent property to the South.
- viii. Deviation from Section 5.4.1 for reduction of minimum required loading area. A minimum of 2,110 square feet is required and 360 square feet is provided._The applicant has provided truck turning diagrams for a dumpster truck, fire truck and the largest loading truck that accesses the site. Staff can support this deviation provided the loading and unloading times does not conflict with peak hour traffic
- ix. Deviation from Section 4.19.2.F for allowing a dumpster in the exterior side yard instead of required rear yard. Staff supports this deviation as the site has three street frontages limits the possibilities to conform.
- x. Deviation from Section 4.19.2.F for allowing a dumpster in the parking setback. A minimum of 20 feet is required and 12.1 feet is provided. **Staff can support this deviation provided the dumpster pick up times does not conflict with peak hour traffic.**
- xi. There are some other items noted in the Traffic review letter that would require deviations. However, staff recommends that the applicant revise the plan to conform.
- xii. Landscape deviation from Section 5.5.3.B.ii and iii for insufficient greenbelt width along I-96 frontage. **Supported by staff.**
- xiii. Landscape deviation from Section 5.5.3.B.ii and iii for lack of berm or wall along entire frontage. **Not supported by staff.**
- xiv. Landscape deviation from Section 5.5.3.B.ii and iii for deficiency in greenbelt plantings (sub canopy trees).

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Rezoning, Preliminary and Final Site Plan

- xv. Landscape deviation from Section 5.5.3.C.(3) Chart footnote for deficiency in perimeter parking lot canopy trees. 24 deciduous canopy trees are required. 13 canopy trees and 6 sub canopy trees are provided. Not supported by staff.
- xvi. Landscape deviation from Section 5.5.3.C. for deficiency in interior parking lot trees. 12 trees required, 9 trees provided. **Not supported by staff**
- xvii. Landscape deviation Section 5.5.3.C. for missing endcap island trees. Not supported by staff.
- xviii. Landscape deviation from Section 5.5.3.D. for providing less than 60% landscape along the façade facing road. Supported by staff.
- xix. Landscape deviation from Section 5.5.3.D. for proposing some of the required building foundation landscaping away from the building. **Supported by staff.**

OTHER REVIEWS

- a. <u>Engineering Review:</u> Engineering recommends approval of the Preliminary site plan, but requests a revised final site plan submittal.
- b. <u>Landscape Review</u>: Landscape recommends approval of the Preliminary site plan contingent on City Council approval of the deviations, but requests a revised final site plan submittal.
- c. <u>Traffic Review (03-04-19)</u>: Traffic recommends approval of the Preliminary site plan, but requests a revised final site plan submittal.
- d. Traffic Impact Study Review (03-04-19): Traffic recommends approval.
- e. Parking and Queueing Study 03-04-19: Traffic recommends approval.
- f. Facade Review (02-28-19): Façade recommends approval.
- g. Fire Review: Fire is recommends approval with conditions.

NEXT STEP: MASTER PLANNING AND ZONING COMMITTEE (MPZ) MEETING

Proposed Rezoning is currently not supported by our 2016 Master Plan for Land use. A Master Planning and Zoning Committee meeting is scheduled for March 13, 2019 to gather their input.

PLANNING COMMISSION PUBLIC HEARING

If the MPZ Committee provides favorable input for the plans to move forward without requiring additional revisions, staff will schedule a public hearing for **April 17, 2019** meeting. Please provide the following no later than **April 1, 2019**.

- 1. A rezoning sign should be installed on site as shown on the approved sign location plan.
- 2. A response addressing comments from staff and consultants review letters.
- 3. Original site plan submittal in PDF format. No revisions made.
- 4. A Physical Façade sample board
- 5. Color renderings of the site or building, if available for presentation purposes

CITY COUNCIL MEETING

If the Planning Commission makes a favorable recommendation, the plan will be scheduled for next available City Council meeting, date to be determined.

REVISED FINAL SITE PLAN SUBMITTAL

After receiving City Council approval, a revised submittal is required for final site plan approval. Engineering, Landscape and Traffic are currently not recommending approval for the final site plan. Fire does not recommend approval at this time. Please submit the following for reconsideration of final site plan approval.

- 1. Site plan revision application
- 2. Four copies of the revised drawings that addresses Engineering, Landscape and Traffic review comments
- 3. Response letter indicating how the comments are addressed

ELECTRONIC STAMPING SET SUBMITTAL AND RESPONSE LETTER

After receiving Final Site Plan approval, please submit the following for Electronic stamping set approval:

1. Plans addressing the comments in all of the staff and consultant review letters in PDF format.

2. Response letter addressing all comments in ALL letters and ALL charts and refer to sheet numbers where the change is reflected.

STAMPING SET APPROVAL

Stamping sets are still required for this project. After having received all of the review letters from City staff the applicant should make the appropriate changes on the plans and submit <u>10 size 24" x 36"</u> copies with original signature and original seals, to the Community Development Department for final Stamping Set approval.

STREET AND PROJECT NAME

Not Applicable

PRE-CONSTRUCTION MEETING

A Pre-Construction meeting is required for this project. Prior to the start of any work on the site, Pre-Construction (Pre-Con) meetings must be held with the applicant's contractor and the City's consulting engineer. Pre-Con meetings are generally held after Stamping Sets have been issued. No work on the site may be commenced before a pre-construction meeting is held. There are a variety of requirements, fees and permits that must be issued before a Pre-Con can be scheduled. If you have questions regarding the checklist or the Pre-Con itself, please contact Sarah Marchioni [248.347.0430 or smarchioni@cityofnovi.org] in the Community Development Department.

CHAPTER 26.5

Chapter 26.5 of the City of Novi Code of Ordinances generally requires all projects be completed within two years of the issuance of any starting permit. Please contact Sarah Marchioni at 248-347-0430 for additional information on starting permits. The applicant should review and be aware of the requirements of Chapter 26.5 before starting construction.

If the applicant has any questions concerning the above review or the process in general, do not hesitate to contact me at 248.735.5607 or <u>skomaragiri@cityofnovi.org</u>.

Sri Ravali Komaragiri – Planner



PLANNING REVIEW CHART: RC with PD-2 Option

Review Date:	January 10, 2019
Review Type:	Rezoning/Preliminary/Final Site Plan
Project Name:	JSP 18-75 Chick-Fil-A Drive-Thru
Plan Date:	March 06, 2019
Prepared by:	Sri Komaragiri, Planner E-mail: skomaragiri@cityofnovi.org; Phone: (248) 735-5607

Items in **Bold** need to be addressed by the applicant with next submittal. <u>Underlined</u> items need to be addressed on the Stamping set submittal. <u>Bold and Underline</u> are noted as possible deviations from the Ordinance requirements.

ltem	Required Code	Proposed	Meets Code	(Commonte
Zoning and Use Requir	ements			
Master Plan (adopted July 27, 2017)	Regional Commercial	PD-2: Planned Development	No	The application for rezoning shall be completed in accordance with the City's Site Plan and Development Manual. This would require Master Planning and Zoning Committee's input prior to Planning Commission's recommendation
Area Study	None		NA	
Zoning (Effective December 25, 2013)	RC: Regional Center	RC with PD-2 Option	Yes	
Uses Permitted (Sec 3.1.24.B & C)	Sec 3.1.24.B Principal Uses Permitted. Sec 3.1.24.C Special Land Uses	Fast food drive-thru Permitted per conditions listed in 3.31	Yes?	Subject to City Council approval upon Planning Commission's recommendation It requires a Special land use with a 15 day public hearing
Phasing	Provide phases lines and detail description of activities in each phase	Phasing not proposed	NA	

JSP 18-75 Chick-Fil-A

Preliminary/Final Site Plan: Planning Review Summary Chart

ltem	Required Code	Proposed	Meets Code	
Written Statement (Site Development Manual)	Potential development under the proposed zoning and current zoning	Not provided at this time	No	Provide the statement with the next submittal
The statement should describe the following				
Survey	Four copies of the engineering survey of the property to be rezoned	Provided	Yes	
Sign Location Plan (Page 23,SDM)	Per requirements listed in Site Plan Manual, Page 23 Installed within 15 days prior to public hearing Located along all road frontages	One is provided	No	Provide the proposed wording and font size for the sign. Refer to page 23 of site plan manual
Rezoning Traffic Impact Study (Site development manual)	A Rezoning Traffic Impact Study as required by the City of Novi Site Plan and Development Manual. Refer to Chapter 5	The applicant is currently working on the study	No	A Rezoning Traffic study is waived as other related Traffic studies were submitted
Community Impact Statement (Sec. 2.2)	 Over 30 acres for permitted non-residential projects Over 10 acres in size for a special land use All residential projects with more than 150 units A mixed-use development, staff shall determine 	Required for PD-2 Option	No	Hours of operation Expected annual police and fire responses
Planned Development	Site Plan Submittal Requirement	ls (Sec. 3.31.4.A)		
Special Land Use (Sec. 3.31.4.A.ii)	Special Land use requirements listed in Sec. 6.1.2.C.	To be determined at the time of site plan review	Yes?	This would require a 15 day public hearing notice
Community Impact Statement (Sec. 3.31.4.A.iii)	Required according to site plan manual	Provided	Yes?	See above for comments
Traffic Study (Sec. 3.31.4.A.iii)	Required according to site plan manual	The applicant is currently working on the study	No	A Rezoning Traffic study is waived as other related Traffic studies were submitted

ltem	Required Code	Proposed	Meets Code	Comments
Planning Commission Findings for Site plan review (Sec. 3.31.4.A)	The proposed site plan meets the intent of other items listed in Section	To be determined	TBD	
Use Conditions for Allo	wable uses under PD-2 Option (Sec. 3.31.7.B)		
Fast food drive-thru (Sec. 3.31.7.B.v.a)	When restaurants are independently freestanding uses and not attached to or otherwise clearly accessory to a principle use, they shall be located no closer than one- thousand (1,000) feet from any other such use on the same side of the street	Red Lobster appears to be within 2,95 feet	No	<u>This is considered a</u> <u>deviation. The existing</u> <u>use is also restaurant.</u>
Minimum parcel size (Sec. 3.31.7.B.v.b)	1.25 acres.	1.397 Acres	Yes	
Traffic Circulation (Sec. 3.31.7.B.v.c)	The site plan shall be designed to achieve traffic circulation features both within the site and in relation to access streets that assure safety and convenience of both vehicular and pedestrian traffic.	Traffic has noted some concerns in their review	Yes?	Refer to Traffic review for additional comments
Restaurant in the Char (Sec. 4.40.)	acter of a Fast Food Carryout, D	rive-In, Fast Food Drive-T	hrough	n, or Fast Food Sit Down
Noise Impact Statement (Sec. 4.40.1)	A noise impact statement is required subject to the standards of Sec. 5.14.10.B.	A noise impact study is provided	Yes	Study addresses all possible noise impacts and the noise levels are kept under Ordinance maximum.
Drive-through Lanes (S	ec. 5.3.11)			
Drive-through Lanes Separation (Sec. 5.3.11.A,C)	Drive-through lanes shall be separate from the circulation routes & lanes necessary for ingress to & egress from the property	They are separated.	Yes	Refer to Traffic Review for further comments.
Drive-through setbacks (Sec. 5.3.11.A,B)	Drive through shall follow parking setback requirements and applicable parking lot landscaping requirements	Drive-through conforms to the parking setbacks	Yes	

Item	Required Code	Proposed	Meets Code	Comments
Bypass Lane for Drive-through (Sec. 5.3.11.D)	Drive-through facilities shall provide 1 bypass lane, min. of 18 ft. in width, unless otherwise determined by the Fire Marshal	A partial by-pass lane is provided	No?	This is considered a deviation. Refer to Fire and Traffic comments. Notes from Traffic- Insert here
Width & Centerline Radius of Drive- through Lanes (Sec. 5.3.11.E,F,H)	Drive-through lanes shall have a minimum 9 ft. width, centerline radius of 25 ft. and a minimum length of 19 ft.	Complies	Yes	Per Traffic review
Drive-Thru Stacking Spaces (Sec. 5.3.11.1)	The distance between the order board and the pick-up window shall store four (4) vehicles, and four (4) vehicles shall be stored in advance of the menu board (not including the vehicles at the pick-up window and menu board).	Minimum stacking as required by code is proposed	Yes	Overflow queuing may conflict with parking spaces. Traffic recommends considering allocating those spaces as planned employee parking.
Drive-through Lane Delineated (Sec. 5.3.11.G)	Drive-through lanes shall be striped, marked, or otherwise delineated	Delineated with striping	Yes	
Height, bulk, density o	nd area limitations (Sec 3.1.23.D)	- 3	
Frontage on a Public Street (Sec. 5.12) Access To Major Thoroughfare (Sec. 5.12)	Frontage on a Public Street is required.	The site has frontage and access to Novi Road	Yes	
Minimum Zoning Lot Size for each Unit in Acres (Sec 3.6.2.D)	Except where otherwise provided in this Ordinance, the minimum lot area and width, and the maximum percent of lot coverage shall		NA	
Minimum Zoning Lot Size for each Unit: Width in Feet (Sec 3.6.2.D)	be determined on the basis of off-street parking, loading, greenbelt screening, yard setback, or usable open space.		NA	
Open Space Area				
Maximum % of Lot Area Covered	(Sec 3.6.2.D)	8.2% 4,480 SF building	Yes	

ltem	Required Code	Proposed	Meets Code	Comments
(By All Buildings)		60,853 SF lot		
Building Height (Sec. 3.20)	45 ft. or 3 stories whichever is less	21'-8" single story	Yes	
Outdoor Restaurants ((Sec. 4.84)		1.1	
Accessory Use (Sec. 4.84)	Outdoor seating as an accessory use is allowed per section 4.84.	Outdoor seating for 16 people is proposed.	Yes	
Site Plan Review (Sec. 4.84.1)	If the seating area is proposed as part of a site plan application it shall require site plan review and approval by the Planning Commission	The seating will be reviewed along with the current site plan	Yes	
Building and fire codes (Sec. 4.84.1)	Outdoor seating areas shall also comply with all applicable building and fire codes	Will be reviewed with Outdoor seating permit	NA	
Timings (Sec. 4.84.2)	Permitted between March 1 st and November 30 th .	Note added to plan	Yes	
Pathway (Sec. 4.84.4)	Outdoor seating areas shall be located in a manner to maintain a minimum pathway width of six (6) feet (clear of structures such as light poles, trees and hydrants) along the sidewalk	6 feet clear space appears to be provided	Yes?	Barb, no 6 feet clear space???
Enclosure (Sec. 4.84.4)	It shall be enclosed where there is alcohol service.	Alcohol is not served at this location	NA	
Location (Sec. 4.84.5)	If located in public, ROW, then approval from all related agencies is required. Additional requirements may apply.	It is not located in Public-Right of way	NA	
Parking (Sec. 4.84.6)	For more than 20 seating, parking shall be calculated.	Additional parking not required; Outdoor seating for 16 people is proposed	NA	
Hours of Operation (Sec. 4.84.7)	Hours of operation same as inside restaurant.	Indicate hours of operation	Yes	
Building Setbacks (Se	c 3.31.7.D)			
Front @ Novi Road (West)	50 ft.	Conforms	Yes	This is considered a deviation, subject to
Exterior side yard @ Twelve Oaks Mall Road (North)	50 ft.	Appears to conform	Yes?	City Council approval

JSP 18-75 Chick-Fil-A Preliminary/Final Site Plan: Planning Review Summary Chart

ltem	Required Code	Proposed	Meets Code	Comments
Exterior side yard @ - 96 (South west)	50 ft.	32 ft.	No	
Exterior side yard @ I- 96 (South)	50 ft.	Conforms	Yes	
Rear (East)	35 ft.	Conforms	Yes	
Parking Setback (Sec	3.31.7.D)			
Front @ Novi Road (West)	20 ft.	Conforms	Yes	This is considered a deviation, subject to
Exterior side yard @ Twelve Oaks Mall Road (North)	20 ft.	14.5 ft	No	<u>City Council approval.</u>
(South west)	20 ft.	9.3 ft Drive-thru lanes are in the minimum parking setback	NO	
Exterior side yard @ I- 96 (South)	20 ft.	12.1 ft. Dumpster is within Parking setbacks	No	
Rear (East)	10 ft.	6 ft.	No	
Note To District Standa	rds for RC district(Sec 3.6.2)	and the second second	SY P	a nazi sainiya na
Exterior Side Yard Abutting a Street (Sec 3.6.2.C)	All exterior side yards abutting a street shall be provided with a setback equal to front yard.	Does not comply. See proposed setbacks in the previous section	No	
Off-Street Parking in Front Yard (Sec 3.6.2.E)	Off-street parking is allowed in front yard.	Mostly proposed in rear yard	Yes	
Distance between buildings (Sec 3.6.2.H)	It is governed by sec. 3.8.2 or by the minimum setback requirements, whichever is greater.	One building	NA	
Wetland/Watercourse Setback (Sec 3.6.2.M)	A setback of 25ft from wetlands and from high watermark course shall be maintained.	No wetlands on site	NA	
Additional Building height (Sec 3.6.2.0)	Additional height up to 65 ft. may be allowed for properties within 1200 ft. from a freeway subject to additional conditions	Not applicable	NA	

ltem	Required Code	Proposed	Meets Code	Comments
Parking setback screening (Sec 3.6.2.P)	Required parking setback area shall be landscaped per sec 5.5.3.	A landscape plan is provided.	Yes	Please refer to Landscape Review for additional information
Modification of parking setback requirements (Sec 3.6.2.Q)	The Planning Commission may modify parking setback requirements based on its determination according to Sec 3.6.2.Q.	Parking setbacks do not conform to the minimum required. There is not additional compensatory green space proposed	No	
Parking, Loading and	Dumpster Requirements			
Number of Parking Spaces Sec. 5.2.12.C	Fast Food Restaurants 1 for 2 employees, plus 1 for every 2 customers allowed under maximum capacity (including waiting areas)	15 Employees 184 Maximum Occupancy No parking for outdoor seating (less than 20) Total Required: 8 + 92 = 100 Total Provided: 65	No	This is considered a deviationBased on parking study provided, it appears that a shared parking agreement with Lazyboy parking lot is warranted.
Parking Space Dimensions and Maneuvering Lanes	90° spaces: 9 ft. x 19 ft. parking spaces with 24 ft. drives	9 ft. x 19 ft. parking spaces with 24 ft. drives	Yes	
(Sec. 5.3.2)	<u>60° spaces:</u> 9 ft. x 18 ft. parking spaces with 18 ft. one-way drives	9 ft. x 18 ft. parking spaces with 18 ft. one- way drives		
	9 ft. x 17 ft. parking spaces along 7 ft. interior sidewalks, provided a 4 in. curb at these locations & along landscaping	9 ft. x 17 ft. parking spaces with 24 ft. drives		
Parking stall located adjacent to a parking lot entrance(public or private) (Sec. 5.3.13)	 shall not be located closer than twenty-five (25) feet from the street right-of-way (ROW) line, street easement or sidewalk, whichever is closer 	Not Applicable	NA	
End Islands (Sec. 5.3.12)	 End Islands with landscaping and raised curbs are required at the end of all parking bays that abut traffic circulation aisles. The end islands shall generally be at least 8 feet wide, have an outside radius of 15 feet, and be constructed 3' shorter than 	End islands do not conform to code.	No	Check Traffic Review to confirm end islands meet code requirements.

ltem	Required Code	Proposed	Meets Code	Comments
	the adjacent parking stall as illustrated in the Zoning Ordinance			
Barrier Free Spaces Barrier Free Code	For 51 to 75 spaces, 3 BF spaces are required	Three provided	Yes	
Barrier Free Space Dimensions Barrier Free Code	 8' wide with an 8' wide access aisle for van accessible spaces 5' wide with a 5' wide access aisle for regular accessible spaces 	2 van accessible and 1 car accessible spaces proposed	Yes	
Barrier Free Signs Barrier Free Code	One sign for each accessible parking space.	Provided	Yes	
Minimum number of Bicycle Parking (Sec. 5.16.1)	Four (4) spaces	Bike racks proposed	Yes?	Indicate number of bike spaces under parking data
Bicycle Parking General requirements	No farther than 120 ft. from the entrance being served	Yes	Yes	
(Sec. 5.16)	When 4 or more spaces are required for a building with multiple entrances, the spaces shall be provided in multiple locations	It appears that 4 spaces are proposed		
	Spaces to be paved and the bike rack shall be inverted "U" design Shall be accessible via 6 ft. paved sidewalk	Inverted U rack design proposed		
Bicycle Parking Lot layout (Sec 5.16.6)	Parking space width: 6 ft. One tier width: 10 ft. Two tier width: 16 ft. Maneuvering lane width: 4 ft. Parking space depth: 2 ft. single, 2 ½ ft. double	None shown at this time	NO?	
Loading Spaces Sec. 5.4.1	 Within the OS districts, loading space shall be provided in the rear yard or in the case of a double frontage lot, in the interior side yard, In the ratio of five (5) square feet per front foot of building up to a total area of three-hundred sixty (360) square feet per building. 	360 SF of loading spaces proposed 2,110 Sf of loading space required		The applicant has provided truck turning diagrams for a dumpster truck, fire truck and the largest loading truck that accesses the site. <u>Staff can support this</u> <u>deviation provided the</u> <u>loading and unloading</u> times does not conflict

JSP 18-75 Chick-Fil-A

Preliminary/Final Site Plan: Planning Review Summary Chart

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Item	Required Code	Proposed	Meets Code	Comments
				with peak hour traffic
Dumpster Sec 4.19.2.F	 Located in rear yard Attached to the building or No closer than 10 ft. from building if not attached Not located in parking setback If no setback, then it cannot be any closer than 10 ft., from property line. Away from Barrier free spaces 	Two dumpsters located in exterior side yard Away from the building Located within the 20 feet parking setback	No	A deviation for location and not meeting the minimum setback requirements is required. Staff can support this deviation provided the dumpster pick up times does not conflict with peak hour traffic
Dumpster Enclosure Sec. 21-145. (c) Chapter 21 of City Code of Ordinances	 Screened from public view A wall or fence 1 ft. higher than height of refuse bin And no less than 5 ft. on three sides Posts or bumpers to protect the screening Hard surface pad. Screening Materials: Masonry, wood or evergreen shrubbery 	Elevations provided Full compliance	Yes	Refer to Façade review for more details
Accessory Structures Sec. 4.19	One flagpole is proposed	It is located at a convenient distance from all public ROW's.	Yes	There is a transformer indicated in the legend, but we are unable to find it on the plan. Please indicate the location, height and required screening to verify conformance
Exterior lighting Sec. 5.7	Photometric plan and exterior lighting details needed at time of Final Site Plan submittal.	A lighting plan is provided at this time	Yes?	Refer to more comments about lighting on from Page 11
Roof top equipment and wall mounted utility equipment Sec. 4.19.2.E.ii	- All roof top equipment must be screened and all wall mounted utility equipment must be enclosed and integrated into the design and color of the building.	Not indicated on the plans. Noise impact statement refers to the roof top equipment	No	Refer to Façade review for more details

Item	Required Code	Proposed	Meets Code	Comments
Roof top appurtenances screening	Roof top appurtenances shall be screened in accordance with applicable facade regulations, and shall not be visible from any street, road, or adjacent property.			
Non-Motorized Facilit	ies			
Article XI. Off-Road Non-Motorized Facilities	A 6 foot sidewalk is required along collector and arterial roads Building exits must be connected to sidewalk system or parking lot.	A six foot concrete sidewalk is proposed along Novi Road	Yes	
Pedestrian Connectivity	Assure safety and convenience of both vehicular and pedestrian traffic both within the site and in relation to access streets	A sidewalk connection from building to proposed public sidewalk is proposed	Yes	
Other Requirements				
Design and Construction Standards Manual	Land description, Sidwell number (metes and bounds for acreage parcel, lot number(s), Liber, and page for subdivisions).	Provided	Yes	
General layout and dimension of proposed physical improvements	Location of all existing and proposed buildings, proposed building heights, building layouts, (floor area in square feet), location of proposed parking and parking layout, streets and drives, and indicate square footage of pavement area (indicate public or private).	Mostly provided	Yes?	Refer to all review for additional information requested
Economic Impact	 Total cost of the proposed building & site improvements Number of anticipated jobs created (during construction & after building is occupied, if known) 	Building Cost: \$900,000 65-95 new jobs (part time and full time employees 75-85 construction jobs	Yes	
Development/ Business Sign &	- Signage if proposed requires a permit.	Signage information included, but not	NA	Business signage information has been

JSP 18-75 Chick-Fil-A Preliminary/Final Site Plan: Planning Review Summary Chart

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ltem	Required Code	Proposed	Meets Code	I Commonte
Street addressing	- The applicant should contact the Building Division for an address prior to applying for a building permit.	reviewed at this time Two wall signs and one monument signs are allowed. The applicant is proposing four wall signs.		forwarded to Ordinance Department. A formal sign permit application is required for a complete review. Please contact Ordinance department at 248-735-5678 for more details
Project and Street naming	Some projects may need approval from the Street and Project Naming Committee.	Not applicable	NA	
Property Split	The proposed property split must be submitted to the Assessing Department for approval.	No property splits proposed.	NA	
Lighting and Photome	etric Plan (Sec. 5.7)			
Intent (Sec. 5.7.1)	Establish appropriate minimum levels, prevent unnecessary glare, reduce spillover onto adjacent properties, & reduce unnecessary transmission of light into the night sky.	A lighting plan is provided	Yes	
	Site plan showing location of all existing & proposed buildings, landscaping, streets, drives, parking areas & exterior lighting fixtures.			
Security Lighting (Sec. 5.7.3.H) Lighting for security purposes shall be directed only onto the area to be secured.	 All fixtures shall be located, shielded, and aimed at the areas to be secured. Fixtures mounted on the building and designed to illuminate the facade are preferred. 	Unable to determine	NO?	Please indicate hours of operation and the lights which will be turned off after hours for security pruposes
Building Lighting (Sec. 5.7.2.A.iii)	Relevant building elevation drawings showing all fixtures, the portions of the walls to be illuminated, illuminance levels of walls and the aiming points of any remote fixtures.	Not provided	No	Provide photometrics on building
Lighting Plan (Sec.5.7.A.2)	Specifications for all proposed & existing lighting fixtures.	Provided	Yes	

JSP 18-75 Chick-Fil-A Preliminary/Final Site Plan: Planning Review Summary Chart

ltem	Required Code	Proposed	Meets Code	Comments
	Photometric data	Provided	Yes	
	Fixture height	25 feet	Yes	
	Mounting & design	Provided	Yes	
	Glare control devices	Full-cut off	Yes	
	Type & color rendition of lamps	LED	Yes	
	Hours of operation	Not indicated	No	
	Photometric plan illustrating all light sources that impact the subject site, including spill- over information from neighboring properties.			
Maximum Height (Sec. 5.7.3.A)	Height not to exceed maximum height of zoning district (or 25 ft. where adjacent to residential districts or uses.	25 feet	Yes	Note says unless otherwise determined for height. Please confirm the height
Standard Notes (Sec. 5.7.3.B)	 Electrical service to light fixtures shall be placed underground Flashing light shall not be permitted Only necessary lighting for security purposes & limited operations shall be permitted after a site's hours of operation 			
Average Light level ratio (Sec.5.7.3.E)	Average light level of the surface being lit to the lowest light of the surface being lit shall not exceed 4:1.	2.7:1	Yes	
Type of lamps (Sec. 5.7.3.F)	Use of true color rendering lamps such as metal halide is preferred over high & low pressure sodium lamps.	LED	Yes	
Min. Illumination (Sec. 5.7.3.k)	Parking areas: 0.2 min	Meets the minimum	Yes	
	Loading & unloading areas: 0.4 min			
	Walkways: 0.2 min			
	Building entrances, frequent use: 1.0 min			
	Building entrances, infrequent			

ltem	Required Code	Proposed	Meets Code	Comments
	use: 0.2 min			
Max. Illumination adjacent to Non- Residential (Sec. 5.7.3.K)	When site abuts a non- residential district: - Maximum illumination at the property line shall not exceed 1 foot candle.	Less than 1 fc		
Cut off Angles (Sec. 5.7.3.L)	 When adjacent to residential districts: All cut off angles of fixtures must be 90°. Maximum illumination at the property line shall not exceed 0.5 foot candle. 	Does not abut residential	NA	

NOTES:

1. This table is a working summary chart and not intended to substitute for any Ordinance or City of Novi requirements or standards.

2. The section of the applicable ordinance or standard is indicated in parenthesis. Please refer to those sections in Article 3, 4 and 5 of the zoning ordinance for further details

3. Please include a written response to any points requiring clarification or for any corresponding site plan modifications to the City of Novi Planning Department with future submittals.

ENGINEERING REVIEW



PLAN REVIEW CENTER REPORT

March 8, 2019

Engineering Review

Chick-Fil-A JSP18-0075

<u>Applicant</u>

Novi Real Estate Group, LLC

<u>Review Type</u>

Combined Preliminary and Final Site Plan

Property Characteristics

- Site Location: East of Novi Road, North of I-96
- Site Size: acres
- Plan Date: 02/06/2019
- Design Engineer: GPD Group

Project Summary

- Construction of an approximately 4,840 square-foot fast food restaurant and associated parking. Site access would be provided via two private entrances on Twelve Oaks Mall Road.
- Water service would be provided by an 8-inch extension from the existing 8-inch water main along the east side of Novi Road. A 2-inch domestic lead and a 6-inch fire lead would be provided to serve the building, along with an additional hydrant.
- Sanitary sewer service would be provided by a 6-inch extension from the existing 6inch sanitary sewer east of the development.
- Storm water would be collected by a single storm sewer collection system and discharged to a regional detention basin.

Recommendation

Approval of the Preliminary Site Plan is recommended and approval of the final site plan is <u>not</u> recommended.

Engineering Review of Preliminary/Final Site Plan

Chick-Fil-A JSP18-0075

Comments:

The Preliminary Site Plan meets the general requirements of Chapter 11 of the Code of Ordinances, the Storm Water Management Ordinance and the Engineering Design Manual with the following exceptions, which can be addressed at revised Final Site Plan submittal:

General

- 1. Provide a minimum of two ties to established section or quarter section corners.
- 2. Revise the plan set to reference at least **one City established benchmark**. An interactive map of the City's established survey benchmarks can be found under the 'Map Gallery' tab on <u>www.cityofnovi.org</u>. (The two closest benchmarks are 1522 and NOVI 8 according to the map.)
- 3. Provide a note on the plans that all work shall conform to the current City of Novi standards and specifications.
- 4. Provide the City's standard detail sheets for water main (5 sheets-rev. 02/16/2018), sanitary sewer (3 sheets- rev. 02/16/2018), storm sewer (2 sheetsrev. 02/16/2018), and paving (2 sheets-rev. 03/05/2018) at the time of the printed Stamping Set submittal. These details can be found on the City's website at this location: <u>http://cityofnovi.org/Government/City-Services/Public-Services/Engineering-Division/Engineering-Standards-and-Construction-Details.aspx</u>
- 5. An updated Non-domestic User Survey form shall be submitted to the City so it can be forwarded to Oakland County.
- 6. Provide a traffic control sign table listing the quantities of each sign type proposed for the development. Provide a note along with the table stating all traffic signage will comply with the current MMUTCD standards.
 - a. Traffic signs in the RCOC right-of-way will be installed by RCOC.
- 7. Provide a note that compacted sand backfill (MDOT sand class 2) shall be provided for all utilities within the influence of paved areas, and illustrate on the profiles.
- 8. Provide a construction materials table on a Utility Plan listing the quantity and material type for each utility (water, sanitary and storm) being proposed.
- 9. Provide a utility crossing table indicating that at least 18-inch vertical clearance will be provided, or that additional bedding measures will be utilized at points of conflict where adequate clearance cannot be maintained.
- 10. Provide a note stating if dewatering is anticipated or encountered during construction a dewatering plan must be submitted to the Engineering Division for review.
- 11. Show the locations of all light poles and label them on the utility plan.

Engineering Review of Preliminary/Final Site Plan

Chick-Fil-A JSP18-0075

<u>Water Main</u>

- 12. Provide a profile for all proposed water main 8-inch and larger.
- 13. Provide a separate domestic lead and 6-inch fire lead for the building with a unique **shut-off valve** for each. Shut off valves must be located at the main within water main easement.
- 14. Thrust blocks are general not allowed as method of restraint, unless found necessary.
- 15. Relocation of the water main as shown will require coordination with impacted adjacent City water connections. Contact the Engineering department for further coordination.
- 16. Three (3) sealed sets of revised utility plans along with the MDEQ permit application (06/12 rev.) for water main construction and the Streamlined Water Main Permit Checklist should be submitted to the Engineering Division for review, assuming no further design changes are anticipated. Utility plan sets shall include **only** the cover sheet, any applicable utility sheets, and the standard detail sheets.

Sanitary Sewer

- 17. Provide a sanitary sewer basis of design for the development on the utility plan sheet. The City's Sewer Unit Factor Chart is attached.
- 18. Note on the construction materials table that 6-inch sanitary leads shall be a minimum SDR 23.5, and mains shall be SDR 26.
- 19. Provide a note on the Utility Plan that sanitary leads will be buried at least 5 feet deep where under the influence of pavement.
- 20. Illustrate all pipes intersecting with manholes on the sanitary profiles.

Storm Sewer

- 21. Label all inlet storm structures on the profiles. Inlets are only permitted in paved areas and when followed by a catch basin within 50 feet.
- 22. Label the 10-year HGL on the storm sewer profiles, and ensure the HGL remains at least 1-foot below the rim of each structure.
- 23. Illustrate all pipes intersecting storm structures on the storm profiles.
- 24. Provide a schedule listing the casting type and other relevant information for each proposed storm structure on the utility plan. Round castings shall be provided on all catch basins except curb inlet structures.

Storm Water Management Plan

- 25. The Storm Water Management Plan for this development shall be designed in accordance with the Storm Water Ordinance and Chapter 5 of the new Engineering Design Manual.
- 26. On a sheet or sheets titled "Storm Water Management Plan" (SWMP), provide supporting calculations for the runoff coefficient determination in each drainage area. Include a map showing how the parcel was divided up into individual drainage areas.

Engineering Review of Preliminary/Final Site Plan Chick-Fil-A

- 27. A runoff coefficient of 0.35 shall be used for all turf grass lawns (mowed lawns) and 0.95 for pavement and roofs.
- 28. Provide a 20-foot wide access easement for maintenance over the pretreatment structure.

Paving & Grading

- 29. Detectable warning plates are required at all barrier free ramps, hazardous vehicular crossings and other areas where the sidewalk is flush with the adjacent drive or parking pavement. The barrier-free ramps shall comply with current MDOT specifications for ADA Sidewalk Ramps. Provide the latest version of the MDOT standard detail for detectable surfaces.
- 30. Provide a note on the Grading Plan stating that the proposed pathway within the road right-of-way shall match existing grades at both ends. Proposed sidewalk should terminate where it provides connectivity to the site, rather than including a stub to the south.
- 31. 6-inch curb height must be provided at all drive aisles and 19-foot parking spaces. Revise grading accordingly.
- 32. The transition from 4-inch to 6-inch curb should occur along the length of 17foot parking space. Revise notes and grading accordingly.
- 33. Provide at least 3-foot of buffer distance between the sidewalk and any fixed objects, including hydrants. Include a note on the plan where the 3-foot separation cannot be provided.
- 34. The City standard straight-faced curb (MDOT F-4 curb detail) shall be provided. Revise details accordingly.
- 35. Provide a line designation representing the effective 19-foot stall length for 17-foot perimeter stalls.
- 36. Provide City Standard Paving Details and remove any conflicting information.
- 37. The end islands shall conform to the City standard island design, or variations of the standard design, while still conforming to the standards given in Section 2506 of Appendix A of the Zoning ordinance (i.e. 2' minor radius, 15' major radius, minimum 8' wide, 3' shorter than adjacent 19' stall).
- 38. Revise plans to ensure all end islands are 3 feet shorter than adjacent parking spaces.

Soil Erosion and Sediment Control

39. A SESC permit is required. A full review has not been completed at this time. The review checklist detailing all SESC requirements is attached to this letter. Please address the comments below and submit a SESC permit application under separate cover. The application can be found on the City's website at <u>http://cityofnovi.org/Reference/Forms-and-Permits.aspx</u>.

Off-Site Easements

40. Any off-site utility easements anticipated must be executed **prior to final approval of the plans**. If you have not already done so, drafts of the easements and a recent title search shall be submitted to the Community

Engineering Review of Preliminary/Final Site Plan

Chick-Fil-A JSP18-0075

> Development Department as soon as possible for review, and shall be approved by the Engineering Division and the City Attorney prior to executing the easements.

The following must be submitted with the revised Final Site Plan:

- 41. A letter from either the applicant or the applicant's engineer must be submitted with the revised Final Site Plan highlighting the changes made to the plans addressing each of the comments listed above <u>and indicating the revised sheets involved</u>. Additionally, a statement must be provided stating that all changes to the plan have been discussed in the applicant's response letter.
- 42. An itemized construction cost estimate must be submitted to the Community Development Department for the determination of plan review and construction inspection fees. This estimate should only include the civil site work and not any costs associated with construction of the building or any demolition work. <u>The estimate must be itemized</u> for each utility (water, sanitary, storm sewer), on-site paving (square yardage), right-of-way paving (including proposed right-of-way), grading, and the storm water basin (basin construction, control structure, pre-treatment structure and restoration).

The following must be submitted with the Stamping Set:

(Please note that all documents must be submitted together as a package with the Stamping Set submittal with a legal review transmittal form that can be found on the City's website. Partial submittals will <u>not</u> be accepted.)

- 43. A draft copy of the Storm Drainage Facility Maintenance Easement Agreement (SDFMEA), as outlined in the Storm Water Management Ordinance, must be submitted to the Community Development Department. Once the agreement is approved by the City's Legal Counsel, this agreement will then be sent to City Council for approval/acceptance. The SDFMEA will then be recorded at the office of the Oakland County Register of Deeds. This document is available on our website.
- 44. A draft copy of the 20-foot wide easement for the water main to be constructed onsite must be submitted to the Community Development Department. This document is available on our website.
- 45. A draft copy of the 20-foot wide easement for the sanitary sewer and monitoring manhole to be constructed onsite must be submitted to the Community Development Department. This document is available on our website.

The following must be addressed prior to construction:

46. A pre-construction meeting shall be required prior to any site work being started. Please contact Sarah Marchioni in the Community Development Department to setup a meeting (248-347-0430).

Engineering Review of Preliminary/Final Site Plan Chick-Fil-A JSP 18-0075

- 47. A City of Novi Grading Permit will be required prior to any grading on the site. This permit will be issued at the pre-construction meeting (no application required). No fee is required for this permit.
- 48. Material certifications must be submitted to Spalding DeDecker for review prior to the construction of any onsite utilities. Contact Ted Meadows at 248-844-5400 for more information.
- 49. Construction inspection fees in amount that is to be determined must be paid to the Community Development Department.
- 50. Legal escrow fees in an amount that is to be determined must be deposited with the Community Development Department. All unused escrow will be returned to the payee at the end of the project. This amount includes engineering legal fees only. There may be additional legal fees for planning legal documents.
- 51. A storm water performance guarantee in an amount that is to be determined (equal to 120% of the cost required to complete the storm water management facilities) as specified in the Storm Water Management Ordinance must be posted at the Community Development Department.
- 52. Water and Sanitary Sewer Fees must be paid prior to the pre-construction meeting. Contact the Water & Sewer Division at 248-347-0498 to determine the amount of these fees.
- 53. A street sign financial guarantee in an amount that is to be determined (\$400 per traffic control sign proposed) must be posted at the Community Development Department. Signs must be installed in accordance with MMUTCD standards.
- 54. A Soil Erosion Control Permit must be obtained from the City of Novi. Contact Sarah Marchioni in the Community Development Department, Building Division (248-347-0430) for forms and information. The financial guarantee and inspection fees will be determined during the SESC review.
- A permit for water main construction must be obtained from the MDEQ. This permit application must be submitted through the Engineering Division after the water main plans have been approved. Please submit the cover sheet, overall utility sheet, standard details and plan/profile sheets applicable to the permit.
- 56. An inspection permit for the sanitary sewer tap must be obtained from the Oakland County Water Resource Commissioner (OCWRC).

Prior to preparing stamping sets, the Applicant is advised to provide any revised sheets directly to the Engineering Division for an informal review and approval.

To the extent this review letter addresses items and requirements that require the approval of or a permit from an agency or entity other than the City, this review shall

Engineering Review of Preliminary/Final Site Plan

Chick-Fil-A JSP18-0075 03/04/2019 Page 7 of 7

not be considered an indication or statement that such approvals or permits will be issued.

Please contact Kate Richardson at (248) 347-0586 with any questions.

9

Kate Richardson, ElT Plan Review Engineer

cc: Sri Komaragiri, Community Development Angela Sosnowski, Community Development Tina Glenn, Treasurers Kristin Pace, Treasurers Ben Croy, PE, Water and Sewer Darcy Rechtien, PE, Engineering George Melistas, Engineering T. Meadows, T. Reynolds.; Spalding DeDecker

LANDSCAPE REVIEW



PLAN REVIEW CENTER REPORT

February 12, 2019

Preliminary/Final Site Plan - Landscaping

Chick-Fil-A

Review Type

Combined Preliminary/Final Landscape Review

Job # JSP18-0075

Property Characteristics

•	Site Location:	27750 Novi Road
٠	Site Acreage:	1.4 acres
٠	Site Zoning:	RC
•	Adjacent Zoning:	RC

• Plan Date: 2/6/2019

Ordinance Considerations

This project was reviewed for conformance with Chapter 37: Woodland Protection, Zoning Article 5.5 Landscape Standards, the Landscape Design Manual and any other applicable provisions of the Zoning Ordinance. Items in **bold** below must be addressed and incorporated as part of the revised Preliminary/Final Site Plan submittal. Please follow guidelines of the Zoning Ordinance and Landscape Design Guidelines. This review and the accompanying Landscape Chart are summaries and are not intended to substitute for any Ordinance.

Recommendation

This project is **recommended for approval of the Preliminary Site Plan, contingent on the granting** of the landscape waivers, most of which are not supported by staff. It is not recommended for **Final Site Plan approval.** Please revise the site and utility layouts to allow for more of the required trees to be planted, and provide the required trees.

LANDSCAPE WAIVERS REQUIRED FOR CURRENT LAYOUT:

- 1. Insufficient greenbelt width along I-96 frontage. Supported by staff.
- 2. Lack of berm or wall along entire frontage. Not supported by staff.
- 3. Deficiency in greenbelt plantings (subcanopy trees). Not supported by staff.
- 4. Deficiency in perimeter parking lot canopy trees. Not supported by staff.
- 5. Deficiency in interior parking lot trees. Not supported by staff.
- 6. Missing endcap island trees. Not supported by staff.
- 7. Less than 60% of building facing road is landscaped. Supported by staff.
- 8. Some building foundation landscaping area is not at building. Supported by staff.

Ordinance Considerations

Existing Soils (Preliminary Site Plan checklist #10, #17) Provided.

Existing and proposed overhead and underground utilities, including hydrants. (LDM 2.e.(4))

- 1. Provided.
- 2. Please clearly show all underground utility lines on the landscape plan to help avoid and resolve tree/utility conflicts.

Existing Trees (Sec 37 Woodland Protection, Preliminary Site Plan checklist #17 and LDM 2.3 (2))

Preliminary/Final Landscape Plan JSP 18-0075: CHICK-FIL-A February 12, 2019 Page 2 of 3

- 1. Existing landscape trees are located and identified.
- 2. Please identify trees south of site (not just size) as evergreen, canopy or ornamental.
- 3. Please revise the tree protection fencing detail to show fence located at Critical Root Zone (1' beyond dripline).

Adjacent to Residential - Buffer (Zoning Sec. 5.5.3.B.ii and iii) Property is not adjacent to Residential.

Adjacent to Public Rights-of-Way - Berm (Wall) & Buffer (Zoning Sec. 5.5.3.B.ii and iii)

- 1. No berm or screening wall is provided (the wall is required for drive-throughs). A landscape waiver is required for this deviation from the ordinance. It is not supported by staff.
- 2. The required number of canopy trees is provided.
- 3. None of the required subcanopy trees are provided. A landscape waiver is required for this deviation from the ordinance. It is not supported by staff.
- 4. Please see the Landscape Chart for a detailed discussion.
- There is a 95' easement extending beyond the property line, into the required greenbelt,
 A license agreement may be required as noted in Engineering review letter for installing trees within the easement.

Street Tree Requirements (Zoning Sec. 5.5.3.E.i.c and LDM 1.d.)

- 1. 4 street trees are required along Novi Road and 4 are provided.
- 2. Please replace the Bowhall Maples with a tree that meets the city requirements for mature height and canopy width.
- 3. No street trees are required along the I-96 frontage but a cluster of existing trees in the right-of-way already exists.
- 4. Please verify, through contact with the Road Commission for Oakland County that the Novi street trees can be planted within the right-of-way. If they don't allow the street trees to be planted there, please provide us with a copy of their decision.

Parking Lot Landscaping (Zoning Sec. 5.5.3.C.)

- Based on the vehicular use areas, 2,355 sf of island area and 12 trees are required. Only 1,954 sf and 9 trees are provided. These deficiencies require landscape waivers. These are not supported by staff as modifications to the layout and utility layout would allow for most of the deficiencies to be eliminated.
- 2. See the Landscape Chart for a detailed discussion of the parking lot landscaping deficiencies.

Parking Lot Perimeter Canopy Trees (Zoning Sec. 5.5.3.C.(3) Chart footnote)

- 1. Based on the parking lot perimeter, 24 deciduous canopy trees are required. 13 canopy trees and 6 subcanopy trees are provided.
- 2. A Planning Commission landscape waiver must be requested for the parking lot trees that aren't provided. This waiver request would not be supported by staff as their appears to be sufficient room for all of the trees.

Loading Zone screening (Zoning Sec. 3.14, 3.15, 4.55, 4.56, 5.5)

No loading zone screening is required as part of this project as the dumpster enclosure and greenbelt plantings will provide sufficient screening from I-96 and Novi Road.

Building Foundation Landscape (Zoning Sec 5.5.3.D.)

1. Based on the building perimeter, 2,240sf of landscape area is required at the building foundation. 2,389sf are provided but only about 37% is located at the building, with the

rest provided in the central island and other landscape areas in the general vicinity of the building.

2. This variance in the location of the foundation landscaping requires a landscape waiver. It would be supported by staff as the other areas add appeal to the general site and the drive-through screening will also help to add curb appeal to the site.

Plant List (LDM 2.h. and t.)

- 1. Provided
- 2. The tree diversity meets the requirements of Landscape Design Manual Section 4.
- 3. 7 of 19 species used (37%) are native to Michigan. Please revise the plant list to include species native to Michigan for at least 50% of the species used.

Planting Notations and Details (LDM)

- 1. Please add the notes called for on the Landscape Chart on the plans.
- 2. Details are provided.

Storm Basin Landscape (Zoning Sec 5.5.3.E.iv and LDM 1.d.(3)

No above-ground detention basin is provided so no detention landscaping is required.

Irrigation (LDM 1.a.(1)(e) and 2.s)

- 1. The proposed landscaping must be provided with sufficient water to become established and survive over the long term.
- 2. <u>Please provide an irrigation plan or note how this will be accomplished if an irrigation plan is not provided.</u>

Proposed topography. 2' contour minimum (LDM 2.e.(1))

Provided.

<u>Snow Deposit (LDM.2.q.)</u> Provided.

Corner Clearance (Zoning Sec 5.9) Provided.

If the applicant has any questions concerning the above review or the process in general, do not hesitate to contact me at 248.735.5621 or rmeader <u>rmeader@cityofnovi.org</u>.

The Meader

Rick Meader – Landscape Architect

LANDSCAPE REVIEW SUMMARY CHART

Review Date:	February 12, 2019
Project Name:	JSP18–0075: Chick-Fil-A
Plan Date:	February 6, 2019
Prepared by:	Rick Meader, Landscape Architect E-mail: <u>rmeader@cityofnovi.org;</u>
	Phone: (248) 735-5621

Items in **Bold** need to be addressed by the applicant before approval of the Preliminary Site Plan. <u>Underlined</u> items need to be addressed for Final Site Plan.

Please use the Current Ordinance and Landscape Design Manual when modifying the Landscape plan. They can be found at:

LANDSCAPE WAIVERS REQUIRED FOR CURRENT LAYOUT:

- 1. Insufficient greenbelt width along I-96 frontage. Supported by staff.
- 2. Lack of berm or wall along entire frontage. Not supported by staff.
- 3. Deficiency in greenbelt plantings (subcanopy trees). Not supported by staff.
- 4. Deficiency in perimeter parking lot canopy trees. Not supported by staff.
- 5. Deficiency in interior parking lot trees. Not supported by staff.
- 6. Missing endcap island trees. Not supported by staff.
- 7. Less than 60% of building facing road is landscaped. Supported by staff.
- 8. Most of building foundation landscaping area is not at building. Supported by staff.

ltem	Required	Proposed	Meets Code	Comments			
Landscape Plan Requir	Landscape Plan Requirements (LDM (2)						
Landscape Plan (Zoning Sec 5.5.2, LDM 2.e.)	 New commercial or residential developments Addition to existing building greater than 25% increase in overall footage or 400 SF whichever is less. 1"=20' minimum with proper North. Variations from this scale can be approved by LA Consistent with plans throughout set 	Scale 1''=20'	Yes				
Project Information (LDM 2.d.)	Name and Address	Yes	Yes				
Owner/Developer Contact Information (LDM 2.a.)	Name, address and telephone number of the owner and developer or association	Yes	Yes				
Landscape Architect contact information (LDM 2.b.)	Name, Address and telephone number of RLA	Yes	Yes				

Preliminary/Final Site Plan Review Landscape Review Summary Chart February 12, 2019

ltem	Required	Proposed	Meets Code	Comments
Sealed by LA. (LDM 2.g.)	Requires original signature	Copied seal & signature	Yes	Need original for Final Site Plans
Miss Dig Note (800) 482-7171 (LDM.3.a.(8))	Show on all plan sheets	Yes	Yes	
Zoning (LDM 2.f.)	Include all adjacent zoning	<u>Parcel:</u> RC <u>North, East, West:</u> RC <u>South:</u> 1-96 ROW	No	Please show zoning of adjacent parcels on landscape plan.
Survey information (LDM 2.c.)	 Legal description or boundary line survey Existing topography 	Alta Survey Sheet 1	Yes	
Existing plant material Existing woodlands or wetlands (LDM 2.e.(2))	 Show location type and size. Label to be saved or removed. Plan shall state if none exists. 	 Existing trees are shown on Alta Survey, Sheet L- 100 There are no woodlands or regulated trees on the site. 	Yes	Please identify existing trees south of site as canopy, ornamental or evergreen if species can't be determined. (On Google Maps, it appears to be a mix of evergreens and ornamentals).
Soil types (LDM.2.r.)	 As determined by Soils survey of Oakland county Show boundaries 	Yes – on Sheet L-100	Yes	
Existing and proposed improvements (LDM 2.e.(4))	Existing and proposed buildings, easements, parking spaces, vehicular use areas, and R.O.W	Yes	Yes	
Existing and proposed utilities (LDM 2.e.(4))	 Overhead and underground utilities, including hydrants Show all light posts on landscape plan. 	 Storm structures are shown, but not utility lines Per the note, there are no overhead utility lines on the site. Light posts are provided. 	No	 Please clearly show all existing and proposed utility lines and structures on landscape plan (Sheet L-101) so tree/utility conflicts can be detected and resolved. It appears that some utility lines could be re-aligned to allow more required trees to be planted, such as in the endcaps in the eastern bays, and the endcap just east of the building. Please adjust the utility layouts to allow required trees to be
ltem	Required	Proposed	Meets Code	Comments
---	---	---	---------------	--
				planted.
Proposed grading. 2' contour minimum (LDM 2.e.(1))	Provide proposed contours at 2' interval	 Proposed contours are provided on landscape plan. No berms are proposed. 	Yes	
Snow deposit (LDM.2.q.)	Show snow deposit areas on plan	Yes	Yes	
LANDSCAPING REQUIR	EMENTS			
Parking Area Landscap	e Requirements LDM 1.c. &	Calculations (LDM 2.0	.)	
General requirements (LDM 1.c)	 Clear sight distance within parking islands No evergreen trees 	Yes	Yes	
Name, type and number of ground cover (LDM 1.c.(5))	As proposed on planting islands	Liriope or other landscaping is proposed on interior islands, lawn around perimeter.	Yes	
General (Zoning Sec 5.	5.3.C.ii)			
Parking lot Islands (a, b. i)	 A minimum of 200 SF to qualify A minimum of 200sf unpaved area per tree planted in an island 6" curbs Islands minimum width 10' BOC to BOC 	Interior islands are provided, but most have insufficient width and/or area per the requirements.	No	 For the central island, please calculate the area of the western and southern "lobes" separate from the rest of the island as they are nearly completely separate from the rest of the island so many roots wouldn't be able access the interior. There should be a tree in both of those lobes. They probably have to be increased in width and/or area and to provide the proper spacing from the hydrant in the southern lobe. Please increase width and/or area of all islands as necessary to meet requirements by modifying the parking lot layout. All endcap islands

ltem	Required	Proposed	Meets Code	Comments
				 need to have deciduous canopy trees in them and be 200sf, and 10 feet wide. 4. Landscape waivers are required for all required area and interior trees that are not provided. They are not supported by staff.
Curbs and Parking stall reduction (c)	Parking stall can be reduced to 17' and the curb to 4" adjacent to a sidewalk of minimum 7 ft.	All perpendicular spaces are 17 feet long where they can be shortened.	Yes	
Contiguous space limit (i)	Maximum of 15 contiguous spaces	12 is maximum bay length	Yes	
Plantings around Fire Hydrant (d)	 No plantings with matured height greater than 12' within 10 ft. of fire hydrants or other utility structures. Trees should also be placed at least 5 feet from underground utility lines. 	No trees are planted near hydrants.	Yes	 No new or existing plantings are shown near existing hydrants. The internal endcap island with the hydrant should have a tree planted in it, at least 10 feet from the hydrant. As noted above, a landscape waiver is required to not provide required endcap trees. It would not be supported by staff.
Landscaped area (g)	Areas not dedicated to parking use or driveways exceeding 100 sq. ft. shall be landscaped	Yes	Yes	
Clear Zones (LDM 2.3.(5))	25 ft corner clearance required. Refer to Zoning Section 5.5.9	NA – entry does not come off a road		
	OS-2, OSC, OST, B-1, B-2, B- district (Zoning Sec 5.5.3.C.		C-1, RC, S	pecial Land Use or non-
A = Total square footage of vehicular use areas up to 50,000sf x 7.5%	 A = x sf * 7.5 % = A sf 31,404 * 7.5% = 2355 sf 	1,954 sf		
B = Total square footage of additional paved vehicular use	 B = x sf * 1% = B sf (xxx - 50000) * 1% = xxx sf 	NA		

ltem	Required	Proposed	Meets Code	Comments
areas (not including A or B) over 50,000 SF) x 1 %				
Category 2: For: I-1 and	l I-2 (Zoning Sec 5.5.3.C.iii)			
A. = Total square footage of vehicular use area up to 50,000 sf x 5%	A = x sf * 5% = A sf	NA		
B = Total square footage of additional paved vehicular use areas over 50,000 SF x 0.5%	B = 0.5% x 0 sf = B SF	NA		
All Categories				
C = A+B Total square footage of landscaped islands	2355 + 0 = 2355 SF	1,954 sf	No	 Please label 2 "lobes" of central island with minimal connection to the main island with their area in SF, ending at their necks. Please provide areas that qualify per minimum (200sf per tree, 10 ft wide) for all trees counting toward the requirement. A landscape waiver is requested for the site's interior area shortage. The waiver request is not supported by staff.
D = C/200 Number of canopy trees required	2355/200 = 12 Trees	9 trees	No	 Please add all required trees in interior islands and endcap islands that meet spatial requirements. A landscape waiver is requested for the site's interior trees shortage. The waiver request is not supported by staff.
Perimeter Green space	 1 Canopy tree per 35 lf 828 LF/35 = 24 trees 	 <u>19 trees</u> 13 canopy trees 6 subcanopy trees 	No	1. All perimeter trees should be canopy trees with a minimum mature height of 30

ltem	Required	Proposed	Meets Code	Comments
				feet and canopy of 20 feet. Please replace the crabapples along the east side with canopy trees. 2. A landscape waiver is necessary for any required trees that can't be planted. This waiver is not supported by staff. 3. There is no perimeter landscape area requirement so that hatching can be removed.
Accessway perimeter	 1 canopy tree per 35 lf on each side of road, The 828LF figure above includes the access ways' perimeters 			
Parking land banked	NA	None		
Berms, Walls and ROW	Planting Requirements		C V L UST	
Berms				
Berm should be locat	a maximum slope of 33%. G ed on lot line except in cor structed with 6" of top soil.		ouraged. Sh	now 1ft. contours
	Non-residential (Sec 5.5.3.	A) & (LDM 1.a)		
Berm requirements (Zoning Sec 5.5.A)	Site is not adjacent to residentially-zoned property so no berm is required.	No berm is existing or proposed.	Yes	
Planting requirements (LDM 1.a.)	LDM Novi Street Tree List	NA		
Adjacent to Public Righ	lts-of-Way (Sec 5.5.B) and (LDM 1.b)		
Berm requirements (Zoning Sec 5.5.3.A.(5))	 A landscaped berm a minimum of 3 feet high with a 2 foot wide crest is required along all Novi Road and I-96 frontage as drive-thru lane or parking are along the entire frontage. An ornamental brick wall may be used in place of the berm along all drive-thru or 	A hedge (mixture of hollies, hydrangeas, boxwoods and arborvitae) is proposed along entire drive-thru frontage.	No	 A landscape waiver is requested to not provide the required berm or wall. The justification for not providing the berm is that there is not sufficient room for it. Please provide justification for why the wall cannot be provided. In the letter it states that the

ltem	Required	Proposed	Meets Code	Comments
	parking lot areas.			 berm and wall can't be provided due to existing utility mains and grading conditions. It is not clear that these prevent the installation of the wall. Please further demonstrate that the wall can't be built. At this time, the waiver request is not supported by staff. 3. If only a hedge is proposed, it must provide 80% opacity in the summer.
Cross-Section of Berms	(LDM 2.j)			
Slope, height and width	 Label contour lines Maximum 33% Min. 3 feet flat horizontal area Minimum 3 feet high Constructed of loam with 6' top layer of topsoil. 	NA		
Type of Ground Cover		NA		
Setbacks from Utilities	Overhead utility lines and 15 ft. setback from edge of utility or 20 ft. setback from closest pole	NA		
Walls (LDM 2.k & Zoning				
Material, height and type of construction footing	Freestanding walls should have brick or stone exterior with masonry or concrete interior	No walls are proposed.		
Walls greater than 3 ½ ft. should be designed and sealed by an Engineer		No details provided		
	ning Requirements(Sec 5.5.	3.B. ii)		
Greenbelt width (2)(3) (5)	Adj to Parking: 20 ft. Not adj to Pkg: 25 ft	<u>Novi Rd:</u> 22 ft <u>I-96:</u> 8-24 ft	<u>Novi Rd:</u> Yes <u>I-96:</u> No	A landscape waiver is required for the lack of greenbelt depth facing

Item	Required	Proposed	Meets Code	Comments
				1-96. This waiver request is supported by staff as there is a lot of room in the right-of-way before the I-96 exit ramp. It does leave much less room for the required greenbelt landscaping, however.
Min. berm crest width	2 ft	None	No	A landscape waiver is requested for the lack of berm. As a wall is also not proposed, this waiver request is not supported by staff.
Minimum berm height (9)	3 ft	None	No	
3' wall	(4)(7)	None		
Canopy deciduous or large evergreen trees Notes (1) (10)	Adjacent to parking: 1 tree per 35 lf (frontage along driveway at north does not need to be included as it is not a public right- of-way) • 444/35 = 13 trees	 <u>14 trees</u> 2 existing trees/4 credits 10 new trees (double-counted as greenbelt trees – allowed) 	Yes	 It appears that there is an access easement for Novi Road that extends into the property, occupying most of the greenbelt. Please contact the Road Commission for Oakland County for a decision by them on whether the required greenbelt plantings can be planted as proposed. If they can't, please provide a copy of their letter or email with that decision. If the required plantings can't be planted per the RCOC, a landscape waiver will be required but it would be supported by staff.
Sub-canopy deciduous trees Notes (2)(10)	Adjacent to parking: 1 tree per 20lf • 444/20 = 22 trees	0 trees	No	 Please provide all of the required trees. A landscape waiver is necessary if all required trees are not provided. It would

Item	Required	Proposed	Meets Code	Comments
				not be supported by staff.
Canopy deciduous trees in area between sidewalk and curb (Novi Street Tree List)	Parking & No Parking: 1 tree per 45 lf <u>Novi Road:</u> • 170/45 = 4 trees <u>I-96 frontage:</u> • No trees necessary in MDOT ROW.	Novi Road: 4 trees <u>I-96 Frontage:</u> 13 existing evergreen trees	<u>Novi:</u> Yes <u>I-96:</u> Yes	If the Road Commission for Oakland County does not allow some or all of the street trees they do not have to be planted but a copy of the RCOC decision must be provided to the city.
	Sec 5.5.3.E.iii & LDM 1.d (2) W. building foundation land		decanina a	ndIDM
Screening of outdoor storage, loading/unloading (Zoning Sec. 3.14, 3.15, 4.55, 4.56, 5.5)	Must be screened from view from Novi Road and I-96	 Loading zone is provided at south end of building Screening is provided by the hedge screening the drive-thru lane, perimeter trees and the dumpster enclosure 	Yes	
Transformers/Utility boxes (LDM 1.e from 1 through 5)	 A minimum of 2ft. separation between box and the plants Ground cover below 4" is allowed up to pad. No plant materials within 8 ft. from the doors 	An electrical box is indicated in the island along the eastern bay. No screening the height of the box is proposed – only low junipers.	No	Please screen the box per the city standard detail.
Building Foundation La	ndscape Requirements (Sec	c 5.5.3.D)		
Interior site landscaping SF	 Equals to entire perimeter of the building x 8 with a minimum width of 4 ft. A: 280 If x 8ft = 2240 SF 	<u>A: 2389 sf</u> • 881sf adj to bldg. • 1508sf not adj to bldg	Yes/No	A landscape waiver is required for the area not provided at the building. As the extra landscaping adds extra appeal to the site, this waiver is supported by staff.
Zoning Sec 5.5.3.D.ii. All items from (b) to (e)	If visible from public street a minimum of 60% of the exterior building perimeter should be covered in green space	90/197 If (46%) of perimeter visible from I-96 exit or Novi Road has green space at the foundation.	No	A landscape waiver is required for deficiency in coverage. As the hedge (or wall) along the drive-thru will also shield the foundation from the roads, this waiver is supported by

Item	Required	Proposed	Meets Code	Comments
				staff.
Detention/Retention Bo	isin Requirements (Sec. 5.5.	3.E.iv)		
Planting requirements (Sec. 5.5.3.E.iv)	 Clusters shall cover 70- 75% of the basin rim area 10" to 14" tall grass along sides of basin Refer to wetland for basin mix 	No detention basin exists on the site so no landscaping is provided.		If any above-ground detention basin is required it needs to be landscaped per the ordinance.
Phragmites Control (Sec 5.5.6.C)	 Any and all populations of Phragmites australis on site shall be included on tree survey. Treat populations per MDEQ guidelines and requirements to eradicate the weed from the site. 	A note indicates that there is no Phragmites on the site.	Yes	
LANDSCAPING NOTES,	DETAILS AND GENERAL REQ	UIREMENTS	12.2	A. Martinger
	ize City of Novi Standard No	otes		
Installation date (LDM 2.1. & Zoning Sec 5.5.5.B)	Provide intended date range between Mar 15 and Nov 15	No	No	Please add note
Maintenance & Statement of intent (LDM 2.m & Zoning Sec 5.5.6)	 Include statement of intent to install and guarantee all materials for 2 years. Include a minimum one cultivation in June, July and August for the 2-year warranty period. 	Note regarding 2- year warranty is provided.	Yes/No	Please add note regarding cultivation
Plant source (LDM 2.n & LDM 3.a.(2))	Shall be northern nursery grown, No.1 grade.	No	No	Please add note
Irrigation plan (LDM 2.s.)	A fully automatic irrigation system or a method of providing sufficient water for plant establishment and survival is required on Final Site Plans.	No	No	 Please add irrigation plan or information as to how plants will be watered sufficiently for establishment and long- term survival. If xeriscaping is used, please provide information about plantings included.
Other information (LDM 2.u)	Required by Planning Commission	NA		

ltem	Required	Proposed	Meets Code	Comments
Establishment period (Zoning Sec 5.5.6.B)	2 yr. Guarantee	Yes	Yes	
Approval of substitutions. (Zoning Sec 5.5.5.E)	City must approve any substitutions in writing prior to installation.	No	No	Please add note
Plant List (LDM 2.h.) – In	clude all cost estimates			
Quantities and sizes		Yes	Yes	
Root type		Yes	Yes	
Botanical and common names	Refer to LDM suggested plant list	Yes	Yes	 Currently, 7 of 19 species used (37%) are native to Michigan. Please increase that number to at least 50% of the species used. (www.michiganflora. net is good source to determine if a tree is native to Michigan). Please replace the Bowhall Maple with a tree that has a minimum mature height of at least 30 feet and mature width of at least 20 feet. Please be sure all species used are hardy in our growth zone, and are salt tolerant where necessary.
Type and amount of lawn		Yes	Yes	
Cost estimate (LDM 2.t)	For all new plantings, mulch and sod as listed on the plan	No	No	Please use \$15 ea. as standard cost per perennial and \$6/sy as standard cost for sod.
Planting Details/Info (LD	M 2.i) – Utilize City of Novi	Standard Details		
Canopy Deciduous Tree		Yes	Yes	
Evergreen Tree		NA	NA	
Multi-stem Tree	Refer to LDM for detail drawings	NA	NA	
Shrub		Yes	Yes	
Perennial/ Ground Cover		Yes	Yes	

ltem	Required	Proposed	Meets Code	Comments
Tree stakes and guys. (Wood stakes, fabric guys)		Yes	Yes	
Tree protection fencing	Located at Critical Root Zone (1' outside of dripline)	Yes	Yes	Please revise detail and notes to indicate fence should be at 12" beyond dripline.
Other Plant Material Re				
General Conditions (LDM 3.a)	Plant materials shall not be planted within 4 ft. of property line	Yes	Yes	Please add note near property lines stating this.
Plant Materials & Existing Plant Material (LDM 3.b)	Clearly show trees to be removed and trees to be saved.	Yes	Yes	
Landscape tree credit (LDM3.b.(d))	 Substitutions to landscape standards for preserved canopy trees outside woodlands/ wetlands should be approved by LA. Refer to Landscape tree Credit Chart in LDM 	2 saved greenbelt 8" trees for 4 credits	Yes	
Plant Sizes for ROW, Woodland replacement and others	2.5" canopy trees 6' evergreen trees	Yes	TBD	
(LDM 3.c) Plant size credit (LDM3.c.(2))	NA	No		
Prohibited Plants (LDM 3.d)	No plants on City Invasive Species List	None are proposed	Yes	
Recommended trees for planting under overhead utilities (LDM 3.e)	Label the distance from the overhead utilities	No overhead lines are on site		
Collected or Transplanted trees (LDM 3.f)		None		
Nonliving Durable Material: Mulch (LDM 4)	 Trees shall be mulched to 3"depth and shrubs, groundcovers to 2" depth Specify natural color, finely shredded hardwood bark mulch. Include in cost estimate. Refer to section for additional information 	Yes	Yes	

Item	Required	Proposed	Meets Code	Comments
NOTES:				

- 1. This table is a working summary chart and not intended to substitute for any Ordinance or City of Novi requirements or standards.
- 2. The section of the applicable ordinance or standard is indicated in parenthesis. For the landscape requirements, please see the Zoning Ordinance landscape section 5.5 and the Landscape Design Manual for the appropriate items under the applicable zoning classification.
- 3. Please include a written response to any points requiring clarification or for any corresponding site plan modifications to the City of Novi Planning Department with future submittals.

TRAFFIC REVIEW

ΔΞCOM

AECOM 27777 Franklin Road Southfield MI, 48034 USA aecom.com

Project name: JSP18-75 Chick-Fil-A Preliminary/Final Traffic Review

From: AECOM

> Date: March 4, 2019

To: Barbara McBeth, AICP City of Novi 45175 10 Mile Road Novi, Michigan 48375

CC: Sri Komaragiri, Lindsay Bell, George Melistas, Darcy Rechtien, Hannah Smith, Kate Richardson

Memo

Subject: JSP18-75 Chick-Fil-A Preliminary/Final Traffic Review

The preliminary and final site plan was reviewed to the level of detail provided and AECOM **recommends preliminary plan approval** and **final plan denial** for the applicant to move forward with the condition that the comments provided below are adequately addressed to the satisfaction of the City.

GENERAL COMMENTS

- 1. The applicant, Novi Real Estate Group, is proposing a 4,990 SFT Chick-Fil-A drive-through restaurant on the southeast corner of Twelve Oaks Mall Road and Novi Road.
- 2. Twelve Oaks Mall Rd is a private roadway.
- 3. The parcel is currently zoned RC.
- 4. Summary of traffic-related waivers/variances:
 - a. The applicant is currently proposing fewer parking spaces than required. Please see the parking and queueing study review letter for comments on the study.
 - b. The applicant has indicated that not all of the parking end islands can meet the standard requirements.

TRAFFIC IMPACTS

1. AECOM has done the following initial trip generation calculations for the proposed development:

ITE Code: 934 (Fast-Food Restaurant with Drive-Through Window) Development-specific Quantity: 4,990 square feet Zoning Change: N/A

Trip Generation Summary						
	Estimated Trips	Estimated Peak- Direction Trips	City of Novi Threshold	Above Threshold?		
AM Peak-Hour Trips	201	102	100	Yes		

PM Peak-Hour Trips 163		85	100	No	
Daily (One- Directional) Trips	Dne- 2350 N/A		750	Yes	

- The number of trips exceed the City's threshold of more than 750 trips per day and 100 trips per the AM peak hour. AECOM recommends performing the following traffic impact study in accordance with the City's requirements.
- 3. The applicant has submitted a TIS. Please see the TIS review letter for more information.

Trip Impact Study Recommendation			
Type of Study:	Justification		
Traffic Impact Study	Exceeds 2 of the 3 thresholds for daily trips.		

EXTERNAL SITE ACCESS AND OPERATIONS

The following comments relate to the external interface between the proposed development and the surrounding roadway(s).

1. The applicant is connecting to two existing driveways on the north and south side of the site. The applicant has indicated a width of 25.2' for the north entrance and 25.5' for the south entrance.

INTERNAL SITE OPERATIONS

The following comments relate to the on-site design and traffic flow operations.

- 1. General Traffic Flow
 - a. The applicant has indicated a 360 SFT proposed loading zone on the southeast side of the building which does not appear to meet City size requirements. The applicant should refer to Section 5.4.2 of the City's Zoning Ordinance to ensure compliance with City standards.
 - The applicant has indicated the largest size vehicle expected to use the loading zone and provided truck travel patterns throughout the site to confirm accessibility to/from the loading zone, as applicable.
 - ii. The proposed loading zone does not meet the minimum required for RC zoned areas, which is 10 SFT for each front foot of building.
 - b. The applicant has indicated 24' aisles throughout the site, which is consistent with the City's standard.
 - c. The applicant has included dimensions for the radii and should also include the width of the proposed end islands throughout the site to review accessibility and compliance with City requirements as stated in Section 5.3.12 of the Zoning Ordinance.
 - i. Note that all end islands adjacent to a travel way shall be constructed three (3) feet shorter than the adjacent parking space.
 - ii. The end island outside radii is required to be a minimum of 15'.
 - iii. If the standards cannot be met, a waiver will be required from the City.
 - d. The applicant indicated a trash receptacle location on the south side site.
 - i. The applicant has confirmed that the trash receptacle is accessible by trash collection vehicles via turning movement paths.
 - ii. The proposed location of the trash receptacle would interfere with the drive-thru, when in use. The applicant has indicated that the trash receptacle will not be serviced during peak drive-thru hours.

- e. The applicant has indicated two-way operations up to the point of the drive-thru entrance. The two drivethru lanes are marked as 10' lanes, but the applicant has not provided a width for the eastbound lane.
- f. The applicant is proposing drive-through lanes on the west side of the site. The stacking spaces are in compliance with Section 5.3.11.I of the City's Zoning Ordinance.
 - i. Per Section 5.3.11.D of the City's Zoning Ordinance, drive-through facilities shall provide one bypass lane that shall be a minimum of 18' wide. The area where the two lanes of vehicles reduces to one lane does not appear to meet this requirement. **The applicant should add dimensions to the plans to indicate the 18' width.**
 - ii. The applicant has indicated 12' wide drive through lanes, which is in compliance with City ordinances.
 - iii. The applicant has indicated the centerline radius of the drive-through lane, which complies with Section 5.11.F of the City's Zoning Ordinance that requires a 25' centerline radius.
 - iv. The applicant should dimension the rectangular stacking space indicators to ensure that are 19' in length in order to be in compliance with Section 5.11.H of the City's Zoning Ordinance.
- 2. Parking Facilities
 - a. The applicant is proposing 65 parking spaces, including three (3) handicap parking spaces; however, the applicant has indicated on the plans that 100 parking spaces are required for the development. The applicant should refer to Section 5.2.12 of the City's Zoning Ordinance as well as the Planning Review Letter for parking quantity requirements. A parking and queueing study was submitted by the applicant. Please see the parking and queueing study review letter for more information.
 - i. The applicant should note that the ordinance requires 1 parking space for each 2 total employees.
 - b. The applicant has ensured that there are no more than 15 parking spaces adjacent to each other without an island, which is in compliance with the City requirements.
 - c. The applicant has generally proposed 9' wide parking spaces.
 - d. The applicant has indicated 18' long parking spaces along the north side of the site at 60° and 19' spaces throughout the rest of the site at 0°.
 - e. The applicant has indicated the number of spaces and location of the bicycle parking.
 - i. The applicant should include the layout of the bicycle parking to ensure compliance with Figure 5.16.6 of the City's Zoning Ordinance.
 - ii. Note that a 6' accessible route is required from the adjacent street to the bicycle parking facilities. The proposed sidewalk in front of the bicycle rack is 5'.
 - iii. Note that the bike rack detail shown on sheet C-500 indicates a 35" height which does not match the 36" requirement per Section 5.16.5.B of the City's Zoning Ordinance.
- 3. Sidewalk Requirements
 - a: The applicant is generally proposing 5' wide sidewalks throughout the site, which is in compliance with City standards.
 - Sidewalks adjacent to a 19' parking space require a 6" curb. The grading plans indicate both 4" and 6" curbs at the 19' parking spaces.
 - b. The applicant has labeled sidewalk ramps on the plans and included ramp details.

SIGNING AND STRIPING

- 1. All on-site signing and pavement markings shall be in compliance with the Michigan Manual on Uniform Traffic Control Devices (MMUTCD). The following is a discussion of the proposed signing and striping.
 - a. The applicant should provide a signing quantities table in future submittals. Any signs not proposed on the site should be removed from the "Sign Legend".
 - b. The "\$250 Fine" R7-I101 sign is not required and could be removed.
 - c. The "Van Accessible" plaque should be denoted as R7-8P and not D9-6P.
 - d. The "Pedestrian Crosswalk" sign should include the applicable MMUTCD designation.

- e. The "Do Not Enter" sign symbol shown at the exit for the drive-through should be rotated to face oncoming traffic.
- 2. The applicant should provide the following notes and details related to the proposed signing.
 - a. Single signs with nominal dimensions of 12" x 18" or smaller in size shall be mounted on a galvanized 2 lb.
 U-channel post. Multiple signs and/or signs with nominal dimension greater than 12" x 18" shall be mounted on a galvanized 3 lb. or greater U-channel post as dictated by the weight of the proposed signs.
 - b. The applicant should indicate a bottom height of 7' from final grade for all signs installed.
 - c. The applicant should indicate that all signing shall be placed 2' from the face of the curb or edge of the nearest sidewalk to the near edge of the sign.
 - d. Traffic control signs shall use the FHWA Standard Alphabet series.
 - e. Traffic control signs shall have High Intensity Prismatic (HIP) sheeting to meet FHWA retroreflectivity requirements.
- 3. The applicant has provided a detail for the proposed international symbol for the accessibility pavement markings.
- The applicant has indicated pavement marking arrows and "Drive Thru" text throughout the site and provided details as well.
- 5. The applicant has provided details on the proposed crosswalk markings on sheet C-403.

Should the City or applicant have questions regarding this review, they should contact AECOM for further clarification.

Sincerely,

AECOM

- Conh

Josh A. Bocks, AICP, MBA Senior Transportation Planner/Project Manager

Patricia a Thomas -

Patricia Thompson, EIT Traffic Engineer

AECOM

AECOM 27777 Franklin Road Southfield MI, 48034 USA aecom.com

Project name: JSP18-0075 Chick-Fil-A Traffic Impact Study Review Letter From: AECOM

Date: March 4, 2019

To: Barbara McBeth, AICP City of Novi 45175 10 Mile Road Novi, Michigan 48375

CC: Sri Komaragiri, Lindsay Bell, George Melistas, Darcy Rechtien, Hannah Smith, Kate Richardson

Memo

Subject: JSP18-0075 Chick-Fil-A Traffic Impact Study Review Letter

The traffic impact study (TIS) for the proposed Chick-Fil-A was reviewed to the level of detail provided and AECOM **recommends approval** of the TIS as long as comments provided below are adequately addressed to the satisfaction of the City.

GENERAL COMMENTS

1. The remainder of the memo will provide comments on a section-by-section basis following the format of the submitted report.

PROJECT SETTING

- 1. The applicant identified one (1) signalized and five (5) unsignalized intersections as being within the area of study and of interest to the project.
- 2. Existing traffic volumes were collected by Traffic Data Collection, LLC, on Thursday, January 10th, 2019. Four of the six intersections of interest were counted, with the last two having volumes estimated based on the traffic volume moving up and downstream.
- 3. AM peak was determined to be 8:00 AM to 9:00 AM. PM peak was determined to be 4:30 PM to 5:30 PM.

PROPOSED ACTION

1. The proposed development is a 4,990 SF Chick-fil-A restaurant. The study includes a preliminary site plan.

TRIP GENERATION

 The applicant should correct the Weekday PM Peak Hour trip numbers to match the ITE Trip Generation value of 163. If 164 was used instead of 163 due to 81.5 being rounded up for the pass-by and net primary trips, this should be explained on the calculations page.

TRAFFIC VOLUMES

- 1. Existing traffic volumes for the 2019 'No-Build' condition were taken from the data collected on January 10th.
- 2. The applicant used the existing traffic patterns to distribute the trips entering and leaving the development.
- 3. The applicant included figures for both the No-Build 2019 traffic volumes and the Build 2019 traffic volumes in the appendix.

TRAFFIC ANALYSIS

- 1. The applicant conducted an HCM analysis on each intersection for the No-Build and Build scenarios in Synchro.
- 2. At the intersection of Novi Road, West Oaks Drive, and Twelve Oaks Drive South, most turning movements/approaches operate between LOS A and LOS D for both AM and PM peaks, with the exception of the northbound left turn and northbound approach, which operates at LOS F in the PM peak for both the No-Build and Build conditions. The applicant notes that the movement likely does not operate as poorly as shown, due to the adaptive operations at the signal.
- 3. The unsignalized intersections included in the study area all maintain LOS between A and C. Delay at several approaches increased from A to B or B to C, however, B and C are still considered acceptable LOS for an approach.

SUMMARY AND RECOMMENDATIONS

- 1. The applicant should address the inconsistent number of trips for the PM Peak hour.
- 2. In summary, the impacts of the development are not anticipated to degrade levels of services beyond those under existing conditions during either the AM or PM peak periods.

Should the City or applicant have questions regarding this review, they should contact AECOM for further clarification.

Sincerely,

AECOM

Patricea a Thomason

Patricia A. Thompson, EIT Traffic Engineer

1 of Book

Josh^tÁ. Bocks, AICP, MBA Senior Transportation Planner/Project Manager

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AECOM 27777 Franklin Road Southfield MI, 48034 USA aecom.com

Project name: JSP18-0075 Chick-Fil-A Parking and Queueing Study Review Letter From: AECOM

Date: March 4, 2019

To: Barbara McBeth, AICP City of Novi 45175 10 Mile Road Novi, Michigan 48375

CC: Sri Kornaragiri, Lindsay Bell, George Melistas, Darcy Rechtien, Hannah Smith, Kate Richardson

Memo

Subject: JSP18-0075 Chick-Fil-A Parking and Queueing Study Review Letter

The Parking and Queueing study for the proposed Chick-Fil-A was reviewed to the level of detail provided and AECOM **recommends approval** of the study as long as comments provided below are adequately addressed to the satisfaction of the City.

GENERAL COMMENTS

1. The remainder of the memo will provide comments on a section-by-section basis following the format of the submitted report.

INTRODUCTION

- 1. The applicant identified three (3) sites similar to the proposed development. These sites are located throughout the metro Grand Rapids area.
 - a. 28th Street and East Beltline in Grand Rapids, MI
 - b. M-6 and Kalamazoo Avenue in Gaines Township, MI
 - c. US-131 and 54th Street in Wyoming, MI
- 2. The sites range from 140 SF to 19 SF smaller than the proposed development. Two (2) of the locations have additional shared parking spaces available.

DATA COLLECTION

- 1. Data collection was conducted on 2 days. The times were selected based on peak site activity.
 - a. Weekend Midday data collection was done on Saturday, January 26th from 12:00 pm to 2:00 pm.
 - b. Weekday Midday and Evening data collection was done on Tuesday, February 5th from 11:00 am to 1:00 pm and 4:00 pm to 6:00 pm. Due to weather issues, no data was collected at the Wyoming location on the 5th.

PARKING DEMAND

- Parking quantities were collected on 15 minute intervals during the analysis periods. In the report, the applicant
 provides average and 95th percentile values for the number of vehicles parked in the lot. The maximum values are
 available in the appendix.
- 2. The Grand Rapids location had the highest 95th percentile value, at 77 parking spaces (which utilized 18 parking spaces in excess of the spaces available to just the restaurant). The maximum for that location was 79 vehicles parked at 1:00 pm on Saturday.
- 3. The other two locations peaked at 58 vehicles parked (Wyoming location) and 62 vehicles parked (Gaines Township location), also on Saturday.

DRIVE-THRU QUEUE ANALYSIS

- 1. Queue length was collected in five (5) minute intervals during the analysis periods. The count includes only vehicles queued behind the vehicle ordering at the kiosk.
- 2. The Grand Rapids location had the highest 95th percentile queue length, at 20 vehicles during the weekday midday period and 16 vehicles during the weekend period. The peak queue lengths were 20 vehicles during the weekday midday period and 18 during the weekend period. These did exceed the available stacking at this location (10 spaces).
- 3. The Wyoming location had a peak vehicle queue of 11 on Saturday. This did not exceed the available stacking.
- 4. The Gaines Township location had a peak vehicle queue of 11 during the weekday evening period. The weekend peak was 7 vehicles. The weekday evening peak exceeded the available stacking.

SUMMARY AND RECOMMENDATIONS

- 1. In most scenarios, the proposed development should not exceed the parking and vehicle queueing space provided by the site plan. However, should the development experience demand similar to the Grand Rapids location, the drive-thru will impede use of the parking spaces on the north side of the parking lot and there will be insufficient parking available.
- 2. The parking spaces on the north side of the site and the spillover area for the drive-thru queue could experience conflicts during high-volume periods. We recommend that the applicant consider allocating those spaces as planned employee parking, to prevent a high frequency of conflicts between customers exiting those spaces while others attempt to enter the drive-thru.
- 3 In instances when the demand for parking exceeds the available spaces, as the peak parked vehicles at the Grand Rapids location suggests can occur, customers will likely park in the adjacent La-Z-Boy Home Furnishings & Decor store parking lot. We recommend that the applicant pursue a shared parking agreement with this facility to alleviate issues with potential parking needs.

Should the City or applicant have questions regarding this review, they should contact AECOM for further clarification.

Sincerely,

AECOM

Patura & Thomas

Patricia A. Thompson, EIT Traffic Engineer

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Josh A. Bocks, AICP, MBA Senior Transportation Planner/Project Manager

AECOM

FAÇADE REVIEW

14



February 28, 2019

City of Novi Planning Department 45175 W. 10 Mile Rd. Novi, MI 48375- 3024 Façade Review Status Summary: Approved, Section 9 Waiver Not Required

50850 Applebrooke Dr., Northville, MI 48167

Re: FACADE ORDINANCE REVIEW Preliminary & Final Site Plan Chick-Fill-A, JSP18-75 Façade Region: 1, Zoning District: RC

Dear Ms. McBeth;

The following is the Facade Review for the above referenced project based on the drawings prepared by GPD Group, dated 2/1/19. The percentages of materials proposed for each façade are as shown on the table below. The maximum and minimum percentages required by Ordinance Section 5.15 are shown in the right hand column. Materials that are in noncompliance with the Ordinance, if any, are identified in bold.

Building	East (12-Oaks)	West (Novi Rd.)	North	South	Ordinance Maximum (Minimum)
Brick	90%	94%	93%	92%	100% (30% Minimum)
Metal	10%	6%	7%	8%	50%

Сапору	East	West	North	South	Ordinance Maximum (Minimum)
Brick	52%	52%	54%	54%	100% (30% Minimum)
Metal	48%	48%	46%	46%	50%

Recommendation – As shown above the building is constructed primarily of Brick and is full compliance with the Façade Ordinance. The photographic samples of the materials shown on sheet A-302 do not adequately indicate the proposed colors (the sheet was printed in B&W). Therefore a sample board as required by Section 5.15.4.D should be provided prior to the Planning Commission meeting. The dumpster detail shown on sheet A-103 indicates that the exterior walls are constructed of Brick to match the primary building. The canopy shown on sheet A-303 indicates that the columns will be fully enclosed in Brick. The Brick used on the canopy is not identified as to color; it is assumed this brick will likewise match the primary building. The canopy is in full compliance with Section 5.15.12 of the Façade Ordinance which requires that not less than 30% of the canopies façade be a material matching the primary building. All components of the application are therefore in full compliance with the Façade Ordinance.

Notes to the Applicant:

1. It should be noted that all roof top equipment must be concealed from view from all vantage points both on-site and off-site using extended parapets or roof screens constructed of materials in compliance with the Façade Ordinance.

2. It should be noted that all proposed signs are not regulated by the Façade Ordinance and must comply with the City's Sign Ordinance.

4. Inspections – The Façade Ordinance requires inspection(s) for all projects. Materials displayed on the approved sample board (in this case the adjacent existing material) will be compared to materials to be installed. It is the applicant's responsibility to request the inspection of each façade material at the appropriate time. Inspections may be requested using the Novi Building Department's Online Inspection Portal with the following link. Please click on "Click here to Request an Inspection" under "Contractors", then click "Façade". <u>http://www.cityofnovi.org/Services/CommDev/OnlineInspectionPortal.asp</u>.

If you have any questions regarding this review, please do not hesitate to call.

Sincerely, DRN & Architects PC

Douglas R. Necci, AIA

FIRE REVIEW



CITY COUNCIL

Mayor Bob Gatt

Mayor Pro Tem Dave Staudt

Andrew Mutch

Laura Marie Casey

Kelly Breen

Ramesh Verma

Doreen Poupard

City Manager Peter E. Auger

Director of Public Safety Chief of Police David E. Molloy

Director of EMS/Fire Operations Jeffery R. Johnson

Assistant Chief of Police Erick W. Zinser

Assistant Chief of Police Scott R. Baetens

February 13, 2019

TO: Barbara McBeth- City Planner Sri Ravali Komaragiri- Plan Review Center Lindsay Bell-Plan Review Center Hannah Smith-Planning Assistant

RE: Chick-Fil-A

PSP# 18-0202 PSP# 19-0026

Project Description:

Build a 4990 S.Q.F.T. fast food restaurant off the ring road for Twelve Oaks Mall.

Comments:

- All fire hydrants **MUST** in installed and operational prior to any building construction begins.
- <u>CORRECTED 2/13/19 KSP-MUST</u> add a fire hydrant to the site plan. Distance is greater than 300' from fire hydrant to fire hydrant. (City of Novi Ordinance 11-68(F)(1)(c).
- <u>CORRECTED 2/13/19 KSP-MUST</u> provide additional access (fire lane access) around the building on the south east side of the structure. (IFC 503.1.1(2) IFC 503.1.1(3))
- All water-main sizes MUST be put on the plans for review.
- On plan #L-100, FDC location MUST be free of landscaping obstructions for 3' in all directions. Landscape prints) show obstructions at FDC location.

<u>Recommendation</u>: Approved with conditions

Sincerely,

Kevin S. Pierce-Fire Marshal City of Novi – Fire Dept.

Novi Public Safety Administration 45125 Ten Mile Road Novi, Michigan 48375 248.348.7100 248.347.0590 fax

cc: file

cityofnovi.org

WRITTEN STATEMENT



520 South Main Street, Suite 2531 Akron, Ohio 44311 Phone 330.572,2100 www.apdgroup.com

February 6, 2019 Job ± 2018223.15

Ms. Sri Komaragiri Planner City of Novi 45175 Ten Mile Road, Novi, MI 48375

RE: Chick-Fil-A: Written Statement 27750 Novi Road, Novi, MI 48377 Parcel Number 22-14-100-050

Dear Ms. Sri Komaragiri:

As required in the Planning Review Comments, included is the Written Statement for the proposed Chick-Fil-A restaurant and drive-thru at 27750 Novi Road. Previously the site and existing building served as a Denny's restaurant and is currently a vacant building. The overall feel of the site will be similar to its previous restaurant uses and fit within the overall character of Twelve Oaks Mall.

The proposed Chick-Fil-A restaurant will demolish the existing building and reconfigure the existing parking lot. Chick-Fil-A's new building is proposed to be 4,990 SF with 114 indoor seats and 16 outdoor seats. There is also a drive-thru lane with 22 car stack. With 60% of the customers with the drive-thru and 40% using the dining room. The restaurant and drive-thru are anticipated to be open for breakfast, lunch and dinner Monday through Saturday, and closed on Sundays.

The existing zoning is RC: Regional Commercial, which allows restaurants. The proposed use is RC with PD-2 Planned Department Overlay. The overlay district was created in the recent past is this site is required to rezone accordingly. A fast-food restaurant with drive-thru is required to obtain special use approval in the overlay district. Such uses are supported elsewhere in the Twelve Oaks Mall vicinity. McDonald's is nearby and has a double drive-thru at the southwest corner of West 12 Mile Road and Twelve Oaks Mall Road, which is also adjacent to one of the Twelve Oaks Mall entrances.

It should be noted the proposed Chick-Fil-A drive thru and vehicle entry/exit are only accessible from the Twelve Oaks Mall Road, meaning there is no direct access from Novi Road. A proposed sidewalk on Novi Road and pedestrian access between the building and sidewalk are shown on the enclosed site plan. The proposed layout supports both the sit-down and drive-thru use.

If you require any additional information, please contact the project coordinator at 330.572.2211 or via email at <u>ilyons@gpdgroup.com</u>.

Sincerely,

Josh Lyons, Project Manager

COMMUNITY IMPACT STATEMENT



520 South Main Street, Suite 2531 Akron, Ohio 44311 Phone 330.572.2100 www.gpdgroup.com

February 6, 2019 Job # 2018223.15

Ms. Sri Komaragiri Planner City of Novi 45175 Ten Mile Road, Novi, MI 48375

RE: Chick-Fil-A: Community Impact Statement 27750 Novi Road, Novi, MI 48377 Parcel Number 22-14-100-050

Dear Ms. Sri Komaragiri:

As required in the Application for Site Plan Approval and Land Use Approval, this letters serves as the Community Impact Statement for the proposed Chick-Fil-A restaurant and drive-thru. The proposed restaurant is located at 27750 Novi Road. Previously the site and existing building served as a Denny's restaurant and is currently a vacant building. The overall feel of the site will be similar to its previous restaurant uses and fit within the overall character of Twelve Oaks Mall.

The proposed Chick-Fil-A restaurant will demolish the existing building and reconfigure the existing parking lot. Chick-Fil-A's new building is proposed to be 4,990 SF with 114 indoor seats and 16 outdoor seats. There is also a drive-thru lane with 22 car stack. The restaurant and drive-thru are anticipated to be open for breakfast, lunch and dinner Monday through Saturday, and closed on Sundays. Hours of operation will be finalized by Chick-Fil-A and provided under separate cover. Chick-Fil-A anticipates 65-95 new jobs that are a mix between part time and full time employees to run the restaurant. Additionally, 75-85 construction jobs.

The existing zoning is RC: Regional Commercial, which allows restaurants. The proposed use is RC with PD-2 Planned Department Overlay. The fast-food drive-thru use requires special use approval. Such uses are supported elsewhere in the Twelve Oaks Mall vicinity. McDonald's is nearby and has a drive-thru at the southwest corner of West 12 Mile Road and Twelve Oaks Mall Road.

The overall site is 60,853+/- SF and only accessible from the Twelve Oaks Mall Road, meaning there is no direct access from Novi Road. The new development requires new water service connections for the 6" fire line and 2" domestic. The fire line serves the proposed fire hydrant. Additionally, the 6" sanitary sewer will be a new connection into the manhole near the northeast corner of the property.

Environmental factors and impacts of the proposed Chick-Fil-A are minimal as the site is already equipped to serve a commercial use. The natural features of the developed site are unknown, however the proposed site will match the features of the adjacent Mall. There are no unusual topography, habitat areas, wetlands, woodlands or historic trees onsite. Additionally, since the site was previously developed there will be no major impacts on the local wildlife. This location and adjacent properties are already commercialized.

2

Recognized Environmental Concerns (RECs), including consideration of vapor migration were not identified in connection with this site. The Phase 1 may be submitted upon request. Additionally, the proposed restaurant will not operate with chemicals requiring the need for a PIPP plan. There are no underground storage tanks proposed onsite, accept for the required underground water quality and grease trap. Both will follow local standards and will be approved by the appropriate jurisdictions for design conformities.

Social impacts of developing the site into a Chick-Fil-A are positive. Chick-Fil-A's have a community vibe providing a place for families to gather in the play area as well as providing support for the local community. Each Chick-Fil-A operator gets to make a positive impact in their own special way. This could be by awarding scholarships, supporting group and school fundraisers, hosting events and more.

The construction of a new Chick-Fil-A does not displace any existing uses or occupants as the existing site is currently a vacant building. The Traffic Impact Study is included in this report and concludes to have no additional impact and will not degrade the Novi Road/West Oaks Drive Twelve Oaks Drive South intersection. There are no anticipated permanent pollution increase to construct and operate the proposed Chick-Fil-A.

The proposed site amenities are an improvement to the already developed lot. Public sidewalk is proposed within Novi Road right-of-way, with connection to the Chick-Fil-A building pad.

Social impacts to the overall Twelve Oaks Mall is positive. The Mall does not own the property, but will conduct a separate review of the plans. The Mall has received a copy of the included site plans, building elevations and traffic study. This review will help start an advantageous relationship between both entities. The easements needed for cross access and utility purposes will help keep the relationship with the Mall in good standing.

As requested, the following information will be provided by Chick-Fil-A and provided under separate cover.

- Finalized Hours of Operation
- Expected annual number of police responses for the proposed development.
- Expected annual number of fire responses for the proposed development.
- Peak hour demand for Water
- Minimum and Maximum operating pressures for building water system

Chick-Fil-A – Novi, MI

February 6, 2019

If you require any additional information, please contact the project coordinator at 330.572.2211 or via email at <u>jlyons@gpdgroup.com</u>.

Sincerely,

Josh Lyons, Project Manager

Chick-Fil-A - Novi, MI

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TRAFFIC IMPACT STUDY

TRAFFIC IMPACT STATEMENT Proposed Chick-fil-A

City of Novi, Oakland County, Michigan



Prepared For:

5200 Buffington Road Atlanta, Georgia 30349

Prepared By:

GPD Group, Professional Corporation 520 South Main Street Suite 2531 Akron, OH 44311

January 2019

TRAFFIC IMPACT STATEMENT Proposed Chick-fil-A

City of Novi, Oakland County, Michigan

Prepared For:

Chick-fil-A 5200 Buffington Road Atlanta, Georgia 30349

Prepared By:

GPD Group, Professional Corporation 520 South Main Street Suite 2531 Akron, OH 44311

January 2019

Engineer's Seal



Michael A. Hobbs, P.E., PTOE Registration No. 6201052921 Certification No. 1346 January 24, 2019

Date



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I. Purpose:

This Traffic Impact Statement is being prepared at the request of the City of Novi in association with the proposed construction of a Chick-fil-A restaurant to be located along Novi Road in the City of Novi, Michigan. The purpose of this particular Traffic Impact Statement is to analyze the vehicular operating conditions of the external roadways in the vicinity of the proposed development; both before and after its construction to determine what, if any, impact the proposed development will have on the surrounding roadway network. All internal traffic operations related to the drive-thru operation and on-site parking will be addressed as part of a separate study.

II. Project Setting:

Study Area

The subject property currently contains one (1) vacated structure (former Denny's restaurant) and is located on the east side of Novi Road just north of the Interstate 96 / Novi Road interchange. The development within the study area consists solely of commercial land uses with the largest being the Twelve Oaks Mall located to the north east of the proposed site. See **Figure 1** for a project location map and **Figure 2** for an aerial photograph of the project area.

Area Roadway System

Currently, Novi Road exists as a six (6) lane asphalt roadway (three (3) travel lanes in each direction) with left and right turn lanes at various intersections. The current posted speed limit on Novi Road is 45 miles per hour (mph). According to information obtained from the Southeast Michigan Council of Governments (SEMCOG), Novi Road is classified as an 'Other Principal Arterial.'

There is one (1) existing signalized intersection and five (5) unsignalized intersections that are currently located within the study area that are of special interest to this project. The six (6) existing intersections included in this study are as follows:

Novi Road / West Oaks Drive / Twelve Oaks Drive South:

This intersection is currently signalized utilizing a mast arm configuration with signal poles located on each corner of the intersection. The intersection consists of four (4) approaches with the following lane configurations: NB Novi Road – six (6) lanes (left, left, thru, thru, thru, right), SB Novi Road – five (5) lanes (left, thru, thru, thru, right), EB West Oaks Drive – four (4) lanes (left, thru, right, right) and WB Twelve Oaks Drive South – three (3) lanes (left, left, thru-right).



Novi Road / One-Way Mall Drive (EB):

This intersection is currently unsignalized with the One-Way Mall Drive (EB) leg operating as a EB receiving-only lane. The intersection consists of two (2) approaches with the following lane configurations: NB Novi Road – five (5) lanes (thru, thru, thru, thru, thru-right) and SB Novi Road – three (3) lanes (thru, thru, thru). SB left turns are not permitted from Novi Road onto the One-Way Mall Drive.

One-Way Mall Drive (EB) / Commercial Drive #1:

This intersection is currently unsignalized and operates as a right-in / right-out with the Commercial Drive #1 approach operating under stop control. The intersection consists of two (2) approaches with the following lane configurations: NB Commercial Drive #1 – one (1) lane (right) and EB One-Way Mall Drive (EB) – two (2) lanes (thru, right). It should be noted that a third leg (east leg) of this intersection exists as a one (1) lane EB receiving-only lane.

Twelve Oaks Drive South / Twelve Oaks Mall Perimeter Road:

This intersection is currently unsignalized with all approaches operating under stop control. The intersection consists of three (3) approaches with the following lane configurations: NB Twelve Oaks Mall Perimeter Road – three (3) lanes (left, left-thru, thru), SB Twelve Oaks Mall Perimeter Road – two (2) lanes (thru, thru-right) and EB Twelve Oaks Drive South – two (2) lanes (left, right).

Twelve Oaks Mall Perimeter Road / One-Way Mall Drive (EB):

This intersection is currently unsignalized with the One-Way Mall Drive (EB) approach operating under yield control. The intersection consists of three (3) approaches with the following lane configurations: NB Twelve Oaks Mall Perimeter Road – two (2) lanes (thru, thru), SB Twelve Oaks Mall Perimeter Road – two (2) lanes (thru, thru) and EB One-Way Mall Drive (EB) – one (1) lane (right).

Twelve Oaks Mall Perimeter Road / Commercial Drive #2:

This intersection is currently unsignalized with the Commercial Drive #2 approach operating under stop control. The intersection consists of three (3) approaches with the following lane configurations: NB Twelve Oaks Mall Perimeter Road – two (2) lanes (left-thru, thru), SB Twelve Oaks Mall Perimeter Road – two (2) lanes (thru, thru-right) and EB Commercial Drive #2 – one (1) lane (left-right).



Existing Traffic Volumes

For this traffic study, Traffic Data Collection, LLC performed turning movement traffic counts at the following four (4) study intersections on Thursday, January 10, 2019:

- Novi Road / West Oaks Drive / Twelve Oaks Drive South
- Twelve Oaks Drive South / Twelve Oaks Mall Perimeter Road
- One-Way Mall Drive (EB) / Commercial Drive #1
- Twelve Oaks Mall Perimeter Road / Commercial Drive #2

Utilizing the data from the counted intersections above, traffic volumes for the remaining two (2) study intersections were calculated based on the upstream and downstream traffic volumes. From the count data, the AM peak hour of the study area was determined to occur from 8:00 AM to 9:00 AM while the PM peak hour was found to occur from 4:30 PM to 5:30 PM. See **Appendix A** for printouts of the turning movement counts.

III. Proposed Action:

The proposed development will be a Chick-fil-A restaurant consisting of a total of 4,990 square feet (SF) of gross floor area. The proposed development will be constructed on the east side of Novi Road, north of the Interstate 96 / Novi Road interchange. See **Figure 3** for a preliminary site plan.

As shown on the site plan, the proposed development will continue to utilize the one (1) full movement driveway as well as the one (1) right-in / right-out driveway that currently serve the site. The right-in / right-out access point is provided along the One-Way Mall Drive (EB) and will be referred to as Commercial Drive #1 while the full movement access point is provided along Twelve Oaks Perimeter Mall Road and will be referred to as Commercial Drive #2. It should be noted that access to these two (2) driveways is currently provided, and will continue to be provided following the completion of this project, through two (2) shared access points with the neighboring business (La-Z-Boy) immediately to the east of the proposed site.

IV. Trip Generation:

Trip Generation Calculations

The trip generation calculations were performed for the proposed development utilizing the Institute of Transportation Engineers (ITE) <u>Trip Generation Manual</u>, 10th Edition. This manual includes data from numerous trip generation studies of different land uses that have been performed by public agencies, developers, consulting firms and associations and submitted to ITE. It serves as a tool for estimating the number of vehicle trips generated by a proposed development. For this study, the trip generation calculations will evaluate the AM and PM peak periods.



According to information contained in the ITE <u>Trip Generation Manual, 10th Edition</u>, the proposed Chick-fil-A restaurant is expected to generate the following trip ends once constructed:

LAND USE 934 - Fast-Food Restaurant with Drive-Through Window

- i. Weekday AM Peak Hour (i.e. morning rush hour): = 201 trip ends (102 enter and 99 exit)
 - a. Pass-By Trips (49%)
 - = 98 trip ends (50 enter and 48 exit)
 - b. Net Primary Trips
 - = 103 trip ends (52 enter and 51 exit)
- ii. Weekday PM Peak Hour (i.e. evening rush hour):
 - = 164 trip ends (86 enter and 78 exit)
 - a. Pass-By Trips (50%)
 - = 82 trip ends (43 enter and 39 exit)
 - b. Net Primary Trips
 - = 82 trip ends (43 enter and 39 exit)

Note that the variable utilized in the trip generation calculations was 'square feet of gross floor area', which in this particular case is 4,990 SF. See **Appendix B** for the detailed trip generation calculations for the proposed Chick-fil-A restaurant.

A certain portion of vehicles that will travel to and from the site will occur as pass-by traffic. Pass-by trips are made as intermediate stops on the way from an origin to a primary trip destination without a route diversion. Since these trips are attracted from the traffic passing the site on the adjacent roadways, pass-by vehicles that are currently traveling along Novi Road will now be rerouted into and out of the site. Trip generation studies for a fast-food restaurant with a drive-thru window are documented in the ITE <u>Trip Generation Handbook</u> estimate that pass-by trips make up an average of 49% of the total site trips during the AM peak hour and 50% during the PM peak hour. The remaining trips traveling to and from the site are referred to as primary trips as they consist of new trips on the roadway network traveling directly between the origin and the primary trip destination. While the pass-by capture reduction was applied to the trip generation calculations for the proposed Chick-fil-A, it should be noted that these pass-by trips are still assigned as new turning movements entering and exiting the site at the proposed access locations.

V. Traffic Volumes:

'No-Build' Traffic Volumes

The construction of the proposed development is anticipated to be completed in the year 2019 which will serve as the Opening Year for the study. The existing traffic volumes from the turning movement traffic counts will be utilized as the Opening Year 2019 'No-Build' traffic volumes. **Figure 4** displays the Opening Year 2019 'No-Build' peak hour traffic volumes.



Site Trip Distribution & Assignment

The new trips discussed in the Trip Generation section were distributed and assigned to the roadway network based on existing travel volumes/patterns near the site, the surrounding land uses and roadway network, and engineering judgment. It was estimated that 45% of the projected site trips will travel to/from the south on Novi Road, 30% will travel to/from the north on Novi Road, 10% will travel to/from the west on West Oaks Drive, 10% will travel to/from the north on Twelve Oaks Mall Perimeter Road and the remaining 5% will travel to/from the south on Twelve Oaks Mall Perimeter Road.

It is expected that more traffic would likely utilize Commercial Drive #2 for both entering and exiting the site. For entering traffic, only traffic coming from the South on Novi Road will be able to utilize Commercial Drive #1 (right-in / right-out) as it connects to a one-way EB roadway that can only be accessed from vehicles traveling in the NB direction on Novi Road. Therefore, all other entering traffic will need to utilize Commercial Drive #2. For exiting traffic, all traffic not destined to travel south on Twelve Oaks Mall Perimeter Road will need to utilize Commercial Drive #2 as it is the only driveway that will allow vehicles to travel north on Twelve Oaks Mall Perimeter Road and to access Novi Road.

Pass-by trips, since they occur from traffic already traveling by the site, were developed and distributed based on the existing directional distribution of peak hour traffic volumes along Novi Road adjacent to the site. Due to the roadway configuration and limited access to the site from Novi Road, pass-by trips will technically occur as diverted link trips. The peak hour distribution and assignment of new site trips, including both primary and pass-by trips are included in **Appendix C**. An additional figure that combines both primary and pass-by trips to show the total net traffic from the proposed site was also provided.

'Build' Traffic Volumes

In order to create the 'Build' traffic volumes, the site trips discussed in the previous section were added to the Opening Year 2019 'No-Build' peak hour traffic volumes. The 'Build' traffic volumes will allow a direct comparison between the projected traffic conditions without the development and those following the completion of the proposed Chick-fil-A restaurant. **Figure 5** displays the Opening Year 2019 'Build' peak hour traffic volumes.

VI. Traffic Analysis:

HCM Intersection Capacity Analysis

Intersection Capacity analyses were performed for the Opening Year 2019 'No-Build' and 'Build' traffic conditions in order to determine the operating conditions that would be expected to be experienced at each intersection. The quality of the operating conditions experienced by an intersection is measured in terms of Level-of-Service (LOS). Levels-of-Service can range from LOS A to LOS F. Level-of-Service ratings of A – D are considered to be in the acceptable range while Levels-of-Service E and F are considered to be below average with significant levels of delay experienced by vehicles. The Level-of-Service thresholds vary for signalized and unsignalized intersections. The thresholds related to average control delay for both signalized and unsignalized intersections are as follows:



Level-of- Service	Delay Threshold – Signalized (Sec)	Delay Threshold – Unsignalized (Sec)
Α	< 10	< 10
В	> 10 - 20	> 10 – 15
С	> 20 - 35	> 15 – 25
D	> 35 - 55	> 25 - 35
E	> 55 - 80	> 35 - 50
F	> 80	> 50

The capacity analyses were performed for the weekday AM and PM peak hours utilizing the computer program *Synchro* (*Version 9*) developed by Trafficware. *Synchro* can provide a macroscopic analysis of an entire roadway system and take into account the interactions and impact of traffic which travels from one intersection to the next. Analysis results reported in the following tables are based on the <u>Highway Capacity</u> <u>Manual (HCM)</u> calculation outputs from the Synchro software. The existing signal timings (cycle lengths, splits and clearance intervals) for the Novi Road / West Oaks Drive / Twelve Oaks Drive South intersection were provided by the Oakland County Road Commission for use in this study. These timings were utilized for the capacity analysis of both the Opening Year 2019 'No-Build' and 'Build' traffic conditions. It should be noted that this signalized intersection currently utilizes traffic adaptive operation and these timings represent the back-up timings as noted on the signal permit.

Table 1 on the following page summarizes the HCM Intersection Capacity Analysis and details the Levels-of-Service and delay experienced under the Opening Year 2019 'No-Build' vs. 'Build' traffic conditions for the signalized intersection of Novi Road / West Oaks Drive / Twelve Oaks Drive South. See **Appendix D** for the HCM analysis printouts.



Table 1: HC	M Inter	section	Capacit	y Analys	sis Sumi	nary		
Opening Year 2019 'No	-Build'	vs. 'Bui	ld' Con	ditions -	- Signal	zed Inte	ersectio	n
	1	No-Build'				'Build' C		
Intersection / Movement	AM	Peak	PM	Peak	AM	Peak	PM	Peak
mersection / movement	LOS	Delay (sec)	LOS	Delay (sec)	LOS	Delay (sec)	LOS	Delay (sec)
Novi Road / West Oaks Drive /								
Twelve Oaks Drive South								
Eastbound Left	D	40.4	D	47.4	D	40.3	D	47.4
Eastbound Thru	D	40.0	D	43.2	D	40.2	D	43.5
Eastbound Right	D	36.9	D	49.8	D	36.9	D	49.8
Eastbound Approach	D	37.6	D	48.8	D	37.7	D	48.8
Westbound Left	D	41.4	D	42.1	D	41.7	D	43.1
Westbound Thru-Right	D	40.6	D	35.4	D	43.7	D	35.3
Westbound Approach	D	41.3	D	41.0	D	42.4	D	41.6
Northbound Left	D	42.8	Ŧ	213.9	D	42.8	F	213,9
Northbound Thru	В	19.7	С	33.0	В	19.6	С	32.8
Northbound Right	В	19.3	D	37.2	В	19.3	D	37.2
Northbound Approach	С	22.8	F	80.5	С	22.8	Ŧ	87.1
Southbound Left	В	12.6	С	21.4	В	14.2	С	24.2
Southbound Thru	В	10.3	В	19.4	В	11.1	С	20.2
Southbound Right	A	8.7	В	15.9	A	9.3	В	16.6
Southbound Approach	В	10.3	В	19.3	В	11.2	С	20.3
Intersection Total	B	18.0	D	51.5	С	20.6	D	51.6

Note: Red highlighted cells indicate a Level of Service F.

As shown in **Table 1**, all movements and approaches of the Novi Road / West Oaks Drive / Twelve Oaks Drive South intersection are projected to operate at an acceptable LOS D or better during the AM and PM peak hours under the Opening Year 2019 'No-Build' and 'Build' traffic conditions with the exception of the NB left-turn movement and approach during the PM peak hour (which likely operates better than shown due to the previously mentioned traffic adaptive operation). As can be seen in the capacity analysis results, the new traffic from the proposed development will have no additional impact on the operation of the NB left-turn movement and only a minimal impact to the NB approach overall. Most importantly, no movements are expected to degrade to an unacceptable Level-of-Service as a result of the additional site traffic. This indicates that the Novi Road / West Oaks Drive / Twelve Oaks Drive South intersection is anticipated to have sufficient vehicular capacity to accommodate the additional traffic generated by the proposed development.

Table 2 on the following page summarizes the HCM Intersection Capacity Analysis and details the Levels-of-Service and delay experienced under the Opening Year 2019 'No-Build' vs. 'Build' traffic conditions for the unsignalized intersections within the study area. See **Appendix D** for the HCM analysis printouts. It should be noted that there are no capacity analysis results for the Novi Road / One-Way Mall Drive (EB) intersection as no movements at this intersection will incur any delay, from an isolated intersection analysis perspective.



Table 2: HC			•	• •		-		
Opening Year 2019 'No-E	Build' v	s. 'Build	′ Condi	tions – l	Jnsigna			
	4	No-Build'	Conditio	ns		'Build' Co	onditions	i
Intersection / Movement	AM	Peak	PM	Peak	AM	Peak	PM	Peak
intersection / wovement	LOS	Delay (sec)	LOS	Delay (sec)	LOS	Delay (sec)	LOS	Delay (sec)
One-Way Mall Drive (EB) / Commercial Drive #1								
Northbound Right	А	0.0	А	9.2	A	0.0	А	9.2
Northbound Approach	A	0.0	A	9.2	A	0.0	A	9.2
Twelve Oaks Mall Perimeter Road / Twelve Oaks Drive South								
Eastbound Left	А	9.1	В	12.3	A	9.9	В	12.8
Eastbound Right	А	7.3	В	10.8	A	8.5	В	12.5
Eastbound Approach	Α	8.9	В	11.5	A	9.3	В	12.6
Northbound Left	А	8.4	В	12.7	A	9.5	В	14.6
Northbound Left-Thru	A	8.3	В	13.2	A	9.5	С	15.4
Northbound Thru	А	6.1	А	7.5	A	6.4	A	7.7
Northbound Approach	Α	7.9	В	12.4	A	9.3	В	14.4
Southbound Thru	А	8.0	А	9.8	A	8.7	В	10.3
Southbound Thru-Right	А	7.5	В	12.3	A	8.2	В	13.4
Southbound Approach	Α	7.6	В	12.0	A	8.4	В	13.0
Intersection Total	A	8.5	В	12.0	A	9.2	B	13.5
Twelve Oaks Mall Perimeter Road / One-Way Mall Drive (EB)								
Eastbound Right	A	8.7	A	9.5	A	8.9	A	9.7
Eastbound Approach	A	8.7	A	9.5	A	8.9	A	9.7
Twelve Oaks Mall Perimeter Road / Commercial Drive #2								
Eastbound Left-Right	А	0.0	В	11.1	В	10.4	С	15.6
Eastbound Approach	Α	0.0	В	11.1	В	10.4	С	15.6
Northbound Left-Thru	Α	0.0	A	0.0	A	7.6	А	8.0
Northbound Thru	A	0.0	A	0.0	A	0.0	A	0.0
Northbound Approach	A	0.0	A	0.0	A	1.1	A	0.1

Note: Red highlighted cells indicate a Level of Service F.

As shown in **Table 2**, all unsignalized intersections within the study area are anticipated to operate at an acceptable LOS C or better during the AM and PM peak hours under the Opening Year 2019 'No-Build' and 'Build' traffic conditions. This indicates that the unsignalized intersections within the study area are anticipated to provide sufficient vehicular capacity to accommodate the additional traffic generated by the proposed Chick-fil-A restaurant.



Chick-fill Iraffic Impact Statement

VII. Summary and Recommendations:

This Traffic Impact Statement is being prepared at the request of the City of Novi in association with the proposed construction of a Chick-fil-A restaurant to be located along Novi Road in the City of Novi, Michigan. The purpose of this particular Traffic Impact Statement is to analyze the vehicular operating conditions of the external roadways in the vicinity of the proposed development; both before and after its construction to determine what, if any, impact the proposed development will have on the surrounding roadway network. All internal traffic operations related to the drive-thru operation and on-site parking will be addressed as part of a separate study.

In Summary,

- 1. The proposed development will be a Chick-fil-A restaurant consisting of a total of 4,990 square feet of gross floor area.
- 2. According to the site plan, the proposed development will continue to utilize the one (1) full movement driveway as well as the one (1) right-in / right-out driveway that currently serve the site. The right-in / right-out access point is provided along One-Way Mall Drive (EB) and will be referred to as Commercial Drive #1 while the full movement access point is provided along Twelve Oaks Perimeter Mall Road and will be referred to as Commercial Drive #2. It should be noted that access to these two (2) driveways is currently provided, and will continue to be provided following the completion of this project, through two (2) shared access points with the neighboring business (La-Z-Boy) immediately to the east of the proposed development.
- 3. The proposed development is expected to generate 201 trip ends during the AM peak hour (102 entering and 99 exiting) and 164 trip ends during the PM peak hour (86 entering and 78 exiting).
- 4. The capacity analysis found that all movements and approaches of the Novi Road / West Oaks Drive / Twelve Oaks Drive South intersection are projected to operate at an acceptable LOS D or better during the AM and PM peak hours under the Opening Year 2019 'No-Build' and 'Build' traffic conditions with the exception of the NB left-turn movement and approach during the PM peak hour. However, the additional traffic from the proposed development will have no additional impact on the operation of the NB left-turn movement and only a minimal impact to the NB approach overall. Most importantly, no movements are expected to degrade to an unacceptable Level-of-Service as a result of the additional project traffic. This indicates that the Novi Road / West Oaks Drive / Twelve Oaks Drive South intersection is anticipated to have sufficient vehicular capacity to accommodate the additional traffic generated by the proposed development.
- 5. The capacity analysis determined that all unsignalized intersections within the study area are anticipated to operate at an acceptable LOS C or better during the AM and PM peak hours under the Opening Year 2019 'No-Build' and 'Build' traffic conditions.



Chick-Bilt Traffic Impact Statement

Based on the information and analyses in this study, GPD Group recommends the following:

1. The proposed development should be constructed as planned utilizing the two (2) existing driveways that currently serve the site.



FIGURES



CAD FILE OF YOTH YOTH AND YE DAVE, MY TRAFFICY FOURSEY . FOURS 1_LOCATION MAP.DWG DAVE YY TY YOTH THES 44:443 AM



CAD FILE OF X000 X000X23/15 TWELVE OAKS, M/TRAFFIC/FIQURES/2 FIGURE 2_AEBALDWG DATE 1/16/2019 Thefe 10-16-26 AM





cud frie. Gradiski 2018/2018/237/15 TWENE GNG; MYTRAFTCYFGURESYA. FIGURE 4_2019 'NO-BURD' VOLUMESONG GNG: 1718/2010 THE: DA7344 AM



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APPENDIX A: TURNING MOVEMENT COUNTS



www:tdccounts.com <u>Phone: 586.786-5407</u> Traffic Study Performed For: **GPD Group**

Project: Novi Traffic Impact Study Study:4 Hr. Video Turning Movement Count Weather: Sunny/Cldy, Dry Deg's 30's Count By Miovision Video VCU 4G2 & 5RA File Name : TMC_1 Novi & Twelve Oaks_S_1-10-19 Site Code : TMC_1 Start Date : 1/10/2019 Page No : 1

4 Hour video traffic study was conducted during typical weekday (Tuesday-Thursday) from 7:00 AM - 9:00 AM morning & 4:00 PM - 6:00 PM afternoon peak hours, while school was in session.

			lovi Ro outhbo			Τv)aks D /estboເ		outh			lovi Ro orthbo					Oaks astboi	-		
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App Total	Right	Thru	Left	Peds	App Total	Right	Thru	Left	Peds	App Total	Int. Tola
07:00 AM	0	124	0	0	124	1	0	4	0	5	14	59	8	0	81	16	1	0	0	17	22
07:15 AM	1	139	ŏ	õ	140	Ó	õ	2	ō	2	8	88	11	ō	107	14	Ó	õ	Ō	14	26
07:30 AM	0	149	Õ	Õ	149	1	1	3	ō	5	18	78	19	ō	115	9	1	õ	Ō	10	27
07:45 AM	7	174	Ō	0	181	Ó	Ó	3	Ō	3	22	132	16	Ō	170	23	0	Ō	Ō	23	37
Total	8	586	0	0	594	2	1	12	0	15	62	357	54	0	473	62	2	0	0	64	114
08:00 AM	2	167	0	0	169	0	0	1	0	1	13	120	18	0	151	14	1	5	0	20	34
08:15 AM	5	146	1	0	152	1	0	6	0	7	26	104	26	0	156	17	1	3	0	21	33
08:30 AM	1	194	0	0	195	1	0	12	0	13	12	108	17	0	137	18	0	3	Ō	21	36
08:45 AM	5	193	1	0	199	0	2	14	0	16	36	98	21	0	155	16	1	2	0	19	38
Total	13	700	2	0	715	2	2	33	0	37	87	430	82	0	599	65	3	13	0	81	143
** BREAK **	*																				
04:00 PM	13	211	3	0	227	8	8	115	0	131	67	178	91	0	336	94	8	11	0	113	80
04:15 PM	9	192	7	0	208	9	10	104	0	123	67	166	70	0	303	94	10	14	0	118	75
04:30 PM	7	213	6	0	226	8	11	86	0	105	65	167	67	0	299	70	12	17	0	99	72
04:45 PM	16	202	4	0	222	11	10	121	0	142	60	164	100	0	324	73	9	11	0	93	78
Total	45	818	20	0	883	36	39	426	0	501	259	675	328	0	1262	331	39	53	0	423	306
05:00 PM	12	227	10	0	249	11	10	121	0	142	47	188	80	0	315	81	12	9	0	102	80
05:15 PM	12	252	6	Ō	270	7	9	100	ō	116	55	217	89	ō	361	103	2	18	ō	123	87
05:30 PM	14	169	5	Ō	188	6	6	104	õ	116	29	152	75	ō	256	73	7	10	õ	90	65
05:45 PM	14	246	3	1	264	9	10	99	1	119	55	179	95	0	329	76	6	9	0	91	80
Total	52	894	24	1	971	33	35	424	1	493	186	736	339	0	1261	333	27	46	0	406	313
Grand Total	118	2998	46	1	3163	73	77	895	1	1046	594	2198	803	0	3595	791	71	112	0	974	877
Apprch %	3.7	94.8	1.5	0		7	7.4	85.6	0.1		16.5	61.1	22.3	0		81.2	7.3	11.5	0		
Total %	1.3	34.2	0.5	0	36	0.8	0.9	10.2	0	11.9	6.8	25	9:1	0	41	9	0.8	1.3	0	11.1	
Pass Cars	117	2952	46	0	3115	73	76	887	0	1036	587	2167	788	0	3542	779	70	111	0	960	865
% Pass Cars	99.2	98.5	100	0	98.5	100	98.7	99.1	0	99	98.8	98.6	98.1	0	98.5	98.5	98.6	99.1	0	98.6	98.
Single Units	1	34	0	0	35	0	1	6	0	7	5	24	12	0	41	9	1	1	0	11	9
% Single Units	0.8	1.1	0	0	1.1	0	1.3	0.7	0	0.7	0.8	1.1	1.5	0	1.1	1.1	1.4	0.9	0	1.1	1.
Heavy Trucks	0	12	0	0	12	0	0	2	0	2	2	7	3	0	12	3	0	0	0	3	2
% Heavy Trucks	0	0.4	0	0	0.4	0	0	0.2	0	0.2	0.3	0.3	0.4	0	0.3	0.4	0	0	0	0.3	0.
Peds	0	0	0	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	
% Peds	0	0	0	100	0	0	0	0	100	0.1	0	0	0	0	0	0	0	0	0	0	

TDC Traffic Comments: Signalized intersection with push button ped. signals for west, north & east legs. Overhead NTOR electronic case for all approach legs. Video VCU cameras were located within NW & SE intersection quadrants. Note: Peds. are excluded from peak hour reports. Traffic study was performed for Novi Traffic Impact Study (Formerly Denny's @ 27750 Novi Road for GPD Group, Youngstown Ohio.



www:tdccounts.com <u>Phone: 586.786-5407</u> Traffic Study Performed For: **GPD Group**

Project: Novi Traffic Impact Study Study:4 Hr. Video Turning Movement Count Weather: Sunny/Cldy, Dry Deg's 30's Count By Miovision Video VCU 4G2 & 5RA File Name : TMC_1 Novi & Twelve Oaks_S_1-10-19 Site Code : TMC_1 Start Date : 1/10/2019 Page No : 2





www:tdccounts.com <u>Phone: 586.786-5407</u> Traffic Study Performed For: *GPD Group*

Project: Novi Traffic Impact Study Study:4 Hr. Video Turning Movement Count Weather: Sunny/Cldy, Dry Deg's 30's Count By Miovision Video VCU 4G2 & 5RA File Name : TMC_1 Novi & Twelve Oaks_S_1-10-19 Site Code : TMC_1 Start Date : 1/10/2019 Page No : 3

			Road bound		Twe	lve Oak West	s Drive bound	South			Road bound			W. Oak Eastt	s Drive bound	9	
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Tota
Peak Hour Anal	sis Fror	n 07:00	AM to 1	1:45 AM	- Peak 1	of 1											
Peak Hour for E	ntire Inte	rsection	Begins	at 08:00	AM												
08:00 AM	2	167	0	169	0	0	1	1	13	120	18	151	14	1	5	20	341
08:15 AM	5	146	1	152	1	0	6	7	26	104	26	156	17	1	3	21	336
08:30 AM	1	194	0	195	1	0	12	13	12	108	17	137	18	0	3	21	366
08:45 AM	5	193	1	199	0	2	14	16	36	98	21	155	16	1	2	19	389
Total Volume	13	700	2	715	2	2	33	37	87	430	82	599	65	3	13	81	1432
% App. Total	1.8	97.9	0.3		5.4	5.4	89.2		14.5	71.8	13.7		80.2	3.7	16		
PHF	.650	.902	.500	.898	.500	.250	.589	.578	.604	.896	788	.960	.903	.750	.650	.964	.920
Pass Cars	13	684	2	699	2	2	32	36	85	418	77	580	60	2	13	75	1390
% Pass Cars	100	97.7	100	97.8	100	100	97.0	97.3	97.7	97.2	93.9	96.8	92.3	66.7	100	92.6	97.1
Single Units	0	12	0	12	0	0	0	0	2	8	4	14	3	1	0	4	30
% Single Units	0	1.7	0	1.7	0	0	0	0	2.3	1.9	4.9	2.3	4.6	33,3	0	4.9	2.1
Heavy Trucks	0	4	0	4	0	0	1	1	0	4	1	5	2	0	0	2	12
% Heavy Trucks	0	0.6	0	0.6	0	0	3.0	2.7	0	0.9	1.2	0.8	3.1	0	0	2.5	0.0
Peds	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(
% Peds	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(





www:tdccounts.com <u>Phone: 586.786-5407</u> Traffic Study Performed For: **GPD Group**

Project: Novi Traffic Impact Study Study:4 Hr. Video Turning Movement Count Weather: Sunny/Cldy, Dry Deg's 30's Count By Miovision Video VCU 4G2 & 5RA File Name : TMC_1 Novi & Twelve Oaks_S_1-10-19 Site Code : TMC_1 Start Date : 1/10/2019 Page No : 4

			Road bound		Twe	lve Oak West	s Drive bound	South			Road bound			W. Oak Eastt	s Drive	•	
Start Time	Right	Thru	Left	App: Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int, Tota
Peak Hour Analy Peak Hour for E						of 1			25.7 1								
04:30 PM	7	213	6	226	8	11	86	105	65	167	67	299	70	12	17	99	72
04:45 PM	16	202	4	222	11	10	121	142	60	164	100	324	73	9	11	93	78
05:00 PM	12	227	10	249	11	10	121	142	47	188	80	315	81	12	9	102	80
05:15 PM	12	252	6	270	7	9	100	116	55	217	89	361	103	2	18	123	870
Total Volume % App. Total	47 4,9	894 92.5	26 2.7	967	37 7.3	40 7.9	428 84.8	505	227 17.5	736 56.7	336 25.9	1299	327 78.4	35 8.4	55 13.2	417	318
PHF	.734	.887	.650	.895	.841	.909	.884	.889	.873	.848	.840	.900	.794	.729	.764	.848	.910
Pass Cars	46	885 99.0	26 100	957 99.0	37 100	40 100	423 98.8	500 99.0	226 99.6	733 99.6	335 99.7	1294 99.6	326 99.7	35 100	55 100	416 99.8	316 99.1
% Pass Cars Single Units	97.9 1	99.0 6	001	99.0	0	0	90.0 4	35.0 4	35 0	33.0	33.7	4	1	0	0	1	1
% Single Units	2.1	0.7	ŏ	0.7	ŏ	ŏ	0.9	0.8	0.4	0.4	õ	0.3	0.3	õ	Ō	0.2	0.
Heavy Trucks	0	3	ŏ	3	ō	ō	1	1	0	0	1	1	0	0	0	0	I
% Heavy Trucks	Ō	0.3	0	0.3	0	0	0.2	0.2	0	0	0.3	0.1	0	0	0	0	0.
Peds	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
% Peds	ō	ō	õ	Ō	Ó	0	0	0	0	0	0	0	0	0	0	0	(I)





www:tdccounts.com <u>Phone: 586.786-5407</u> Traffic Study Performed For: **GPD Group**

Project: Novi Traffic Impact Study Study:4 Hr. Video Turning Movement Count Weather: Sunny/Cldy, Dry Deg's 30's Count By Miovision Video VCU 4G2 & 5RA

File Name : TMC_1 Novi & Twelve Oaks_S_1-10-19 Site Code : TMC_1 Start Date : 1/10/2019 Page No : 5

Aerial Photo





www:tdccounts.com <u>Phone: 586.786-5407</u> Traffic Study Performed For: *GPD Group*

Project: Novi Traffic Impact Study Study:4 Hr. Video Turning Movement Count Weather: Sunny/Cldy, Dry Deg's 30's Count By GH Jamar Ultra Board #22 File Name : TMC_2 Twelve Oaks Mall_S & Twelve Oak Mall_1-10-19 Site Code : TMC_2 Start Date : 1/10/2019 Page No : 1

4 Hour video traffic study was conducted during typical weekday (Tuesday-Thursday) from 7:00 AM - 9:00 AM morning & 4:00 PM - 6:00 PM afternoon peak hours, while school was in session.

			ks	its - Heavy Truc	- Single Un	- Pass Cars	Groups Printed			
	South	Daks Drive astbound	Twelve C	Drive	Oaks Mall lorthbound	Twelve	Drive	Oaks Mall		
Int. Total	App. Total	Left	Right	App. Total	Left	Thru	App. Total	Thru	Right	Start Time
23	16	14	2	5	4	1	2	1	1	07:00 AM
14	9	9	0	2	1	1	3	2	1	07:15 AM
25	18	18	0	2	1	1	5	1	4	07:30 AM
30	22	19	3	3	2	1	5	4	1	07:45 AM
92	65	60	5	12	8	4	15	8	7	Total
20	13	12	1	3	1	2	4	3	1	08:00 AM
37	25	23	2	6	4	2	6	5	1	08:15 AM
32	15	10	5	4	3	1	13	4	9	08:30 AM
57	37	33	4	9	7	2	11	2	9	08:45 AM
146	90	78	12	22	15	7	34	14	20	Total
										** BREAK ***
227	77	39	38	100	82	18	50	0	50	04:00 PM
235	89	47	42	94	80	14	52	8	44	04:15 PM
226	76	38	38	89	75	14	61	17	44	04:30 PM
236	67	26	41	104	81	23	65	13	52	04:45 PM
924	309	150	159	387	318	69	228	38	190	Total
233	73	31	42	93	81	12	67	8	59	05:00 PM
209	60	25	35	87	80	7	62	13	49	05:15 PM
177	38	23	15	70	58	12	69	17	52	05:30 PM
207	65	23	42	94	78	16	48	13	35	05:45 PM
826	236	102	134	344	297	47	246	51	195	Total
1988	700	390	310	765	638	127	523	111	412	Grand Total
		55.7	44.3		83.4	16.6		21.2	78.8	Apprch %
	35.2	19.6	15.6	38.5	32.1	6.4	26.3	5.6	20.7	Total %
1966	692	386	306	759	635	124	515	107	408	Pass Cars
98.9	98.9	99	98.7	99.2	99.5	97.6	98.5	96.4	99	% Pass Cars
17	6	2	4	5	3	2	6	4	2	Single Units
0.9	0.9	0.5	1.3	0.7	0.5	1.6	1.1	3.6	0.5	% Single Units
5	2	2	0	1	0	1	2	0	2	Heavy Trucks
0.3	0.3	0.5	ō	0.1	Ō	0.8	0.4	Ó	0.5	% Heavy Trucks

TDC Traffic Comments: Non-signalized "T" intersection, with right turn slip lanes. Note: Westbound traffic queued within intersection to Novi Road during 4:45 PM - 5:00 PM peak hour. Traffic study was performed for Novi Traffic Impact Study (Formerly Denny's @ 27750 Novi Road for GPD Group, Youngstown Ohio.



www:tdccounts.com <u>Phone: 586.786-5407</u> Traffic Study Performed For: **GPD Group**

Project: Novi Traffic Impact Study Study:4 Hr. Video Turning Movement Count Weather: Sunny/Cldy, Dry Deg's 30's Count By GH Jamar Ultra Board #22 File Name : TMC_2 Twelve Oaks Mall_S & Twelve Oak Mall_1-10-19 Site Code : TMC_2 Start Date : 1/10/2019 Page No : 2





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Project: Novi Traffic Impact Study Study:4 Hr. Video Turning Movement Count Weather: Sunny/Cldy, Dry Deg's 30's Count By GH Jamar Ultra Board #22 File Name : TMC_2 Twelve Oaks Mall_S & Twelve Oak Mall_1-10-19 Site Code : TMC_2 Start Date : 1/10/2019 Page No : 3

		e Oaks Mall Southbound			Oaks Mal			Oaks Drive Eastbound		
Start Time	Right	Thru	App. Total	Thru	Left	App. Total	Right	Left	App. Total	Int. Tota
Peak Hour Analysis From	07:00 AM to	11:45 AM -	Peak 1 of 1			1.11				
Peak Hour for Entire Inters	section Begin	ns at 08:00	AM							
08:00 AM	1	3	4	2	1	3	1	12	13	20
08:15 AM	1	5	6	2	4	6	2	23	25	37
08:30 AM	9	4	13	1	3	4	5	10	15	32
08:45 AM	9	2	11	2	7	9	4	33	37	57
Total Volume	20	14	34	7	15	22	12	78	90	146
% App. Total	58.8	41.2		31.8	68.2		13.3	86.7		
PHF	.556	.700	.654	.875	.536	.611	.600	.591	.608	.640
Pass Cars	19	13	32	7	15	22	9	78	87	141
% Pass Cars	95.0	92.9	94.1	100	100	100	75.0	100	96.7	96.6
Single Units	0	1	1	0	0	0	3	0	3	4
% Single Units	0	7.1	2.9	0	0	0	25.0	0	3.3	2.7
Heavy Trucks	1	0	1	0	0	0	0	0	0	1
% Heavy Trucks	5.0	0	2.9	0	0	0	0	0	0	0.7





www:tdccounts.com <u>Phone: 586.786-5407</u> Traffic Study Performed For: *GPD Group*

Project: Novi Traffic Impact Study Study:4 Hr. Video Turning Movement Count Weather: Sunny/Cldy, Dry Deg's 30's Count By GH Jamar Ultra Board #22 File Name : TMC_2 Twelve Oaks Mall_S & Twelve Oak Mall_1-10-19 Site Code : TMC_2 Start Date : 1/10/2019 Page No : 4

		e Oaks Mall Southbound			Oaks Mal			Oaks Drive Eastbound		
Start Time	Right	Thru	App. Total	Thru	Left	App. Total	Right	Left	App. Total	Int. Total
Peak Hour Analysis From	12:00 PM to	05:45 PM	- Peak 1 of 1							
Peak Hour for Entire Inters	section Begin	ns at 04:15	PM							
04:15 PM	44	8	52	14	80	94	42	47	89	235
04:30 PM	44	17	61	14	75	89	38	38	76	226
04:45 PM	52	13	65	23	81	104	41	26	67	236
05:00 PM	59	8	67	12	81	93	42	31	73	233
Total Volume	199	46	245	63	317	380	163	142	305	930
% App. Total	81.2	18.8		16.6	83.4		53.4	46.6		
PHF	.843	.676	.914	.685	.978	.913	.970	.755	.857	.985
Pass Cars	197	46	243	62	316	378	163	140	303	924
% Pass Cars	99.0	100	99.2	98.4	99.7	99.5	100	98.6	99.3	99.4
Single Units	1	0	1	0	1	1	0	1	1	3
% Single Units	0.5	0	0.4	0	0.3	0.3	0	0.7	0.3	0.3
Heavy Trucks	1	0	1	1	0	1	0	1	1	3
% Heavy Trucks	0.5	0	0.4	1.6	0	0.3	0	0.7	0.3	0.3





www:tdccounts.com <u>Phone: 586.786-5407</u> Traffic Study Performed For: **GPD Group**

Project: Novi Traffic Impact Study Study:4 Hr. Video Turning Movement Count Weather: Sunny/Cldy, Dry Deg's 30's Count By GH Jamar Ultra Board #22 File Name : TMC_2 Twelve Oaks Mall_S & Twelve Oak Mall_1-10-19 Site Code : TMC_2 Start Date : 1/10/2019 Page No : 5

Aerial Photo





www:tdccounts.com <u>Phone: 586.786-5407</u> Traffic Study Performed For: **GPD Group**

Project: Novi Traffic Impact Study Study:4 Hr. Video Turning Movement Count Weather: Sunny/Cldy, Dry Deg's 30's Count By MM Jamar Ultra Board #23 File Name : TMC_3 Mall Entry Dw & La-Z-Boy_1-10-19 Site Code : TMC_3 Start Date : 1/10/2019 Page No : 1

4 Hour video traffic study was conducted during typical weekday (Tuesday-Thursday) from 7:00 AM - 9:00 AM morning & 4:00 PM - 6:00 PM afternoon peak hours, while school was in session.

			cks	nits - Heavy True	- Single Ur	- Pass Cars	Groups Printed			
		/ay Mall Er Eastbound	EB One-W	way	Boy Drive	La-Z-	ntry Drive	/ay Mall Er Vestbound		
Int. Total	App. Total	Thru	Right	App. Total	Left	Right	App. Total	Left	Thru	Start Time
10	10	10	0	0	0	0	0	0	0	07:00 AM
13	13	13	0	0	0	0	0	0	0	07:15 AM
10	10	10	0	0	0	0	0	0	0	07:30 AM
24	24	24	0	0	0	0	0	0	0	07:45 AM
57	57	57	0	0	0	0	0	0	0	Total
24	24	24	0	0	0	0	0	0	0	08:00 AM
16	16	16	0	0	0	0	0	0	0	08:15 AM
13	13	13	0	0	0	0	0	0	0	08:30 AM
33	33	33	0	0	0	0	0	0	0	08:45 AM
86	86	86	0	0	0	0	0	0	0	Total
										*** BREAK ***
51	51	51	0	0	0	0	0	0	0	04:00 PM
41	40	40	0	1	0	1	0	Ó	0	04:15 PM
31	31	31	Ō	0	Ō	0	0	0	0	04:30 PM
38	38	38	0	0	0	0	0	0	0	04:45 PM
161	160	160	0	1	0	1	0	0	0	Total
47	46	46	0	1	0	1	0	0	0	05:00 PM
43	43	43	0	0	0	0	0	0	0	05:15 PM
52	52	52	0	0	0	0	0	0	0	05:30 PM
47	47	47	0	0	0	0	0	0	0	05:45 PM
189	188	188	0	1	0	1	0	0	0	Total
493	491	491	0	2	0	2	0	0	0	Grand Total
		100	0		0	100		0	0	Apprch %
	99.6	99.6	0	0.4	0	0.4	0	0	0	Total %
492	490	490	0	2	0	2	0	0	0	Pass Cars
99.8	99.8	99.8	0	100	0	100	0	0	0	% Pass Cars
0	0	0	0	0	Õ	0	0	0	0	Single Units
0	0	0	0	0	0	0	0	0	0	% Single Units
1	1	1	0	0	0	0	ō	0	0	Heavy Trucks
0.2	0.2	0.2	0	0	0	0	0	0	0	% Heavy Trucks

TDC Traffic Comments: Non-signalized "T" intersection. Traffic study was performed for Novi Traffic Impact Study (Formerly Denny's @ 27750 Novi Road for GPD Group, Youngstown Ohio.



www:tdccounts.com <u>Phone: 586.786-5407</u> Traffic Study Performed For: *GPD Group*

Project: Novi Traffic Impact Study Study:4 Hr. Video Turning Movement Count Weather: Sunny/Cldy, Dry Deg's 30's Count By MM Jamar Ultra Board #23 File Name : TMC_3 Mall Entry Dw & La-Z-Boy_1-10-19 Site Code : TMC_3 Start Date : 1/10/2019 Page No : 2





www:tdccounts.com Phone: 586.786-5407 Traffic Study Performed For: GPD Group

Project: Novi Traffic Impact Study Study:4 Hr. Video Turning Movement Count Weather: Sunny/Cldy, Dry Deg's 30's Count By MM Jamar Ultra Board #23 File Name : TMC_3 Mall Entry Dw & La-Z-Boy_1-10-19 Site Code : TMC_3 Start Date : 1/10/2019 Page No : 3

		Vay Mall Ent Vestbound		N	-Boy Drive			Vay Mall Er Eastbound		
Start Time	Thru	Left	App. Total	Right	Left	App. Total	Right	Thru	App. Total	Int. Tota
ak Hour Analysis From ak Hour for Entire Inter	07:00 AM to	11:45 AM - s at 08:00 4	Peak 1 of 1							
08:00 AM	0	0	0	0	0	0	0	24	24	2
08:15 AM	0	0	0	0	0	0	0	16	16	1
08:30 AM	0	0	0	0	0	0	0	13	13	1
08:45 AM	0	0	0	0	0	0	0	33	33 86	
Total Volume % App. Total	0	0	0	0	0	0	0	86 100	00	
PHF	.000	.000	.000	.000	.000	.000	.000	.652	.652	.6
Pass Cars	0	0	0	0	0	0	0	86	86	
% Pass Cars	0	0	0	0	0	0	0	100	100	1
Single Units	0	0	0	0	0	0 0	0 0	0 0	0 0	
% Single Units Heavy Trucks	0 0	0 0	0 0	0 0	0 0	0	0	0	0	
% Heavy Trucks	0	0	0	0	0	0	0	ő	0	
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	Entry Dhiv				Cars					
	l Entry Dhiv			Single	e Units					
	all Entry Dhiv			Single	e Units					
	Mall Entry Dhiv				e Units				EBORG-Way Mal	
	ay Mall Entry Dhiv			Single Heavy	e Units					
	Way Mall Entry Dhiv			Single Heavy 08:0	e Units Truck				EBIORE-Way Mall Ent	
	ae-Way Mall Entry D∱iv			Single Heavy 08:0	e Units Truck				EBORG-Way Mall Entra	
	One-Way Mall Entry Dhive			Single Heavy 08:0	e Units Truck					
	Sone-Way Mall Entry Drive	86		Single Heavy 08:0	e Units Truck		8			
	ERIOne-Way Mall Entry Drive	86		Single Heavy 08:0	e Units Truck		8			
	86	86		Single Heavy 08:0	e Units Truck		8			
	86	86		Single Heavy 08:0	e Units Truck		8			
	86	86		Single Heavy 08:0	e Units Truck		8			
	86	86		Single Heavy 08:0	e Units Truck		(16 86		
	86	86	0	Single Heavy 08:0	e Units Truck	S	(



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Project: Novi Traffic Impact Study Study:4 Hr. Video Turning Movement Count Weather: Sunny/Cldy, Dry Deg's 30's Count By MM Jamar Ultra Board #23 File Name : TMC_3 Mall Entry Dw & La-Z-Boy_1-10-19 Site Code : TMC_3 Start Date : 1/10/2019 Page No : 4

	ν	Vay Mall Er Vestbound		N	-Boy Drive lorthbound	l	E	Vay Mall Ei Eastbound		
Start Time Peak Hour Analysis From	Thru 12:00 PM to	Left	App. Total Book 1 of 1	Right	Left	App. Total	Right	Thru	App. Total	Int. Tota
Peak Hour for Entire Inter	rsection Begin	105.45 PM	PM							
05:00 PM	0	0	0	1	0	1	0	46	46	47
05:15 PM	0	0	0	0	0	0	0	43	43	43
05:30 PM 05:45 PM	0 0	0 0	0 0	0 0	0	0	0 0	52 47	52 47	5 2 47
Total Volume	Ő	0	ŏ	1	Ő	1	Ő	188	188	189
% App. Total	0	0		100	0		0	100		
PHF Pass Cars	.000. 0	.000. 0	.000 0	.250	.000. 0	.250	.000. 0	.904 188	.904 188	.909
% Pass Cars	0	Ő	0	100	Ő	100	0	100	100	100
Single Units	0	0	0	0	0	0	0	0	0	(
% Single Units	0	0	0	0	0	0	0	0	0	(
Heavy Trucks % Heavy Trucks	0 0	0 0	0	0	0 0	0 0	0 0	0 0	0	((
70 Heavy Hucks	U	0	0	U	0	0	U	U	0	ι (
	0		+			1			1	
			0			0				
									_	
	ve							F	n	
	hive									
	Dhive								FBO	
	ry Dhive								EBOne	
	ntry Dhive			Pass	Cars				EBOne-W	
	Entry D∯ive								EBOne-Wa	
	ll Entry D∯ive			Single	e Units				FROme-Way	
	Mall Entry Dhive				e Units				EBODD-Way Ma	
	ay Mall Entry Dhive			Single Heavy	e Units Truck				EBOne-Way Mall F	
	Way Mall Entry Dhive			Single Heavy 05:0	e Units Trucks 0 PM				EPJOne-Way Mall Ent	
	ne-Way Mall Entry D∯ive			Single Heavy 05:0	e Units Truck				EBOne-Way Mall Entry	
	One-Way Mall Entry Dhive			Single Heavy 05:0	e Units Trucks 0 PM					
	Brone-Way Mall Entry Drive	188		Single Heavy 05:0	e Units Trucks 0 PM		189			
	EB-One-Way Mall Entry Drive	188		Single Heavy 05:0	e Units Trucks 0 PM		189			
	EE One-Way Mall Entry Drive	188		Single Heavy 05:0	e Units Trucks 0 PM		189			
	EBODIe-Way Mall Entry Drive	188		Single Heavy 05:0	e Units Trucks 0 PM		189			
	EBONe-Way Mall Entry Drive	188		Single Heavy 05:0	e Units Trucks 0 PM		189			
	ERIONe-Way Mall Entry Drive	188		Single Heavy 05:0	e Units Trucks 0 PM		(188		
	EBYOne-Way Mall Entry Drive	188		Single Heavy 05:0	e Units Trucks 0 PM		(



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Project: Novi Traffic Impact Study Study:4 Hr. Video Turning Movement Count Weather: Sunny/Cldy, Dry Deg's 30's Count By MM Jamar Ultra Board #23 File Name : TMC_3 Mall Entry Dw & La-Z-Boy_1-10-19 Site Code : TMC_3 Start Date : 1/10/2019 Page No : 5

Aerial Photo





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Project: Novi Traffic Impact Study Study:4 Hr. Video Turning Movement Count Weather: Sunny/Cldy, Dry Deg's 30's Count By DM Jamar Ultra Board #24 File Name : TMC_4 Twelve Oaks Mall & La-Z-Boy_1-10-19 Site Code : TMC_4 Start Date : 1/10/2019 Page No : 1

4 Hour video traffic study was conducted during typical weekday (Tuesday-Thursday) from 7:00 AM - 9:00 AM morning & 4:00 PM - 6:00 PM afternoon peak hours, while school was in session.

	/e		Twelve Oaks Mall Drive La-Z-Boy Drive Northbound Eastbound							
Int. Total	App. Total	Left	Right	App. Total	Left	Thru	App. Total	Thru	Right	Start Time
15	3	0	3	3	0	3	9	9	0	07:00 AM
15	0	Ō	Ō	1	0	1	14	13	1	07:15 AM
11	Ō	Ō	Ō	2	0	2	9	9	Ó	07:30 AM
34	0	Ō	Ō	4	0	4	30	30	Ő	07:45 AM
75	3	0	<u>0</u> 3	10	Õ	10	62	61	1	Total
31	0	0	0	2	0	2	29	29	0	08:00 AM
23	0	0	0	3	0	3	20	20	0	08:15 AM
24	0	0	0	4	0	4	20	20	0	08:30 AM
43	0	0	0	8	0	8	35	34	1	08:45 AM
121	0	0	0	17	0	17	104	103	1	Total
										* BREAK ***
142	1	1	0	56	0	56	85	84	1	04:00 PM
147	0	0	0	73	0	73	74	72	2	04:15 PM
116	0	0	0	57	0	57	59	57	2	04:30 PM
143	3	2	- 1	66	0	66	74	74	0	04:45 PM
548	4	3	1	252	0	252	292	287	5	Total
141	4	3	1	59	0	59	78	78	0	05:00 PM
133	0	0	0	54	0	54	79	79	0	05:15 PM
114	0	0	0	45	0	45	69	69	0	05:30 PM
133	2	1	1	54	Ō	54	77	75	2	05 45 PM
521	6	4	2	212	0	212	303	301	2	Total
1265	13	7	6	491	0	491	761	752	9	Grand Total
		53.8	46.2		0	100		98.8	1.2	Apprch %
	1	0.6	0.5	38.8	0	38.8	60.2	59.4	0.7	Total %
1251	13	7	6	485	0	485	753	745	8	Pass Cars
98.9	100	100	100	98.8	0	98.8	98.9	99.1	88.9	% Pass Cars
12	0	0	0	6	0	6	6	5	1	Single Units
0.9	0	0	0	1.2	0	1.2	0.8	0.7	11.1	% Single Units
2	0	0	0	0	0	0	2	2	0	Heavy Trucks
0.2	0	0	0	0	Ō	Ō	0.3	0.3	0	% Heavy Trucks

TDC Traffic Comments: Non-signalized intersection. Traffic study was performed for Novi Traffic Impact Study (Formerly Denny's @ 27750 Novi Road for GPD Group, Youngstown Ohio.



www:tdccounts.com <u>Phone: 586.786-5407</u> Traffic Study Performed For: **GPD Group**

Project: Novi Traffic Impact Study Study:4 Hr. Video Turning Movement Count Weather: Sunny/Cldy, Dry Deg's 30's Count By DM Jamar Ultra Board #24 File Name : TMC_4 Twelve Oaks Mall & La-Z-Boy_1-10-19 Site Code : TMC_4 Start Date : 1/10/2019 Page No : 2





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Project: Novi Traffic Impact Study Study:4 Hr. Video Turning Movement Count Weather: Sunny/Cldy, Dry Deg's 30's Count By DM Jamar Ultra Board #24 File Name : TMC_4 Twelve Oaks Mall & La-Z-Boy_1-10-19 Site Code : TMC_4 Start Date : 1/10/2019 Page No : 3

	Twelve Oaks Mall Drive Southbound			Twelve Oaks Mall Drive Northbound			La-Z-Boy Drive Eastbound			
Start Time	Right	Thru	App. Total	Thru	Left	App. Total	Right	Left	App. Total	Int. Total
Peak Hour Analysis From	07:00 AM to	11:45 AM	- Peak 1 of 1							
Peak Hour for Entire Inters										
08:00 AM	٥	29	29	2	0	2	0	0	0	31
08:15 AM	0	20	20	3	0	3	0	0	0	23
08:30 AM	0	20	20	4	0	4	0	0	0	24
08:45 AM	1	34	35	8	0	8	0	0	0	43
Total Volume	1	103	104	17	0	17	0	0	0	121
% App. Total	1	99		100	0		0	0		
PHF	.250	.757	.743	.531	.000	.531	.000	.000	.000	.703
Pass Cars	0	102	102	17	0	17	0	0	0	119
% Pass Cars	0	99.0	98.1	100	0	100	0	0	0	98.3
Single Units	1	1	2	0	0	0	0	0	0	2
% Single Units	100	1.0	1.9	0	0	0	0	0	0	1.7
Heavy Trucks	0	0	0	0	0	0	0	0	0	0
% Heavy Trucks	0	0	0	0	0	0	0	0	0	0





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Project: Novi Traffic Impact Study Study:4 Hr. Video Turning Movement Count Weather: Sunny/Cldy, Dry Deg's 30's Count By DM Jamar Ultra Board #24 File Name : TMC_4 Twelve Oaks Mall & La-Z-Boy_1-10-19 Site Code : TMC_4 Start Date : 1/10/2019

Page No : 4

Start Time	Twelve Oaks Mall Drive Southbound			Twelve Oaks Mall Drive Northbound			La-Z-Boy Drive Eastbound			
	Right	Thru	App. Total	Thru	Left	App. Total	Right	Left	App. Total	Int. Total
Peak Hour Analysis From	12:00 PM to	05:45 PM -	- Peak 1 of 1							
Peak Hour for Entire Inters	ection Begin	ns at 04:00	PM							
04:00 PM	1	84	85	56	0	56	0	1	1	142
04:15 PM	2	72	74	73	0	73	0	0	0	147
04:30 PM	2	57	59	57	0	57	0	0	0	116
04:45 PM	0	74	74	66	0	66	1	2	3	143
Total Volume	5	287	292	252	0	252	1	3	4	548
% App. Total	1.7	98.3		100	0		25	75		
PHF	.625	.854	.859	.863	.000	.863	.250	.375	.333	.932
Pass Cars	5	285	290	251	0	251	1	3	4	545
% Pass Cars	100	99.3	99.3	99.6	0	99.6	100	100	100	99.5
Single Units	0	0	0	1	0	1	0	0	0	1
% Single Units	0	0	0	0.4	0	0.4	0	0	0	0.2
Heavy Trucks	0	2	2	0	0	0	0	0	0	2
% Heavy Trucks	0	0.7	0.7	0	0	0	0	0	0	0.4


Traffic Data Collection, LLC



www:tdccounts.com <u>Phone: 586.786-5407</u> Traffic Study Performed For: **GPD Group**

Project: Novi Traffic Impact Study Study:4 Hr. Video Turning Movement Count Weather: Sunny/Cldy, Dry Deg's 30's Count By DM Jamar Ultra Board #24 File Name : TMC_4 Twelve Oaks Mall & La-Z-Boy_1-10-19 Site Code : TMC_4 Start Date : 1/10/2019 Page No : 5

Aerial Photo



APPENDIX B: ITE TRIP GENERATION CALCULATIONS

ITE Trip Generation Procedure

Land Use 934 (Fast-Food Restaurant with Drive-Through Window)

Trip Generations per 1000 Sq. Feet Gross Floor Area Setting / Location: General Urban / Suburban

Weekday Trip Generation and Trip Distribution

Trip Generation Formula:	Т=	= 470.95 * (X)
where:	T =	Number of Trips Generated
	X =	= 1000 Sq. Feet Gross Floor Area

Gross Floor Area: 4,990

Total Trip Ends in the Average Weekday: 2,351

Distribution Percentages of Entering and Exiting Trips, From ITE Trip Generation Manual, 10th Edition

Entering Trip Percentage:	50%
Exiting Trip Percentage:	50%
Number of Entering Trips:	1,176
Number of Exiting Trips:	1,175

AM Peak Trip Generation and Trip Distribution (Peak Hour of Adjacent Street)

Trip Generation Formula: T = 40.19 * (X)Total Trip Ends in the AM Peak Hour: 201

Pass-By Rate from ITE Trip Generation Handbook, An ITE Recommended Practice

Pass-By Rate:	49.00%
Primary Trips:	103
Pass-By Trips:	98

Distribution Percentages of Entering and Exiting Trips, From ITE Trip Generation Manual, 10th Edition

Entering Trip Percentage:	51%
Exiting Trip Percentage:	49%
Entering Primary Trips:	52
Exiting Primary Trips:	51
Entering Pass-byTrips:	50
Exiting Pass-by Trips:	48

Exiting Pass-by Trips:

PM Peak Trip Generation and Trip Distribution (Peak Hour of Adjacent Street)

Trip Generation Formula: T = 32.67 * (X) Total Trip Ends in the PM Peak Hour: 164

Pass-By Rate from ITE Trip Generation Handbook, An ITE Recommended Practice

Pass-By Rate: 50.00%

Primary Trips:	82
Pass-By Trips:	82

Distribution Percentages of Entering and Exiting Trips, From ITE Trip Generation Manual, 10th Edition

Entering Trip Percentage:	52%
Exiting Trip Percentage:	48%
Entering Primary Trips:	43
Exiting Primary Trips:	39
Entering Pass-byTrips:	43
Exiting Pass-by Trips:	39

APPENDIX C: SITE TRIP DISTRIBUTION AND ASSIGNMENT



CAD FLE: 0\2018/2018233\15 THELVE ONCS, IN\TRAFFIC\FIQURES\APPENDIX C.DWG DATE 1/18/2018 THAE: 10:25503 AN



OLD FILE CRY 2016223(15 TWENE ONCS, MAY TRAFFIC/FIGURES/APPENDX C.DWG DATE 11/18/2019 THAT: 10-26-13 AU



CAD FILE ON 2018/2018223/15 TVELVE ONCS, MATRAFFIC/FIGURES/APPENDIX C.DWO



CAD FILE GYZDISYZDISZZYJS TWELVE OAKS, MYTRAFFICYFIOURESYAPPENDIX C.DWO DATE: 1/16/2018 THE: 10-25-20 AM



cud file of 2018/2018223(15 TWELVE OVCS, MYTRAFRC/FRURES/APPENDX C.DWO DATE 1/16/2019 Three 10:25:29 AN APPENDIX D: HCM INTERSECTION CAPACITY ANALYSIS

OPENING YEAR 2019 'NO-BUILD' CONDITIONS

Chik-fil-A Novi TIS

Opening Year 2019 'No-Build' - AM Peak Hour 1: Novi Road & West Oaks Drive/Twelve Oaks Drive South

01/15/2019

	۶	-+	7	1	+	A.	1	1	1	1	+	-
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	٦	1	11	ሻሻ	ţ,		ሻሻ	***	1	۲	<u> </u>	٢
Traffic Volume (veh/h)	13	3	65	33	2	2	82	430	87	2	700	13
Future Volume (veh/h)	13	3	65	33	2	2	82	430	87	2	700	13
Number	3	8	18	7	4	14	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1429	1759	1845	1900	1900	1792	1845	1863	1900	1863	1900
Adj Flow Rate, veh/h	14	3	68	57	3	3	85	448	91	2	778	14
Adj No. of Lanes	1	1	2	2	1	0	2	3	1	1	3	1
Peak Hour Factor	0.96	0.96	0.96	0.58	0.58	0.58	0.96	0.96	0.96	0.90	0.90	0.90
Percent Heavy Veh, %	0	33	8	3	0	0	6	3	2	0	2	0
Cap, veh/h	106	84	283	180	46	46	162	1880	591	717	2868	911
Arrive On Green	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.37	0.37	0.24	0.56	0.56
Sat Flow, veh/h	1810	1429	2632	3408	873	873	3312	5036	1583	1810	5085	1615
Grp Volume(v), veh/h	14	3	68	57	0	6	85	448	91	2	778	14
Grp Sat Flow(s), veh/h/ln	1810	1429	1316	1704	0	1746	1656	1679	1583	1810	1695	1615
	0.7	0.2	2.1	1.4	0.0	0.3	2.3	5.5	3.4	0.0	7.1	0.3
Q Serve(g_s), s												
Cycle Q Clear(g_c), s	0.7	0.2	2.1	1.4	0.0	0.3	2.3	5.5	3.4	0.0	7.1	0.3
Prop In Lane	1.00	0.4	1.00	1.00	0	0.50	1.00	4000	1.00	1.00	0000	1.00
Lane Grp Cap(c), veh/h	106	84	283	180	0	92	162	1880	591	717	2868	911
V/C Ratio(X)	0.13	0.04	0.24	0.32	0.00	0.07	0.52	0.24	0.15	0.00	0.27	0.02
Avail Cap(c_a), veh/h	121	95	304	341	0	175	206	1880	591	717	2868	911
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	40.2	40.0	36.8	41.1	0.0	40.5	41.8	19.4	18.7	12.6	10.1	8.6
Incr Delay (d2), s/veh	0.2	0.1	0.2	0.4	0.0	0.1	1.0	0.3	0.6	0.0	0.2	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/In	0.3	0.1	0.8	0.7	0.0	0.1	1.0	2.6	1.6	0.0	3.4	0.2
LnGrp Delay(d),s/veh	40.4	40.0	36.9	41.4	0.0	40.6	42.8	19.7	19.3	12.6	10.3	8.7
LnGrp LOS	D	D	D	D		D	D	B	B	B	В	A
Approach Vol, veh/h		85			63			624			794	
Approach Delay, s/veh		37.6			41.3			22.8			10.3	
Approach LOS		D			D			С			8	
Timer	1	2	3	4	5	6	7	8			1124	1 . 1
Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	28.0	40.0		10.8	10.8	57.2		11.3				
Change Period (Y+Rc), s	6.4	6.4		6.0	6.4	6.4		6.0				
Max Green Setting (Gmax), s	16.6	33.6		9.0	5.6	44.6		6.0				
Max Q Clear Time (g_c+l1), s	2.0	7.5		3.4	4.3	9.1		4.1				
Green Ext Time (p_c), s	0.7	0.4		0.0	0.0	0.7		0.0				
Intersection Summary	1 2 2 1 2	100 C		1.213	HERLA	2-9.11.01			8.8 3			1
HCM 2010 Ctrl Delay			18.0								-	-
HCM 2010 LOS			B									
			U									

Intersection		E_DD				
Int Delay, s/veh	0					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	1	1				1
Traffic Vol, veh/h	86	0	0	0	0	0
Future Vol, veh/h	86	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Stop	Stop	Stop	Stop
RT Channelized	-	None	14	None		None
Storage Length	-	125	1	-	-	0
Veh in Median Storage	,# 0	-	-	-	0	
Grade, %	0	-	-	0	0	-
Peak Hour Factor	65	65	92	92	92	92
Heavy Vehicles, %	0	0	2	2	0	0
Mymt Flow	132	0	0	0	0	0

Aajor/Minor	Major1	1	Minor1	156
Conflicting Flow All	0	0	-	132
Stage 1	- ×	=		-
Stage 2			-	-
Critical Hdwy	-			6.2
Critical Hdwy Stg 1		-	-	-
Critical Hdwy Stg 2		*		-
Follow-up Hdwy		÷	-	3.3
Pot Cap-1 Maneuver		-:	0	923
Stage 1		÷	0	-
Stage 2	-	-	0	-
Platoon blocked, %		÷		
Mov Cap-1 Maneuve	r -	×) + :	923
Mov Cap-2 Maneuve	r	+	(e)	
Stage 1		×	()	
Stage 2		-	:#:	(-);

Approach	EB	NB
HCM Control Delay, s	0	0
HCM LOS		A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	
Capacity (veh/h)	-	•		
HCM Lane V/C Ratio	-	۲	8	
HCM Control Delay (s)	0	٠	8	
HCM Lane LOS	Α	٠	8	
HCM 95th %tile Q(veh)	-		2	

Chik-fil-A Novi TIS	Opening Year 2019 'No-Build' - AM Peak Hour
3: Mall Perimeter Road & Twelve Oaks Drive S	outh 01/15/2019

Intersection		
Intersection Delay, s/veh	8.5	
Intersection LOS	А	

Movement	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	۲	1	٣	44	**		
Traffic Vol, veh/h	78	12	15	7	14	20	
Future Vol, veh/h	78	12	15	7	14	20	
Peak Hour Factor	0.61	0.61	0.61	0.61	0.65	0.65	
Heavy Vehicles, %	0	25	0	0	7	5	
Mvmt Flow	128	20	25	11	22	31	
Number of Lanes	1	1	1	2	2	0	
Approach	EB		NB	1.55	SB	страно 1911 г.	
Opposing Approach			SB		NB		
Opposing Lanes	0		2		3		
Conflicting Approach Left	SB		EB				
Conflicting Lanes Left	2		2		0		
Conflicting Approach Right	NB				EB		
Conflicting Lanes Right	3		0		2		
HCM Control Delay	8.9		7.9		7.6		
HCM LOS	А		А		А		

Lane	NBLn1	NBLn2	NBLn3	EBLn1	EBLn2	SBLn1	SBLn2	
Vol Left, %	100%	76%	0%	100%	0%	0%	0%	
Vol Thru, %	0%	24%	100%	0%	0%	100%	19%	
Vol Right, %	0%	0%	0%	0%	100%	0%	81%	
Sign Control	Stop							
Traffic Vol by Lane	8	10	5	78	12	9	25	
LT Vol	8	8	0	78	0	0	0	
Through Vol	0	2	5	0	0	9	5	
RT Vol	0	0	0	0	12	0	20	
Lane Flow Rate	12	16	8	128	20	14	38	
Geometry Grp	8	8	8	8	8	8	8	
Degree of Util (X)	0.019	0.024	0.007	0.183	0.024	0.021	0.048	
Departure Headway (Hd)	5.546	5.427	3.337	5.16	4.385	5.142	4.538	
Convergence, Y/N	Yes							
Сар	649	663	1078	689	807	700	794	
Service Time	3.25	3.131	1.041	2.939	2.164	2.845	2.241	
HCM Lane V/C Ratio	0.018	0.024	0.007	0.186	0.025	0.02	0.048	
HCM Control Delay	8.4	8.3	6.1	9.1	7.3	8	7.5	
HCM Lane LOS	А	Α	А	Α	А	А	А	
HCM 95th-tile Q	0.1	0.1	0	0.7	0.1	0.1	0.2	

Chik-fil-A Novi TIS

4: Mall Perimeter Road & One-Way Mall Drive

Opening Year 2019 'No-Build' - AM Peak Hour 01/15/2019

	×	\mathbf{r}	-	Ť	Ļ	1
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations		1		† †	^	
Traffic Volume (veh/h)	0	86	0	17	18	0
Future Volume (Veh/h)	0	86	0	17	18	0
Sign Control	Yield			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	0	93	0	18	20	0
Pedestrians						1.00
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type				None	None	
Median storage veh)				NUNC	None	
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	29	10	20			
vC1, stage 1 conf vol	ZJ	10	20			
vC2, stage 2 conf vol						
vCu, unblocked vol	29	10	20			
,	6.8	6.9	4.1			
tC, single (s)	0.0	0.9	4.1			
tC, 2 stage (s)	0.5	2.2	0.0			
tF (s)	3.5	3.3	2.2			
p0 queue free %	100	91	100			
cM capacity (veh/h)	982	1069	1595			
Direction, Lane #	EB 1	NB 1	NB 2	SB 1	SB 2	a litera
Volume Total	93	9	9	10	10	
Volume Left	0	0	0	0	0	
Volume Right	93	0	0	0	0	
cSH	1069	1700	1700	1700	1700	
Volume to Capacity	0.09	0.01	0.01	0.01	0.01	
Queue Length 95th (ft)	7	0	0	0	0	
Control Delay (s)	8.7	0.0	0.0	0.0	0.0	
Lane LOS	A					
Approach Delay (s)	8.7	0.0		0.0		
Approach LOS	А					
Intersection Summary	Kizari i da					
Average Delay			6.2			
Intersection Capacity Utilization	ation		15.3%	IC	U Level o	f Service
Analysis Period (min)			15			

MAD IN SHIELD WITH	Int	e	SE	ct	101	1	l,
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Int Delay, s/veh	0								
Movement	EBL	EBR	NBL	NBT	SBT	SBR	2.5		Sec. Contractor
Lane Configurations	Y			44	* T+			Ì	
Traffic Vol, veh/h	0	0	0	17	103	1			
Future Vol, veh/h	0	0	0	17	103	1			
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	5	2	-	-	5 2 7			
Veh in Median Storage,	# 0			0	0	197			
Grade, %	0	3	-	0	0	-			
Peak Hour Factor	92	92	53	53	74	74			
Heavy Vehicles, %	0	0	0	0	1	2			
Mvmt Flow	0	0	0	32	139	1			

Major/Minor	Minor2	1	Major1	Maj	or2	5-3-1k	100		
Conflicting Flow All	156	70	140	0	×	0			
Stage 1	140	-	•	-	+	-			
Stage 2	16		*		×	-			
Critical Hdwy	6.8	6.9	4.1			-			
Critical Hdwy Stg 1	5.8	÷	*	:**0	*	-			
Critical Hdwy Stg 2	5.8	-			-	-			
Follow-up Hdwy	3.5	3.3	2.2		*				
Pot Cap-1 Maneuver	826	985	1456		÷				
Stage 1	878	:=	0H)	(H);					
Stage 2	1010								
Platoon blocked, %				(H))	×	*			
Mov Cap-1 Maneuver	826	985	1456						
Mov Cap-2 Maneuver	826	-	-	257	×				
Stage 1	878	-	-	5 4 25	*	.*:			
Stage 2	1010	-	-	(#)	*	3 8 5			

Approach	EB	NB	SB	
HCM Control Delay, s	0	0	0	
HCM LOS	А			

Minor Lane/Major Mvmt	NBL	NBTEE	3Ln1	SBT	SBR	
Capacity (veh/h)	1456	\. . -	- 27	-	4	
HCM Lane V/C Ratio	-	12	-	2	120	
HCM Control Delay (s)	0	12	0	2	9427	
HCM Lane LOS	Α	7/ 2 -1	Α	÷	122	
HCM 95th %tile Q(veh)	0	1.41	-	2	127	

Chik-fil-A Novi TIS

Opening Year 2019 'No-Build' - PM Peak Hour

1: Novi Road & West Oaks Drive/Twelve Oaks Drive South

01/15/2019

	≯	-	\mathbf{r}	1	-	×.	1	1	1	1	Ļ	-
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	٦	1	44	ሻሻ	4		ሻሻ	† ††	1	۲	***	7
Traffic Volume (veh/h)	55	35	327	428	40	37	336	736	227	26	894	47
Future Volume (veh/h)	55	35	327	428	40	37	336	736	227	26	894	47
Number	3	8	18	7	4	14	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	(
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1881	1900	1900	1900	1900	1900	1900	1881	1863
Adj Flow Rate, veh/h	65	41	327	481	45	42	373	818	252	29	993	52
Adj No. of Lanes	1	1	2	2	1	0	2	3	1	1	3	1
Peak Hour Factor	0.85	0.85	1.00	0.89	0.89	0.89	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %	0	0	0	1	0	0	0	0	0	0	1	2
Cap, veh/h	114	120	407	558	145	136	281	1343	418	588	2235	689
Arrive On Green	0.06	0.06	0.06	0.16	0.16	0.16	0.08	0.26	0.26	0.26	0.44	0.44
Sat Flow, veh/h	1810	1900	2842	3476	906	845	3510	5187	1615	1810	5136	1583
Grp Volume(v), veh/h	65	41	327	481	0	87	373	818	252	29	993	52
Grp Sat Flow(s), veh/h/ln	1810	1900	1421	1738	0	1751	1755	1729	1615	1810	1712	1583
Q Serve(g_s), s	3.3	2.0	6.0	12.8	0.0	4.2	7.6	13.2	13.0	0.0	12.9	1.8
Cycle Q Clear(g_c), s	3.3	2.0	6.0	12.8	0.0	4.2	7.6	13.2	13.0	0.0	12.9	1.8
Prop In Lane	1.00	2.0	1.00	1.00	0.0	0.48	1.00	10.2	1.00	1.00	12.0	1.00
Lane Grp Cap(c), veh/h	114	120	407	558	0	281	281	1343	418	588	2235	689
V/C Ratio(X)	0.57	0.34	0.80	0.86	0.00	0.31	1.33	0.61	0.60	0.05	0.44	0.08
Avail Cap(c_a), veh/h	114	120	407	878	0.00	442	281	1343	418	588	2235	689
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	43.2	42.6	39.4	38.8	0.0	35.2	43.7	31.0	30.9	21.4	18.8	15.7
Incr Delay (d2), s/veh	43.2	42.0	10.3	3.2	0.0	0.2	43.7	2.1	6.3	0.0	0.6	0.2
	4.2	0.0	0.0		0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2
Initial Q Delay(d3),s/veh				0.0							6.2	0.0
%ile BackOfQ(50%),veh/In	1.8	1.0	4.7	6.4	0.0	2.0	10.3	6.5	6.5	0.5		
LnGrp Delay(d),s/veh	47.4 D	43.2 D	49.8 D	42.1 D	0.0	35.4	213.9 F	33.0 C	37.2 D	21.4 C	19.4 B	15.9 E
LnGrp LOS	U		U	0	568	D		1443	D	U	1074	
Approach Vol, veh/h		433										
Approach Delay, s/veh		48.8			41.0			80.5			19.3	
Approach LOS		D			D			F			В	
Timer	1	2	3	4	5	6	7	8	122		1 - A - A - A - A - A - A - A - A - A -	
Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	30.7	31.0		21.3	14.0	47.7		12.0				
Change Period (Y+Rc), s	6.4	6.4		6.0	6.4	6.4		6.0				
Max Green Setting (Gmax), s	15.6	24.6		24.0	7.6	32.6		6.0				
Max Q Clear Time (g_c+I1), s	2.0	15.2		14.8	9.6	14.9		8.0				
Green Ext Time (p_c), s	0.9	0.8		0.4	0.0	0.9		0.0				
Intersection Summary								1 Section			14 M	
HCM 2010 Ctrl Delay			51.5									
HCM 2010 LOS			D									

Chik-fil-A Novi TIS 2: Commercial Drive #1 & One-Way Mall Drive

Opening Year 2019 'No-Build' - PM Peak Hour 01/15/2019

Intersection		N. E. A			165	1 Starts
Int Delay, s/veh	0.1					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	Ť	7				1
Traffic Vol, veh/h	158	0	0	0	0	1
Future Vol, veh/h	158	0	0	0	0	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Stop	Stop	Stop	Stop
RT Channelized	-	None			-	None
Storage Length	-	125			-	0
Veh in Median Storage,	# 0			-	0	-
Grade, %	0	-	140	0	0	-
Peak Hour Factor	86	86	92	92	50	50
Heavy Vehicles, %	1	1	2	2	0	0
Mvmt Flow	184	0	0	0	0	2
	104	v	U	U	0	2
	ajor1	1	1.1	A	Ainor1	1. 1
Conflicting Flow All	0	0				184
Stage 1		5 7 0				
Stage 2	ι π				:*:	-
Critical Hdwy		(e)				6.2
Critical Hdwy Stg 1						-
Critical Hdwy Stg 2						-
Follow-up Hdwy					-	3.3
Pot Cap-1 Maneuver					0	864
Stage 1					0	-
Stage 2					0	
Platoon blocked, %	-				0	
Mov Cap-1 Maneuver	5	424				864
Mov Cap-2 Maneuver	i⊊.					004
	2				100	5
Stage 1		3.62			192 192	精
Stage 2	ñ	1.00				R.
Approach	EB		10.0	a and a second	NB	100
HCM Control Delay, s	0				9.2	
HCM LOS					A	
		(1) 2 1		-	_	
Minor Lane/Major Mvmt		NBLn1	EBT	EBR		19. 11
Capacity (veh/h)		864	- 2	¥5		
HCM Lane V/C Ratio		0.002	1	- 1 43		
HCM Control Delay (s)		9.2	2	1746		
HCM Lane LOS		Α	2	16		
HCM 95th %tile Q(veh)		0	14			
CM Lane LOS		А	4	12 12		

Chik-fil-A Novi TIS Opening Year 2019 'No-Build' - PM Peak Hour 01/15/2019 3: Mall Perimeter Road & Twelve Oaks Drive South

Intersection Intersection Delay, s/veh 12 Intersection LOS В

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	۳	1	7	41	41	
Traffic Vol, veh/h	120	156	317	56	51	204
Future Vol, veh/h	120	156	317	56	51	204
Peak Hour Factor	0.91	0.91	0.90	0.90	0.95	0.95
Heavy Vehicles, %	1	0	1	2	0	1
Mvmt Flow	132	171	352	62	54	215
Number of Lanes	1	1	1	2	2	0
Approach	EB		NB	7 11	SB	
Opposing Approach			SB		NB	
Opposing Lanes	0		2		3	
Conflicting Approach Left	SB		EB			
Conflicting Lanes Left	2		2		0	
Conflicting Approach Right	NB				EB	
Conflicting Lanes Right	3		0		2	
HCM Control Delay	11.5		12.4		12	
HCM LOS	В		В		В	

Lane	NBLn1	NBLn2	NBLn3	E8Ln1	EBLn2	SBLn1	SBLn2	S. The of Carlot Index
Vol Left, %	100%	89%	0%	100%	0%	0%	0%	
Vol Thru, %	0%	11%	100%	0%	0%	100%	8%	
Vol Right, %	0%	0%	0%	0%	100%	0%	92%	
Sign Control	Stop							
Traffic Vol by Lane	159	177	37	120	156	34	221	
LT Vol	159	158	0	120	0	0	0	
Through Vol	0	19	37	0	0	34	17	
RT Vol	0	0	0	0	156	0	204	
Lane Flow Rate	176	197	41	132	171	36	233	
Geometry Grp	8	8	8	8	8	8	8	
Degree of Util (X)	0.328	0.365	0.051	0.259	0.278	0.065	0.381	
Departure Headway (Hd)	6.706	6.67	4.46	7.061	5.836	6.539	5.9	
Convergence, Y/N	Yes							
Сар	535	539	799	508	614	546	607	
Service Time	4.455	4.419	2.208	4.816	3.591	4.296	3.656	
HCM Lane V/C Ratio	0.329	0.365	0.051	0.26	0.279	0.066	0.384	
HCM Control Delay	12.7	13.2	7.5	12.3	10.8	9.8	12.3	
HCM Lane LOS	В	В	Α	В	В	Α	В	
HCM 95th-tile Q	1.4	1.7	0.2	1	1.1	0.2	1.8	

Chik-fil-A Novi TIS

4: Mall Perimeter Road & One-Way Mall Drive

Opening Year 2019 'No-Build' - PM Peak Hour

01/15/2019

	۶	>	-	Ť	Ļ	4
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations		1		11	11	
Traffic Volume (veh/h)	0	159	0	241	131	0
Future Volume (Veh/h)	0	159	0	241	131	0
Sign Control	Yield			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	0	173	0	262	142	0
Pedestrians		110	, in the second se	202		
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type				None	None	
Median storage veh)				None	None	
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	273	71	142			
vC1, stage 1 conf vol	215	7.1	142			
vC2, stage 2 conf vol						
vCu, unblocked vol	273	71	142			
tC, single (s)	6.8	6.9	4.1			
tC, 2 stage (s)	0.0	0.9	4.1			
	3.5	3.3	2.2			
tF (s)	3.5 100	3.3				
p0 queue free %			100			
cM capacity (veh/h)	694	977	1438			
Direction, Lane #	EB 1	NB 1	NB 2	SB 1	SB 2	1.1.1
Volume Total	173	131	131	71	71	
Volume Left	0	0	0	0	0	
Volume Right	173	0	0	0	0	
cSH	977	1700	1700	1700	1700	
Volume to Capacity	0.18	0.08	0.08	0.04	0.04	
Queue Length 95th (ft)	16	0	0	0	0	
Control Delay (s)	9.5	0.0	0.0	0.0	0.0	
Lane LOS	Α					
Approach Delay (s)	9.5	0.0		0,0		
Approach LOS	А					
Intersection Summary	1828	19271			1,1-12-	
Average Delay			2.8			
Intersection Capacity Utilization	1		20.1%	IC	U Level a	f Service
Analysis Period (min)			15			

Intersectio	n	
LODI	1 1	

Int Delay, s/veh	0.3					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y			41	†	
Traffic Vol, veh/h	5	2	0	236	288	2
Future Vol, veh/h	5	2	0	236	288	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, a	# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	44	44	89	89	92	92
Heavy Vehicles, %	0	0	0	1	1	0
Mvmt Flow	11	5	0	265	313	2

Major/Minor	Minor2	1	Major1	Ma	jor2	
Conflicting Flow All	447	158	315	0		0
Stage 1	314	14	*			÷.
Stage 2	133				۲	8
Critical Hdwy	6.8	6.9	4.1	8	•	
Critical Hdwy Stg 1	5.8	۲		÷	•	8
Critical Hdwy Stg 2	5.8	۲		ŝ		3
Follow-up Hdwy	3.5	3.3	2.2	3	۰	
Pot Cap-1 Maneuver	545	866	1257	93 193		
Stage 1	720			8	٠	
Stage 2	885			8	•	
Platoon blocked, %				2		3
Mov Cap-1 Maneuver		866	1257	÷.		8
Mov Cap-2 Maneuver	545	1	÷.	8		3
Stage 1	720	-	÷.	2		¥
Stage 2	885	220	5 -	-	120	

Approach	EB	NB	SB	
HCM Control Delay, s	11.1	0	0	
HCM LOS	В			

Minor Lane/Major Mvmt	NBL	NBT EBLn1	SBT	SBR	
Capacity (veh/h)	1257	- 610			
HCM Lane V/C Ratio	-	- 0.026	(1)		
HCM Control Delay (s)	0	 11.1 	980		
HCM Lane LOS	Α	- B		×	
HCM 95th %tile Q(veh)	0	- 0.1	200		

OPENING YEAR 2019 'BUILD' CONDITIONS

Chik-fil-A Novi TIS

Opening Year 2019 'Build' - AM Peak Hour

1: Novi Road & West Oaks Drive/Twelve Oaks Drive South

01/15/2019

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBF
Lane Configurations	7	1	17	ሻሻ	F#		ሻሻ	***	1	٦	***	1
Traffic Volume (veh/h)	13	8	65	83	7	38	82	408	87	46	672	13
Future Volume (veh/h)	13	8	65	83	7	38	82	408	87	46	672	13
Number	3	8	18	7	4	14	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	(
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1429	1759	1845	1900	1900	1792	1845	1863	1900	1863	1900
Adj Flow Rate, veh/h	14	8	68	143	12	66	85	425	91	51	747	14
Adj No. of Lanes	1	1	2	2	1	0	2	3	1	1	3	1
Peak Hour Factor	0.96	0.96	0.96	0.58	0.58	0.58	0.96	0.96	0.96	0.90	0.90	0.90
Percent Heavy Veh, %	0.00	33	8	3	0	0	6	3	2	0	2	C
Cap, veh/h	108	85	286	234	17	96	162	1880	591	691	2782	884
Arrive On Green	0.06	0.06	0.06	0.07	0.07	0.07	0.05	0.37	0.37	0.22	0.55	0.55
Sat Flow, veh/h	1810	1429	2632	3408	254	1399	3312	5036	1583	1810	5085	1615
Grp Volume(v), veh/h	14	8	68	143	0	78	85	425	91	51	747	14
Grp Sat Flow(s), veh/h/ln	1810	1429	1316	1704	0	1653	1656	1679	1583	1810	1695	1615
Q Serve(g_s), s	0.7	0.5	2.1	3.7	0.0	4.2	2.3	5.2	3.4	0.0	7.0	0.4
Cycle Q Clear(g_c), s	0.7	0.5	2.1	3.7	0.0	4.2	2.3	5.2	3.4	0.0	7.0	0.4
Prop In Lane	1.00	0.5	1.00	1.00	0.0	0.85	1.00	J.Z	1.00	1.00	7.0	1.00
	108	85	286	234	0	114	162	1880	591	691	2782	884
Lane Grp Cap(c), veh/h	0.13		0.24	0.61	0.00	0.69	0.52	0.23	0.15	0.07	0.27	0.02
V/C Ratio(X)		0.09									2782	884
Avail Cap(c_a), veh/h	121	95	304	341	0	165	206	1880	591	691		
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	40.1	40.0	36.7	40.7	0.0	41.0	41.8	19.3	18.7	14.2	10.8	9.3
Incr Delay (d2), s/veh	0.2	0.2	0.2	1.0	0.0	2.7	1.0	0.3	0.6	0.0	0.2	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/In	0.3	0.2	0.8	1.8	0.0	2.0	1.0	2.4	1.6	0.7	3.3	0.2
LnGrp Delay(d),s/veh	40.3	40.2	36.9	41.7	0.0	43.7	42.8	19.6	19.3	14.2	11.1	9.3
LnGrp LOS	D	D	D	D		D	D	В	B	В	В	A
Approach Vol, veh/h		90			221			601			812	
Approach Delay, s/veh		37.7			42.4			22.8			11.2	
Approach LOS		D			D			С			В	
Timer	1	2	3	4	5	6	7	8	100			214
Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	26.4	40.0		12.2	10.8	55.6		11.4				
Change Period (Y+Rc), s	6.4	6.4		6.0	6.4	6.4		6.0				
Max Green Setting (Gmax), s	16.6	33.6		9.0	5.6	44.6		6.0				
Max Q Clear Time (g_c+l1), s	2.0	7.2		6.2	4.3	9.0		4.1				
Green Ext Time (p_c), s	0.7	0.4		0.2	0.0	0.7		0.0				
Intersection Summary	5.7					10.00				10.55		100
HCM 2010 Ctrl Delay		000101	20.6	1. Pro.					- Charles			
HCM 2010 LOS			20.0 C									
			C									

Chik-fil-A Novi TIS 2: Commercial Drive #1 & One-Way Mall Drive

Opening Year 2019 'Build' - AM Peak Hour 01/15/2019

Intersection

Int Delay, s/veh	0					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	1	1				1
Traffic Vol, veh/h	86	45	0	0	0	0
Future Vol, veh/h	86	45	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Stop	Stop	Stop	Stop
RT Channelized	-	None	-	None		None
Storage Length	-	125	-	-	-	0
Veh in Median Storage,	# 0	-	-	-	0	-
Grade, %	0	<u>a</u>	-	0	0	-
Peak Hour Factor	65	65	92	92	92	92
Heavy Vehicles, %	0	0	2	2	0	0
Mvmt Flow	132	69	0	0	0	0

Major/Minor	Major1	10.00	Minor1	- 3°	
Conflicting Flow All	0	0	-	132	
Stage 1		*			
Stage 2	-	4	-	۲	
Critical Hdwy	-	-	+1	6.2	
Critical Hdwy Stg 1	()	-	-		
Critical Hdwy Stg 2		-	-		
Follow-up Hdwy	3 8 5	1	-	3.3	
Pot Cap-1 Maneuver		ж.	0	923	
Stage 1	240	×	0		
Stage 2		-	0		
Platoon blocked, %		э			
Mov Cap-1 Maneuver	-			923	
Mov Cap-2 Maneuve	360				
Stage 1		91			
Stage 2		-			

Approach	EB	NB	
HCM Control Delay, s	0	0	
HCM LOS		A	

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	
Capacity (veh/h)				
HCM Lane V/C Ratio	-		1	
HCM Control Delay (s)	0	1		
HCM Lane LOS	А	•		
HCM 95th %tile Q(veh)	-	(H)	9	

Chik-fil-A Novi TIS 3: Mall Perimeter Road & Twelve Oaks Drive South

Opening Year 2019 'Build' - AM Peak Hour 01/15/2019

Intersection	10 N 11				
Intersection Delay, s/veh	9.2		_		
Intersection LOS	А				

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	٦	1	٦	44	↑ î•	
Traffic Vol, veh/h	78	61	106	12	19	20
Future Vol, veh/h	78	61	106	12	19	20
Peak Hour Factor	0.61	0.61	0.61	0.61	0.65	0.65
Heavy Vehicles, %	0	25	0	0	7	5
Mvmt Flow	128	100	174	20	29	31
Number of Lanes	1	1	1	2	2	0
Approach	EB		NB		SB	
Opposing Approach			SB		NB	
Opposing Lanes	0		2		3	
Conflicting Approach Left	SB		EB			
Conflicting Lanes Left	2		2		0	
Conflicting Approach Right	NB				EB	
Conflicting Lanes Right	3		0		2	
HCM Control Delay	9.3		9.3		8.4	
HCM LOS	A		Α		Α	

Lane	NBLn1	NBLn2	NBLn3	EBLn1	EBLn2	SBLn1	SBLn2
Vol Left, %	100%	93%	0%	100%	0%	0%	0%
Vol Thru, %	0%	7%	100%	0%	0%	100%	24%
Vol Right, %	0%	0%	0%	0%	100%	0%	76%
Sign Control	Stop						
Traffic Vol by Lane	53	57	8	78	61	13	26
LT Vol	53	53	0	78	0	0	0
Through Vol	0	4	8	0	0	13	6
RT Vol	0	0	0	0	61	0	20
Lane Flow Rate	87	93	13	128	100	19	41
Geometry Grp	8	8	8	8	8	8	8
Degree of Util (X)	0.14	0.149	0.013	0.203	0.137	0.031	0.058
Departure Headway (Hd)	5.793	5.758	3.58	5.713	4.938	5.713	5.143
Convergence, Y/N	Yes						
Сар	618	622	994	628	725	624	693
Service Time	3.537	3.501	1.323	3.453	2.678	3.468	2.897
HCM Lane V/C Ratio	0.141	0.15	0.013	0.204	0.138	0.03	0.059
HCM Control Delay	9.5	9.5	6.4	9.9	8.5	8.7	8.2
HCM Lane LOS	A	Α	А	А	А	А	Α
HCM 95th-tile Q	0.5	0.5	0	0.8	0.5	0.1	0.2

Chik-fil-A Novi TIS 4: Mall Perimeter Road & One-Way Mall Drive

Opening Year 2019 'Build' - AM Peak Hour

01/15/2019

	۶	\mathbf{r}	-	Ť	Ļ	4		
Movement	EBL	EBR	NBL	NBT	SBT	SBR	-5NG N 15	
Lane Configurations		1		† †	^			
Traffic Volume (veh/h)	0	86	0	113	72	0		
Future Volume (Veh/h)	0	86	0	113	72	0		
Sign Control	Yield			Free	Free			
Grade	0%			0%	0%			
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92		
Hourly flow rate (vph)	0	93	0	123	78	0		
Pedestrians						Ĭ		
Lane Width (ft)								
Walking Speed (ft/s)								
Percent Blockage								
Right turn flare (veh)								
Median type				None	None			
Median storage veh)				Hone	NONE			
Upstream signal (ft)								
pX, platoon unblocked								
vC, conflicting volume	140	39	78					
vC1, stage 1 conf vol	140	55	70					
vC2, stage 2 conf vol								
vCu, unblocked vol	140	39	78					
tC, single (s)	6.8	6.9	4.1					
tC, 2 stage (s)	0.0	0.9	4.1					
tF (s)	3.5	3.3	2.2					
p0 queue free %	100	3.3 91	100					
cM capacity (veh/h)	839	1024	1518					
Direction, Lane #	EB 1	NB 1	NB 2	SB 1	SB 2			
Volume Total	93	62	62	39	39			
Volume Left	0	0	0	0	0			
Volume Right	93	0	0	0	0			
SH	1024	1700	1700	1700	1700			
Volume to Capacity	0.09	0.04	0.04	0.02	0.02			
Queue Length 95th (ft)	7	0	0	0	0			
Control Delay (s)	8.9	0.0	0.0	0.0	0.0			
_ane LOS	А							
Approach Delay (s)	8.9	0.0		0.0				
Approach LOS	А							
Intersection Summary	1	- 125.				1.2.2.1.1.1.1	1000	DESC
Average Delay			2.8					
Intersection Capacity Utilization	on		15.3%	IC	CU Level o	f Service		А
Analysis Period (min)			15					

Intersection	11.7		1918	R. F.	511	11.8
Int Delay, s/veh	3.2					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
	Y	CDK	NOL	41	501 100	ODK
Lane Configurations		2	2			
Traffic Vol, veh/h	96	3	3	17	103	55
Future Vol, veh/h	96	3	3	17	103	55
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	:#	-	-	-
Veh in Median Storage	e,# 0			0	0	
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	53	53	74	74
Heavy Vehicles, %	0	0	0	0	1	2
Mymt Flow	104	3	6	32	139	74
	10-1	0	0	02	100	TT I
Major/Minor	Minor2		Major1	1	Major2	1.5
Conflicting Flow All	204	107	213	0	375	0
Stage 1	176		17	-	-	-
Stage 2	28				-	-
Critical Hdwy	6.8	6.9	4.1		-	-
Critical Hdwy Stg 1	5.8	-				-
Critical Hdwy Stg 2	5.8	1			(7)	
Follow-up Hdwy	3.5	3.3	2.2		2.7	-
Pot Cap-1 Maneuver	771	933	1369		12	-
Stage 1	843					-
Stage 2	997					-
Platoon blocked, %				100		
Mov Cap-1 Maneuver	768	933	1369			
Mov Cap-2 Maneuver	768	÷	1	1		100
Stage 1	840	-		-		25
Stage 2	997	1	100		02	-
Oldge 2	557	2	-	. a		
Approach	EB		NB		SB	
HCM Control Delay, s	10.4		1.1		0	
HCM LOS	В					
	-					
Minor Lane/Major Mvm	it	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)		1369	-	772	0.00	1
HCM Lane V/C Ratio		0.004	-	0.139	0.00	
HCM Control Delay (s)		7.6	0	10.4	10	
HCM Lane LOS		A	Ă	B	1042	
HCM 95th %tile Q(veh)	١	ô	м	0.5	2.40 2.40	
now som whe wiven?	/	U		0.5		

Chik-fil-A Novi TIS

Opening Year 2019 'Build' - PM Peak Hour

1: Novi Road & West Oaks Drive/Twelve Oaks Drive South

	×	->	7	1	+	*	1	1	1	1	Ļ	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	٦	1	**	ሻሻ	Þ		ሻሻ	***	*	٦	***	1
Traffic Volume (veh/h)	55	39	327	467	44	66	336	717	227	63	870	47
Future Volume (veh/h)	55	39	327	467	44	66	336	717	227	63	870	47
Number	3	8	18	7	4	14	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	(
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1881	1900	1900	1900	1900	1900	1900	1881	1863
Adj Flow Rate, veh/h	65	46	327	525	49	74	373	797	252	70	967	52
Adj No. of Lanes	1	1	2	2	1	0	2	3	1	1	3	1
Peak Hour Factor	0.85	0.85	1.00	0.89	0.89	0.89	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %	0	0	0	1	0	0	0	0	0	0	1	2
Cap, veh/h	114	120	407	603	119	179	281	1343	418	566	2169	669
Arrive On Green	0.06	0.06	0.06	0.17	0.17	0.17	0.08	0.26	0.26	0.24	0.42	0.42
Sat Flow, veh/h	1810	1900	2842	3476	684	1033	3510	5187	1615	1810	5136	1583
Grp Volume(v), veh/h	65	46	327	525	0	123	373	797	252	70	967	52
Grp Sat Flow(s), veh/h/ln	1810	1900	1421	1738	0	1718	1755	1729	1615	1810	1712	1583
Q Serve(g_s), s	3.3	2.2	6.0	14.0	0.0	6.1	7.6	12.8	13.0	0.0	12.7	1.9
Cycle Q Clear(g_c), s	3.3	2.2	6.0	14.0	0.0	6.1	7.6	12.8	13.0	0.0	12.7	1.9
Prop In Lane	1.00		1.00	1.00		0.60	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	114	120	407	603	0	298	281	1343	418	566	2169	669
V/C Ratio(X)	0.57	0.38	0.80	0.87	0.00	0.41	1.33	0.59	0.60	0.12	0.45	0.08
Avail Cap(c_a), veh/h	114	120	407	878	0	434	281	1343	418	566	2169	669
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	43.2	42.7	39.4	38.2	0.0	35.0	43.7	30.8	30.9	24.1	19.5	16.4
Incr Delay (d2), s/veh	4.2	0.7	10.3	4.8	0.0	0.3	170.2	1.9	6.3	0.0	0.7	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.8	1.2	4.7	7.1	0.0	2.9	10.3	6.3	6.5	1.4	6.1	0.9
LnGrp Delay(d),s/veh	47.4	43.5	49.8	43.1	0.0	35.3	213.9	32.8	37.2	24.2	20.2	16.6
LnGrp LOS	D	10.0 D	-10.0 D	D	0.0	D	F	C	D	C	C	B
Approach Vol, veh/h		438			648			1422		0	1089	
Approach Delay, s/veh		48.8			41.6			81.1			20.3	
Approach LOS		-0.0 D			D			F			20.0 C	
Timer	1	2	3	4	5	6	7	8				Sec. 1
Assigned Phs	1	2		4	5	6	1	8	-			
Phs Duration (G+Y+Rc), s	29.5	31.0		22.5	14.0	46.5		12.0				
Change Period (Y+Rc), s	6.4	6.4		6.0	6.4	6.4		6.0				
Max Green Setting (Gmax), s	15.6	24.6		24.0	7.6	32.6		6.0				
Max Q Clear Time (g_c+l1), s	2.0	15.0		16.0	9.6	14.7		8.0				
Green Ext Time (p_c), s	0.9	0.8		0.5	0.0	0.9		0.0				
u = <i>v</i> .	0.0	0.0		0.0	0.0	0.0		0.0	C REAL			Concession of the
Intersection Summary			E4.0		-34		3,17	LINE DATA		10.41		RITE
HCM 2010 Ctrl Delay			51.6									
HCM 2010 LOS			D									

HCM 2010 Signalized Intersection Summary GPD Group - Brett M. Ferrell 01/15/2019

Intersection					معاليم و م	
Int Delay, s/veh	0.1					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	1	1				1
Traffic Vol, veh/h	158	39	0	0	0	1
Future Vol, veh/h	158	39	0	0	0	1
Conflicting Peds, #/hr	0	0	0	0	0	0
	Free	Free	Stop	Stop	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length		125	-	-		0
Veh in Median Storage, #	# 0	-		-	0	
Grade, %	+ 0 0	-	-		0	-
Peak Hour Factor	86			0	50	-
		86	92	92		50
Heavy Vehicles, %	1	1	2	2	0	0
Mvmt Flow	184	45	0	0	0	2
Major/Minor Ma	ajor1			ň	/inor1	14-14-1
Conflicting Flow All	0	0			-	184
Stage 1	0					104
Stage 2	-	-				-
Critical Hdwy	-				200	6.2
Critical Hdwy Stg 1	-				./e	æ.
Critical Hdwy Stg 2	-	-				-
Follow-up Hdwy	-				-	3.3
Pot Cap-1 Maneuver		-			0	864
Stage 1		-			0	-
Stage 2		•			0	-
Platoon blocked, %		-				
Mov Cap-1 Maneuver	-	-				864
Mov Cap-2 Maneuver	-	-				
Stage 1						
Stage 2	-					
Slaye z	-	-				-
Approach	EB			-	NB	
HCM Control Delay, s	0				9.2	
HCM LOS					A	
Minor Lane/Major Mvmt	1	VBLn1	EBT	EBR	1	
Capacity (veh/h)		864	÷	5		
		0.002	-			
HCM Lane V/C Ratio						
HCM Lane V/C Ratio			-	-		
		9.2 A	-	5		

Chik-fil-A Novi TIS 3: Mall Perimeter Road & Twelve Oaks Drive South

Opening Year 2019 'Build' - PM Peak Hour 01/15/2019

ntersection				
ntersection Delay, s/veh	13.5			
Intersection Delay, s/veh Intersection LOS	В			

Movement	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	٦	1	۲	41-	↑ ₽		
Fraffic Vol, veh/h	120	197	389	60	55	204	
Future Vol, veh/h	120	197	389	60	55	204	
Peak Hour Factor	0.91	0.91	0.90	0.90	0.95	0.95	
Heavy Vehicles, %	1	0	1	2	0	1	
Mvmt Flow	132	216	432	67	58	215	
Number of Lanes	1	1	1	2	2	0	
Approach	EB		NB	1.00	SB	121-	i da de ser instaliet
Opposing Approach			SB		NB		
pposing Lanes	0		2		3		
Conflicting Approach Left	SB		EB				
Conflicting Lanes Left	2		2		0		
Conflicting Approach Right	NB				EB		
Conflicting Lanes Right	3		0		2		

13

В

14.4

В

12.6

В

		Nillin O		-	-	0.01	
Lane	NBLn1	NBLn2	NBLn3	EBLn1	EBLn2	SBLn1	SBLn2
Vol Left, %	100%	91%	0%	100%	0%	0%	0%
Vol Thru, %	0%	9%	100%	0%	0%	100%	8%
Vol Right, %	0%	0%	0%	0%	100%	0%	92%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	195	215	40	120	197	37	222
LT Vol	195	195	0	120	0	0	0
Through Vol	0	20	40	0	0	37	18
RT Vol	0	0	0	0	197	0	204
Lane Flow Rate	216	238	44	132	216	39	234
Geometry Grp	8	8	8	8	8	8	8
Degree of Util (X)	0.416	0.456	0.058	0.269	0.368	0.074	0.409
Departure Headway (Hd)	6.923	6.893	4.673	7.353	6.126	6.923	6.285
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Сар	519	522	761	487	585	515	569
Service Time	4.688	4.658	2.436	5.129	3.901	4.699	4.062
HCM Lane V/C Ratio	0.416	0.456	0.058	0.271	0.369	0.076	0.411
HCM Control Delay	14.6	15.4	7.7	12.8	12.5	10.3	13.4
HCM Lane LOS	В	С	A	В	В	В	В
HCM 95th-tile Q	2	2.4	0.2	1.1	1.7	0.2	2
	-		0.12			0.2	-

HCM Control Delay

HCM LOS

Chik-fil-A Novi TIS 4: Mall Perimeter Road & One-Way Mall Drive

Opening Year 2019 'Build' - PM Peak Hour 01/15/2019

	≯	\mathbf{r}	1	1	Ļ	1
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations		1		† †	† †	
Traffic Volume (veh/h)	0	159	0	317	176	0
Future Volume (Veh/h)	0	159	0	317	176	0
Sign Control	Yield			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	0	173	0	345	191	0
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type				None	None	
Median storage veh)				NUTE	NONE	
Upstream signal (ft)						
pX, platoon unblocked	364	96	191			
vC, conflicting volume	304	90	191			
vC1, stage 1 conf vol						
vC2, stage 2 conf vol	004	00	404			
vCu, unblocked vol	364	96	191			
tC, single (s)	6.8	6.9	4.1			
tC, 2 stage (s)						
tF (s)	3.5	3.3	2.2			
p0 queue free %	100	82	100			
cM capacity (veh/h)	609	942	1380			
Direction, Lane #	EB 1	NB 1	NB 2	SB 1	SB 2	
Volume Total	173	172	172	96	96	
Volume Left	0	0	0	0	0	
Volume Right	173	0	0	0	0	
cSH	942	1700	1700	1700	1700	
Volume to Capacity	0.18	0.10	0.10	0.06	0.06	
Queue Length 95th (ft)	17	0	0	0	0	
Control Delay (s)	9.7	0.0	0.0	0.0	0.0	
Lane LOS	А					
Approach Delay (s)	9.7	0.0		0.0		
Approach LOS	Α					
Intersection Summary		51,14	- 92 - A.			30,000,0
Average Delay			2.4			
Intersection Capacity Utilization	n		21.4%	IC	CU Level o	of Service
Analysis Period (min)			15			

Intersection	2	Ύυ.				
Int Delay, s/veh	3.7					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y			41-	1	
Traffic Vol, veh/h	81	4	2	236	288	47
Future Vol, veh/h	81	4	2	236	288	47
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	Коле	-	None	-	None
Storage Length	0	-	_	-		None
Veh in Median Storage,		-		0	0	
Grade, %	<i>"</i> 0	_	_	0	0	
Peak Hour Factor	44	44	89	89	92	92
Heavy Vehicles, %	0	0	09	1	92 1	92 2
Mymt Flow	184	9	2	265	313	51
NIVITILFIOW	104	9	2	200	313	51
Major/Minor N	Ainor2	1	Major1	1	Major2	
Conflicting Flow All	476	182	364	0		0
Stage 1	339	-				-
Stage 2	137	(;				
Critical Hdwy	6.8	6.9	4.1	-		-
Critical Hdwy Stg 1	5.8			-		
Critical Hdwy Stg 2	5.8	-		-		
Follow-up Hdwy	3.5	3.3	2.2			
Pot Cap-1 Maneuver	523	836	1206	-		
Stage 1	699	000	1200			
	881	1.52		-		-
Stage 2	001	1052		•		
Platoon blocked, %	500	000	4000	•		-
Mov Cap-1 Maneuver	522	836	1206	2	.*.	
Mov Cap-2 Maneuver	522	5 - 5		H	(9)	-
Stage 1	698	85		5	170	
Stage 2	881	853		•	(#)	-
Approach	EB	89-11	NB		SB	1015
HCM Control Delay, s	15.6		0.1		0	
HCM LOS	15.0 C		0.1		U	
	U					
Minor Lane/Major Mvmt		NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)		1206	-	531	-	
HCM Lane V/C Ratio		0.002	-	0.364	5210	1
HCM Control Delay (s)		8	0	15.6		2
HCM Lane LOS		Ă	Ă	C		22
HCM 95th %tile Q(veh)		0		1.7		21
		U	-	1.7		•

PARKING AND QUEUING STUDY



February 11, 2019

Josh Lyons GPD Group 520 South Main Street Suite 2531 Akron, OH 44311

Re: Parking and Drive-Thru Queuing Analysis - Chick-fil-A, Novi, MI

Dear Josh:

Progressive AE has completed data collection at three existing Chick-fil-A sites located within the Grand Rapids, Michigan area. The data collection effort consisted of parking occupancy counts and drive-thru queuing observations. The following pages summarize our analysis regarding the existing parking demand and drive-thru queuing at the existing sites.

INTRODUCTION

Chick-fil-A is proposing a new quick serve restaurant within the City of Novi, Michigan. As part of the site approval process, the City of Novi has requested parking and drive-thru queuing data from similar sites within Michigan. Chick-fil-A identified three sites located within the metro Grand Rapids, Michigan area that are similar to the proposed site in Novi. Table 1 shows a summary of the general site information. Figures 1–3 show aerial maps of each site and are included in the appendix.

Location	Building Size (sft)	Total Available Parking Spaces	Available Drive-Through Stacking ²	
28th Street and East Beltline Grand Rapids, MI	4,850	59 ¹	10	
M-6 and Kalamazoo Avenue Gaines Township, MI	4,877	80	8	
US-131 and 54th Street Wyoming, MI	4,971	64 ¹	12	

¹ Additional shared parking spaces available with adjacent retail sites

² Total number of vehicles able to queue in the drive-thru lanes prior to order kiosk without spilling back into the adjacent drive aisle Source: Progressive AE, February 2019

DATA COLLECTION

Progressive AE collected parking occupancy counts and drive-through vehicle queueing data on Saturday, January 26, 2019, from 12:00 p.m. to 2:00 p.m. Data was also collected on Tuesday, February 5, 2019, from 11:00 a.m. to 1:00 p.m. and 4:00 p.m. to 6:00 p.m. These times were selected based on the peak periods of site activity. The weekday midday and evening time periods were not collected at the 54th Street site as poor weather conditions (winter snow storms) would have affected the results of the analysis.

Parking Demand

The peak period parking occupancy counts were conducted at the sites during the Saturday midday, weekday midday, and weekday evening time periods. The number of vehicles parked within Chick-fil-A's

parking lot, including shared parking spaces, were counted at 15-minute intervals throughout the analysis period. Table 2 shows the 95th percentile and average number of parked vehicles within the parking lot for each time period at the sites. Detailed parking occupancy counts are included in the appendix.

The 28th Street site had the highest parking demand of the three sites, with a 95th percentile demand of 77 vehicles during the Saturday midday time period. The average 95th percentile parking demand of the three sites was 66 vehicles during the Saturday midday time period. The parking demand was slightly lower during the weekday midday and evening time periods.

Drive-Thru Queue Analysis

The peak period drive thru queue analysis was conducted at the sites during Saturday midday, weekday midday, and weekday evening time periods. The number of vehicles in the drive-thru lane queue, beginning after the order kiosk, were counted at 5-minute intervals throughout the analysis period. The counts did not include the vehicle at the order kiosk, but the number of vehicles queued behind the vehicle ordering at the kiosk. Table 2 shows the 95th percentile and average queues for each time period at the sites. Detailed drive-thru counts are included in the appendix.

The 28th Street site had the highest drive-thru queue of the three sites, with a 95th percentile queue of 20 vehicles during the weekday midday time period and 16 vehicles during the Saturday midday time period. These queues were significantly greater than the queues observed at the Gaines Township and 54th Street sites, where the 95th percentile queues were observed to be less than 10 vehicles during all time periods.

Location	Weekday Midday (11 AM–1 PM)		Weekday PM (4–6 PM)		Saturday Midday (12 Noon–2 PM)	
	Parking Occupany ¹	Drive-thru Queuing ²	Parking Occupany ¹	Drive-thru Queuing ²	Parking Occupany ¹	Drive-thru Queuing ²
28th Street & East Belt	line Avenue, Gra	nd Rapids, MI			N.T	
95th Percentile	64	20	50	8	77	16
Average	50	9	38	4	71	12
M-6 & Kalamazoo Ave	nue, Gaines Tov	vnship, MI	11.0-7.00			1.00
95th Percentile	54	5	55	10	62	5
Average	41	2	38	3	52	1
US-131 & 54th Street,	Wyoming, MI3					
95th Percentile	-	-		ž	58	9
Average	==4X	5	π	ā	46	4
Average (All Sites)						
95th Percentile	59	13	53	9	66	10
Average	46	6	38	4	56	6

Table 2. Chick-fil-A Parking Occupancy and Drive-thru Queuing Summary

¹ Total number of vehicles parked within Chick-fil-A and shared parking spaces.

² Total number of vehicles queued after the order kiosk, not including the vehicle at the kiosk.

³ Weekday data for the 54th Street site pending. Source: Progressive AE, February 2019

Sincerely.

Mich hales

Nick LaCroix, PE, PTOE Senior Transportation Engineer

NDExemp : p (77020023 wip documentation financially indicates 2019 02, 11 cfd parking and queuing analysis d

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Technical Appendix Chick-fil-A Parking and Queuing Analysis

- Site Figures
- Parking and Queuing Data


Site Figures

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Figure 1. 28th STREET & EAST BELTLINE, GRAND RAPIDS, MI



M-6 & KALAMAZOO AVE, GAINES TOWNSHIP, MI FIGURE 2.





Parking and Queuing Data

Location: 28th Street & East Beltline, Grand Rapids, MI

Date: February 5, 2019 (Tuesday)

Time Period: Weekday Midday (11 AM - 1 PM)

Drive-Thru Queue ¹	
Time	Total Queued Vehicles
11:00	0
11:05	1
11:10	0
11:15	2
11:20	1
11:25	1
11:30	3
11:35	5
11:40	10
11:45	6
11:50	9
11:55	12
12:00	16
12:05	18
12:10	17
12:15	20
12:20	20
12:25	20
12:30	13
12:35	13
12:40	11
12:45	8
12:50	7
12:55	7
1:00	7
95 th Percentile	20
Average	9

¹ Number of vehicles after the	
order kiosk, not including the	
vehicle at the kiosk	

Parking Occupancy	
Time	Total Parked Vehicles
11:00	22
11:15	36
11:30	41
11:45	49
12:00	52
12:15	60
12:30	60
12:45	66
1:00	60
95 th Percentile	64
Average	50

Location: 28th Street & East Beltline, Grand Rapids, MI

Date: February 5, 2019 (Tuesday)

Time Period: Weekday PM (4 - 6 PM)

	Drive-Thru Queue ¹	
Time	Total Queued Vehicles	
4:00	1	
4:05	0	
4:10	0	
4:15	2	
4:20	2	
4:25	7	
4:30	5	
4:35	6	
4:40	5	
4:45	5	
4:50	10	
4:55	5	
5:00	4	
5:05	1	
5:10	0	
5:15	0	
5:20	5	
5:25	1	
5:30	1	
5:35	1	
5:40	3	
5:45	7	
5:50	4	
5:55	6	
6:00	8	
95 th Percentile	8	
Average	4	

Time	Total Parked Vehicles
4:00	32
4:15	23
4:30	30
4:45	32
5:00	38
5:15	50
5:30	48
5:45	39
6:00	50
95 th Percentile	50
Average	38

Parking Occupancy

Location: 28th Street & East Beltline, Grand Rapids, MI

Date: January 26, 2019 (Saturday)

Time Period: Saturday 12 Noon - 2 PM

Drive-Thru Queue ¹	
Time	Total Queued Vehicles
Noon	18
12:05	12
12:10	13
12:15	10
12:20	6
12:25	5
12:30	11
12:35	12
12:40	11
12:45	12
12:50	13
12:55	10
1:00	11
1:05	15
1:10	12
1:15	11
1:20	10
1:25	12
1:30	10
1:35	10
1:40	16
1:45	16
1:50	15
1:55	13
2:00	13
95 th Percentile	16
Average	12

Parking Occupancy	
Time	Total Parked Vehicles
Noon	63
12:15	67
12:30	69
12:45	73
1:00	79
1:15	74
1:30	73
1:45	73
2:00	70
95 th Percentile	77
Average	71

Location: M-6 & Kalamazoo Avenue, Gaines Township, MI

Date: February 5, 2019 (Tuesday)

Time Period: Weekday Midday (11 AM - 1 PM)

Drive-Thru Queue ¹	
Time	Total Queued Vehicles
11:00	0
11:05	0
11:10	0
11:15	1
11:20	0
11:25	3
11:30	2
11:35	7
11:40	5
11:45	5
11:50	3
11:55	0
12:00	4
12:05	3
12:10	1
12:15	5
12:20	0
12:25	4
12:30	1
12:35	2
12:40	2
12:45	3
12:50	3
12:55	3
1:00	0
95 th Percentile	5
Average	2

Parking Occupancy	
Time	Total Parked Vehicles
11:00	26
11:15	28
11:30	34
11:45	47
12:00	54
12:15	53
12:30	51
12:45	42
1:00	37
95 th Percentile	54
Average	41

Location: M-6 & Kalamazoo Avenue, Gaines Township, MI

Date: February 5, 2019 (Tuesday)

Time Period: Weekday PM (4 - 6 PM)

Drive-Thru Queue ¹	
Time	Total Queued Vehicles
4:00	1
4:05	0
4:10	0
4:15	0
4:20	0
4:25	0
4:30	0
4:35	0
4:40	0
4:45	0
4:50	4 –
4:55	8
5:00	4
5:05	2
5:10	11
5:15	1
5:20	11
5:25	4
5:30	3
5:35	4
5:40	7
5:45	4
5:50	5
5:55	5
6:00	0
95 th Percentile	10
Average	3

Parking Occupancy	
Time	Total Parked Vehicles
4:00	30
4:15	22
4:30	22
4:45	30
5:00	35
5:15	43
5:30	55
5:45	54
6:00	55
95 th Percentile	-55
Average	38

Location: M-6 & Kalamazoo Avenue, Gaines Township, MI

Date: January 26, 2019 (Saturday)

Time Period: Saturday 12 Noon - 2 PM

	and the second s
Time	Total Queued Vehicles
Noon	0
12:05	0
12:10	1
12:15	0
12:20	1
12:25	2
12:30	4
12:35	0
12:40	0
12:45	1
12:50	2
12:55	5
1:00	7
1:05	3
1:10	0
1:15	0
1:20	1
1:25	0
1:30	0
1:35	1
1:40	2
1:45	2
1:50	0
1:55	0
2:00	0
95 th Percentile	5
Average	1

Parking Occupancy	
Time	Total Parked Vehicles
Noon	40
12:15	42
12:30	45
12:45	58
1:00	61
1:15	52
1:30	51
1:45	54
2:00	62
95 th Percentile	62
Average	52

Location: US-131 & 54th Street, Wyoming, MI

Date: January 26, 2019 (Saturday)

Time Period: Saturday 12 Noon - 2 PM

Drive-Thru Queue ¹	
Time	Total Queued Vehicles
Noon	0
12:05	1
12:10	5
12:15	2
12:20	0
12:25	1
12:30	3
12:35	0
12:40	0
12:45	1
12:50	3
12:55	0
1:00	4
1:05	4
1:10	8
1:15	5
1:20	5
1:25	9
1:30	11
1:35	9
1:40	5
1:45	4
1:50	6
1:55	8
2:00	3
95 th Percentile	9
Average	4

Parking Occupancy	
Time	Total Parked Vehicles
Noon	30
12:15	43
12:30	39
12:45	47
1:00	43
1:15	48
1:30	58
1:45	57
2:00	53
95 th Percentile	58
Average	46

MASTER PLANNING AND ZONING COMMITTEE MINUTES



MASTER PLAN AND ZONING COMMITTEE City of Novi Planning Commission March 13, 2019 at 6:00 p.m. Novi Civic Center – Council Conference Room 45175 W. Ten Mile, Novi, MI 48375 (248) 347-0475 DRAFT MINUTES

CALL TO ORDER

The meeting was called to order at 6:06 p.m.

1. Roll Call

Present:Member Avdoulos, Chair PehrsonNot Present:Member Anthony

Staff Present: Barb McBeth, Sri Komaragiri, Tom Schultz, Hannah Smith

2. Approval of Agenda

Motion to approve by Member Avdoulos, seconded by Member Pehrson.

- 3. Approval of January 23, 2019 Master Plan and Zoning Committee meeting minutes Motion to approve made by Member Avdoulos, seconded by Member Pehrson.
- 4. Audience Participation and Correspondence There was no audience participation or correspondence.

5. Discussion Items

A. <u>Rezoning request from Regional Commercial (RC) to Regional Commercial with a</u> <u>Planned Development 2 Options (PD-2)</u>

Review and provide comments on the rezoning request for a 1.40 acres of property located at the south east corner of Novi Road and Twelve Oaks Drive (Section 15) from Regional Commercial (RC) to Regional Commercial with a Planned Development 2 Options (PD-2).

Planner Komaragiri explained that the proposed use is well accepted, but this is coming before the Committee to consider the location. The proposed site is a small lot, which comes with challenges. The site is currently zoned RC, Regional Commercial, and a drive-thru is not allowed there, but can be allowed with a PD-2 Option. This was done on the other side of the road.

City Planner McBeth added that a lot of the outlots around the mall have the PD-2 Option in place, this one does not. Planner Komaragiri said all areas along Twelve Mile have it, but this site on Novi Road does not. The Conference District on the opposite side of the road has a PD-2 Option, as well.

Planner Komaragiri explained that this is a small site with very small space to develop. The Denny's that was on this site is considered legal non-conforming because of parking and the building. Chick-Fil-A wants to do a drive-thru on the site but cannot fall within the legal non-conforming use because of the use and the proposed relocation of the building. The PD-2 Option allows rezoning and site plan to be done as one application, so there is the benefit that when the rezoning request comes in, there is a site plan as well.

Multiple traffic studies were conducted since traffic is a big issue based on the location of this site, including a Trip Generation Study and a Queuing Study since more stacking may be required. The studies reflect that what the applicant is proposing is sufficient but there is a possibility for the overflow of stacking. A Parking Study was also done because the applicant is proposing less than what is required, and our Traffic consultant has suggested that they work with La-Z-Boy for potential cross-access parking in case overflow parking is needed.

There were concerns with not having a bypass lane but the applicant worked with the Fire Marshal to provide ultimate means so that Fire will have access from all sides of the building as needed. This would still require a deviation for lack of bypass lane. They would have a contingency plan for emergency situations in the drive-thru.

The project would need multiple landscape waivers. But the major issues to consider are the use, the potential lack of parking, etc. There are no natural features on the site. Their Façade is in full compliance.

Jason Hill, with Chick-Fil-A, said we chose this site because of the great location and exposure being right at the interchange, it has great access, great synergy with the mall, and the demographics here are perfect. The size of the site is large enough to accommodate our site plan usually, but size and access points together create a challenge. In trying to balance what we need for operations and what is required from the Ordinance, this is the best layout we could fit for the plan.

Because of popularity, our drive-thru is about 60% of our business so that's obviously an important part. Chick-Fil-A is constantly trying to improve how that works, and part of that is having team members outside. So some team members will be outside with iPads so the drive-thru process is faster. There are dedicated areas where team members will be, and we've started doing canopies with heaters and fans to provide protection for our members as well as the cars in the drive-thru. There is also a canopy at the pick-up window with a bypass lane for Fire.

Chair Pehrson asked about site access and egress. Would cars come in by Red Lobster and go to either drive-thru or to parking, is it forced that cards go out to La-Z-Boy? I am concerned with the traffic flow going onto the ring road being forced to turn right there instead of being able to turn left to get back out to Novi Road. The stacking and the egress point are the only concerns I have.

Mr. Hill said I don't know if there are any alternatives to that, we could look into putting up signage.

Member Avdoulos said for the Planning Commission, I would suggest having a larger site plan with a layout showing the ingress and egress and flow of the site. The larger picture like that is the first thing I look at before looking into the details. It would also be helpful to show the canopies so that people can understand the size of those.

Chair Pehrson asked that if this site is similar in size to others, are the parking numbers the same as other locations?

Planner Komaragiri said based on the parking data, there may be a need for overflow parking at peak times.

City Planner McBeth asked in ranking store volumes, where Chick-Fil-A would expect this one to fall?

Mr. Hill said right now, we are expecting it to be about average.

Chair Pehrson said deviations are the natural course of a new use coming into an existing site that is non-conforming, but a lot of deviations can cause opposition at Planning Commission. It would be helpful if you could explain the deviations up front when you go to Planning Commission.

Planner Komaragiri said there ae a couple of Landscape deviations so there is less green space, but so that they have more parking.

City Planner McBeth said this is not a PRO, but it's a PD-2 Option. So with that, all deviations can be built into the agreement instead of having to go to the ZBA. It would be a recommendation to City Council.

Chair Pehrson said this site and use would be getting rid of something that's been vacant and putting something in its place that is upscale and trendy. People will want to come to this site and it will bring people to the City to come here. It's just an awkward site. We'd suggest that you approach La-Z-Boy to discuss shared parking if you haven't already.

City Planner McBeth said we were wondering about the Red Lobster for shared parking, as well.

Chair Pehrson said they get very busy there and the parking lot is often filled up.

Chair Pehrson said I don't think we would have a problem recommending approval for this and moving forward with it, as far as this Committee is concerned. There are other properties in the area with the PD-2, so it is not anything new. Traffic just may pose an issue.

Member Avdoulos agreed and said there will be concerns about traffic and circulation. The brand is recognizable and I think the size is ok, but I'd just suggest you bring forward the ingress and egress issues when this goes to the Planning Commission.

Planner Komaragiri said so the biggest issues are the parking deviations, landscaping which they've made progress on with our Landscape Architect, and the ingress and egress issues. Those are things the Planning Commission will look at.

6. Adjourn

Motion to adjourn made by Member Avdoulos, seconded by Member Pehrson. Meeting adjourned at 6:50 p.m. 04-17-19 PLANNING COMMISSION MINUTES (DRAFT) (Excerpt)



PLANNING COMMISSION MINUTES

CITY OF NOVI Regular Meeting **April 17, 2019 7:00 PM** Council Chambers | Novi Civic Center 45175 W. Ten Mile (248) 347-0475

CALL TO ORDER

The meeting was called to order at 7:00 PM.

ROLL CALL

Present:	Member Anthony, Member Avdoulos, Member Hornung, Member	
	Lynch, Chair Pehrson	
Absent:	Member Greco, Member Maday	
Also Present:	Sri Komaragiri, Planner; Lindsay Bell, Planner; Rick Meader, Landscape	
	Architect; Kate Richardson, Staff Engineer; Beth Saarela, City Attorney;	
	Josh Bocks, Traffic Consultant; Pete Hill, Environmental Consultant;	
	Doug Necci, Façade Consultant	

PLEDGE OF ALLEGIANCE

Member Lynch led the meeting attendees in the recitation of the Pledge of Allegiance.

APPROVAL OF AGENDA

Member Avdoulos said I'd like to make an amendment to the agenda to move Item 3 – Lakeview JSP18-16 to be Item 2 on the agenda, and the following items to be numbered accordingly.

Moved by Member Avdoulos and seconded by Member Lynch.

VOICE VOTE TO APPROVE THE APRIL 17, 2019 AGENDA AS AMENDED MOTION MADE BY MEMBER AVDOULOS AND SECONDED BY MEMBER LYNCH.

Motion to approve the April 17, 2019 Planning Commission Agenda. *Motion carried* 5-0.

AUDIENCE PARTICIPATION

Nobody in the audience wished to speak.

CORRESPONDENCE

There was no correspondence.

COMMITTEE REPORTS

There were no Committee Reports,

CITY PLANNER REPORT

Planner Komaragiri said there is nothing to report.

CONSENT AGENDA

There were no items on the consent agenda.

PUBLIC HEARINGS

1. CHICK-FIL-A JSP18-75

Public hearing at the request of GPD group for JSP 18-75 Chick-Fil-A for Planning Commission's recommendation to the City Council for approval of rezoning from Regional Center (RC) to Regional Center with a Planned Development 2 option (PD-2), Preliminary Site Plan with a PD-2, Special Land Use and Stormwater Management Plan approval. The subject property is located at the southeast corner of Novi Road and Twelve Oaks Mall Road in Section 14. The applicant is proposing to develop a 4,990 square foot Chick-Fil-A restaurant with a drive-through. The applicant will be utilizing the Planned Development 2 (PD-2) option to propose a drive-through.

Planner Komaragiri said the applicant proposes to redevelop the 1.4-acre site located at the northeast corner of Novi Road and I-96 exit ramp intersection. The new restaurant will be approximately 4,990 square feet. It includes a drive-through and a play area inside the building. The restaurant proposes 114 indoor seating and 16 outdoor seating.

The property is currently zoned RC, Regional Center. The existing building is considered a legal non-conforming structure, as it doesn't meet the current parking or building setbacks. The proposed redevelopment is required to conform to the Ordinance standards and is not allowed to follow the non-conforming setbacks. As noted in the rezoning review, this would limit the development potential for the site. The applicant is proposing to redevelop the site using the PD-2 Option, which provides a greater flexibility for redevelopment and also allows a drive-through. The subject property would be rezoned from RC to RC with a PD-2 Option.

The PD-2 Planned Development Option is intended to permit the limited application of more extensive commercial uses in a district otherwise restricted to community and regional oriented shopping centers. Our Future Land Use map indicates Regional Commercial for this and surrounding properties. This is located in close proximity to the properties to the west across Novi Road and properties along Twelve Mile Road which are designated as PD-2. This is also located on the periphery of Twelve Oaks Mall, similar to McDonalds drive-through to the north.

The Engineering review letter notes that rezoning will result in utility demands that are approximately equal or less than the utility demand if the property were to be developed under the current zoning.

The applicant has submitted a Community Impact Study, Noise Impact Study, Traffic Impact Study, Parking and Queuing Study. The studies noted that the impacts of the development are not anticipated to degrade levels of services beyond those under existing conditions during either the AM or PM peak periods.

Planner Komaragiri said our Zoning Ordinance allows the Planning Commission to proceed simultaneously with review and recommendation on applications for rezoning, PD Option and Preliminary Site Plan with a Special Land Use approval at the same time. Conditions of Special Land Use, as noted in the review letter, should be considered. Deviations from the Ordinance are considered and are subject to City Council approval based on Planning Commission approval and will be part of a PD agreement. The applicant requests about 19 deviations for the current layout. Most of the deviations are because the plan is trying to accommodate a drive-through and associated uses in a relatively small site.

Some of the deviations are straightforward, such as lack of Rezoning Traffic Study and distance from another restaurant. They are supported by Staff. Some required additional conditions, such as loading zone and dumpster location, which are located in an interior side yard and it was hard to avoid, as the site has frontage on three sides. All parking setback deviations are consistent with existing non-conformities. The proposed building location would require a deviation, with 50 feet required and 32 feet proposed. The applicant may expand on this during their presentation. The building is proposed at the current location to accommodate required queuing and site visibility from Novi Road. The applicant noted that multiple alternatives were considered before setting with this one.

If you may notice, the original plan that was part of the packet included angled parking in this location, but they provided revised layout that shows perpendicular parking. A deviation is required for a lack of bypass lane for a limited stretch, as indicated in the red circle on the screen. The applicant is providing an 11-foot bypass lane when two drivethrough lanes merge into one around the northwest corner. Fire has confirmed that it has access to all sides of the building and has no additional comments or concerns to the proposed layout. Traffic is in support of the layout based on the Queuing Study findings.

Another major deviation that is required is for the lack of minimum parking. Based on the restaurant size, a minimum of 100 spaces are required and the applicant is only providing 65. The applicant has provided a Parking Study to support the proposed number. The Study compared three different existing locations. Two of the location required about 62 spaces at peak time. The Grand Rapids location, which is one of those three, required 79 parking spaces. The proposed parking is closer to the peak demand, however it is less than the 79. However, we recommend that the applicant pursue a shared parking agreement with the La-Z-Boy facility to the east to alleviate issues if potential peak parking reaches parking needs similar to Grand Rapids.

Planner Komaragiri said a Queuing Study was submitted, which compared queuing demand at three similar locations. The existing demand is between 11 and 20, depending on the location. The current plan proposes 17 spaces from the pick-up window to here. The Traffic review recommended designating the spaces for employee parking, indicated in red, to avoid potential conflict with excessive queuing so people are not stuck in those spaces trying to get out.

Most of the Landscape deviations were not supported earlier based on the packet you received. However, the applicant has been working with our Landscape Architect on possible revisions in the last couple of days. Staff now supports all the deviations at this time, as they made an attempt to reduce the intensity of what they were asking before.

Stormwater would be collected by a single storm sewer collection system and discharged to a regional detention basin, which is why you don't see a pond on the site at this time. The building elevations conform to the code and do not require any waivers. Engineering and Fire recommend approval, with additional changes to be made with Final Site Plan.

As the proposed rezoning is not supported by the Future Land Use map, the rezoning request was presented to the Master Planning and Zoning Committee for input. The Committee provided favorable input and asked the applicant to address issues regarding circulation in and out of the site. Our Traffic consultant, after reviewing this exhibit, recommended that the exiting traffic from the drive-through should be directed towards the eastern exit, not the northern, because people exiting the site will not be able to turn left at either of those exits and they'd have to turn back to Twelve Oaks Drive to get back to Novi Road. The applicant is going to present and expand on this as part of their presentation.

Planner Komaragiri said the Planning Commission is asked tonight to hold the public hearing and make a recommendation to City Council for the items stated earlier – the rezoning, PD-2 Option, Site Plan, Special Land Use, and Stormwater Management Plan, along with the mentioned deviations. The applicant, Jason Hill, is here tonight the design Engineer, Ellen Selle, and will make a presentation shortly. We have our Traffic Consultant, Josh Bocks, and Façade Consultant, Doug Necci, here tonight if you have any questions for them. Thank you.

Jason Hill, with Chick-Fil-A, said it's good to see you all again, we're excited to be here. The first thing I'd like to do is thank you, Mr. Chair and members of the Planning Commission, for hearing our case tonight. We know it takes time and energy and effort to review it, so we thank you for that. Most of all, I want to thank Sri and the rest of the Staff – you've been really great to work with, you're very smart folks and you represent the City of Novi really well, so we thank you for that and most of all for your thoroughness.

Given that you've got a full agenda tonight, I'll be brief. We're just really excited about being here. I won't go into the Chick-Fil-A spiel per se, I just want you to know that we worked really, really hard to take a unique piece of property that had a lot of physical challenges with it and maximize it to the best of our ability to support our operations. And we worked hard to minimize the number of deviations and working back and forth with Staff. What you have before you presents the latest and greatest in the innovations that we've got, both inside the building as well as outside of the building on the site specific to the drive-through use. I think you'll notice that if you go to any of our locations during peak times, we have team members outside taking orders face to face to help efficiency through the drive-through. And in order to help do that in a way that's most comfortable for our team members, we have instituted some canopies to do that. So we would envision our drive-through to function at high efficiency at this location because of all the innovations we've got incorporated into this.

As mentioned, we designed the site to maximize the parking as much as we can. We provided the Parking Study, which shows the numbers are pretty close to the 68 spaces that we've been able to provide. We have since reached out to the La-Z-Boy ownership. They're not currently in support of providing us with a Shared Parking Agreement, so I just want to be transparent about that – we're not able to maintain that, so we're hopeful we can garner your support in spite of that. With that, I'll turn it over to Ellen Selle from GPD to

give you a low-down on the site layout.

Ellen Selle, with GPD Group, said I'm going to skip through these first few slides since Jason did a great job talking to us about Chick-Fil-A. So here is the overall Twelve Oaks Mall layout, and you can see where Chick-Fil-A is proposing to go. And it's not just a straight up rectangular site, there are some unique characteristics to it. We border Novi Road primarily, we also border I-96 and also Twelve Oaks Road, a one-way just north of us.

So here is just a closer view that shows that same layout that Sri was showing us. You can see that we are looking to best drive the customers out of the site. We've been in discussions with the mall and with the property owner to see what is best for that. So talking with the Traffic engineer, we're looking at putting a Stop sign here at the end of the drive-through, again forcing all of that traffic out of the site through La-Z-Boy coming out of the southern drive. From there, they have the option to either go north or south. North will take them to the closest signalized intersection, and south will take them around the ring road. And you can see that a little better here. Not everyone will go out those first drives, that can be seen better in the distribution in the Traffic Study so you can look at that a little more to see exactly how many are going to go where.

Ms. Selle said, I also want to point out the Shared Parking that we weren't able to get, as Jason mentioned, but we have done a lot on the site to help get our numbers there. Sri had mentioned that we had 63 parking stalls, and we actually have moved that up to 68. With taking those angled spots at the top and making them perpendicular, we've been able to pick up a few spots there. So we're really working to get towards that number. The other thing was the Queuing Study said that 77 was the maximum at the 95 percentile, that was the number of vehicles that were parked at the one particular location out of the three. But the average number was 71, and 71 is a lot closer to the 68 that we're looking at and that was again, only at one of the three. The other three were well under the 68. We also have internally looked at other sites around the Michigan area that have similar size footprint, and they're all within that just under 70 number – between about 55 and 70, and they're all right there and all performing very well and they're not overly parked. So we are well within that range and we feel comfortable with the number of 68 that we've presented.

Here is the proposed site plan that is overlaid, you can see where that existing building is, how Sri was talking about the setbacks, and how we have this uniqueness to the site. So we have laid out the building to be along that angled to allow us to have the most stacked cars. We have a 22 stack here and that is a pinchpoint, but that's where the two lanes come together so you don't want those two lanes picking up from the drive-through area so you need that area to constrict down. So with that, we've talked to the Fire Department and we've actually worked with them to be able to bring the fire truck in along the drive-through side. If there was a fire, they would have the space. The reason for that bypass lane was so the truck could fully circulate. So we worked our way around that and talked to them about making those modifications and you can see the square in red is our canopy for where our order point is, that's where those two lanes are and then they're going to pinch down into one. And the other area that's kind of in red there, that's where our drive-through canopy is, and that's been shortened closer to the building so that fire truck can have access. And here you can see it a little better on our site plan. And then these are the auto-turns that just kind of shows you how those vehicles are going to get in and it's still going to work. Here is the garbage pick-up, here is that fire truck that is going to pull in along the building side and still have room to make those maneuverability, and also we have the box truck that is going to deliver in that loading zone.

Ms. Selle said the Landscape plan we worked through extensively with Rick and I'm so happy to say that today we got confirmation that all the trees we got put in and all the landscaping, we're looking at I think close to 52 trees and we really tried to maximize everywhere we could. Some of the things we discussed are that when we put in the parking stalls, we were able to rearrange some of the square footages up there so we would have space to put in additional endcap trees that were required, also get that square footage up to where we need to be. And then I can show you a little better, here's the landscape plan again and the grading plan. So we've really worked with the existing conditions of the site and one of the conditions was that they wanted the drivethrough screened. So with the site being lower than Novi Road and being lower than the highway right there, we were able to work with those elevations so our site is a little lower, we've also bermed up a little bit and then added the row of trees and shrubs that fully blocked your view of the drive-through. And then with this, I just wanted to point out the two existing utilities that have limited us from putting in trees in those endcap islands. It's at the two ends closest to the La-Z-Boy, there's some utilities that we're working with that we can't put one in but again, we've worked with Rick to maximize what we can to put additional square footage and all the trees that we could put on site.

I want to show some of the elevations. We do have a materials board, it shows the two different kinds of brick that we're proposing. And this top elevation is the drive-through side, so that's what you'll from Novi Road. But again, you won't see all of it because it will be screened by a lot of trees, shrubs, the berm, and then also there will be some cars possibly on the drive-through so you won't be able to see all of that building. The lower one is what you'll see from the parking lot. The top elevation here is the front entry that kind of faces caddy corner to Novi Road, and that will have a patio in front. And then the bottom one is obviously the rear, and that faces the dumpster side and the highway side. And these are just generic perspective views, it's not exactly how the site lays out but you can kind of get a better idea of how the building is. And this is the overall floor plan, it shows that Play Place that we discussed.

We're happy to say that we've worked through a lot of those waivers and we feel that we have the City staff's recommendation for approval on all of the waivers we've asked for. So if you have questions, we'd be happy to answer.

Chair Pehrson asked if there was anyone in the audience that wished to address the Planning Commission regarding this project.

Leonard Riber, 42901 W Thirteen Mile Road, said I'm opposed to the rezoning. I don't mind the restaurant, I just don't want to change the way things are. There's always plenty of congestion on Novi Road. Thank you.

Jennifer Riber, 42901 W Thirteen Mile Road, said I'm opposed to the drive-through aspect of the restaurant. I think that even though they've talked about how they're going to reroute traffic, it's still going to cause too much of a problem. Thank you.

Glayde Moulder, 25147 Sullivan Lane, said I don't know how many of you go out shopping

in Christmas season starting October to January. If you try to get out of the mall around that drive, you can't make any turns. The traffic is already backed up all the way inside the mall. I have no issues with having the restaurant. The drive-through portion of it, it's going to make life a lot more difficult for the shoppers at the mall, people who are trying to get to the mall, get out of the mall. As it is right now without the drive-through there, if you are trying to get out of the mall on Sunday afternoon for instance. The mall closes at 6 o'clock, and by 5 o'clock, 5:30, the traffic already is backed up. On the exit of the mall to get onto Novi Road, there is one traffic light and a stop sign that is exactly where the site is. How do you think people are going to get in and out of the mall, or for that matter get in and out of the restaurant? Because it's already backed up. Just food for thought. Thank you.

Ron Jones, 42323 Park Ridge Road, said I've been here for over forty years, I don't see anything wrong with replacing one restaurant with another restaurant. And I'm tired of driving all the way to Troy or Toledo for a Chick-Fil-A. I'm in support of this Chick-Fil-A. We've put restaurants in, we've taken restaurants out, we've taken businesses in and out. Sears is closing down, so we have enough removal of some traffic that will help alleviate any Chick-Fil-A parking problem we might have. And Christmas is Christmas, I don't care which mall you go to – you're going to stand in line to get in, stand in line to get out. So I'm in support of Chick-Fil-A.

Dorothy Duchesneau, 125 Henning, said I like chicken. I am concerned, however, with this proposal because of the rezoning to allow the drive-through. This results in an increasing number of in-and-out trips because of the nature of the drive-through. The traffic count impact study that was done in mid-January and February will likely be much different than one done in the back-to-school or Christmas holiday season, at least as far as the regional shopping mall is concerned. Although other outlots surrounding this mall can, and some do, include a drive-through option, this site with the location literally behind the La-Z-Boy does not. This lot's location and its access might have been the reason for this exclusion in the zoning when the mall was created back in the late 70s. Chick-Fil-A is a primary drive-through location, they say that their expectation is that 60 percent of their business to be drive-through. It will have much different traffic patterns and volume compared to the previous 24-hour Denny's. The stacking request of 22 cars seems to indicate this; it is double the 12 slated for the Starbucks expansion across the street, which I supported.

The west-east traffic flow coming off the northbound Novi Road exit from the westbound expressway runs only one way east to the mall road. It's an easy access into the mall without having to use any of the Novi traffic lights when heading north, but that inbound east road also causes issues when you try to get back out. Going south, you have to know that there's a no left turn sign at that spot. On top of that, on the ring road, you do have to keep an eye out for the small sign that says turn right here to get to the Denny's or the La-Z-Boy. For me, grabbing a meal while on the run means getting in and out of a drive-through location with the least amount of hassle. That means easy access in and quick and easy access back to the road I was on so I can continue my journey to wherever. I would like to know what the mall's views are on the increasing usage of the La-Z-Boy ingress-egress point being used for left turns to get back on the ring road, especially during shopping seasons. Page 220 of your packet shows all those exits more clearly because it shows the entire mall. If you do the expanded Google Maps view of the three similar sites listed by the applicant on pages 170, 370, 475, they show much easier and cleaner and in some cases more ingress and egress points than what is remotely possible

for this site. We've lost a Big Boy's and a Bob Evans in the past due to access issues, hate to see that happen to Chick-Fil-A. Thank you.

Michel Duchesneau, 1191 South Lake Drive, said many of the residents of Novi have approached me and said they'd love to see a Chick-Fil-A in Novi. However, this is not the plan or location that should be supported. The applicant's Chick-Fil-A request for rezoning should be denied. The applicant's proposal does not meet the City's current ordinances for a drive-through restaurant. For this location, the applicant should consider building a restaurant without the drive-through feature and have more parking. A sit-down restaurant is a viable use for this site under its current zoning. The Denny's restaurant is evidence of that. The restaurant flourished for decades and was still successful when it closed. The applicant's proposal has a lack of on-site parking. This is a major deviation and is the main reason for denying this proposal. The plan that is proposed, and I've updated it, provides for only 68 of the 100 parking spaces required. Currently, Denny's has 90 parking spaces. The applicant's proposal removes 22 parking spaces from what is currently on site. In addition, the applicant's submittal also indicates 20 to 22 vehicles maybe in line stacked up in the drive-through. This is extensive vehicle stacking, access to parking spaces will be further hindered, customers coming for indoor-outdoor seating will most likely use the La-Z-Boy parking spaces for overflow or convenience.

A bypass lane is required by City Ordinance for a drive-through. This requirement is not met. Access to the site is a concern for this establishment. The egress, which has been mentioned, basically routes you in a long way and it's awkward for the drive-through. The site is too small for the applicant's proposal. This is evidenced by the large number of deviations required and these include not meeting required setbacks and not meeting City's landscaping requirements. It sounds like they have made substantial improvements with the landscaping based on what was said earlier, but it sounds like there are still deviations needed. Every time we grant such a large number of deviations to an applicant, we dilute the value of our Ordinances. Thank you.

Jim Brady, 50983 Glades Court West, said my daughter Megan has some words to say in support of Chick-Fil-A.

Megan Brady, 50983 Glades Court West, said I am nine years old. I am here to support our community and the business in Novi. I believe opening a Chick-Fil-A in the City of Novi is a fabulous idea. When I was younger and I lived in North Carolina, I went to Chick-Fil-A a lot because they had great chicken that was good for you, nice people who worked there, an amazing customer experience, and always very clean. By adding a Chick-Fil-A to Novi, it would bring good tax dollars to the City and give support to the community. Thank you.

Mike Garbacik, 24655 Dinser Drive, said I've lived in Novi since 1988 and I can tell you that the mall now is not what it used to be. We need more things that will drive people to come to the mall, come to Novi, and Chick-Fil-A will be one of those things. Everybody travels to go to Chick-Fil-A, people enjoy it. This mall has 1.5 million square feet of retail space and over 7,000 parking spots. They can get people in and out of there, there is no problem moving around that mall. And having another full operating restaurant instead of the dead, empty, decaying Denny's that it is now – I think that would be a great thing to see the first thing when you come off of the Novi Road exit.

Chair Pehrson asked if there was anyone else that wished to address the Planning

Commission regarding this project. Seeing no one, he asked if there was any correspondence.

Member Lynch said yes. We have five letters of support.

Chair Pehrson said those will all be entered into the record. Chair Pehrson closed the public hearing and turned the matter over to the Planning Commission for their consideration.

Member Anthony said Rick, so now we've at least been able to get an update on the Landscaping. I just wanted to hear from you about that update, how you feel about it.

Landscape Architect Meader said so they've eliminated a lot of the waivers that they had, and of the waivers that are left, the primary one would probably be the width of the setback on the southwest corner but that basically has a huge area in front of it so I didn't really think that that was too much of an issue. They have a couple endcaps where they can't have the trees because there are utility conflicts. And then they can't have all of the foundation plantings at the building just because of the way the layout is and the drive-through, so they have them across the aisle but there's still a lot. So from the road, it will still look like the foundation is basically landscaped, it's just not right at the foundation. So that's where those primary ones were that we were working through, but they were able to shift things around to get more of the interior islands that I was looking for. So I think it will be a really heavily landscaped site and I think it will be attractive.

Member Anthony said and I think it was 59 trees now that would be there.

Landscape Architect Meader said | didn't count the total trees. If that's what she said, | trust her.

Ms. Selle said it was around 52.

Member Anthony said I do have to say, I didn't think you'd be able to pull off landscaping like that, so good job and good work there. The trees that are closest to the road on Novi Road, are they angled like that so that you don't disrupt the line of sight for cars moving in and out of the road?

Landscape Architect Meader said no they're pretty well centered along there, and they may not even be able to be planted anyway if the Road Commission for Oakland County says no. But they're ok, because that is the drive in only so it's not really blocking any visibility. But the Road Commission does what they want to do, and we will go along with that.

Member Anthony said so the Road Commission will still have final say in making sure that that visibility is open and safe?

Landscape Architect Meader said for those four trees, yes.

Member Anthony said alright, good. I like our rezoning from the Regional Center to the PD-2, simply because we maintain control of that property and if this were to move to another business, we also would have another shot at that. When I look at the Traffic

Study, we have good engineers that we hire from the outside. They went through and they saw minimal degradation to the traffic, and I think part of that is because the Chick-Fil-A is within the mall complex as opposed to out on Novi Road with the access. So wherever that goes within that mall, you would end up with the same effect anyway. So the traffic seems to fit well. The issue is on the parking, and this question I have for the Chick-Fil-A staff. I know you gave your pitch on that, but have you talked with the mall? Because there is considerable space for parking across in the mall parking lot.

Mr. Hill said yes, our concern with that is that we don't want to direct people to park there because one it's a long way to walk and two there is not adequate pedestrian activity from that mall parking all the way to our site. And we don't want to start introducing the opportunity for people to cross what folks have already described as a busy ring road. Just to keep it safe for everybody.

Member Anthony said yeah, I think you will have parking there anyways. You can see that this is going to be a pretty popular site, I bet it matches your flow in Grand Rapids. At least with the parking, it's contained. It's not going to cause an overflow out onto Novi Road, it's going to be contained in our mall area. And this leads me to addressing the one comment on a site that has many deviations. Often we have a site that is difficult and you can see where businesses may struggle with that location. But there is an opportunity to put a store that right now has a tremendous draw into a region where we do see some decline. And those deviations are often necessary in order to do that. So I look at this and realize we have a tough spot, but I do think this is good for that particular area and I do feel good that at least the Novi Road traffic is cushioned from the location. And I would support this.

Member Lynch said very briefly, I am familiar with this area. I did own a residential property at the Enclave, which is over there by the mall. And you're right, at Christmas time, traffic is bad with or without the restaurant. There are better ways to avoid the traffic – once you live there, you know to go out the back way. But what's worse than that is having a decaying site, which is what we have now. We have a restaurant, two restaurants, that went out of business. I don't like seeing that either, I think that's worse. Right now, my understanding of the district is drive-throughs are in fact permitted. I like what you did, I know it's a tough site. I think you did a great engineering job with that tough site.

I agree with Member Anthony that Chick-Fil-A is going to be a draw, and not only good for Chick-Fil-A but I think it's going to be good for the mall – when you're there, you go to the mall, you go to Chick-Fil-A. I think it's a good thing for Novi. I don't see the traffic problems, and I'm not too concerned about a few parking space issues with the drive-through. I am very familiar with that specific area, it's where I used to drive in to get to my property. I think it's a good addition, I think you did the best you could with the site. I think the PD-2 Option gives the City a little more say in final approval. So I think that's a good thing. So overall, with that particular site, I think you did an amazing job. I did read through the packet and thank you very much for working with Staff. I am totally in support of this, I think it's going to be good for Novi. I think that Christmas is going to be Christmas, but the other 360 days of the year we have a more even flow. I don't think there are going to be as bad of traffic and parking issues as some may think. If you take Christmas on its own, that whole week there – yeah there is traffic and parking issues everywhere. But if you look

at the entire year, I think it's going to be an overall benefit to the City and I appreciate you coming to Novi and I appreciate the work that you did.

Member Hornung said can we put the circulation map on the board? So from what I've seen by studying this packet is that I do see some severe concerns about this particular circulation. Everybody is coming in either through this route at the top and turning in, which I think is typical for northbound traffic. And some folks might come in this way. Now based on what was said earlier, 100 percent of the vehicles leaving the site will leave through here, is that correct?

Ms. Selle said no, just 100 percent of the drive-through traffic will leave that way.

Member Hornung said ok, drive-through traffic will be forced to go only this way. The parked traffic can make a choice.

Ms. Selle said they still have the option, yes.

Member Hornung said ok. At the current La-Z-Boy location, this area right here is the loading dock for that store. And right here, there are two speed bumps in this space. My question for Staff is, is there anything that would prevent or allow La-Z-Boy to continue to have those for all of that exiting traffic?

Planner Komaragiri said can you please repeat the last part?

Member Hornung said so La-Z-Boy has two speed bumps in the way that all of the drivethrough egress traffic will be leaving the site. Would La-Z-Boy be able to maintain those or even add more if they thought that there was too much traffic going through their loading zone?

Planner Komaragiri said this seems like a good question for Josh Bocks, our Traffic consultant, to respond. I'm pretty sure those speed bumps were part of a traffic calming technique. If you don't mind, I'll defer to Josh.

Traffic Consultant Bocks said good evening. As far as speed bumps, I do not know that answer off the top of my head. That is something that I would have to look in to, I apologize. But it is possible that they could add more, I'm not 100 percent sure.

Member Hornung said and that drive, that space there that La-Z-Boy is using, is completely on their property and controlled by them? Is that true?

Traffic Consultant Bocks said I believe the roadway is part of the overall site. Their loading zone would have to allow a bypass lane by code anyways, just like the loading zone for Chick-Fil-A and other businesses are required to do.

Member Hornung so that bypass lane right now in this picture is showing two-way traffic. Is the design that traffic could come in through this route, if they so choose, and this is designed and planned for two-way traffic? And we're only required one bypass lane for this particular site?

Traffic Consultant Bocks said | believe so.

Member Hornung said I think one of the things that is going to be paramount in today's meeting is the idea of being good neighbors. And it will be incumbent upon this development ever succeeding that La-Z-Boy and Chick-Fil-A get along really well. Because if La-Z-Boy pulled up a big truck and blocked the way, there's really no other avenue for drive-through customers to leave and Chick-Fil-A doesn't have any recourse on that. So there's another problem that I've seen in this particular layout. When traffic leaves here, there's currently a blockage right here so that nobody can turn left. So this map is not correct and there is no way to actually do this at this time. So all traffic leaving the Chick-Fil-A must go down to here, and I think they can pull a U-turn over here but we're looking at approximately 1,100 cars per day on average based on the numbers that were supplied in our packet.

Chair Pehrson said can you show that again?

Member Hornung said so what's happened here, the mall has a curb here in this space.

Chair Pehrson said that stops short up to where that blue arrow is. I've seen it, I was there last night.

Member Hornung I respectfully must disagree because I stopped there on my way here today. My concern, whether it's there or not, is the amount of traffic that we're going to have flowing in an odd configuration. If Chick-Fil-A had an exit to Novi Road, it would plug up Novi Road but what it would not do is a strange U-turn situation going on back here, and a trip through somebody else's property. And based on that, I can't see that this is a good fit. One of the first things that the applicant said when they walked up to the microphone was this site is a bad fit – not those exact words, but that was the message I heard. And I fully agree, I think this site is a bad fit for the particular development. Thank you.

Member Avdoulos said, I was looking at slide 10 in our packet and looking at zooming in on where that boulevard ended. As of now, I don't see an issue, so we could verify that. To the applicants, I've got a couple questions. There's a 22 car stack and then there's 68 spaces?

Mr. Hill said that's correct.

Member Avdoulos said would there ever be a situation where you have all spaces full and the whole thing stacked at the same time?

Mr. Hill said I don't want to say it's impossible, but the frequency with which that would happen would be fairly minimal.

Member Avdoulos said ok, and your hours of operation are still Monday through Saturday, closed on Sunday?

Mr. Hill said that's correct.

Member Avdoulos said so that's one of the things that we were discussing when we had the opportunity to meet with Chick-Fil-A when they were first presenting this project and they were walking through the site and we were looking at what was existing and what was being proposed, and the applicants have really worked towards making the site operate in its maximum efficiency. Chick-Fil-A is a national brand and they know how to look for business and know where to put their business. They've got their queuing and circulation I think down to a science. We're looking at canopies to help protect the cars going in and also their team members as they're going out to make the queuing a little easier. The emergency access, in working with the City and the Fire Department, talking with the mall, and making sure that everything is being addressed, I think that with the landscaping there were a lot of issues there.

So I think based on what has been presented, all the efforts that have been made, I think we're taking a site that is going to be difficult because of its geometry and configuration but I think the placement of the building, the way that we're looking at providing the drive-through, and understanding the queuing is all thought through. I have to say that nowadays, most restaurants that are being built or are already built are adding drive-throughs anyway. That's part of the method of doing business nowadays, everyone wants things quick. Mostly all of the Panera's that I know have started to add drive-throughs, Jimmy John's is doing the same thing. It's just part of our culture. So I think if we have corporations and companies that are trying to make it safer for us, that's all we can expect. I think it is a bonus for the City, I agree with the comments from Member Anthony and Member Lynch related to this as a PD-2 so that allows us to have some flexibility so that if it's rezoned, it's not a permanent rezoning and it's something that can be worked with in the future. So, saying that, I'd like to make a motion.

Motion made by Member Avdoulos and seconded by Member Lynch.

ROLL CALL VOTE TO RECOMMEND APPROVAL OF REZONING MOTION MADE BY MEMBER AVDOULOS AND SECONDED BY MEMBER LYNCH.

In the matter of the request of GPD Group for JSP 18-75 Chick-Fil-A, JSP 18-75 with Zoning Map Amendment 18.729, motion to recommend approval to City Council to rezone the subject property from Regional Commercial (RC) to Regional Commercial with a Planned Development 2 Option (PD-2) for the following reasons:

- 1. The recommendation includes the following ordinance deviations for consideration by the City Council:
 - i. Deviation to waive the required Rezoning Traffic study as a Traffic Impact Study is submitted that addresses the traffic impacts.
- 2. The rezoning request fulfills one of the Master Plan for Land Use objectives by fostering a favorable business climate.
- 3. The rezoning is a recommended land use that will be consistent with the surrounding zoning and existing developments.
- 4. The rezoning would increase development potential of the subject property.
- 5. The rezoning provides a redevelopment opportunity for a challenging site in a visible location along I-96/Novi Road corridor.
- 6. The rezoning will not have impact on public utilities.

Motion carried 4-1 (Hornung).

ROLL CALL VOTE TO RECOMMEND APPROVAL OF SPECIAL LAND USE MOTION MADE BY MEMBER AVDOULOS AND SECONDED BY MEMBER LYNCH.

In the matter of the request of GPD Group for JSP 18-75 Chick-Fil-A, motion to recommend approval to the City Council for Special Land Use based on and subject to the following:

- 1. The proposed use will not cause any detrimental impact on existing thoroughfares (based on Traffic review);
- 2. The proposed use will not cause any detrimental impact on the capabilities of public services and facilities (based on Engineering rezoning memo and the review);
- 3. The proposed use is compatible with the natural features and characteristics of the land (because there are no regulated natural features on site);
- 4. The proposed use is compatible with adjacent uses of land (because the proposed use is similar to an existing restaurant use with an addition of drive-through);
- 5. The proposed use is consistent with the goals, objectives, and recommendations of the City's Master Plan for Land Use (as it fulfills one of the Master Plan objectives to attract new businesses within City of Novi);
- 6. The proposed use will promote the use of land in a socially and economically desirable manner (as it fulfills one of the Master Plan objectives to attract new businesses within City of Novi);
- 7. The proposed use is (1) listed among the provision of uses requiring special land use review as set forth in the various zoning districts of this Ordinance, and (2) is in harmony with the purposes and conforms to the applicable site design regulations of the zoning district in which it is located.

This motion is made because the plan is otherwise in compliance with Article 3, Article 4, Article 5, and Article 6 of the Zoning Ordinance and all other applicable provisions of the Ordinance. *Motion carried 4-1 (Hornung)*.

ROLL CALL VOTE TO RECOMMEND APPROVAL OF PRELIMINARY SITE PLAN MOTION MADE BY MEMBER AVDOULOS AND SECONDED BY MEMBER LYNCH.

In the matter of the request of GPD Group for JSP 18-75 Chick-Fil-A, motion to recommend approval to the City Council for Preliminary Site Plan with a PD-2 Option based on and subject to the following:

- 1. Planning Commission findings that the standards of Section 3.31.4 of the Zoning Ordinance are adequately addressed, as identified in the Planning Review Letter;
- The applicant shall direct exiting traffic from the site to the eastern exit to Twelve Oaks Mall road with appropriate site signage, subject to review and approval by City's Traffic Consultant at the time of final site plan submittal;
- 3. The dumpster pick up times shall not conflict with peak hour traffic;
- 4. The recommendation includes the following ordinance deviations for consideration by the City Council:
 - i. Deviation from Sec. 5.2.12.C to allow reduction of minimum required parking spaces for fast food restaurants. A minimum of 100 are required, 65 are proposed;
 - Deviation from Section 3.31.7.B.v.a, the use conditions for fast food drive-through under PD-2 Option as listed under that requires a minimum distance of 1,000 feet between a proposed independently freestanding restaurant from any other such use on the same side of the street;
 - iii. Deviation from Section 5.3.11.D that requires a bypass lane, minimum of 18 feet width. The applicant is providing an 11 foot by pass lane when two drive-through lanes merge into one around the Northwest corner of the building;

- iv. Deviation from Section 3.31.7.D for not meeting the minimum building setback requirements for exterior side yard along I-96 (south west frontage). A minimum of 50 feet is required, 32 feet is proposed;
- v. Deviation from Section 3.31.7.D for not meeting the minimum parking setback requirements for Exterior side yard along Twelve Oaks Mall Road (North). A minimum of 20 feet is required, 14.5 feet is proposed;
- vi. Deviation from Section 3.31.7.D for not meeting the minimum parking setback requirements for Exterior side yard along I-96 (Southwest). A minimum of 20 feet is required, 9.3 feet is proposed;
- vii. Deviation from Section 3.31.7.D for not meeting the minimum parking setback requirements for rear yard (east). A minimum of 20 feet is required, 6 feet is proposed;
- viii. Deviation from Section 5.4.1 for reduction of minimum required loading area. A minimum of 2,110 square feet is required and 360 square feet is proposed;
- ix. Deviation from Section 4.19.2.F for allowing a dumpster in the exterior side yard instead of required rear yard.
- x. Deviation from Section 4.19.2.F for allowing a dumpster in the parking setback. A minimum of 20 feet is required and 12.1 feet is provided.
- xi. Landscape deviation from Section 5.5.3.B.ii and iii for insufficient greenbelt width along I-96 frontage.
- xii. Landscape deviation from Section 5.5.3.B.ii and iii for lack of berm or wall along entire frontage.
- xiii. Landscape deviation from Section 5.5.3.B.ii and iii for deficiency in greenbelt plantings (sub canopy trees).
- xiv. Landscape deviation from Section 5.5.3.C.(3) Chart footnote for deficiency in perimeter parking lot canopy trees. 24 deciduous canopy trees are required. 13 canopy trees and 6 sub canopy trees are proposed.
- xv. Landscape deviation from Section 5.5.3.C. for deficiency in interior parking lot trees. 12 trees required, 9 trees proposed.
- xvi. Landscape deviation Section 5.5.3.C. for missing endcap island trees.
- xvii. Landscape deviation from Section 5.5.3.D. for providing less than 60% landscape along the façade facing road.
- xviii. Landscape deviation from Section 5.5.3.D. for proposing some of the required building foundation landscaping away from the building. Supported by staff.
- 5. The findings of compliance with Ordinance standards in the staff and consultant review letters, and the conditions and items listed in those letters being addressed on the Final Site Plan.

This motion is made because the plan is otherwise in compliance with Article 3, Article 4, and Article 5 of the Zoning Ordinance and all other applicable provisions of the Ordinance. *Motion carried 4-1 (Hornung)*.

ROLL CALL VOTE TO RECOMMEND APPROVAL OF STORMWATER MANAGEMENT PLAN MOTION MADE BY MEMBER AVDOULOS AND MEMBER LYNCH.

In the matter of the request of GPD Group for JSP 18-75 Chick-Fil-A, motion to recommend approval to the City Council for Storm water Management Plan based on and subject to the findings of compliance with Ordinance standards in the staff and consultant review letters, and the conditions and items listed in those letters being addressed on the Final Site Plan. This motion is made because it otherwise in compliance with Chapter 11 of the

APPLICANTS RESPONSE LETTER (For plan review comments)



520 South Main Street, Suite 2531 Akron, Ohio 44311 Phone 330.572.2100 www.gpdgroup.com

> April 1, 2019 2018223.19

City of Novi, Michigan Sri Ravali Komaragiri Planner 45175 Ten Mile Road Novi, Michigan 48375

RE: Chick-Fil-A Review Response Letter 27750 Novi Road Novi, MI

Dear Mr. Komaragiri,

GPD is in receipt of the response letter dated March 6, 2019 for the above-referenced project. We are addressing each comment as follows:

1. PLANNING REVIEW COMMENTS:

- a. Zoning and Use Requirements that don't meet code
 - MASTER PLAN: The application for rezoning shall be completed in accordance with the City's Site Plan and Development Manual. This would require Master Planning and Zoning Committee's input prior to Planning Commission's recommendation. *Response: Noted.*
 - ii. USES PERMITTED: Meets code, but is subject to City Council approval upon Planning Commission's recommendation. It requires a Special land use with a 15 day public hearing. *Response: Noted.*
 - WRITTEN STATEMENT (Site Development Manual): Provide the statement with the next submittal.
 Response: The written statement will be updated to note the wavier requested and circulation information.
 - iv. SIGN LOCATION PLAN: Provide the proposed wording and font size for the sign. Refer to page 23 of site plan manual.
 Response: Information was submitted by email, approved and the signs to be erected by 4/1/19.
 - REZONING TRAFFIC IMPACT STUDY: A Rezoning Traffic study is waived as other related Traffic studies were submitted.
 Response: Noted.
 - vi. COMMUNITY IMPACT STATEMENT: Hours of operation expected annual police and fire responses. **Response: Noted.**

b. Planned Development Site Plan Submittal Requirements that don't meet code:

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- i. SPECIAL LAND USE & COMMUNITY IMPACT STATEMENT: Both meet code, but this would require a 15 day public hearing notice. **Response: Noted.**
- ii. TRAFFIC STUDY: A Rezoning Traffic study is waived as other related Traffic studies were submitted.
 Response: Noted.
- c. Use Conditions for Allowable uses under PD-2 Option that don't meet code:
 - i. FAST FOOD DRIVE-THRU: This is considered a deviation from the ordinance requirements. The existing use is also restaurant. **Response: Please see the included list with waiver requests.**
 - ii. TRAFFIC CIRCULATION: Meets code, but refer to Traffic review for additional comments.
 Response: Noted.
- d. Drive-through Lanes that don't meet code:
 - i. DRIVE-THROUGH LANES SEPARATION: Meets code, but refer to Traffic Review for further comments. **Response: Noted.**
 - BYPASS LANE FOR DRIVE-THROUGH: This is considered a deviation from the ordinance requirements. Refer to Fire and Traffic comments.
 Becompose: Blazza see the included list with waiver requests.
 - Response: Please see the included list with waiver requests.
 - iii. DRIVE-THRU STACKING SPACES: Meets code, but overflow queuing may conflict with parking spaces. Traffic recommends considering allocating those spaces as planned employee parking.
 Response: The site plan was adjusted to allocate the parking in question for employees.
- e. Building Setbacks that don't meet code:
 - i. EXTERIOR SIDE YARD @ I-96 (southwest): Meets code, but this is considered a deviation from the ordinance requirements, subject to City Council approval.

Response: A large area of green space existing at the corner of the site at the intersection of I-96 and Novi Road. This area pinches down the site and makes the building placement difficult to accommodate an isolated drive-through from the parking lot. Please see the included list with waiver requests.

- f. Parking Setbacks that don't meet code:
 - i. EXTERIOR SIDE YARD @ Twelve Oaks Mall Road (North), (Southwest), @ I-96 (South), Rear (East): this is considered a

deviation from the ordinance requirements, subject to City Council approval.

Response: In order to provide a well parked, well circulated and well positioned building CFA must maximize the buildable area on the site while focusing on an isolated drive-through positioning such that dine in customers do not need to cross drive-through traffic to get into the building. The parking along the rear of the site was able to provide a larger setback than initially submitted based on plan revisions including reduction in drive aisles and accommodating car overhangs. The setbacks along the frontage and exterior side yards generally meet the existing site setbacks but are slightly improved from existing conditions. Adhering strictly to the code would also severely limit the number of proposed parking spaces provided when drive-through stacking is also taken into account. Please see the included list with waiver requests.

- g. Note To District Standards for RC district that don't meet code:
 - EXTERIOR SIDE YARD ABUTTING A STREET: Does not comply, see proposed sets backs in the previous section.
 Response: Noted, see above.
 - PARKING SETBACK SCREENING: Meets code, but please refer to Landscape Review for additional information *Response: Noted.*
- h. Parking, Loading and Dumpster Requirements that don't meet code:
 - i. NUMBER OF PARKING SPACES: This is considered a deviation from the ordinance requirements. Based on parking study provided, it appears that a shared parking agreement with Lazyboy parking lot is warranted.

Response: Noted, the following will be added to the written statement. Prior to receiving staff comments, Chick-Fil-A realized the statistics of the parking lot. Knowing at peak times it could be full, Chick-Fil-A reached out to the La-Z-Boy property owner to request cross parking and was denied.

To be sure the parking would be sufficient, the local sites were studied for the volume of vehicles on and off peak times. Based on the performance of the similar locations, the proposed parking will be sufficient. Based on the feedback of the meeting on 3/13 and these comments, the site plan has been evaluated for ways to maximize parking. The angled parking along the north side of the property are now perpendicular to Twelve Oaks Mall Road, and gained 3 additional spaces, bringing to total count up to 68. This number exceeds the average of all three sites evaluated at
the 95th percentile (66 parking stalls) and average (56 parking stalls).

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Further supporting information can be provided presenting additional Chick-Fil-A locations in the area are similar in building size and available parking stalls.

Please see the included list with waiver requests.

- ii. END ISLANDS: Check Traffic Review to confirm end islands meet code requirements.
 Response: Noted, see landscape comments.
- iii. MINIMUM NUMBER OF BICYCLE PARKING: Meets code, but indicate number of bike spaces under parking data. Response: Noted, plans will be revised.
- iv. LOADING SPACES: The applicant has provided truck turning diagrams for a dumpster truck, fire truck and the largest loading truck that accesses the site. Staff can support this deviation provided the loading and unloading times does not conflict with peak hour traffic.

Response: The loading zone is sized to meet the day time deliveries and maximize landscape area. Any deliveries larger vehicles will be during non-peak hours. Please see the included list with waiver requests.

v. DUMPSTER: A deviation for location and not meeting the minimum setback requirements is required. Staff can support this deviation provided the dumpster pick up times does not conflict with peak hour traffic.

Response: Trash pick up will not occur during peak hours. Please see the included list with waiver requests.

- vi. DUMPSTER ENCLOSURE: Meets code, but refer to Façade review for more details.
 Response: Noted.
- vii. ACCESSORY STRUCTURES: There is a transformer indicated in the legend, but we are unable to find it on the plan. Please indicate the location, height and required screening to verify conformance.
 Response: The transformer is noted on the Site and Landscape plan. Height to be determined by the electric company.
- viii. EXTERIOR LIGHTING: Meets code, but Refer to more comments about lighting on from Page 11. *Response: Noted.*

- ix. ROOF TOP EQUIPMENT AND WALL MOUNTED UTILITY EQUIPMENT: Refer to Façade review for more details. **Response: Noted.**
- Ib Other Requirements that don't meet code:
 - i. GENERAL LAYOUT AND DIMENSION OF PROPOSED PHYSICAL IMPROVEMENTS: Refer to all review for additional information requested.

Response: Noted.

j. Lighting and Photometric Plans that don't meet code:

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- SECURITY LIGHTING: Please indicate hours of operation and the lights which will be turned off after hours for security purposes.
 Response: Hours of operation will be provided. Correct, lights will be turned off after hours.
- ii. BUILDING LIGHTING: Provide photometrics on building. **Response: Building photometrics will be provided.**
- MAXIMUM HEIGHT: Meets code, but note says unless otherwise determined for height. Please confirm the height.
 Response: Noted, the height will be added.

2. ENGINEERING REVIEW COMMENTS:

a. GENERAL:

- Provide a minimum of two ties to established section or quarter section corners.
 Response: Ties will be added to an updated survey.
- Revise the plan set to reference at least one City established benchmark. An interactive map of the City's established survey benchmarks can be found under the 'Map Gallery' tab on www.cityofnovi.org. (The two closest benchmarks are 1522 and NOVI 8 according to the map.)
 Response: City established benchmark is added on sheets (# 1522)
- iii. Provide a note on the plans that all work shall conform to the current City of Novi standards and specifications.
 Response: Noted and plans revised.
- iv. Provide the City's standard detail sheets for water main (5 sheets-rev.02/16/2018), sanitary sewer (3 sheets-rev. 02/16/2018), storm sewer (2 sheetsrev.02/16/2018), and paving (2 sheets-rev. 03/05/2018) at the time of the printed Stamping Set submittal. These details can be found on the City's website at this location: http://cityofnovi.org/Government/City-Services/Public-Services/Engineering-Division/Engineering-Standards-and-Construction-Details.aspx

Response: City standard details for watermain, sanitary, storm and paving are used.

- v. An updated Non-domestic User Survey form shall be submitted to the City so it can be forwarded to Oakland County.
 Response: Non-domestic User Survey will be submitted so it can be forwarded.
- vi. Provide a traffic control sign table listing the quantities of each sign type proposed for the development. Provide a note along with the table stating all traffic signage will comply with the current MMUTCD standards.
 - 1. Traffic signs in the RCOC right-of-way will be installed by RCOC.

Response: Traffic control table and note is added to sheet C-200.

vii. Provide a note that compacted sand backfill (MDOT sand class 2) shall be provided for all utilities within the influence of paved areas, and illustrate on the profiles.

Response: Watermain, sanitary and storm profiles are added with MDOT sand class II backfill note for paved areas.

- viii. Provide a construction materials table on a Utility Plan listing the quantity and material type for each utility (water, sanitary and storm) being proposed.
 Response: Construction material table added to utility sheet (PS-100).
- ix. Provide a utility crossing table indicating that at least 18-inch vertical clearance will be provided, or that additional bedding measures will be utilized at points of conflict where adequate clearance cannot be maintained.
 Response: Utility conflict tags are shown on utility sheet (PS-100).
- x. Provide a note stating if dewatering is anticipated or encountered during construction a dewatering plan must be submitted to the Engineering Division for review.
 Response: Dewatering note is added to sheet C-300.
- xi. Show the locations of all light poles and label them on the utility plan.

Response: Light pole location are shown and labelled on sheet utility sheet (PS-100).

- b. WATER MAIN:
 - i. Provide a profile for all proposed water main 8-inch and larger. **Response: Watermain profile is added.**

- ii. Provide a separate domestic lead and 6-inch fire lead for the building with a unique shut-off valve for each. Shut off valves must be located at the main within water main easement.
 Response: Separate domestic lead is present, a shut-off-valve is added on utility sheet (PS-100).
- iii. Thrust blocks are general not allowed as method of restraint, unless found necessary.

Response: Thrust blocks are not used on this project.

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- iv. Relocation of the water main as shown will require coordination with impacted adjacent City water connections. Contact the Engineering department for further coordination.
 Response: City will provide details later if contractor needs to contact them at the time of relocating watermain.
- v. Three (3) sealed sets of revised utility plans along with the MDEQ permit application (06/12 rev.) for water main construction and the Streamlined Water Main Permit Checklist should be submitted to the Engineering Division for review, assuming no further design changes are anticipated. Utility plan sets shall include **only** the cover sheet, any applicable utility sheets, and the standard detail sheets. *Response: Noted. The necessary items will be submitted.*
- c. SANITARY SEWER:

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- Provide a sanitary sewer basis of design for the development on the utility plan sheet. The City's Sewer Unit Factor Chart is attached.
 Response: Sanitary sewer basis of design calculations are added on utility sheet (PS-100).
- Note on the construction materials table that 6-inch sanitary leads shall be a minimum SDR 23.5, and mains shall be SDR 26.
 Response: Sanitary lead specifications added to the construction material table.
- iii. Provide a note on the Utility Plan that sanitary leads will be buried at least 5 feet deep where under the influence of pavement.
 Response: Note added to utility sheet (PS-100).
- iv. Illustrate all pipes intersecting with manholes on the sanitary profiles.
 Response: Sanitary profile with all intersecting pipes are added.

- d. STORM SEWER:
 - Label all inlet storm structures on the profiles. Inlets are only permitted in paved areas and when followed by a catch basin within 50 feet.

Response: Storm sewer profiles with all labelling is added. Inlets are not used in this project.

- ii. Label the 10-year HGL on the storm sewer profiles, and ensure the HGL remains at least 1-foot below the rim of each structure.
 Response: 10 year HGL line shown on storm profile with HGL line at least 1-foot below structure rim elevations.
- iii. Illustrate all pipes intersecting storm structures on the storm profiles.

Response: Storm profiles with all intersecting pipes are added.

 Provide a schedule listing the casting type and other relevant information for each proposed storm structure on the utility plan. Round castings shall be provided on all catch basins except curb inlet structures.

Response: All storm structure casting pipe is added to the utility sheet (PS-100).

- e STORM WATER MANAGEMENT PLAN
 - The Storm Water Management Plan for this development shall be designed in accordance with the Storm Water Ordinance and Chapter 5 of the new Engineering Design Manual.
 Response: Storm Water Management Plan in accordance with Response: Storm Water Management Plan in accordance with

Storm Water Ordinance and Chapter 5 of the new Engineering Design Manual is added.

- ii. On a sheet or sheets titled "Storm Water Management Plan" (SWMP), provide supporting calculations for the runoff coefficient determination in each drainage area. Include a map showing how the parcel was divided up into individual drainage areas.
 Response: Drainage area map with discharge calculations and relevant runoff coefficients is added.
- iii. A runoff coefficient of 0.35 shall be used for all turf grass lawns (mowed lawns) and 0.95 for pavement and roofs.
 Response: Above mentioned runoff coefficients are used in runoff calculations.
- iv. Provide a 20-foot wide access easement for maintenance over the pretreatment structure.
 Response: Most part of pretreatment unit is in existing 20 feet storm drainage easement. Additional 20 feet storm easement is added for the part of pretreatment unit sticking

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out of existing easement. Access to this unit for maintenance purposes will be from existing 30 feet roadway easement.

f. PAVING & GRADING

- i. Detectable warning plates are required at all barrier free ramps, hazardous vehicular crossings and other areas where the sidewalk is flush with the adjacent drive or parking pavement. The barrier-free ramps shall comply with current MDOT specifications for ADA Sidewalk Ramps. Provide the latest version of the MDOT standard detail for detectable surfaces. **Response: MDOT ADA ramp detail is added.**
- ii. Provide a note on the Grading Plan stating that the proposed pathway within the road right-of-way shall match existing grades at both ends. Proposed sidewalk should terminate where it provides connectivity to the site, rather than including a stub to the south. *Response: Note added to grading plan (sheet C-300)*
- iii. 6-inch curb height must be provided at all drive aisles and 19-foot parking spaces. Revise grading accordingly.
 Response: Grading is revised to have 6 inch curb at all drive aisles and 19 for parking spaces.
- iv. The transition from 4-inch to 6-inch curb should occur along the length of 17-foot parking space. Revise notes and grading accordingly.
 Response: Curb taper detail is added and referenced it on site plan (sheet C-200).
- v. Provide at least 3-foot of buffer distance between the sidewalk and any fixed objects, including hydrants. Include a note on the plan where the 3-foot separation cannot be provided.
 Response: 3 feet separation is maintained between sidewalk and other fixed objects.
- vi. The City standard straight-faced curb (MDOT F-4 curb detail) shall be provided. Revise details accordingly. **Response: City standard curb detail is added.**
- vii. Provide a line designation representing the effective 19-foot stall length for 17-foot perimeter stalls.
 Response: Line designation representing effective 19 foot stall is added and is referenced with a keynote on site plan (sheet C-200).
- viii. Provide City Standard Paving Details and remove any conflicting information.
 Response: City standard paving details are added and all conflicting details are removed.

- ix. The end islands shall conform to the City standard island design, or variations of the standard design, while still conforming to the standards given in Section 2506 of Appendix A of the Zoning ordinance (i.e. 2' minor radius, 15' major radius, minimum 8' wide, 3' shorter than adjacent 19' stall).
 Response: A waiver has been requested. See attached.
- Revise plans to ensure all end islands are 3 feet shorter than adjacent parking spaces.
 Response: See above.
- g. SOIL EROSION AND SEDIMENT CONTROL:

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 A SESC permit is required. A full review has not been completed at this time. The review checklist detailing all SESC requirements is attached to this letter. Please address the comments below and submit a SESC permit application under separate cover. The application can be found on the City's website at http://cityofnovi.org/Reference/Forms-and-Permits.aspx.
 Response: Noted, SESC permit will be submitted.

h. OFF-SITE EASEMENTS:

- i. Any off-site utility easements anticipated must be executed prior to final approval of the plans. If you have not already done so, drafts of the easements and a recent title search shall be submitted to the Community Development Department as soon as possible for review, and shall be approved by the Engineering Division and the City Attorney prior to executing the easements. *Response: Noted.*
- REVISED FINAL SITE PLAN SUBMITTAL:
 - i. A letter from either the applicant or the applicant's engineer must be submitted with the revised Final Site Plan highlighting the changes made to the plans addressing each of the comments listed above and indicating the revised sheets involved. Additionally, a statement must be provided stating that all changes to the plan have been discussed in the applicant's response letter.

Response: Noted.

ii. An itemized construction cost estimate must be submitted to the Community Development Department for the determination of plan review and construction inspection fees. This estimate should only include the civil site work and not any costs associated with construction of the building or any demolition work. The estimate must be itemized for each utility (water, sanitary, storm sewer), onsite paving (square yardage), right-of-way paving (including proposed right-of-way), grading, and the storm water basin (basin construction, control structure, pre-treatment structure and restoration).

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Response: Noted, this was provided in the preliminary site plan review package.

j. STAMPING SET SUBMITTAL:

(Please note that all documents must be submitted together as a package with the Stamping Set submittal with a legal review transmittal form that can be found on the City's website. Partial submittals will not be accepted.)

i. A draft copy of the Storm Drainage Facility Maintenance Easement Agreement (SDFMEA), as outlined in the Storm Water Management Ordinance, must be submitted to the Community Development Department. Once the agreement is approved by the City's Legal Counsel, this agreement will then be sent to City Council for approval/acceptance. The SDFMEA will then be recorded at the office of the Oakland County Register of Deeds. This document is available on our website.

Response: Noted.

 A draft copy of the 20-foot wide easement for the water main to be constructed onsite must be submitted to the Community Development Department. This document is available on our website.

Response: Noted.

 iii. A draft copy of the 20-foot wide easement for the sanitary sewer and monitoring manhole to be constructed onsite must be submitted to the Community Development Department. This document is available on our website.
 Response: Noted.

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3. LANDSCAPE REVIEW COMMENTS:

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- a. LANDSCAPE WAIVERS REQUIRED FOR CURRENT LOCATION:
 - i. Insufficient greenbelt width along I-96 frontage. *Supported by staff. Response: Noted. Waiver is supported by staff as there is sufficient room in right-of-way separating site and exit ramp. Please see the included list with waiver requests.*

ii. Lack of berm or wall along entire frontage. Not supported by staff. Response: Due to stringent grading conditions, existing utility mains and the monument sign placement, we have omitted the berm or wall from the plan. In place of the berm or well along Novi Road, a sold shrub hedge has been incorporated into the plan along all road frontage. This species chosen for the hedge will reach 4' in height. The building is proposed 1'-4" lower than roadway, which creates a natural berm for the shrub row to sit on top.

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The southern side of the side is adjacent to I-96 and existing features already have a berm in place, again placing the site lower 3' lower than the roadway.

At the corner southwest corner of the lot, a windscreen will be placed. This is an 8' tall ornamental fence with evergreen trees between the roadway and fence.

Please see the included list with waiver requests.

iii. Deficiency in greenbelt plantings (subcanopy trees). Not supported by staff.
 Response: Waiver not required, requirements satisfied and

pending approval by the Mr. Rick Meader.

- iv. Deficiency in perimeter parking lot canopy trees. Not supported by staff.
 Response: Waiver not required, requirements satisfied and pending approval by the Mr. Rick Meader.
- v. Deficiency in interior parking lot trees. *Not supported by staff.* **Response: Waiver not required, requirements satisfied and pending approval by the Mr. Rick Meader.**
- vi. Missing endcap island trees. Not supported by staff. Response: Endcap island trees have been maximized, but due to utility conflicts 3 endcaps islands are unable to be landscaped with trees. These areas is proposed to have shrubs. Overall deficiency of 3 endcap trees. Revisions are pending approval by the Mr. Rick Meader. Please see the included list with waiver requests.
- vii. Less than 60% of building facing road is landscaped. *Supported by staff.*

Response: Orientation of the proposed building, along with CFA standards to account for customer/employee meal deliveries and interactions along the drive-through do not allow for required 60%. This percentage has been maximized

April 1, 2019

at 55%. Revisions are pending approval by the Mr. Rick Meader. Please see the included list with waiver requests.

viii. Most of building foundation landscaping area is not at building. Supported by staff.

Response: As noted in the comments, the building foundation landscaping is located in the general facility of the landscaping. It should also be noted the provided square footage exceeds the required. Please see the included list with waiver requests.

Ordinance Considerations: All bolded considerations are repeated in the review summary chart and addressed in such order.

- a. Landscape Plan Requirements:
 - ix. SEALED BY LA.: Need original for Final Site Plan. Response: Noted, original signatures will be provided.
 - X. ZONING: Please show zoning of adjacent parcels on landscape plan.
 Response: Adjacent parcel zoning has been added to sheet L-101.
 - xi. EXISTING PLANT MATERIAL EXISTING WOODLANDS OR WETLANDS: Meets code, Please identify existing trees south of site as canopy, ornamental or evergreen if species can't be determined. (On Google Maps, it appears to be a mix of evergreens and ornamentals).

Response: Trees have been labeled on sheet L-100.

xii. EXISTING AND PROPOSED UTILITIES:

1) Please clearly show all existing and proposed utility lines and structures on landscape plan (Sheet L-101) so tree/utility conflicts can be detected and resolved.

2) Please adjust the utility layouts (eastern bay endcaps, east of building endcap) to allow required trees to be planted.

Response: Utilities are shown. 2 endcap trees are unable to be proposed due to utilities inability to be modified. Revisions are pending approval by the Mr. Rick Meader. Please see the included list with waiver requests.

- b. Landscaping Requirements: General
 - xiii. PARKING LOT ISLANDS:

and the second reaction of the

 For the central island, calculate the area of the western and southern "lobes" separate from the rest of the island as they are nearly completely separate from the rest of the island so many roots wouldn't be able access the interior. There should be a tree in both of those lobes. They probably have to be increased in width and/or area and to provide the proper spacing from the hydrant in the southern lobe.

Response: Separate lobe SF's have been called out on sheet L-100. Revisions are pending approval by the Mr. Rick Meader.

- Please increase width and/or area of all islands as necessary to meet requirements by modifying the parking lot layout.
 Response: Landscape island widths have been maximized for design on space. Revisions are pending approval by the Mr. Rick Meader. Please see the included list with waiver requests.
- All endcap islands need to have deciduous canopy trees in them and be 200sf, and 10 feet wide.
 Response: Acknowledged. Revisions are pending approval by the Mr. Rick Meader. Please see the included list with waiver requests.
- 4. Landscape waivers are required for all required area and interior trees that are not provided. *They are not supported by staff.*

Response: Noted. Revisions are pending approval by the Mr. Rick Meader. 10 trees proposed, 12 are required. Utility conflicts are unable to be modified to allow for tree plantings. Please see the included list with waiver requests.

- xiv. PLANTINGS AROUND FIRE HYDRANT: meets code, but:
 - The internal endcap island with the hydrant should have a tree planted in it, at least 10 feet from the hydrant. As noted above, a landscape waiver is required to not provide required endcap trees. It would not be supported by staff.
 Response: A 10' radii around proposed fire hydrant would locate a proposed tree outside the endcap island. There is already a tree proposed in the payt island to

There is already a tree proposed in the next island to the north (as well as a light pole). Revisions are pending approval by the Mr. Rick Meader. Please see the included list with waiver requests.

- c. All Categories
 - i. C = A+B TOTAL SQUARE FOOTAGE OF LANDSCAPED ISLANDS:
 - 1. Please label 2 "lobes" of central island with minimal connection to the main island with their area in SF, ending at their necks.

Response: Island lobes have been re-labeled on sheet L-100. Revisions are pending approval by the Mr. Rick Meader. Please provide areas that qualify per minimum (200sf per tree, 10 ft wide) for all trees counting toward the requirement.

Response: Acknowledged. Revisions are pending approval by the Mr. Rick Meader.

- 3. A landscape waiver is requested for the site's interior area shortage. The waiver request is not supported by staff. **Response: Revisions are pending approval by the Mr. Rick Meader. 10 trees proposed, 12 are required. Utility conflicts are unable to be modified to allow for tree plantings. Please see the included list with waiver requests.**
- ii. D = C/200 NUMBER OF CANOPY TREES REQUIRED:
 - Please add all required trees in interior islands and endcap islands that meet spatial requirements.
 Response: See above.
 - A landscape waiver is requested for the site's interior trees shortage. The waiver request is not supported by staff. *Response: See above.*
- iii. PERIMETER GREEN SPACE:
 - All perimeter trees should be canopy trees with a minimum mature height of 30 feet and canopy of 20 feet. Please replace the crabapples along the east side with canopy trees.
 Response: Crabapples have been replaced with larger canopy trees, on sheet L-101. Revisions are pending approval by the Mr. Rick Meader.
 - A landscape waiver is necessary for any required trees that can't be planted. This waiver is not supported by staff.
 Response: Waiver is not needed, plans have been revised. Revisions are pending approval by the Mr. Rick Meader.
 - There is no perimeter landscape area requirement so that hatching can be removed.
 Response: Acknowledged. Revisions are pending approval by the Mr. Rick Meader.
- d. Berms, Walls and ROW Planting Requirements that don't meet code: xv. BERM REQUIREMENTS – Adjacent to the Public ROW:
 - A landscape waiver is requested to not provide the required berm or wall. The justification for not providing the berm is that there is not sufficient room for it.
 Response: See response below.

2. Please provide justification for why the wall cannot be provided. In the letter it states that the berm and wall can't be provided due to existing utility mains and grading conditions. It is not clear that these prevent the installation of the wall. Please further demonstrate that the wall can't be built. At this time, the waiver request is not supported by staff.

Response: Due to stringent grading conditions, existing utility mains and the monument sign placement, we have omitted the berm or wall from the plan. In place of the berm or well along Novi Road, a sold shrub hedge has been incorporated into the plan along all road frontage. This species chosen for the hedge will reach 4' in height. The building is proposed 1'-4" lower than roadway, which creates a natural berm for the shrub row to sit on top.

The southern side of the side is adjacent to I-96 and existing features already have a berm in place, again placing the site lower 3' lower than the roadway.

At the corner southwest corner of the lot, a windscreen will be placed. This is an 8' tall ornamental fence with evergreen trees between the roadway and fence.

Revisions are pending approval by the Mr. Rick Meader. Please see the included list with waiver requests.

- 3. If only a hedge is proposed, it must provide 80% opacity in the winter and 90% opacity in the summer. Response: Hedge has been revised to include more evergreen species, which increases opacity. Revisions are pending approval by the Mr. Rick Meader.
- xvi. GREENBELT WIDTH: I-96 does not meet code:

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- 1. A landscape waiver is required for the lack of greenbelt depth facing I-96. This waiver request is supported by staff as there is a lot of room in the right-of-way before the I-96 exit ramp. It does leave much less room for the required greenbelt landscaping, however. Response: Waiver is supported by staff as there is sufficient room in right-of-way separating site and exit ramp. Please see the included list with waiver requests.
- xvii. MIN. BERM CREST WIDTH: A landscape waiver is requested for the lack of berm. As a wall is also not proposed, this waiver request is not supported by staff.

Response: See response above regarding berm/wall.

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xviii。 CANOPY DECIDUOUS OR LARGE EVERGREEN TREES NOTES:

1. It appears that there is an access easement for Novi Road that extends into the property, occupying most of the greenbelt.

Response: Acknowledged.

- Please contact the Road Commission for Oakland County for a decision by them on whether the required greenbelt plantings can be planted as proposed.
 Response: Acknowledged. Submission has been made to the Oakland County Road Commission without a response to date.
- If they can't, please provide a copy of their letter or email with that decision.
 Response: Acknowledged.
- If the required plantings can't be planted per the RCOC, a landscape waiver will be required but it would be supported by staff.

Response: Acknowledged.

- xix. SUB-CANOPY DECIDUOUS TREES NOTES:
 - 1. Please provide all of the required trees. **Response: Subcanopy trees have been added to plan, see sheet L-101. Revisions are pending approval by the Mr. Rick Meader.**
 - A landscape waiver is necessary if all required trees are not provided. It would not be supported by staff.
 Response: See above.
- xx. CANOPY DECIDUOUS TREES IN AREA BETWEEN SIDEWALK AND CURB: Meets code, but If the Road Commission for Oakland County does not allow some or all of the street trees they do not have to be planted but a copy of the RCOC decision must be provided to the city.

Response: Acknowledged.

- e. Non-Residential Zoning Sec 5.5.3.E.iii & LDM 1.d that don't meet code:
 - xxi. TRANSFORMERS/UTILITY BOXES: Please screen the box per the city standard detail.

Response: Proposed transformer has been screened with site constraints. Revisions are pending approval by the Mr. Rick Meader.

f. Building Foundation Landscape Requirements (Sec 5.5.3.D) that don't meet code:

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xxii. INTERIOR SITE LANDSCAPING SF: does and does not meet code landscape waiver is required for the area not provided at the building. As the extra landscaping adds extra appeal to the site, this waiver is supported by staff.

Response: Waiver is not needed, plans have been revised. Revisions are pending approval by the Mr. Rick Meader.

- xxiii. ZONING SEC 5.5.3.D.II. ALL ITEMS FROM (B) TO (E): A landscape waiver is required for deficiency in coverage. As the hedge (or wall) along the drive-thru will also shield the foundation from the roads, this waiver is supported by staff. Response: Noted, see previous responses.
- g. Detention/Retention Basin Requirements that don't meet code:
 - xxiv. PLANTING REQUIREMENTS: If any above-ground detention basin is required it needs to be landscaped per the ordinance. **Response: Acknowledged.**
- h. Landscaping Notes, Details and General Requirements that don't meet code xxv. INSTALLATION DATE: Please add note

Response: Plans have been revised. Revisions are pending approval by the Mr. Rick Meader.

- XXVI. MAINTENANCE & STATEMENT OF INTENT: Please add note regarding cultivation
 Response: Note for 2 year warranty has been revised on sheet L-103. Revisions are pending approval by the Mr. Rick Meader.
- xxvii. PLANT SOURCE: Please add note Response: Note is on sheet L-103. Revisions are pending approval by the Mr. Rick Meader.
- xxviii, IRRIGATION PLAN:
 - 1. Please add irrigation plan or information as to how plants will be watered sufficiently for establishment and long- term survival.

Response: Irrigation plan provided, see sheet L-200.

- If xeriscaping is used, please provide information about plantings included.
 Response: Acknowledged.
- xxix. APPROVAL OF SUBSTITUTIONS: Please add note **Response: Note is on sheet L-101 and L-200.**

- Plant List (include all cost estimates) that don't meet code: xxx. BOTANICAL AND COMMON NAMES: Meets code, but:
 - Currently, 7 of 19 species used (37%) are native to Michigan. Please increase that number to at least 50% of the species used. (www.michiganflora.net is good source to determine if a tree is native to Michigan).
 Response: Tree species have been updated, 50% are native to Michigan. See sheet L-101. Revisions are pending approval by the Mr. Rick Meader.
 - Please replace the Bowhall Maple with a tree that has a minimum mature height of at least 30 feet and mature width of at least 20 feet.
 Response: Bowhall has been replaced, see sheet L-101. Revisions are pending approval by the Mr. Rick Meader.
 - Please be sure all species used are hardy in our growth zone, and are salt tolerant where necessary.
 Response: All species have been obtained from the City of Novi Landscape Design Manual. Revisions are pending approval by the Mr. Rick Meader.
 - xxxi. COST ESTIMATE: Please use \$15 ea. as standard cost per perennial and \$6/sy as standard cost for sod. *Response: Acknowledged.*
- j. Planting Details that don't meet code:
 - xxxii. TREE PROTECTION FENCING: Meets code, but Please revise detail and notes to indicate fence should be at 12" beyond dripline. Response: Tree protection fencing has been removed from plan due to no longer keeping any existing trees within the property. Revisions are pending approval by the Mr. Rick Meader.
- k. Other Plan Material Requirements that don't meet code:
 - xxxiii. GENERAL CONDITIONS: Meets code, but please add note near property lines stating this (Plant materials shall not be planted within 4' of property line.).

Response: Note has been added to sheet L-101. Revisions are pending approval by the Mr. Rick Meader.

4. AECOM PRELIMINARY AND FINAL SITE PLAN COMMENTS:

Preliminary and final site plan: AECOM recommends preliminary plan approval and final plan denial for the applicant to move forward.

- a. The proposed loading zone does not meet the minimum required for RC zoned areas, which is 10 SFT for each front foot of building. (refer to Section 5.4.2 of the City's Zoning Ordinance.
 Response: The loading zone is sized to meet the day time deliveries and maximize landscape area. Any deliveries larger vehicles will be during non-peak hours. Please see the included list with waiver requests.
- b. The applicant has included dimensions for the radii and should also include the width of the proposed end islands throughout the site to review accessibility and compliance with City requirements as stated in Section 5.3.12 of the Zoning Ordinance.
 - 1. Note that all end islands adjacent to a travel way shall be constructed three (3) feet shorter than the adjacent parking space.
 - 2. The end island outside radii is required to be a minimum of 15'.
 - 3. If the standards cannot be met, a waiver will be required from the City.

Response: Due to the overall shape of the site and alignment of the drive aisle, the islands further south cannot accommodate the standard design detail. Refer to truck turning templates for accessibility and maneuverability. Please see the included list with waiver requests.

- c. The applicant is proposing drive-through lanes on the west side of the site. The stacking spaces are in compliance with Section 5.3.11.i of the City's Zoning Ordinance.
 - i. Per section 5.3.11.D of the City's Zoning Ordinance, drive-through facilities shall provide one bypass lane that shall be a minimum of 18' wide. The area where the two lanes of vehicles reduces to one lane does not appear to meet this requirement. The applicant should add dimensions to the plans to indicate the 18' width.

Response: The area in question was considered a pinch point for the Fire Marshal. However, through conversations, the fire apparatus can enter the exit of drive-thru lanes and fully access the portion the building located at the pinch point. Additionally, the drive-thru lane widened to 18 feet clear between meal delivery canopy and curb to allow fire truck access. Clear space was approved by the Fire Marshal. Please see the included list with waiver requests.

- d. The applicant has indicated the number of spaces and location of the bicycle parking.
 - i. The applicant should include the layout of the bicycle parking to ensure compliance with Figure 5.16.6 of the City's Zoning Ordinance.
 - ii. Note that a 6' accessible route is required from the adjacent street to the bicycle parking facilities. The proposed sidewalk in front of the bicycle rack is 5'.
 - iii. Note that the bike rack detail shown on sheet C-500 indicates a 35" height which does not match the 36" requirements per Section 5.16.5.B of the City's Zoning Ordinance.

Response: The bike parking has been revised to comply with the City's Ordinance. The sidewalk has been revised to meet the 6' ADA accessible route. The detail has been revised to meet the requirements.

*The signing and striping discussion items will be addressed in the revised plans.

5. TRAFFIC IMPACT STUDY (TIS): AECOM RECOMMENDS APPROVAL

a. The applicant should address the inconsistent number of trips for the PM Peak hour.

Response: Based on what we have found to be best practices for preparing traffic impact studies, GPD typically rounds up the total peak hour trip generation number in order to provide a conservative, worst-case assessment of the potential impact of the project. Based on the average rate of 32.67 trips per 1,000 square feet of gross floor area, the PM peak hour trip generation calculation comes out to 163.1 which was then rounded up to 164 for this study. As the City's consultant has already acknowledged that the impacts of the development are not anticipated to degrade the levels of service based on the analysis using the higher PM trip number, revising the study and analysis to subtract a single vehicle trip will have no bearing on the findings and recommendations whatsoever and is therefore unnecessary in this instance.

6. PARKING AND QUEUEING STUDY: AECOM RECOMMENDS APPROVAL

a. In most scenarios, the proposed development should not exceed the parking and vehicle queueing space provided by the site plan. However, should the development experience demand similar to the Grand Rapids location, the drive-thru will impede use of the parking spaces on the north side of the parking lot and there will be insufficient parking available.
 Response: Chick-Fil-A feels based on their projections the drive-through stack will be sufficient for their needs. However, if the drive-through does exceed the proposed, the City Staff have suggested making some of these stalls employee parking. This row of parking stalls has been adjusted to be perpendicular spaces and seven of them are signed as "Employee Parking."

 b. The parking spaces on the north side of the site and the spillover area for the drive-thru queue could experience conflicts during high-volume periods. We recommend that the applicant consider allocating those spaces as planned employee parking, to prevent a high frequency of conflicts between customers exiting those spaces while others attempt to enter the drivethru.

Response: Noted, see above.

c. In instances when the demand for parking exceeds the available spaces, as the peak parked vehicles at the Grand Rapids location suggests can occur, customers will likely park in the adjacent La-Z-Boy Home Furnishings & Décor store parking lot. We recommend that the applicant pursue a shared parking agreement with this facility to alleviate issues with potential parking needs.

Response: Prior to receiving staff comments, Chick-Fil-A realized the statistics of the parking lot. Knowing at peak times it could be full, Chick-Fil-A reached out to the La-Z-Boy property owner to request cross parking and was denied.

To be sure the parking would be sufficient, the local sites were studied for the volume of vehicles on and off peak times. Based on the performance of the similar locations, the proposed parking will be sufficient. Based on the feedback of the meeting on 3/13 and these comments, the site plan has been evaluated for ways to maximize parking. The angled parking along the north side of the property are now perpendicular to Twelve Oaks Mall Road, and gained 3 additional spaces, bringing to total count up to 68. This number exceeds the average of all three sites evaluated at the 95th percentile (66 parking stalls) and average (56 parking stalls).

If requested, further supporting information can be provided presenting additional Chick-Fil-A locations in the area are similar in building size and available parking stalls.

Please see the included list with waiver requests.

7. DRN & ARCHITECTS COMMENTS:

A sample board should be provided prior to the Planning Commission meeting. (5.15.4.D)

Response: The sample board will be provided.

 It should be noted that all roof top equipment must be concealed from view from all vantage points (on-site and off-site) using extended parapets or roof screens constructed of materials in compliance with the Façade Ordinance.

Response: Noted, the proposed elevations properly screen the roof top equipment.

- It should be noted that all proposed signs are not regulated by the Façade Ordinance and must comply with the City's Sign Ordinance.
 Response: Signage will be reviewed to be in compliance.
- It is the applicant's responsibility to request the inspection of each façade material at the appropriate time.
 Response: Noted, this information has been shared with the Construction Manager.

8. CITY OF NOVI FIRE DEPARTMENT COMMENTS

Approved with conditions

- All fire hydrants MUST in installed and operational prior to any building construction begins.
 Response: Noted, this information has been shared with the Construction Manager.
- b. CORRECTED 2/13/19 KSP- MUST add a fire hydrant to the site plan.
 Distance is greater than 300' from fire hydrant to fire hydrant. (City of Novi Ordinance 11-68(F)(1)(c).
 Response: No comment needed.
- c. CORRECTED 2/13/19 KSP-MUST provide additional access (fire lane access) around the building on the south east side of the structure. (IFC 503.1.1(2) IFC 503.1.1(3)).
 Pospense: No comment prodod

Response: No comment needed.

- d. All water-main sizes MUST be put on the plans for review. **Response: The utility plan has been updated.**
- e. On plan #L-100, FDC location MUST be free of landscaping obstructions for 3' in all directions. Landscape prints) show obstructions at FDC location.
 Response: The landscape plan has been updated.

GPD feels that each comment has been addressed to meet your requirements. If you require any additional information or have any questions, please contact me at 216-927-8650 or email at eselle@gpdgroup.com.

Sincerely,

Folin Selle

Ellen Selle Project Coordinator GPD Group

Chick-Fil-A JZ 18-75 with Rezoning 18,729 22-14-100-50; 27750 Novi Road Nov, MI

List of Deviations Requests based on March 6, 2019 Planning Review Letter

Deviation	Code	Staff Comment	Applicant Response
			Existing use is a restaurant that is located 220 feet from nearest
	Free Standing independent		building corner to Red Lobster nearest building corner. Propose
	restaurants cannot be within	The existing use is also	restaurant use is located 295 feet from nearest building corner t
1 Fast food drive-through	1,000'	restaurant,	Red Lobster nearest building corner
			The side of the drive-through, where two lanes reduce to one,
			was considered a pinch point for the Fire Marshal. However,
		Partial bypass provided,	through conversations, the fire apparatus can enter the exit of
	Drive-through facilities to	Where the two lanes of	drive-thru lanes and fully access the portion the building located
	provide 1 bypass lane, 18',	vehicles reduces to one	at the pinch point. Additionally, the drive-thru lane widened to
	unless otherwise determined	lane does not appear to	18 feet clear between meal delivery canopy and curb to allow fi
2 Bypass lane for drive-through (Traffic & XX	by Fire Marshal	meet this requirement	truck access. Clear space was approved by the Fire Marshal.
			A large area of green space existing at the corner of the site at the
			intersection of 1-96 and Novi Road. This area pinches down the
			site and makes the building placement difficult to accommodate
Building setback -			an isolated drive-through from the parking lot.
3 Exterior Side Yard at I-96 (southwest)	50' required	32' provided	
4 Darking Sathasks			In order to provide a well parked, well circulated and well
Parking Setbacks			positioned building CFA must maximize the buildable area on th
Futuring side used at 12 Only Mall David (a seth)	agtind	a differentiated	site while focusing on an isolated drive-through positioning such
Exterior side yard at 12 Oaks Mall Road (north)	20' required	14.5' provided	that dine in customers do not need to cross drive-through traffi
(southwest)	20' required	9.3' provided, drive thru	to get into the building. The parking along the rear of the site
	and a color co	lanes are in minimum	was able to provide a larger setback than initially submitted
		parking setback	based on plan revisions including reduction in drive aisles and
		Paralle secoder	accommodating car overhangs. The setbacks along the frontag
Exterior side yard at 1-96 (south)	20' required	12.1' provided, Dumpster	and exterior side yards generally meet the existing site setbacks
		is within parking setbacks	but are slightly improved from existing conditions. Adhering
		0	strictly to the code would also severely limit the number of
Rear (east)	10' required	6' provided	proposed parking spaces provided when drive-through stacking
Number of Darking Crosses (Zening R. Troffie)	100 required	65 provided	also taken into account Prior to receiving staff comments, Chick-Fil-A realized the
5 Number of Parking Spaces (Zoning & Traffic)	100 required	· ·	
		Based on parking study provided, it appears that	statistics of the parking lot. Knowing at peak times it could be fu
			Chick-Fil-A reached out to the La-Z-Boy property owner to
		a shared parking	request cross parking and was denied.
		agreement with Lazyboy	To be sure the parking would be sufficient, the local sites were
		parking lot is warranted.	studied for the volume of vehicles on and off peak times. Based
			on the performance of the similar locations, the proposed parki
			will be sufficient. Based on the feedback of the meeting on 3/13
			and these comments, the site plan has been evaluated for ways
			to maximize parking. The angled parking along the north side of
			the property are now perpendicular to Twelve Oaks Mall Road,
			and gained 3 additional spaces, bringing to total count up to 68
			This number exceeds the average of all three sites evaluated at
		1	the 95th percentile (66 parking stalls) and average (56 parking
			stalls).
			Further supporting information can be provided presenting
			Further supporting information can be provided presenting additional Chick-Fil-A locations in the area are similar in building
			additional Chick-Fil-A locations in the area are similar in building size and available parking stalls.
		e	additional Chick-Fil-A locations in the area are similar in buildin size and available parking stalls. The loading zone is sized to meet the day time deliveries and
			additional Chick-Fil-A locations in the area are similar in buildin size and available parking stalls. The loading zone is sized to meet the day time deliveries and maximize landscape area. Any deliveries larger vehicles will be
6 Loading Spaces	2,110 SF provided	360 SF provided	additional Chick-Fil-A locations in the area are similar in building size and available parking stalls. The loading zone is sized to meet the day time deliveries and maximize landscape area. Any deliveries larger vehicles will be during non-peak hours.
6 Loading Spaces 7 Dumpster	2,110 SF provided Dumpster cannot be located in		additional Chick-Fil-A locations in the area are similar in buildin size and available parking stalls. The loading zone is sized to meet the day time deliveries and maximize landscape area. Any deliveries larger vehicles will be
			additional Chick-Fil-A locations in the area are similar in buildin size and available parking stalls. The loading zone is sized to meet the day time deliveries and maximize landscape area. Any deliveries larger vehicles will be during non-peak hours.
	Dumpster cannot be located in	Proposed Located within	additional Chick-Fil-A locations in the area are similar in buildin size and available parking stalls. The loading zone is sized to meet the day time deliveries and maximize landscape area. Any deliveries larger vehicles will be during non-peak hours.
	Dumpster cannot be located in	Proposed Located within parking setback. Staff can	additional Chick-Fil-A locations in the area are similar in buildin size and available parking stalls. The loading zone is sized to meet the day time deliveries and maximize landscape area. Any deliveries larger vehicles will be during non-peak hours.
	Dumpster cannot be located in	Proposed Located within parking setback. Staff can support provided	additional Chick-Fil-A locations in the area are similar in building size and available parking stalls. The loading zone is sized to meet the day time deliveries and maximize landscape area. Any deliveries larger vehicles will be during non-peak hours.
	Dumpster cannot be located in	Proposed Located within parking setback. Staff can support provided dumpster pickup times	additional Chick-Fil-A locations in the area are similar in buildin size and available parking stalls. The loading zone is sized to meet the day time deliveries and maximize landscape area. Any deliveries larger vehicles will be during non-peak hours.
	Dumpster cannot be located in	Proposed Located within parking setback. Staff can support provided dumpster pickup times does not conflict with peak hour traffic.	additional Chick-Fil-A locations in the area are similar in buildin size and available parking stalls. The loading zone is sized to meet the day time deliveries and maximize landscape area. Any deliveries larger vehicles will be during non-peak hours. Correct. Trash pick up will not occur during peak hours.
7 Dumpster	Dumpster cannot be located in parking setback	Proposed Located within parking setback. Staff can support provided dumpster pickup times does not conflict with peak hour traffic.	additional Chick-Fil-A locations in the area are similar in buildin size and available parking stalls. The loading zone is sized to meet the day time deliveries and maximize landscape area. Any deliveries larger vehicles will be during non-peak hours. Correct. Trash pick up will not occur during peak hours. Due to stringent grading conditions, existing utility mains and t
7 Dumpster	Dumpster cannot be located in parking setback Code requires wall for drive-	Proposed Located within parking setback. Staff can support provided dumpster pickup times does not conflict with peak hour traffic. Applicant should provide	additional Chick-Fil-A locations in the area are similar in buildin size and available parking stalls. The loading zone is sized to meet the day time deliveries and maximize landscape area. Any deliveries larger vehicles will be during non-peak hours. Correct. Trash pick up will not occur during peak hours. Due to stringent grading conditions, existing utility mains and t
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7 Dumpster	Dumpster cannot be located in parking setback Code requires wall for drive-	Proposed Located within parking setback. Staff can support provided dumpster pickup times does not conflict with peak hour traffic. Applicant should provide	additional Chick-Fil-A locations in the area are similar in buildin size and available parking stalls. The loading zone is sized to meet the day time deliveries and maximize landscape area. Any deliveries larger vehicles will be during non-peak hours. Correct. Trash pick up will not occur during peak hours. Due to stringent grading conditions, existing utility mains and t monument sign placement, we have omitted the berm or wall from the plan. In place of the berm or well along Novi Road, a sold shrub hedge has been incorporated into the plan along all
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7 Dumpster 8 Berm/Screen wall 9 Insufficient green belt width along 1-96 frontage	Dumpster cannot be located in parking setback Code requires wall for drive- through Code requires 25'	Proposed Located within parking setback. Staff can support provided dumpster pickup times does not conflict with peak hour traffic. Applicant should provide more information Provided between 8-24 feet.	additional Chick-Fil-A locations in the area are similar in building size and available parking stalls. The loading zone is sized to meet the day time deliveries and maximize landscape area. Any deliveries larger vehicles will be during non-peak hours. Correct. Trash pick up will not occur during peak hours. Correct. Trash pick up will not occur during peak hours. Due to stringent grading conditions, existing utility mains and t monument sign placement, we have omitted the berm or wall from the plan. In place of the berm or well along Novi Road, a sold shrub hedge has been incorporated into the plan along all road frontage. This species chosen for the hedge will reach 4' in height. The building is proposed 1'-4" lower than roadway, whi creates a natural berm for the shrub row to sit on top. The southern side of the side is adjacent to 1-96 and existing features already have a berm in place, again placing the site low 3' lower than the roadway. At the corner southwest corner of the lot, a windscreen will be placed. This is an 8' tall ornamental fence with evergreen trees between the roadway and fence. Waiver is supported by staff as there is sufficient room in right- way separating site and exit ramp.
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Chick-Fil-A JZ 18-75 with Rezoning 18.729 22-14-100-50; 27750 Novi Road Nov, MI

List of Deviations Requests based on March 6, 2019 Planning Review Letter

	Deviation	Code	Staff Comment	Applicant Response
11	Less than 60% of building facing road is landscaped	60% required	55% proposed	Orientation of the proposed building, along with CFA standards to account for customer/employee meal deliveries and interactions along the drive-through do not allow for required 60%. This percentage has been maximized at 55%
12	Building Foundation Landscape	2,240 SF of landscaping required at building foundation	2,389 SF provided, but only 37% is located at the building	As noted in the comments, the building foundation landscaping is located in the general facility of the landscaping. It should also be noted the provided square footage exceeds the required.
13	Parking End Islands (Traffic)	All endcap islands adjacent to travel way shall be constructed 3' short than adjacent parking space. Radii is required to be 15'	See plan.	Due to the overall shape of the site and alignment of the drive aisle, the islands further south cannot accommodate the standard design detail. Refer to truck turning templates for accessibility and maneuverability.
		Waivers	s not required	
A	Greenbelt plantings - Subcanopy Trees	Zoning Sections: 5.5.3.8.ii and	Add subcanopy trees to plans by creating more depth in landscaping row at Novi Road	Waiver not required, requirements satisfied.
В	Interior Parking Lot Landscaping	2,355 SF of Island area and 12 trees are required	1,954 SF and 9 trees are provided	Waiver not required, requirements satisfied.
C	Parking Lot Perimeter Canopy Trees	24 deciduous trees are required	13 canopy and 6 subcanopy trees are provided	Waiver not required, requirements satisfied.

APPLICANTS RESPONSE LETTER (Address Traffic Concerns)



520 South Main Street, Suite 2531 Akron, Ohio 44311 Phone 330.572.2100 www.gpdgroup.com

> July 1 2019 2018223.15

City of Novi, Michigan Sri Ravali Komaragiri Planner 45175 Ten Mile Road Novi, Michigan 48375

RE: Chick-Fil-A Review Response Letter 27750 Novi Road Novi, MI

Dear Mr. Komaragiri,

Chick-Fil-A and GPD Group were in attendance at the City Council Meeting May 20, 2019. We are addressing each comment as follows:

a Demonstrate your efforts to work with Twelve Oaks mall folks. Preferably, number of meetings, summary of meeting minutes.

Response: Several productive calls have occurred between the Mall, Property Owner, and Chick-Fil-A. All parties are in alignment and working together with open lines of communication, and have agreed to keep future open communication between the Chick-Fil-A operator, property owner, and Mall Manager. In summary, the Mall is not in opposition to the development of a Chick-Fil-A at this location. All parties agreed that no physical measures should be installed at this time, and would be addressed with the boots on the ground as necessary in the future.

b. Semi-truck parking: At the last meeting, one of our Council member had expressed concern with Semi's accessing your site as customers. He was curious if they will be able maneuver your site, park on site and how would they effect the Traffic circulation and parking on site. Are you aware of similar issues at your existing locations? How do you plan to address this?
Response: Chick-Fil-A parking lots across the chain are not designed to accommodate semi-truck parking. The frequency with which we experience semi-truck drivers attempting to access our sites to park is relatively low. This site was designed to handle trucks for deliveries, trash pick-up and fire access only.

Other semi-trucks will not be limited from attempting to access the site. If other semi's do enter the site, they will quickly realize there is not adequate parking and continue to exit through the Lazy-Boy property and onto the Ring Road or may choose to park in the mall's parking lot. All parties agree to evaluate the situation as it arises. c. Updated signage/circulation plan: Please see our notes from our Traffic Consultant on the image below for recommended sign location and recommended language to direct traffic a certain way. The current circulation plan just focuses on exit patterns from the site. Please shown entry patterns to the site as well. If mall visitors enter lazy boy site at Point A, would they access the drive-thru by taking right at Point B or Point C. You should work with Laz-y-boy and provide appropriate way finding signage for Drive-Thru. What are limitations of existing access easements on Lazy-Boy site to your site?

Response: The circulation plan has been updated and included. Chick-Fil-A will work with La-Z-Boy to provide appropriate directional signage to promote circulation per the circulation plan.

d. Please note that the recommended signs would require Laz-y-boy (yellow circle) and Twelve Oaks Mall (green circle) approval as they are within their property limits.
 Response: The circulation plan and site plan have been updated with the

proposed signage.

- e. Please label Laz-y-Boy and Twelve Oaks Mall Drive on the plan and Rename Novi Mall to Twelve Oaks Mall.
 Response: The circulation plan has been updated.
- f. You mentioned that you would reassess the traffic congestion after the business is up and running and provide/install necessary mitigation measures. Please expand on this in your response letter. What is the plan for reassessment?
 Response: Traffic conditions will be evaluated on an ongoing basis by the Mall Manager and Chick-Fil-A operator. Appropriate mitigation measures will be implement as determined necessary between the parties to promote flow of traffic.

GPD and Chick-Fil-A feel that each comment has been addressed to meet your requirements. If you require any additional information or have any questions, please contact me at 216-927-8650 or email at eselle@gpdgroup.com.

Sincerely,

Ellen Selle

Ellen Selle Project Coordinator GPD Group

CIRCULATION DIAGRAMS







LETTER OF SUPPORT From Twelve Oaks Mall

Taubman



Mrs. Sri Ravali Komaragiri Planner, City of Novi 45175 Ten Mile Road Novi Michigan, 48375

July 1, 2019

Dear Mrs. Komaragiri,

TVO Mall Owner LLC, Owner of Twelve Oaks Mall (Twelve Oaks Mall), is submitting this letter regarding the Novi City Council consideration of the request of GPO group for JSP 18-75 Chick-Fil-A for approval of rezoning from Regional Center (RC) to Regional Center with a Planned Development 2 Option (PD-2) in order to effectuate a PD Option for the subject property.

Twelve Oaks Mall continues to work in good faith with the applicant, NOVI Real Estate Group (Owner) and Chick-fil-A (Ground Lessee), to formalize an agreement between the parties that addresses to the best of our abilities any potential adverse impacts on the traffic along Twelve Oaks Mall Drive. With that being said, Twelve Oaks Mall takes no exception to the rezoning of the property to allow for the Chick-fil-A as proposed by the applicant.

Please do not hesitate to reach out to me with any questions or concerns.

Sincerely, ĩ

William Salliotte) Director, Development Manager for The Taubman Company LLC, Managing Agent on behalf of TVO Mall Owner LLC

CC:

Peter Zingas, Novi Real Estate Group Jason Hill, Chick-fil-A, Inc. Justin Lurk, Cushman & Wakefield Dan Jones, Twelve Oaks Mall

> 200 East Long Lake Road Suite 300 Bloomfield Hills, Michigan 48304-2324

T 248.258.6800 www.taubman.com