

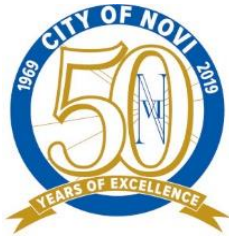
MASTER PLAN AND ZONING COMMITTEE
City of Novi Planning Commission
November 13, 2019 at 6:00 p.m.
Novi Civic Center – Council Conference Room
45175 W. Ten Mile, Novi, MI 48375
(248) 347-0475
AGENDA

Members: Anthony, Avdoulos, Gronachan

Staff Support: Barb McBeth, Lindsay Bell, Tom Schultz, Madeleine Kopko

- 1. Roll Call**
- 2. Approval of Agenda**
- 3. Approval of September 11, 2019 Master Plan and Zoning Committee Meeting Minutes**
- 4. Audience Participation and Correspondence**
- 5. Discussion Items**
 - i. Sakura Novi**

Review and provide comments on the rezoning request for approximately 19 acres of property located north of Grand River Avenue, south of Eleven Mile Road and east of Town Center Drive in Section 23 from Office Service (OS-1), Office Service Commercial (OSC) and Light Industrial (I-1) to Town Center-1 (TC-1) with a Planned Rezoning Overlay.
- 6. Adjourn**



MASTER PLAN AND ZONING COMMITTEE
City of Novi Planning Commission
September 11, 2019 at 6:00 p.m.
Novi Civic Center – Council Conference Room
45175 W. Ten Mile, Novi, MI 48375
(248) 347-0475
AGENDA

CALL TO ORDER

Meeting called to order at 6:02 p.m.

ROLL CALL

Present:	Tony Anthony, Mark Pehrson, and Cindy Gronachan
Absent:	John Avdoulos
Staff Present:	Sri Komaragiri, Planner, Community Development. Barb McBeth, City Planner, Community Development. Madeleine Kopko, Planning Assistant, Community Development. Tom Schultz, City Attorney.

APPROVAL OF AGENDA

Member Anthony made a motion to approve the agenda with an addition to add audience participation. Member Gronachan seconded. Motion passed 3-0.

APPROVAL OF MARCH 13, 2019 MASTER PLAN AND ZONING COMMITTEE MEETING MINUTES.

Member Anthony made a motion to approve the minutes. Member Gronachan seconded. Motion passed 3-0.

Discussion Items

A. Rezoning request from Office Service Technology(OST) to Multi-family residential (RM-2) using a Planning Rezoning Overlay option

Review and provide comments on the rezoning request for 22 acres of property located on the west side of Haggerty Road, north of Twelve Mile Road in Section 12 to rezone from Office Service Technology (OST) to Multi-family Residential (RM-2) using a Planned Rezoning Overlay option.

Planner Komaragiri introduced the proposed Novaplex site plan brought to staff to review within the last month. Planner Komaragiri explained that the requested residential proposal is not consistent with the City's Future Land Use Map which would be considered Office Research Development Technology. The site is particularly surrounded by many woodlands and wetlands and the developers are proposing to remove many trees.

- The site was approved for an office development years ago and that is why the site is cleared of many of the trees.
- When Staff reviewed the plans for this incoming project, it was determined that the buildings would have to be shorter than four stories and in fact, the development was considered three stories. It was also noted by Planner Komaragiri that there needs to be some classification of streets within the development with no parking on either side of the main street the runs through the development.

- It was also noted that there are ten buildings proposed in this development consisting of apartments, townhomes, and a clubhouse. There would also be a pool.
- If the project continues on in the process, the residential use would need to be screened due to the fact of the surrounding office uses.

Planner Komaragiri explained how dense of a development this is for the area it would be constructed on.

City Planner McBeth reiterated how high of a quality the woodlands are on this site. She mentioned the City's Environmental Consultant has said that it is one of the best remaining areas in the city for woodlands.

Planner Komaragiri mentioned the long list of requested deviations requested by the developers. There were nineteen deviations, many having to do with the landscape design. Planner Komaragiri said most of the deviations could be eliminated or could be reduced in some way.

- The engineering review stated that the demand for utilities for the proposed residential use would be four times more than an office use. The sewer capacities would not be able to hold for that.
- The landscape buffering was an issue on the proposed plans. The plans did not show any berms which are required by the ordinance. The developers proposed a row of trees, but that was not sufficient.
- The site borders Infinity Medical on the south, which has provided a driveway stub to connect to this property. The proposed plan does not provide a connection to this stub.

Planner Komaragiri said that the only overall measurable public benefit from the project offered to this point, would be filling the 600 feet of sidewalk gap, off-site along Haggerty Road. The developers had mentioned this public benefit in the community impact survey.

City Planner McBeth said that staff is interested in hearing what the applicant has to say at this meeting, because the applicant has not yet responded to the staff and consultant's review letters yet. If the applicant were to proceed, a public hearing would be scheduled in front of the Planning Commission as a whole.

The applicant, Mark Highlen, introduced his team to the Committee.

David Landry, the applicant's attorney, made some comments about the proposed development. He mentioned the applicant has a history with the site, which was the proposed office use a few years ago. He explained that they are trying to propose a walkable site, being that residents should be able to walk to their work places, which may be in the adjacent corporate park. He explained the RM-2 zoning description, which is intended to provide high density living facilities in areas, or adjacent to areas, of intense commercial or office development. Mr. Landry said that the development would be an opportunity to create something more walkable. He also noted that he has letters from the surrounding businesses that support their development. He also said they would be willing to fill in all the sidewalk gaps and add walking trails to the development to meet those walkability standards.

Mark Highlen said he has not had enough time to respond to all of staff's comments on the proposed plans yet. He explained the development as a unique residential space that is not meant to look out of place from the commercial buildings and will have an industrial and modern style architecture. Mr. Highlen said he would be willing to work with the City Staff on adding buffers and trees to the development and also add trees elsewhere in the city that could use the landscaping. He will work on adding the connections to the development. He wanted to know if this development was worth proceeding on with further changes. He noted

that the sewer capacity could be worked on, to figure out a solution. He said this development will enhance the area because companies look to build near to where their employees want to live. This residential development will answer market demands, and that's why they're trying to develop through the Planned Rezoning Overlay (PRO). He noted he addressed the master plan goals, which would maintain adequate infrastructure, promote connectivity, and ensure that this will be a good place to live. He said the development will support future uses in the area. He also noted his company's investments are well maintained, and not sold off. He assured the Committee that the site will be maintained.

Chair Pehrson said that this is not the first time the Committee has seen a crazy idea. The PRO's are put in place for this exact reason. He also noted that the long list of deviations have sort of a negative connotation to them and he would like to see those get whittled down.

Member Anthony said the development looks isolated. He was concerned it would be cut off from basic services. He mentioned that he would like to see the available services nearby. He noted when looking at the area he would have to look at all the greatest enhancements. He mentioned Novi is proud of all of our green space. This particular development is using up all the available space and also getting rid of the wetlands and woodlands. He mentioned, from an engineer's point of view, he sees an accumulation of issues, which include, the density being too high and the limited amount of sanitary sewer capacity. If the density of the development comes down, then the scale of the issues will also come down.

Member Gronachan said she looks at it from a resident point of view and was wondering "what are we doing to allow this kind of development?" She concurred with member Anthony. She was also concerned with the isolation factor. Member Gronachan noted her marketing background and was wondering about if people would really stay in that development if isolated from services. She noted how great it would be to walk to work, but you would still have to drive everywhere else. Member Gronachan said the development should offer some kind of services. She gave an example of something like offering commuter services, which she noted was a big idea, but still an idea. She also struggled with how the development fits in visually, she said it could be more visually appealing.

Chair Pehrson said the number one thing the Committee will look at is density. If the developers can come back with a less dense development, and a smaller deviation list, he thinks the project will be on its way. Chair Pehrson said he appreciates it being walkable, but knows that will not work out in the wintertime. He also noted that when there's such a large deviations list, it's very hard for the Committee to take in and would like to see how many of those apartments would actually be used by those employees in the surrounding area. Chair Pehrson also mentioned he would like to see all the applicant's response letters before anything else moves forward. He said no one's saying "no" to the development; we just have to figure out how to make it work.

Planner Komaragiri asked if the City should have another chance to do another review.

Chair Pehrson said yes.

Member Anthony said he would like to know how this project will integrate with schools for people with young families.

Carmine Avantini, of CIB Planning, noted that the site is at a disadvantage.

Chair Pehrson mentioned that this is why the Master Plan & Zoning Committee meets, to handle these situations with the difficult sites.

Carmine Avantini mentioned that the site is in a good area with a good road system to get to places faster.

Zachary Weiss, of Beztak Communities, noted that the applicant also owns Citation Club apartments in Farmington Hills and that community is always full. It is also in a more isolated area.

City Planner McBeth said sounds like this Committee would like to meet again to review any changes that the applicant may propose.

Audience Participation and Correspondence

Dorothy Duchesneau, 125 Henning, noted that the project is not a woodlands and wetlands problem, it's a rezoning problem. She mentioned a similar example in Farmington Hills where the City has set in place what can be office and what can be residential. She noted in the comments that what is in the surrounding area for the development, the developer's calculations stop in 2017. All the proposed developments since then were not considered, especially apartments. Ms. Duchesneau mentioned the development does not offer anything for children, like playgrounds, and that children living in this area would not be close to other neighborhoods with children in the same school district. There are a lot of discrepancies she's concerned about and said the development may not be the right fit. She said the bigger issue is whether the City should change the Master Plan or not.

Mike Duchesneau, 1191 South Lake Drive, said that the residents will reject any rezoning that is similar to the Manchester Development. He also questioned the reason for putting more residential in this particular area. He would not like to see 15 homes per acre. He also noted residents don't want to see more residents.

Ginger Barrons, Glenda Avenue, said there's a lot of talk about this project. She said she is not necessarily opposed to the project, but does not approve of the density the project is proposing. Ms. Barrons noted the wetlands and woodlands will be most likely destroyed. She also mentioned she would rather see condominiums and more green space.

Mike Duchesneau, South Lake Drive, narrated a video that he took of the area around the proposed Scenic Pines project to show the ponding and water flow that occurred after a recent rain storm.

Adjourn

Motion to adjourn made by Member Anthony and seconded by Member Pehrson.

Adjournment at 6:59 p.m.

MEMORANDUM



TO: MASTER PLAN AND ZONING COMMITTEE
FROM: LINDSAY BELL, PLANNER
THRU: BARBARA MCBETH, AICP, CITY PLANNER
SUBJECT: CONSIDERATION OF REZONING REQUEST FOR
JZ19-31 SAKURA NOVI
DATE: NOVEMBER 8, 2019

The petitioner is requesting a Zoning Map amendment for 15.59 acres of property located north of Grand River Avenue, south of Eleven Mile Road and east of Town Center Drive (Section 23) from Office Service (OS-1), Office Service Commercial (OSC) and Light Industrial (I-1) to Town Center-1 (TC-1) with a Planned Rezoning Overlay. The submittal also requests the rezoning of two additional parcels, 3.5 acres, located south of Eleven Mile Road approximately 575 feet to the east of the primary parcels, from Light Industrial (I-1) to Town Center-1 (TC-1) with a Planned Rezoning Overlay.

The applicant is proposing to develop the property as an Asian-themed mixed-use development. The first phase of the development proposes a Japanese grocery and food hall concept as the central tenant and anchor. Two additional buildings would contain additional Asian restaurants and retail spaces. Sixty-eight multifamily residential rental units in attached townhome buildings would be located on the eastern portion of the site with access to Eleven Mile Road. For clarity, we refer throughout our review to the commercial portion as Phase 1A and the residential portion as Phase 1B. The existing pond on the west side of the site would serve as a focal point and public gathering space, to be enhanced with Japanese-style gardens and a walkway around the perimeter.

The revised PRO Concept Plan and narrative presents two options for possible development in Phase 2 of the project. In the "Baseline" scenario, the Phase 2 land area would be developed with 70 townhome units matching the form and style of those proposed for Phase 1B. The Phase 2 "Maximum Density Option" would contain 4 additional buildings, ranging in height from 2 stories to 6 stories, and uses ranging from hotel or senior living, office, retail, restaurant, personal service, and mid-rise residential, among other potential uses. This option also envisions a parking garage to accommodate the parking requirements.

The revised submittal also adds a Phase 3 to the PRO Concept Plan, which would be located on a 3.5-acre non-contiguous parcel to the east along Eleven Mile Road. The plans show Phase 3 to be developed with 52 townhome units matching the form and style of those proposed for Phase 1B.

The applicant has provided the following studies as part of their application packet. All are attached to this memo following the staff and consultant reviews:

1. PRO Project Narrative

- a. List of Requested Deviations
 - b. List of Project Benefits
 - c. List of Prospective PRO Agreement Conditions
2. Community Impact Statement
3. Wetland Delineation Letter
4. Wetland Mitigation Options
5. Traffic Impact Study Addendum
6. Traffic Impact Response Letter
7. Design Statement – Commercial
8. Design Statement – Residential
9. Response Letter to Previous Review Comments
10. Consent from Property Owners

The rezoning request is presented to this Committee for input as the proposed rezoning is currently not explicitly supported by our 2016 Master Plan for Land Use. Staff is requesting the Committee consider the applicant's request, review staff and consultants' review letters and provide direction to staff and the applicant.

The memo also includes reviews for Planning, Engineering, Landscape, Traffic, Wetlands, Woodlands, Façade and Fire. Please note that recommendations in all reviews are left blank on purpose.

MAPS

Location

Zoning

Future Land Use


Natural Features

SAKURA WAY: JZ19-31

EXISTING LAND USES IN THE VICINITY



LEGEND

 Subject Property



City of Novi

Dept. of Community Development
City Hall / Civic Center
45175 W Ten Mile Rd
Novi, MI 48375
cityofnovi.org

Map Author: Lindsay Bell
Date: 7/22/19
Project: SAKURA WAY JZ 19-31
Version #: 1

0 110 220 440 660 Feet
1 inch = 500 feet

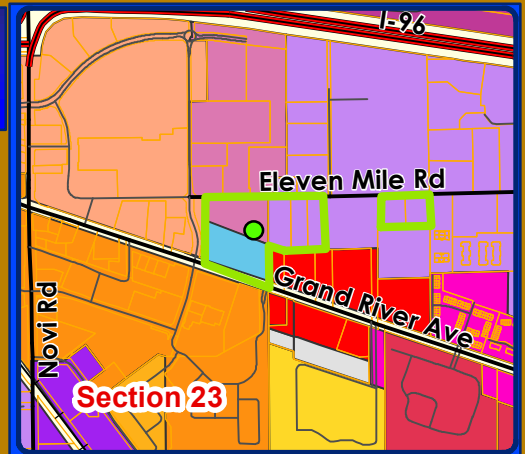
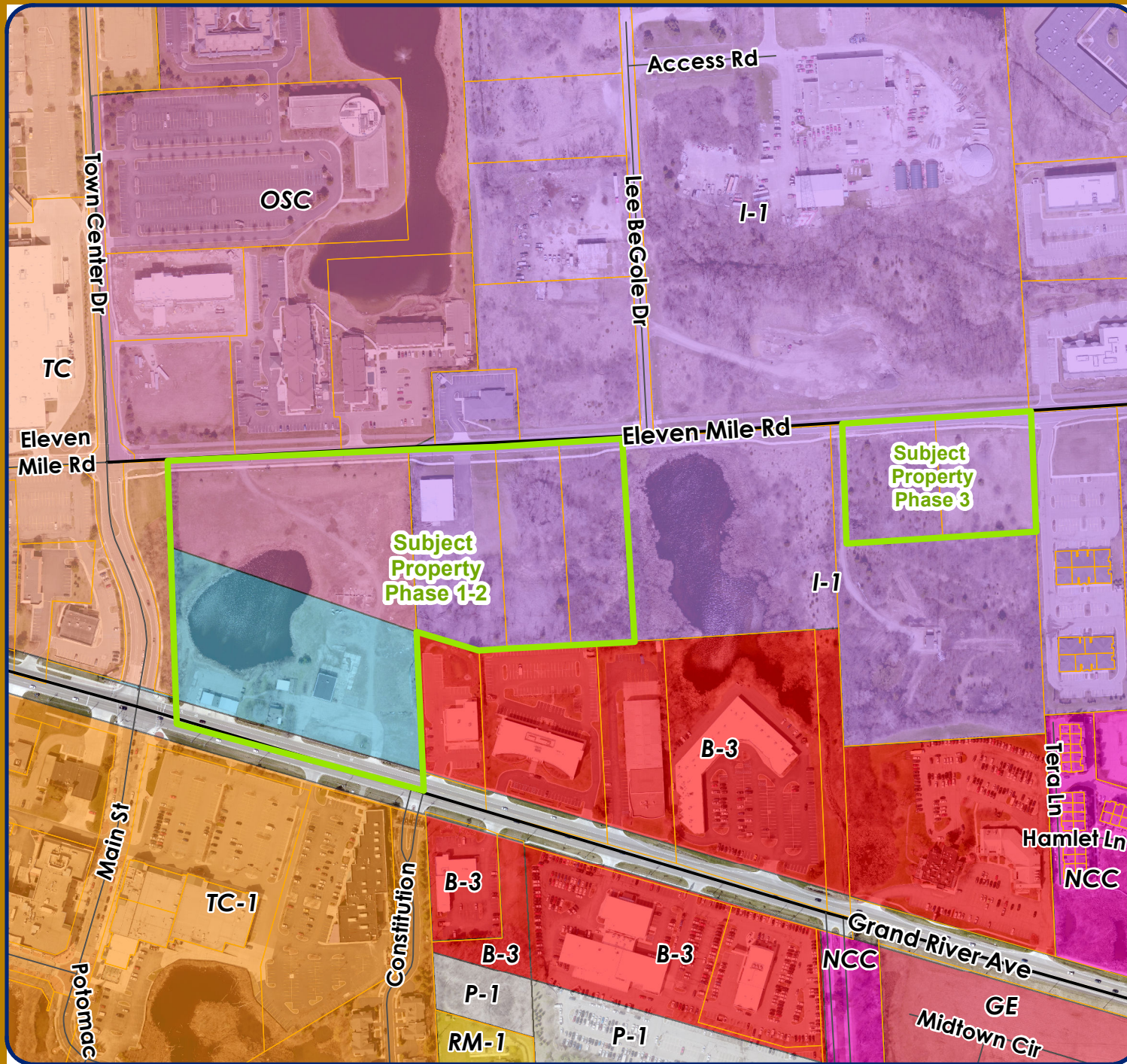


MAP INTERPRETATION NOTICE

Map information depicted is not intended to replace or substitute for any official primary source. This map was intended to meet National Map Accuracy Standards and use the most recent, accurate sources available to the people of the City of Novi. Boundary measurements and area calculations are approximate and should not be construed as survey measurements performed by a licensed Michigan Surveyor or as defined in Michigan Public Act 132 of 1970 as amended. Please contact the City GIS Manager to confirm source and accuracy information related to this map.

SAKURA WAY: JZ19-31

ZONING



LEGEND

- RM-1: Low-Density Multiple Family
- RM-2: High-Density Multiple Family
- B-3: General Business District
- GE: Gateway East District
- I-1: Light Industrial District
- I-2: General Industrial District
- NCC: Non-Center Commercial District
- OS-1: Office Service District
- OSC: Office Service Commercial
- OST: Office Service Technology
- P-1: Vehicular Parking District
- TC: Town Center District
- TC-1: Town Center -1 District



City of Novi

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City Hall / Civic Center
45175 W Ten Mile Rd
Novi, MI 48375
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Map Author: Lindsay Bell
Date: 10/16/19
Project: SAKURA WAY JZ 19-31
Version #: 2

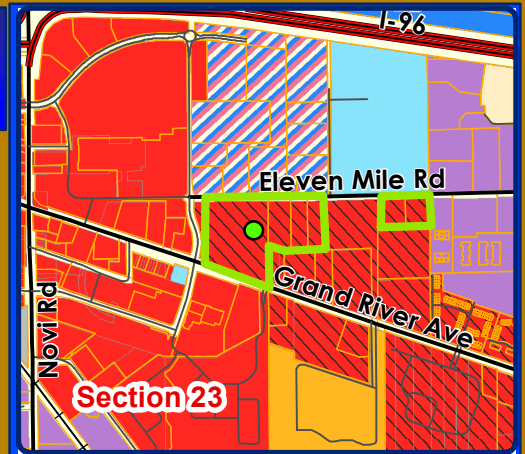
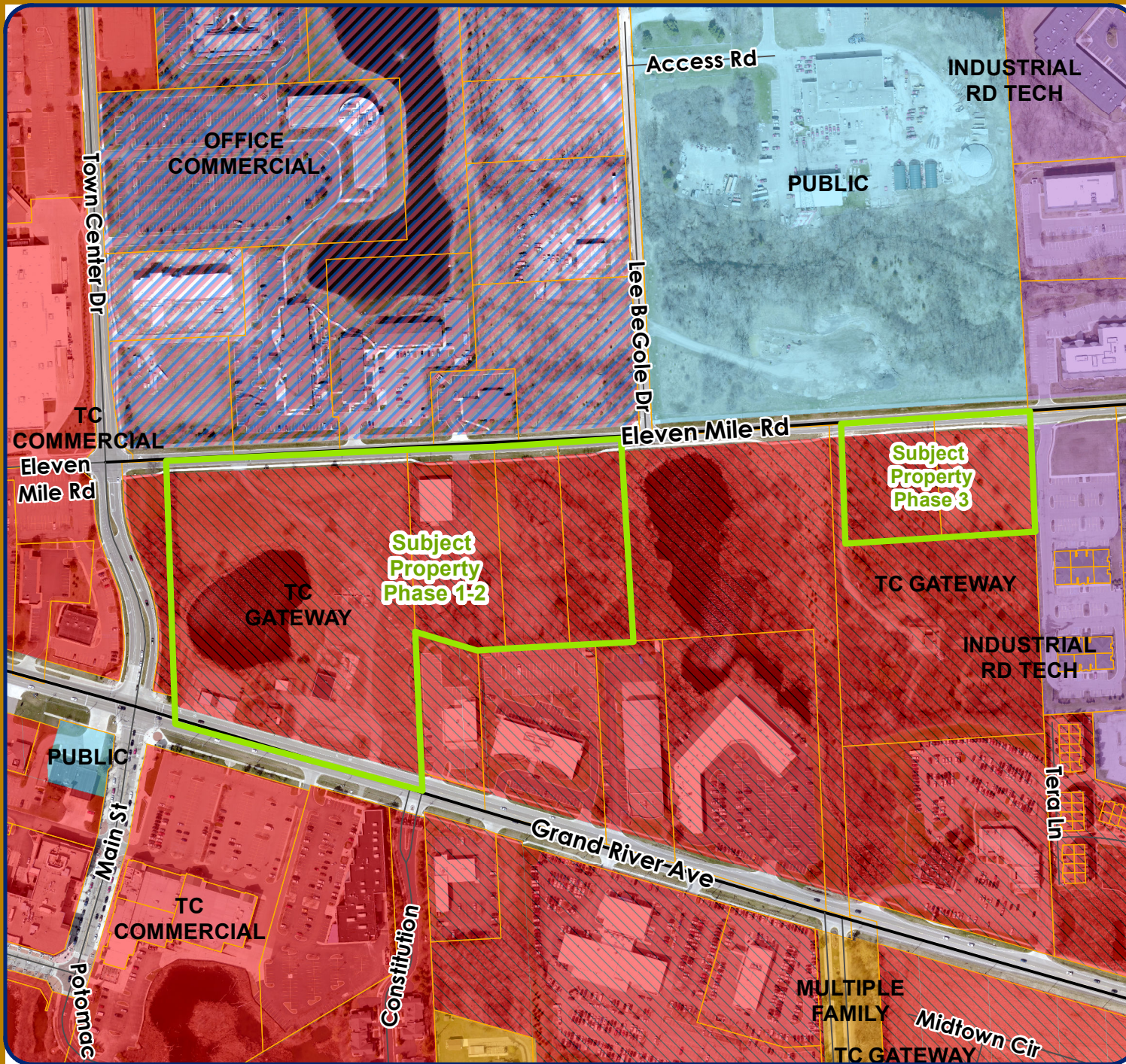


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SAKURA WAY: JZ19-31

FUTURE LAND USE



LEGEND

- Multiple Family
- Office Research Development Technology
- Office Commercial
- Industrial Research Development Technology
- TC Commercial
- TC Gateway
- Educational Facility
- Public
- Cemetery
- Subject Property



City of Novi

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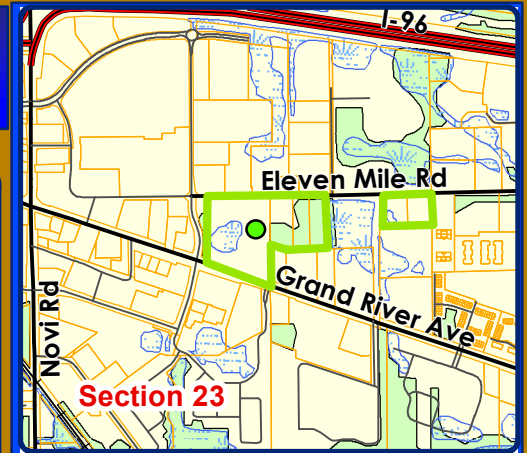


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SAKURA WAY: JZ19-31

NATURAL FEATURES



LEGEND

- WETLANDS
- WOODLANDS
- Subject Property



City of Novi

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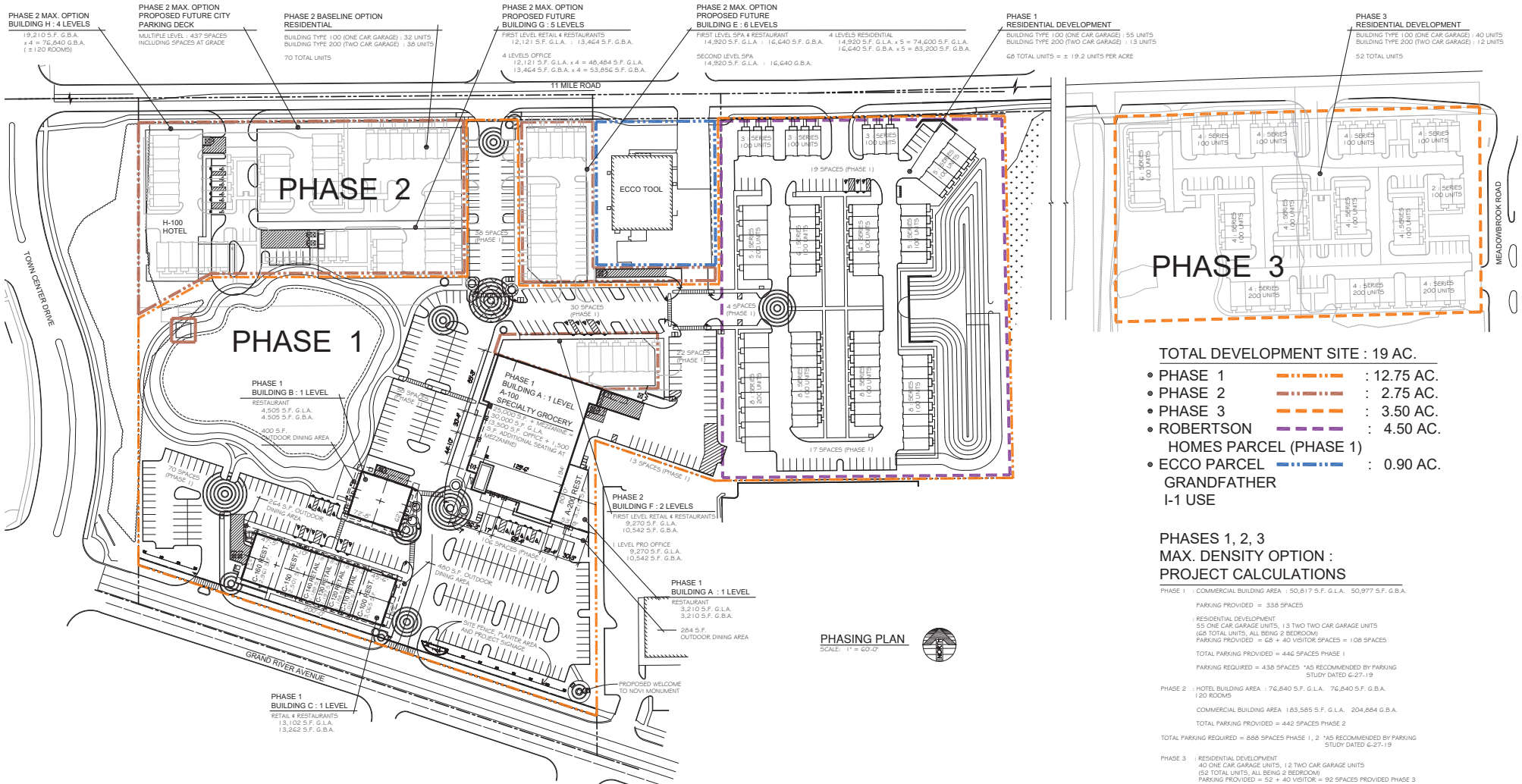
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SITE PLAN



TOTAL DEVELOPMENT SITE : 19 AC.

- PHASE 1 : 12.75 AC.
 - PHASE 2 : 2.75 AC.
 - PHASE 3 : 3.50 AC.
 - ROBERTSON HOMES PARCEL (PHASE 1) : 4.50 AC.
 - ECCO PARCEL : 0.90 AC.
- GRANDFATHER I-1 USE

PHASES 1, 2, 3 MAX. DENSITY OPTION : PROJECT CALCULATIONS

PHASE 1 : COMMERCIAL BUILDING AREA : 50,817 S.F. G.L.A. 50,877 S.F. G.B.A.
PARKING PROVIDED = 338 SPACES
RESIDENTIAL DEVELOPMENT
55 ONE CAR GARAGE UNITS, 13 TWO CAR GARAGE UNITS
(68 TOTAL UNITS, ALL BEING 2 BEDROOM)
PARKING PROVIDED = 68 + 40 VISITOR SPACES = 108 SPACES
TOTAL PARKING PROVIDED = 446 SPACES PHASE 1
PARKING REQUIRED = 436 SPACES *AS RECOMMENDED BY PARKING STUDY DATED 6-27-19

PHASE 2 : HOTEL BUILDING AREA : 76,840 S.F. G.L.A. 76,840 S.F. G.B.A.
120 ROOMS
COMMERCIAL BUILDING AREA : 183,585 S.F. G.L.A. 204,884 G.B.A.
TOTAL PARKING PROVIDED = 442 SPACES PHASE 2
TOTAL PARKING REQUIRED = 886 SPACES PHASE 1, 2 *AS RECOMMENDED BY PARKING STUDY DATED 6-27-19

PHASE 3 : RESIDENTIAL DEVELOPMENT
40 ONE CAR GARAGE UNITS, 12 TWO CAR GARAGE UNITS
(52 TOTAL UNITS, ALL BEING 2 BEDROOM)
PARKING PROVIDED = 52 + 40 VISITOR = 92 SPACES PROVIDED PHASE 3

PHASE 1 USES :

- 30,000 S.F. MARKET (25,000 S.F. + 3,500 S.F. MEZZ. OFFICE + 1,500 S.F. MEZZ. ADDITIONAL SEATING)
- 5 RESTAURANTS
- 4 RETAIL SPACE
- 68 TOWN-HOME APARTMENTS (55 - 1,184 S.F. & 13 - 1,541 S.F. UNITS)
121 PARKING SPACES
± 19.2 UNITS PER ACRE
- LIGHT INDUSTRIAL USE ECCO TOOL CO. PARCEL GRANDFATHERED IN

PHASE 2 MAX. DENSITY OPTION POTENTIAL PHASE 2 USES :

- BUILDING E PODIUM : 5,000 S.F. RESTAURANT (GROUND FLR.)
25,000 S.F. SPA (GROUND FLR. & 2ND FLR.)
48 RESIDENTIAL UNITS (FLR.S 3, 4, 5 & 6)
(16 - 1 BEDROOM & 32 - 2 BEDROOM UNITS)
- BUILDING F : 3,000 S.F. RESTAURANT (GROUND FLR.)
6,000 S.F. RETAIL (GROUND FLR.)
10,000 S.F. MULTI-TENANT PRO OFFICE (2ND FLR.)
- BUILDING G : 2 - 3,000 S.F. RESTAURANTS (GROUND FLR.)
6,000 S.F. RETAIL (GROUND FLR.)
48,000 S.F. MULTI-TENANT OFFICE / PRO OFFICE (FLR.S 2, 3, 4 & 5)
- BUILDING H : 120 ROOM HOTEL
- PARKING DECK : 442 SPACES INCLUDING SPACES AT GRADE

PHASE 2 BASELINE OPTION RESIDENTIAL :

- 70 TOWN-HOME APARTMENTS (32 - 1,184 S.F. & 38 - 1,541 S.F. UNITS)
148 PARKING SPACES

PHASE 3 :

- 52 TOWN-HOME APARTMENTS (40 - 1,184 S.F. & 12 - 1,541 S.F. UNITS)
104 PARKING SPACES

PHASING PLAN SAKURA • NOVI

NOVI, MICHIGAN

Robert B. Aikens & ASSOCIATES, L.L.C.
350 N. Old Woodward Avenue, Suite 300
Birmingham, MI 48009 ph: 248-283-1071

WAH YEE ASSOCIATES
ARCHITECTS & PLANNERS
42400 GRAND RIVER AVENUE, SUITE 300
NOVI, MICHIGAN 48075
PHONE 248.489.9160
PROJECT NO. 5035

PRELIMINARY
NOT FOR CONSTRUCTION
CAD DWG 5035 P11 PHASING PLAN REVISED 10.2.19 DWG

ISSUED FOR
CONCEPT MEETING
FEB. 27, 2019
PRE-APP. MEETING
MAY 8, 2019
PRO. REZONING
JUNE 28, 2019
PRO. REZONING
REVISED SUBMITTAL
OCTOBER 2, 2019



TOTAL DEVELOPMENT SITE : 19 AC.

• PHASE 1	7.35 AC.
• PHASE 2	2.75 AC.
• PHASE 3	3.50 AC.
• ROBERTSON	4.50 AC.
• HOMES PARCEL (PHASE 1)	
• ECCO PARCEL	0.90 AC.
• GRANDFATHER I-1 USE	

PHASES 1 + 2 BASELINE OPTION + PHASE 3

PHASE 1 : COMMERCIAL BUILDING AREA : 90,817 S.F. G.L.A. 90,877 S.F. G.B.A.	PARKING PROVIDED = 335 SPACES
RESIDENTIAL DEVELOPMENT : 55 ONE CAR GARAGE UNITS, 13 TWO CAR GARAGE UNITS (68 TOTAL UNITS, ALL BEING 2 BEDROOM)	PARKING PROVIDED = 68 + 40 VISITOR SPACES = 108 SPACES
TOTAL PARKING PROVIDED = 443 SPACES PHASE 1	PARKING REQUIRED = 435 SPACES. *AS RECOMMENDED BY PARKING STUDY DATED 6-27-19
PHASE 2 : RESIDENTIAL DEVELOPMENT : 32 ONE CAR GARAGE UNITS, 30 TWO CAR GARAGE UNITS (62 TOTAL UNITS, ALL BEING 2 BEDROOM)	PARKING PROVIDED = 108 + 40 VISITOR SPACES = 148 SPACES
TOTAL PARKING PROVIDED = 148 SPACES PHASE 2	
PHASE 3 : RESIDENTIAL DEVELOPMENT : 40 ONE CAR GARAGE UNITS, 12 TWO CAR GARAGE UNITS (52 TOTAL UNITS, ALL BEING 2 BEDROOM)	PARKING PROVIDED = 52 + 40 VISITOR = 92 SPACES PROVIDED PHASE 3

- PHASE 1 USES :**
- 30,000 S.F. MARKET (25,000 S.F. + 3,500 S.F. MEZZ. OFFICE + 1,500 S.F. MEZZ. ADDITIONAL SEATING)
 - 5 RESTAURANTS
 - 4 RETAIL SPACE
 - 68 TOWN-HOME APARTMENTS (55 - 1,184 S.F. & 13 - 1,541 S.F. UNITS) 121 PARKING SPACES ± 19.2 UNITS PER ACRE
 - LIGHT INDUSTRIAL USE ECCO TOOL CO. PARCEL GRANDFATHERED IN

- PHASE 2 BASELINE OPTION RESIDENTIAL :**
- 70 TOWN-HOME APARTMENTS (32 - 1,184 S.F. & 38 - 1,541 S.F. UNITS) 148 PARKING SPACES

- PHASE 3 :**
- 52 TOWN-HOME APARTMENTS (40 - 1,184 S.F. & 12 - 1,541 S.F. UNITS) 104 PARKING SPACES

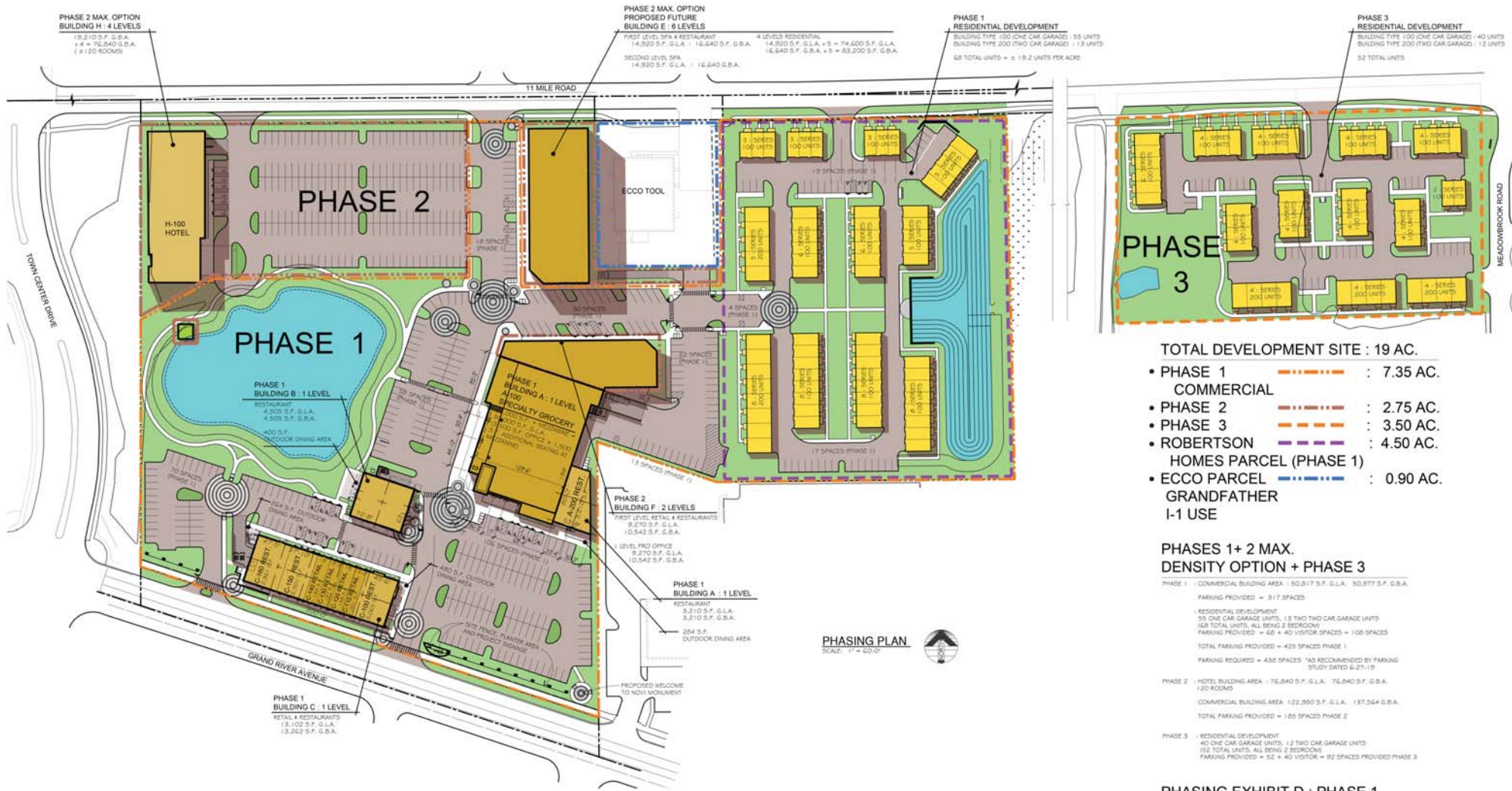
PHASING EXHIBIT E : PHASE 1 + 2 BASELINE OPTION + PHASE 3
SAKURA • NOVI

Robert B. Aikens & ASSOCIATES, L.L.C.
350 N. Old Woodward Avenue, Suite 300
Birmingham, MI 48009 ph: 248-283-1071

WAH YEE ASSOCIATES
ARCHITECTS & PLANNERS
4240 GRAND RIVER AVENUE, SUITE 200
NOVI, MICHIGAN 48375
PHONE: 248-489-9140
PROJECT NO. 3035

PRELIMINARY
NOT FOR CONSTRUCTION
CAD DWG E: PHASE 1 + 2 & 3 EXHIBIT 10-31-19 DWG

ISSUED FOR
CONCEPT MEETING
FEB. 27, 2019
PRELIM. MEETING
MAY 8, 2019
PRO REVISION
JUNE 26, 2019
PRO REVISION
REVISED SUBMITTAL
OCTOBER 2, 2019
PHASING EXHIBIT
NOVEMBER 1, 2019



TOTAL DEVELOPMENT SITE : 19 AC.

• PHASE 1	7.35 AC.
• PHASE 2	2.75 AC.
• PHASE 3	3.50 AC.
• ROBERTSON HOMES PARCEL (PHASE 1)	4.50 AC.
• ECCO PARCEL	0.90 AC.
• GRANDFATHER I-1 USE	

PHASES 1+2 MAX. DENSITY OPTION + PHASE 3

PHASE 1 : COMMERCIAL BUILDING AREA : 50,817 S.F. G.L.A. 50,877 S.F. G.S.A.
PARKING PROVIDED = 317 SPACES
RESIDENTIAL DEVELOPMENT : 55 ONE CAR GARAGE UNITS, 13 TWO TWO CAR GARAGE UNITS (68 TOTAL UNITS, ALL BEING 2 BEDROOM)
PARKING PROVIDED = 68 + 40 VISITOR SPACES = 108 SPACES
TOTAL PARKING PROVIDED = 425 SPACES PHASE 1
REQUIRED = 435 SPACES "NO RECOMMENDED BY PARKING STUDY DATED 6-27-19"
PHASE 2 : HOTEL BUILDING AREA : 76,840 S.F. G.L.A. 76,840 S.F. G.S.A. 120 ROOMS
COMMERCIAL BUILDING AREA : 122,350 S.F. G.L.A. 137,564 S.G.A.
TOTAL PARKING PROVIDED = 155 SPACES PHASE 2
PHASE 3 : RESIDENTIAL DEVELOPMENT : 40 ONE CAR GARAGE UNITS, 12 TWO CAR GARAGE UNITS (52 TOTAL UNITS, ALL BEING 2 BEDROOM)
PARKING PROVIDED = 52 + 40 VISITOR = 92 SPACES PROVIDED PHASE 3

- PHASE 1 USES :**
- 30,000 S.F. MARKET (25,000 S.F. + 3,500 S.F. MEZZ. OFFICE + 1,500 S.F. MEZZ. ADDITIONAL SEATING)
 - 5 RESTAURANTS
 - 4 RETAIL SPACE
 - 68 TOWN-HOME APARTMENTS (55 - 1,184 S.F. & 13 - 1,541 S.F. UNITS)
121 PARKING SPACES
± 19.2 UNITS PER ACRE
 - LIGHT INDUSTRIAL USE ECCO TOOL CO. PARCEL GRANDFATHERED IN

- PHASE 2 MAX. DENSITY OPTION POTENTIAL PHASE 2 USES :**
- BUILDING E PODIUM : 5,000 S.F. RESTAURANT (GROUND FLR.)
25,000 S.F. SPA (GROUND FLR. & 2ND FLR.)
48 RESIDENTIAL UNITS (FLR.S 3, 4, 5 & 6)
(16 - 1 BEDROOM & 32 - 2 BEDROOM UNITS)
 - BUILDING F : 3,000 S.F. RESTAURANT (GROUND FLR.)
6,000 S.F. RETAIL (GROUND FLR.)
10,000 S.F. MULTI-TENANT PRO OFFICE (2ND FLR.)
 - BUILDING H : 120 ROOM HOTEL

- PHASE 3 :**
- 52 TOWN-HOME APARTMENTS (40 - 1,184 S.F. & 12 - 1,541 S.F. UNITS)
104 PARKING SPACES

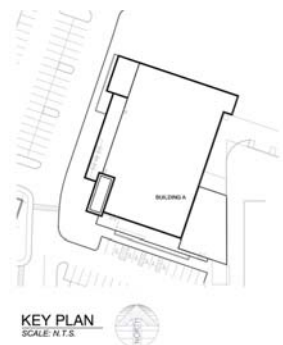
PHASING EXHIBIT D : PHASE 1 + 2 MAX. DENSITY OPTION + PHASE 3
SAKURA • NOVI

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Birmingham, MI 48009 ph: 248-283-1071

Wah Yee Associates Architects & Planners
4040 GRAND RIVER AVENUE, SUITE 200
NOVI, MICHIGAN 48037
PHONE: 248-489-9160
PROJECT NO. 3035

ISSUED FOR CONCEPT MEETING FEB. 27, 2019
PRELIMINARY
NOT FOR CONSTRUCTION
CAD DWG D. PHASE 1 + 2 MAX. DENSITY OPTION 10.31.19.DWG

ELEVATIONS



BR-1 Belden Gray Bricks Beacon Velour	FCP-1 Nichia VintageWood Cedar EPC762F	EIFS-1 Dryvit Commercial Cement Plaster PPG Gray Palomino 521-3
MTL-1 Alpolic Alpolic/PE CLR Anodized Clear	GFRC-1 ConcreteWorks East GFRC Wall Panels Cumulus G	



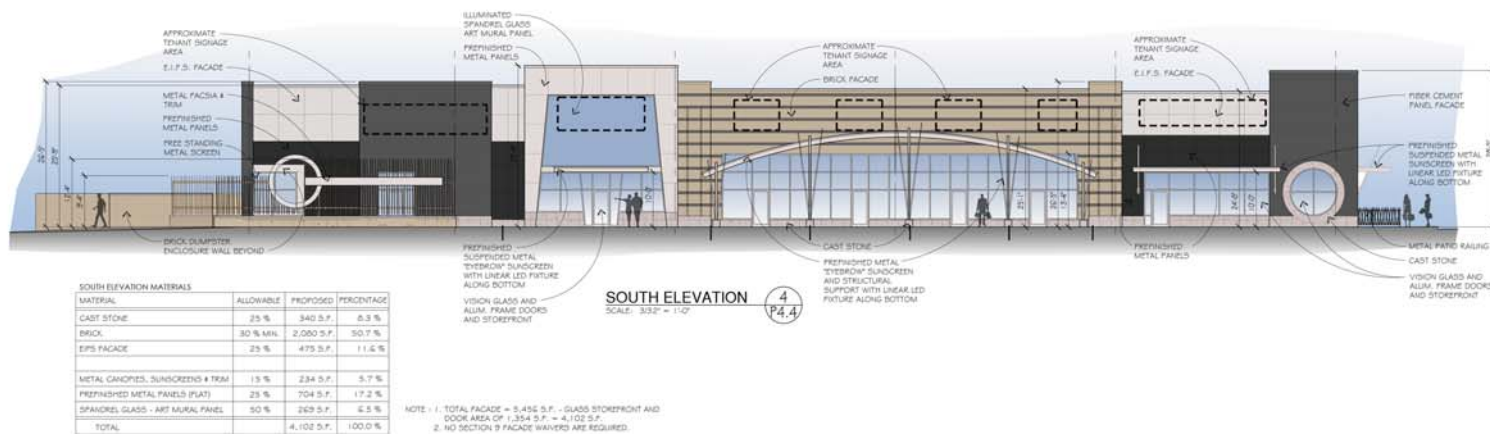
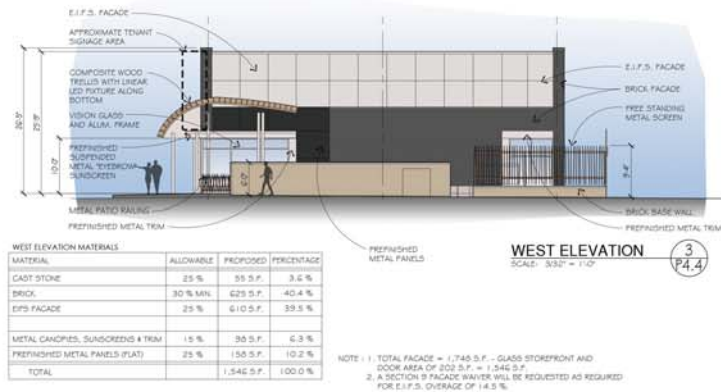
WEST ELEVATION MATERIALS			
TAG	DESCRIPTION	ALLOWABLE	PROPOSED
BR-1	BRICK	100 %	1,000 S.F.
MTL-1	FLAT METAL PANEL	20 %	100 S.F.
FCP-1	FIBER CEMENT PANELS (SUNSHINE)	20 %	200 S.F.
GFRC-1	G.F.R.C. CANTERBURY SYSTEM	20 %	400 S.F.
EIFS-1	EIFS & DRYVIT	20 %	1,100 S.F.
	AWARDING FABRIC OR MEMBRANE	10 %	110 S.F.
TOTAL			4,000 S.F.

A WEST ELEVATION
SCALE: 3/32" = 1'-0"

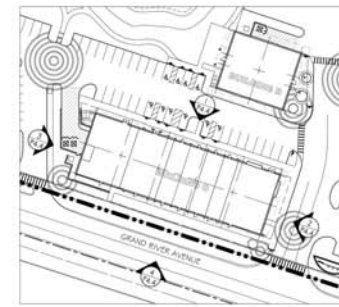


SOUTH ELEVATION MATERIALS			
TAG	DESCRIPTION	ALLOWABLE	PROPOSED
BR-1	BRICK	100 %	1,000 S.F.
MTL-1	FLAT METAL PANEL	20 %	200 S.F.
FCP-1	FIBER CEMENT PANELS (SUNSHINE)	20 %	1,100 S.F.
GFRC-1	G.F.R.C. CANTERBURY SYSTEM	20 %	400 S.F.
EIFS-1	EIFS & DRYVIT	20 %	470 S.F.
	AWARDING FABRIC OR MEMBRANE	10 %	200 S.F.
TOTAL			3,370 S.F.

B SOUTH ELEVATION
SCALE: 3/32" = 1'-0"



- GENERAL NOTES:**
- CANOPIES AND AWNINGS TO BE BY TENANTS
 - SUBJECT TO CHANGE FOR INDIVIDUAL TENANT REQUIREMENTS.
 - DOOR LOCATIONS SHOWN FOR CONCEPT ONLY SUBJECT TO CHANGE FOR INDIVIDUAL TENANT REQUIREMENTS.
 - ROOF TOP MECHANICAL EQUIPMENT TO BE SCREENED BY BUILDING PARAPETS OR SCREEN ENCLOSURES OF SIMILAR MATERIAL AND CHARACTER AS THE BUILDING.
 - ALL OUTDOOR PATIO / DINING AREAS SERVING ALCOHOL WILL BE ENCLOSED WITH A METAL RAISING SYSTEM.
 - OUTDOOR SEATING SHALL BE PERMITTED BETWEEN MARCH 1ST AND NOVEMBER 30TH, WITH ALL FURNITURE AND FIXTURES INCLUDING, BUT NOT LIMITED TO, TABLES, CHAIRS AND WASTE RECEPTACLES REMOVED FROM THE EXTERIOR PREMISES BY NOVEMBER 30TH. OUTDOOR SEATING SHALL NOT BE THE PRIMARY SEATING OF THE RESTAURANT.
 - SIGNAGE AREAS SHOWN FOR CONCEPT ONLY. ACTUAL SIGNAGE TO BE SUBMITTED ON A TENANT BY TENANT BASIS, IN CONFORMANCE WITH THE APPROVED PFD AGREEMENT.



KEY PLAN
SCALE: 6" = 1'-0"

BUILDING ELEVATIONS SAKURA NOVI

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**Wah Yee Associates
ARCHITECTS & PLANNERS**
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NOVI, MICHIGAN 48045
PHONE 248-489-9140
PROJECT NO. 3035

**PRELIMINARY
NOT FOR CONSTRUCTION**
(P4.4)

CAD DWG 5035.003X CONCEPT P4.4 30-19-2019



SOUTH ELEVATION
SCALE: 3/32" = 1'-0"

SOUTH ELEVATION MATERIALS			
MATERIAL	ALLOWABLE	PROPOSED	PERCENTAGE
CAST STONE	25 %	0.5 S.F.	0.0 %
BRICK	30 % MIN.	544.5 S.F.	34.5 %
EPS	25 %	180.5 S.F.	12.6 %
METAL CANOPIES & SUNSCREENS	15 %	30.5 S.F.	3.2 %
PREFINISHED METAL PANELS (PLAT)	25 %	704.5 S.F.	49.7 %
TOTAL		1,576.5 S.F.	100.0 %

NOTE: 1. TOTAL FACADE = 1,774 S.F. - GLASS STOREFRONT AND DOOR AREA OF 180 S.F. = 1,576 S.F.
2. A SECTION 9 FACADE WAIVER WILL BE REQUESTED AS REQUIRED FOR PREFINISHED METAL PANEL COVERAGE OF 24.7%.

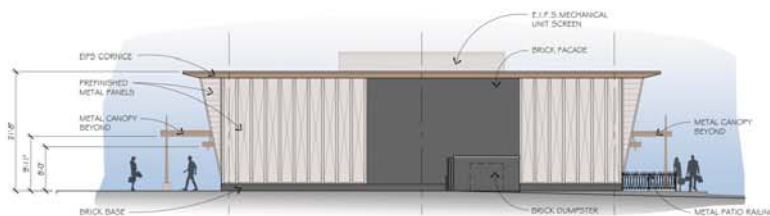


EAST ELEVATION
SCALE: 3/32" = 1'-0"

EAST ELEVATION MATERIALS			
MATERIAL	ALLOWABLE	PROPOSED	PERCENTAGE
CAST STONE	25 %	0.5 S.F.	0.0 %
BRICK	30 % MIN.	350.5 S.F.	26.7 %
EPS	25 %	207.5 S.F.	15.0 %
METAL CANOPIES & SUNSCREENS	15 %	65.5 S.F.	6.4 %
PREFINISHED METAL PANELS (PLAT)	25 %	670.5 S.F.	51.1 %
TOTAL		1,312.5 S.F.	100.0 %

NOTE: 1. TOTAL FACADE = 1,647 S.F. - GLASS STOREFRONT AND DOOR AREA OF 335 S.F. = 1,312 S.F.
2. A SECTION 9 FACADE WAIVER WILL BE REQUESTED AS REQUIRED FOR PREFINISHED METAL PANEL COVERAGE OF 26.1% AND BRICK SHORTAGE OF 3.3 %.

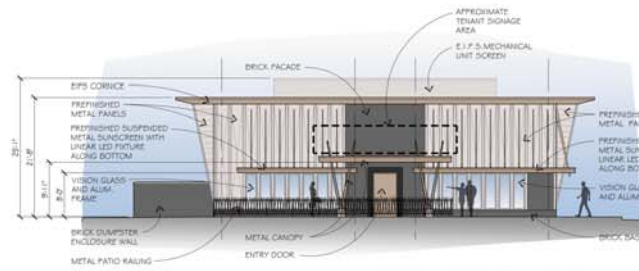
- GENERAL NOTES:
1. CANOPIES AND AWNINGS TO BE BY TENANTS SUBJECT TO CHANGE FOR INDIVIDUAL TENANT REQUIREMENTS.
 2. DOOR LOCATIONS SHOWN FOR CONCEPT ONLY SUBJECT TO CHANGE FOR INDIVIDUAL TENANT REQUIREMENTS.
 3. ROOF TOP MECHANICAL EQUIPMENT TO BE SCREENED BY BUILDING PARAPETS OR SCREEN ENCLOSURES OF SIMILAR MATERIAL AND CHARACTER AS THE BUILDING.
 4. ALL OUTDOOR PATIO / DINING AREAS SERVING ALCOHOL WILL BE ENCLOSED WITH A METAL RAILING SYSTEM.
 5. OUTDOOR SEATING SHALL BE PERMITTED BETWEEN MARCH 1ST AND NOVEMBER 30TH, WITH ALL FURNITURE AND FIXTURES INCLUDING, BUT NOT LIMITED TO, TABLES, CHAIRS AND WASTE RECEPTACLES REMOVED FROM THE EXTERIOR PREMISES BY NOVEMBER 30TH. OUTDOOR SEATING SHALL NOT BE THE PRIMARY SEATING OF THE RESTAURANT.
 6. SIGNAGE AREAS SHOWN FOR CONCEPT ONLY. ACTUAL SIGNAGE TO BE SUBMITTED ON A TENANT BY TENANT BASIS, IN CONFORMANCE WITH THE APPROVED PRO AGREEMENT.



NORTH ELEVATION
SCALE: 3/32" = 1'-0"

NORTH ELEVATION MATERIALS			
MATERIAL	ALLOWABLE	PROPOSED	PERCENTAGE
CAST STONE	25 %	0.5 S.F.	0.0 %
BRICK	30 % MIN.	421.5 S.F.	35.1 %
EPS	25 %	198.5 S.F.	11.2 %
METAL CANOPIES & SUNSCREENS	15 %	0.5 S.F.	0.0 %
PREFINISHED METAL PANELS (PLAT)	25 %	950.5 S.F.	53.7 %
TOTAL		1,729.5 S.F.	100.0 %

NOTE: 1. TOTAL FACADE = 1,729 S.F. - GLASS STOREFRONT AND DOOR AREA OF 0 S.F. = 1,729 S.F.
2. A SECTION 9 FACADE WAIVER WILL BE REQUESTED AS REQUIRED FOR PREFINISHED METAL PANEL COVERAGE OF 25.7 %.



WEST ELEVATION
SCALE: 3/32" = 1'-0"

WEST ELEVATION MATERIALS			
MATERIAL	ALLOWABLE	PROPOSED	PERCENTAGE
CAST STONE	25 %	0.5 S.F.	0.0 %
BRICK	30 % MIN.	418.5 S.F.	30.0 %
EPS CORNICE & FACADE	25 %	210.5 S.F.	15.1 %
METAL CANOPIES & SUNSCREENS	15 %	65.5 S.F.	6.1 %
PREFINISHED METAL PANELS (PLAT)	25 %	620.5 S.F.	48.8 %
TOTAL		1,335.5 S.F.	100.0 %

NOTE: 1. TOTAL FACADE = 1,664 S.F. - GLASS STOREFRONT AND DOOR AREA OF 271 S.F. = 1,393 S.F.
2. A SECTION 9 FACADE WAIVER WILL BE REQUESTED AS REQUIRED FOR PREFINISHED METAL PANEL COVERAGE OF 23.0 %.



KEY PLAN
SCALE: N.T.S.

BUILDING B ELEVATIONS SAKURA NOVI

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Wah Yee Associates
ARCHITECTS & PLANNERS
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NOVI, MICHIGAN 48205
PHONE: 248-489-9140
PROJECT NO. 5035

PRELIMINARY
NOT FOR CONSTRUCTION
P4.3

CAD DWG 5035 COLOR P4.3 9:30-19:20 DWG

ISSUED FOR
CONCEPT MEETING
FEB. 27, 2019
PRE-APP. MEETING
MAY 8, 2019
PRO REVISIONS
JUNE 26, 2019
PRO REVISIONS
REVISED SUBMITAL
SEPTEMBER 30, 2019

REAR ELEVATION

MATERIAL	ALLOWABLE	PROPOSED	PERCENTAGE
BRICK	100%	1,042 SF	41%
SIDING	0%	489 SF	24%
SHINGLES	25%	614 SF	23%
TRIM	15%	252 SF	10%
TOTAL		2,417 SF	100%



REAR ELEVATION
6 UNIT BUILDING

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

LEFT/ RIGHT ELEVATION

MATERIAL	ALLOWABLE	PROPOSED	PERCENTAGE
BRICK	100%	431 SF	53%
SIDING	0%	490 SF	41%
SHINGLES	25%	0 SF	0%
TRIM	15%	48 SF	6%
TOTAL		1,049 SF	100%



LEFT SIDE ELEVATION

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

RIGHT SIDE ELEVATION

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

FRONT ELEVATION

MATERIAL	ALLOWABLE	PROPOSED	PERCENTAGE
BRICK	100%	1,018 SF	38.5%
SIDING	0%	422 SF	23.5%
SHINGLES	25%	449 SF	17%
TRIM	15%	551 SF	21%
TOTAL		2,440 SF	100%



FRONT ELEVATION
6 UNIT BUILDING

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



BRYAN NEPPER ARCHITECTURE P.C.
DESIGN - PLANNING - INTERIORS
BLOOMFIELD HILLS, MICHIGAN
BRYANNEPPER.COM
248.259.1784

6 UNIT BUILDING
ELEVATIONS

ROBERTSON HOMES
SAKURA NOVI
TOWNHOME UNITS - "100 SERIES"
NOVI, MICHIGAN

PROJECT	9-27-19
REV	
REVISIONS	
DATE	10/01/2019
BY	BN / JF
CHECKED BY	
SHEET NUMBER	R-3





REAR ELEVATION
8 UNIT BUILDING

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

MATERIAL	ALLOWABLE	PROPOSED	PERCENTAGE
BRICK	100%	561 SF	15.5%
SIDING	0%	1,148 SF	41.5%
SHINGLES	25%	145 SF	20%
TRIM	15%	429 SF	17%
TOTAL		3,411 SF	100%

MATERIAL	ALLOWABLE	PROPOSED	PERCENTAGE
BRICK	100%	394 SF	37%
SIDING	0%	611 SF	58%
SHINGLES	25%	0 SF	0%
TRIM	15%	49 SF	5%
TOTAL		1,040 SF	100%

MATERIAL	ALLOWABLE	PROPOSED	PERCENTAGE
BRICK	100%	1,231 SF	33%
SIDING	0%	1,455 SF	39%
SHINGLES	25%	534 SF	14%
TRIM	15%	518 SF	14%
TOTAL		3,144 SF	100%



LEFT SIDE ELEVATION

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

RIGHT SIDE ELEVATION

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



FRONT ELEVATION
8 UNIT BUILDING

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



BRIAR NEEP ARCHITECTURE P.C.
DESIGN - PLANNING - INTERIORS
BLOOMFIELD HILLS, MICHIGAN
BRIARNEEP.COM
248.259.1784

**8 UNIT BUILDING
ELEVATIONS**

ROBERTSON HOMES
SAKURA NOVI
TOWNHOME UNITS - "200 SERIES"
NOVI, MICHIGAN

CURRENT PROJECT

PREPARED BY

DATE

PROJECT

SCALE

REVISIONS

REVISIONS

REVISIONS

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R-6

PLANNING REVIEW



PLAN REVIEW CENTER REPORT

November 4, 2019

Planning Review

Sakura Way PRO

JZ 19-31 with Rezoning 18.732

PETITIONER

Sakura Novi, LLC

REVIEW TYPE

Revised: Rezoning Request from OSC (Office Service Commercial), OS-1 (Office Service), and I-1 (Light Industrial) to TC-1 (Town Center - 1) with a Planned Rezoning Overlay (PRO)

PROPERTY CHARACTERISTICS

Section	23	
Site Location	Parcel Ids: 22-23-126-006, 22-23-126-011, 22-23-226-007, 22-23-226-008, 22-23-226-021, 22-23-226-022 North of Grand River Avenue and south of Eleven Mile Road, east of Town	
Site School	Novi Community School District	
Current Site Zoning	OSC (Office Service Commercial), OS-1 (Office Service), and I-1 (Light Industrial)	
Proposed Site	TC-1: Town Center - 1	
Adjoining Zoning	North	OSC: Office Service Commercial and I-1: Light Industrial
	East	B-3: General Business and I-1: Light Industrial
	West	TC: Town Center
	South	TC-1: Town Center - 1
Current Site Use	Vacant; Temporary City Vehicle Storage; Tool & Die shop	
Adjoining Uses	North	Novi Oaks Hotels
	East	Retail/Restaurants
	West	Industrial Office
	South	Industrial Office
Site Size	15.59 Acres	
Plan Date	October 2, 2019	

PROJECT SUMMARY

The applicant is proposing to develop the property as an Asian-themed mixed-use development with access points off of Grand River Avenue and Eleven Mile Road. The first phase of the development proposes a Japanese grocery and food hall concept as the central tenant and anchor. Two additional buildings would contain additional Asian restaurants and retail spaces. Sixty-eight multifamily residential rental units in attached townhome buildings would be located on the eastern portion of the site with access to Eleven Mile Road. For clarity, we refer throughout our review to the commercial portion as Phase 1A and the residential portion as Phase 1B. The existing pond on the west side of the site would serve as a focal point and public gathering space, to be enhanced with Japanese gardens and a walkway around the perimeter.

The revised PRO Concept Plan and narrative presents two options for possible development in Phase 2 of the project and states that what gets built will be "fully dependent on market forces." In

the “Baseline” scenario, the Phase 2 land area would be developed with 70 townhome units matching the form and style of those proposed for Phase 1B. The Phase 2 “Maximum Density Option” would contain 4 additional buildings, ranging in height from 2 stories to 6 stories, and uses ranging from hotel or senior living, office, retail, restaurant, personal service, and mid-rise residential, among other potential uses. This option also envisions a parking garage to accommodate the parking requirements, although the developer does not commit to building or funding the parking garage themselves. In several places it is referred to as the “City parking structure.”

The revised submittal also adds a Phase 3 to the PRO Concept Plan, which would be located on a 3.5-acre non-contiguous parcel to the east along Eleven Mile Road. The plans show Phase 3 to be developed with 52 townhome units matching the form and style of those proposed for Phase 1B.

The table below lists the prospective uses for each building based on the information provided by the applicant.

Building/Area	Size (GLA)	Proposed Height	Proposed Use Category
Phase 1A			
Building A	33,210 sf		Retail, restaurant
Building B	4,505 sf	1 story	Restaurant
Building C	13,102 sf	1 story	Restaurant, retail
Phase 1B			
Attached townhomes	68 two-bedroom units	30 ft 8 in (3 story)	Multifamily residential units
Phase 2 “Baseline”			
Attached townhomes	70 two-bedroom units	30 ft 8 in (3 story)	Multifamily residential units
Phase 2 “Max Density”			
Building E	89,520 sf	6 stories	Restaurant + Spa (2 floors) Residential (32 2-bed units, 16 1-bed units) (Floors 3-6)
Building F	18,540 sf	2 stories	Retail, restaurant, office
Building G	60,605 sf	5 stories	Retail, restaurant, office
Building H	76,840 sf	4 stories	Hotel
Phase 3			
Attached townhomes	52 two-bedroom units	30 ft 8 in (3 story)	Multifamily residential units

PROJECT REVIEW HISTORY

The applicant submitted for a Pre-Application Meeting, which was held on May 8, 2019. Staff indicated that the proposed rezoning would require additional details for the PRO Concept Plan submittal and identified deviations from the ordinance requirements based on the plans provided.

The applicant submitted their PRO Concept Plan on July 1, 2019. Staff reviewed the plans and provided comments on July 29. Several of the reviews were not recommending approval of the PRO Concept Plan. There were a number of items that needed to be clarified and further information was requested for review. Staff met with the applicant on July 25 to discuss the

comments and concerns. It was agreed that further revisions would be required before the PRO Concept Plan could be presented to the Master Planning & Zoning Committee and the Planning Commission.

On October 3, the applicant submitted revised plans to respond to the previous round of comments. In addition to presenting two possible development scenarios for Phase 2 of the project, the plans also add a Phase 3 component involving two parcels that are not contiguous to the main project area.

It has come to our attention that the purchase agreement and the amendments to that agreement with the City of Novi specify which parcels are permitted to be included in the PRO Agreement with the City. Therefore it appears the Phase 3 parcels have not been authorized to be part of this process at this time, and further amendment of the purchase agreement would be required to do so. Although the reviewers have addressed the Phase 3 component in their comments, the lack of specific details for this area has limited the ability to provide a full evaluation. We have only received one notarized authorization of the two current property owners that gives permission to rezone the property.

PRO OPTION

The PRO option creates a “floating district” with a conceptual plan attached to the rezoning of a parcel. As part of the PRO, the underlying zoning is proposed to be changed (in this case from OSC, OS-1, and I-1 to TC-1) and the applicant enters into a PRO agreement with the City, whereby the applicant submits a conceptual plan for development of the site. The City Council reviews the Concept Plan, and if the plan may be acceptable, it directs for preparation of an agreement between the City and the applicant, which also requires City Council approval. Following final approval of the PRO concept plan and PRO agreement, the applicant will submit for Preliminary and Final Site Plan approval under standard site plan review procedures. The PRO runs with the land, so future owners, successors, or assignees are bound by the terms of the agreement, absent modification by the City of Novi. If the development has not begun within two (2) years, the rezoning and PRO concept plan expires and the agreement becomes void.

RECOMMENDATION

Recommendation removed on purpose



COMMENTS

It is staff's opinion that the proposed rezoning district of TC-1, Town Center-1 may be a reasonable alternative for the Phase 1 & 2 properties, and is largely supported by the recommendations in the Master Plan and the Town Center Study. The project represents an exciting opportunity to highlight the cultural diversity of Novi and add a vibrant destination in the Town Center area. The integration of residential uses will provide an attractive living option for residents interested in a walkable community context, including millennials and older adults. However, Phase 2 of the Concept plan lacks critical details and there is too much conflicting information for Planning Staff to be able to support the request without further refinement of the plans. Some of the concerns are as follows:

1. At the time of the pre-application meeting, staff asked the applicant to provide proposed parcel lines on the plans in order to fully evaluate deviations that will be required. The revised PRO Concept Plan submittal now shows a future lot line for the residential portion. However, it is unclear whether the Phase 2 area has separate parcel lines, which makes it impossible to determine building and parking setbacks. **The applicant should confirm whether this is the intent, as creating parcels in the future will be problematic if setbacks and other ordinance requirements would not be met. If parcel lines will be created, they must be shown and clearly labeled on the plans. In addition, all building and parking setbacks shall be dimensioned clearly.**
2. The project narrative submitted indicates that the Ecco Tool property would be included in the rezoning to TC-1, and would remain as a non-conforming use. The Ecco Tool property owner has provided a notarized letter indicating they consent to the rezoning, and must be a signatory to the PRO Agreement as they will be subject to its terms and conditions under a PRO approval to TC-1. If rezoned to TC-1, the existing tool & die shop would be subject to the Zoning Ordinance conditions for non-conforming uses in Section 7.1, which permits such uses to "continue until they are removed but not to encourage their survival." This would prohibit the use from being enlarged or increased, "nor extended to occupy a greater area of land."
3. The applicant has submitted a Rezoning Sign Location Plan, as required for rezoning, however revisions are needed to the sign locations. **The sign indicated on parcel 22-23-226-042 shall be removed. This is a City-owned parcel that is not included in the PRO submittal. Signs are not required on each parcel, only each frontage. Contiguous parcels of the same zoning may share one sign.**
4. The revised PRO Concept plan includes two possible development scenarios for Phase 2 uses: a "Baseline" option with 70 townhome units, and a "Maximum Density" option with a mix of hotel, office, retail, restaurant, and residential uses. Each scenario will require a different set of deviations and could result in very different public benefits and conditions offered for Phase 2.
5. The City's Future Land Use map indicates Town Center Gateway, which allows most of the uses proposed such as office, retail and restaurant. The GE district allows additional uses, like multifamily residential, under a Special Development Option process. The 2016 Master Plan Update identified the Anglin Property as one of three sites within the city where redevelopment is desired. The uses recommended by the Master Plan include multi-family and townhome residential, limited commercial uses, and office uses along Grand River. The plan recommends the property be rezoned to TC - Town Center. The plan notes that "It may be necessary to amend the TC district to fully incorporate creative attached residential alternatives and ensure that reduced setback recommendations are reflected in the district standards." The Master Plan does not envision the parcels would be developed under the

existing zoning categories. Because the applicant's requested zoning category, TC-1, is not consistent with the Master Plans' recommendation, the applicant would benefit from presenting the project to the Master Plan and Zoning Committee of the Planning Commission to receive further comment.

The proposed uses and the rezoning category could therefore be acceptable alternative to the current zoning, but the proposed Concept Plan does not conform to multiple requirements of the Ordinance. Staff believes that the applicant should take the opportunity to modify the plan to meet the intent of TC-1 district and note the following for applicant's consideration:

1. **TOWN CENTER AREA STUDY & MASTER PLAN:** The property's proximity to the surrounding retail, restaurants and hotels could make the proposed rezoning category appropriate and integrate the site into the vision described in the Town Center Study and Master Plan. The applicant should be able to refine the site layout to reduce the number of deviations requested. Town Center area study offers the following recommendations for the Anglin Area:
 - a. Serve as the eastern "gateway" into the Grand River/Novi Road Business and Main Street Areas.
 - b. A wide variety of permitted uses and pedestrian-oriented form will activate the area and provide a logical entranceway.
 - c. Preferred land uses include retail, professional offices, research & technology uses.
 - d. Other land uses to be considered: personal service establishments, municipal services, and restaurants.
 - e. Future development should utilize the existing pond as a site amenity.
 - f. Buildings along Grand River should be pedestrian oriented with reduced front setbacks. Pedestrian paths should connect to the Town Center, Grand-River/ Novi Road Business, Hotel/Office and Main Street Areas. The pond and wetland area should be used as a focal point for the new commercial or office space. This green space could also be used to host community events, and the pond used as an outdoor ice rink.
 - g. Create stronger, meaningful associations between businesses and Grand River, such as restaurant patios, new construction sited at lot line, or amenities carefully placed. Create opportunities for pedestrians to pause as they cross Grand River by shortening the distance they have to walk. Use pedestrian refuge islands in the center or bump-outs at the sides.
2. **DESIGN AND LAYOUT CONCERNS:** The current layout appears to offer a walkable development with a unique mix of uses and could create a vibrant destination in the Town Center area of Novi. However, the applicant must consider:
 - a. The City's emergency apparatus must be able to fully access the entire site, as well as delivery vehicles accessing the loading areas. Provide a plan showing truck turning movements are possible throughout the site (including all loading/service areas, and 50' outside, 30' inside turning radius in the residential portion). Removal of some units may be necessary to provide the required dimensions in the interest of public safety. **The Fire Review continues to indicate issues with turning radii in the residential portion of Phase 1B. These issues are not considered eligible for deviations as they are health and safety concerns. Widening the drive lanes to the appropriate ordinance standards could help resolve this problem. (Phase 1B)**
 - b. If the Ecco Tool property will continue to operate indefinitely as a non-conforming use, the residential units adjacent to the site must have appropriate protections from any negative impacts. Provide a noise impact study at the time of Preliminary Site Plan to determine if ordinance performance standards will be exceeded. Provide any necessary mitigation measures if required. (Phase 1B)

- c. The location of loading/unloading areas for buildings G and H will interfere with traffic entering the site (Bldg H) or adjacent parking spaces (Bldg G). (Phase 2 Max. Development Scenario)
 - d. Redesign of the Phase 2 Maximum Density Scenario layout should be explored. The proposed parking garage seems to create a barrier in the middle of the site, pinning Building H into a corner and limiting the options for the driveway and loading areas. The garage also blocks views into the site from 11 Mile Road. The applicant could consider wrapping the parking garage with other buildings to provide better integration of the site. (Phase 2 Max. Development Scenario)
 - e. The vinyl siding proposed for residential townhouse buildings is not a material permitted by the Façade Ordinance. **The applicant must revise the material to Cement Fiber siding in order to gain support for the Section 9 façade waiver required by the overage of siding material on the residential buildings.** See Façade letter for more details. (Phase 1B, Phase 2 Baseline, and Phase 3)
 - f. The Phase 2 Baseline scenario would create a much more heavily residential project, with a limited amount of restaurant and retail in Phase 1A. This balance of uses may discourage some users from visiting the site if it is perceived as a neighborhood gathering spot rather than a vibrant cultural destination that is large enough to support a regional draw. (*Phase 2 Baseline*)
3. **INTENT OF THE TC-1 DISTRICT:** As stated in Sec. 3.1.26.A., *'The TC-1, Town Center district is designed and intended to promote the development of a pedestrian accessible, commercial service district in which a variety of retail, commercial, office, civic and residential uses are permitted'*. The proposed uses (with the exception of Ecco Tool) are all principal permitted uses which align with the intent of TC-1, Town Center-1 district. **However the balance of uses developed will impact whether the area is seen as a mixed-use commercial service district with a residential component, or a residential neighborhood with a restaurant and retail component.**
4. **OFF-STREET PARKING LOTS FOR SEPARATE USES:** *'The TC-1 Town Center district is further designed and intended to discourage the development of separate off-street parking facilities for each individual use, and to encourage the development of off-street parking facilities designed to accommodate the needs of several individual uses'*. The proposed concept plan depicts the parking lots shared among the uses throughout the site, and the applicant has provided a shared parking study. **Staff supports the opportunity to reduce parking through a shared parking arrangement, supported by the shared parking study. This strategy allows additional space for public gathering or usable open space, and to reduce deviations.**
5. **PUBLIC BENEFITS:** The list of public benefits provided by the applicant is reviewed in detail later in this review. Several of the benefits listed are requirements under the Zoning Ordinance, and would be expected with any development in the city, or could be achieved through a traditional rezoning process. Others require additional information in order to be evaluated. **The applicant should continue to refine the list of benefits. Off-site benefits can also be considered. The Town Center Study and Grand River Corridor study in the 2016 Master Plan may have additional ideas for the applicant to consider, such as providing an enhanced pedestrian crossing of Grand River.**
6. **DEVIATIONS:** Five of the original deviations requested have been removed due to modifications of the plans. The applicant has provided a list of 23 remaining deviations with some additional details, as well as justifications. The applicant is asked to continue to revise the list based on staff's comments provided in this letter. **Some of the deviations require more specific details about the deviation requested. Without those specifics, staff cannot endorse open-ended deviations—for example, some of the sign-ordinance related**

requirements and no open space requirement for Phase 2. Limits must be placed on the extent of the deviations for the Planning Commission and City Council to have a clear understanding of the difference between the proposal and the ordinance standards.

7. **FUTURE SITE PLAN REVIEWS:** The proposed development is an ambitious project that will require a carefully laid out implementation plan. Until all construction is completed, the impacts of construction traffic to the surrounding areas/businesses are hard to contemplate. The narrative from the applicant indicates a tentative Grand Opening of Phase 1 approximately 2 years from purchase of the property. **The applicant should consider adding a tentative completion date for each phase as a condition for the PRO agreement.**

Since the development will be tied to PRO plan, when Phase 2 and Phase 3 site plans are submitted for review, they are expected to conform to the code requirements for all items that are not regulated by the approved deviations and conditions within the PRO Agreement. For these reasons, **it is vital for staff to have a clear understanding of what is being proposed at this time in order to provide clarity for future reviews. The applicant should provide the intent to address possible or anticipated future deviations if they are not requested at this time.**

COMPARISON OF ZONING DISTRICTS

The following table provides a comparison of the current (OS-1 and OSC) and proposed (TC-1) zoning classifications.

	OS-1, OSC and I-1 Zoning (Existing)	TC-1 (Proposed)
Intent	The OS-1 district is intended for community office uses. The OSC District is intended for large office buildings or office complexes with related commercial retail and service establishments. The I-1 District is intended for research, office and light industrial uses while protecting residential districts from adverse impacts.	The TC-1, Town Center -1 district is designed and intended to promote the development of a pedestrian accessible, commercial service district in which a variety of retail, commercial, office, civic and residential uses are permitted.
Principal Permitted Uses	See attached copy of Section 3.1.21.B for OS-1 uses, Section 3.1.22.B for OSC uses, and 3.1.18.B for I-1 uses Professional and medical offices and personal service establishments are allowed in OS-1 and OSC districts. OSC district also permits hotels Tool & Die shop permitted use in I-1 District	See attached copy of Section 3.1.26.B All of the proposed uses are permitted except the existing tool & die shop that will remain.
Special Land Uses	See attached copy of Section 3.1.21.C for OS-1 uses, Section 3.1.22.C for OSC uses, and 3.1.18.C for I-1 uses OSC permits retail commercial and sit-down restaurants as part of an office complex with Special Land Use approval	See attached copy of Section 3.1.26.C
Minimum Lot Size	Section 3.6.2.D determined by lot layout	Sec. 3.6.2.D determined by lot layout
Maximum Lot Coverage		
Building Height	OS-1: 30 feet OSC: 65 ft or 5 stories I-1: 40 feet	65 feet or 5 stories whichever is less** (exception in Section 3.27.2.A)

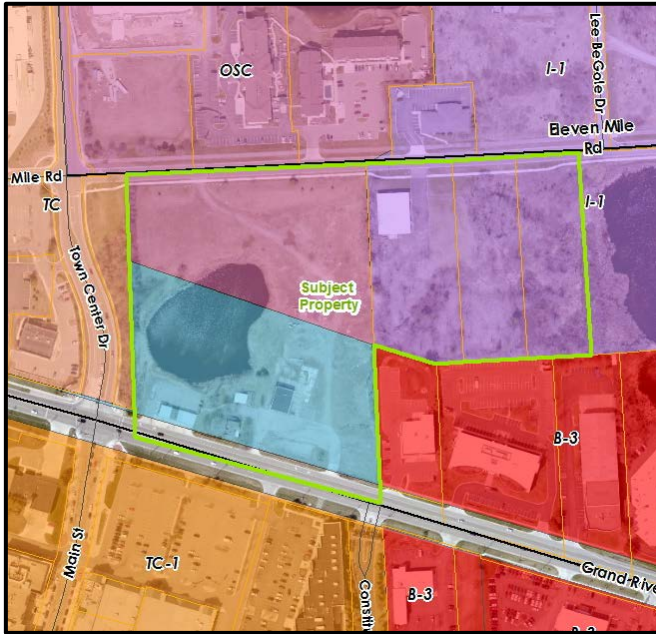
	OS-1, OSC and I-1 Zoning (Existing)	TC-1 (Proposed)
Building Setbacks	OS-1: 20 ft. front and rear, 15 ft side OSC: 35 ft from all sides I-1: 40 ft front, 20 ft side and rear	Sec. 3.27.1.C Depends on type of road frontage; Grand River is an arterial while 11 Mill is classified a non-residential collector; GRA: Front: 80-137 ft from centerline; Side and rear: 50 feet 11 Mile: Front: 0 ft. minimum; 10 feet maximum Side and rear: 0 feet minimum; no maximum
Usable Open Space	Not Applicable	200 sq. ft. Minimum usable open space per dwelling unit 15% gross open space
Minimum Square Footage	Not Applicable	Not Applicable

COMPATIBILITY WITH SURROUNDING LAND USE

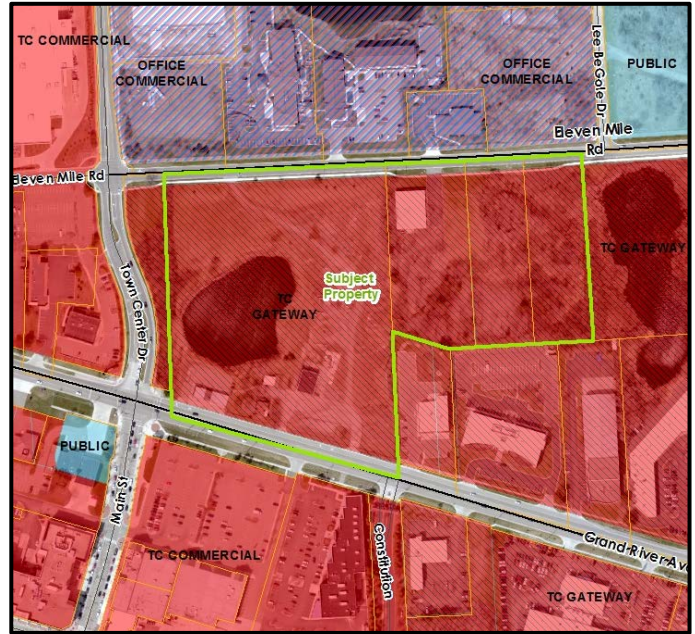
The following table summarizes the zoning and land use status for the subject property and surrounding properties for the Phase 1 and 2 portion of the project. As it is not contiguous, Phase 3 is covered in the subsequent section. The compatibility of the proposed rezoning with the zoning and uses on the adjacent properties should be considered by the Planning Commission in making the recommendation to City Council on the rezoning request.

PHASES 1 & 2

	Existing Zoning	Existing Land Use	Master Plan Land Use Designation
Subject Property	Current: OS-1, OSC, and I-1	Vacant/Former car wash/Tool & Die shop	Town Center Gateway (uses consistent with Gateway East Zoning District)
Western Parcels	TC Town Center	Retail/Restaurants	TC Commercial (uses consistent with TC Zoning District)
Eastern Parcels	I-1 Light Industrial and B-3 General Business	11 Mile frontage: Vacant/Wetland GR frontage: Retail Auto parts	Town Center Gateway (uses consistent with Gateway East Zoning District)
Northern Parcels	OSC and I-1	Hotels, Day Care Center, Office building	Office Commercial (uses consistent with OSC Zoning District)
Southern Parcels	TC-1	Main Street retail and restaurants	TC Commercial (uses consistent with TC and TC-1 Zoning Districts)



Zoning



Future Land Use

The subject property for Phases 1 and 2 of the proposed project has frontage along both Grand River Avenue and Eleven Mile Road. The site location provides good connectivity to adjoining properties to north, west and south.

Novi Town Center, located to the **west and northwest**, is a well-established retail center with Walmart as the biggest retail store. There are many restaurants within the center, both sit-down and fast casual, as well.

To the **north** are two older hotel/extended stay properties, as well as a new hotel and child care center developed recently. North of the residential portion of the project is a vacant parcel zoned I-1. This parcel could be developed with uses that could have a negative impact on residential uses. The I-1 district does restrict the uses permitted when there are residential uses adjacent, which would be examined in the site plan approval process if development is proposed at that location. Just east of the residential portion is Lee BeGole drive, which provides access to the City's Department of Public Works facilities, including the maintenance vehicle fleet that is stored there. The existing heavy vehicle traffic could present an undesirable impact if the proposed residential units are built nearby.



Existing Land Use in the Vicinity

South of the residential portion is an area zoned B-3 developed with an auto parts store and office uses. The parking lots of one of the office buildings will be very close to the property line.

Existing land use patterns indicate a concentration of retail and restaurants to the northwest, west and south, with some residential to the south of Grand River Avenue. North of the property are several hotels and office buildings, as well as a recently developed child care center. **The subject property is an ideal candidate for redevelopment.** It is currently zoned as OS-1 (Office Service), OSC (Office Service Commercial), and I-1 (Light Industrial). The Anglin property formerly was the site of a car wash and a garden center until about 2012, and was purchased by the City in 2016. There are a few small buildings on the property along Grand River – one has recently been occupied by the City’s maintenance division while their facility on Lee BeGole Drive was under renovation.

It is evident that the proposed Phase 2 Max Density Scenario that includes taller buildings up to 6 stories with unique uses and architectural styles is going to change the existing streetscape dramatically along this portion of Grand River and Eleven Mile Road. The taller buildings proposed would be closer to 11 Mile, with those along Grand River proposed as 1- to 2-story structures. Other buildings in this area range in height from approximately 2-5 stories in height. The applicant is proposing a unified landscape and hardscape design throughout the site to tie the development together.

PHASE 3

	Existing Zoning	Existing Land Use	Master Plan Land Use Designation
Subject Property	I-1 Light Industrial	Vacant	Town Center Gateway (uses consistent with Gateway East Zoning District)
Western Parcels	I-1 Light Industrial	Vacant – City-owned property, contains wetland	Town Center Gateway + Planned N/S road extension to connect Grand River to Lee BeGole Drive
Eastern Parcels	I-1 Light Industrial	Office; Vacant office pad site	Light Industrial
Northern Parcels	I-1 Light Industrial	Partially vacant, City Department of Public Works	Public Facilities (City facilities)
Southern Parcels	I-1 Light Industrial	Cell tower site	Town Center Gateway (uses consistent with Gateway East Zoning District)

The subject property for Phase 3 of the proposed project has frontage along Eleven Mile Road.

To the **north** is a large City-owned parcel, zoned I-1, which contains the recently renovated Department of Public Works building and Gun Range. The city’s maintenance vehicle fleet is stored there.

To the **west** of Phase 3 is an area zoned I-1 Light Industrial separating the site from the larger Sakura Novi site of Phase 1 and 2. The City-owned parcel is currently vacant and contains a large area of wetland. The Master Plan indicates a future north-south road connection is planned to be developed to connect Lee BeGole Drive to Grand River Avenue in this area. If the planned roadway is constructed the maintenance vehicle traffic could present an undesirable impact on the proposed residential units in Phase 3.

South of Phase 3 is an area zoned I-1 Light Industrial which is largely vacant except for a cell tower. The health impacts of living near a cell tower may be a concern to some residents, which may

impact the desirability of these units. (The American Cancer Society website indicates it is unlikely that living near such towers would increase cancer risk. The International Agency for Research on Cancer, the National Toxicology Program, and the US Environmental Protection Agency (EPA) have not classified cell phone towers specifically as to their cancer-causing potential.)

To the **east** of Phase 3 is an area zoned I-1 Light Industrial. There is an office complex there with two existing buildings, with a third building approved to be constructed. There is no firm timeline on when that building would be constructed. This area is planned to remain Light Industrial use in the City's Master Plan. If residential uses are located adjacent to the property, the uses permitted in the I-1 district would be severely restricted compared to the list of uses that could otherwise be permitted. In addition, there is no berm separating the properties, as is required when non-residential uses are adjacent to residential uses. It would be the applicant's responsibility to provide the required berm and screening on the parcel to be developed with residential uses. No such berm is currently proposed

The proposed residential use in the Phase 3 area would be surrounded on all sides by industrially zoned properties. There is no obvious connection to the larger Sakura Novi development, except for the sidewalk along 11 Mile Road and identical townhouse product type to be developed. The lack of contiguity to the rest of the project may present a legal issue (is that permitted?) as well as a conceptual one. In addition, locating residential uses here would constrain the future development of each of the parcels surrounding it. Additionally, existing uses in the area may present undesirable conditions for new residents of the development, potentially creating a situation of incompatible land uses. The applicant has also not provided enough detail to adequately review the proposed plans for the area, including showing the necessary buffers from industrially zoned properties, landscaping plans, wetland and woodland impacts, grading, utility and stormwater management details. The public benefit to including this additional property also requires further definition by the applicant/developer.



DEVELOPMENT POTENTIAL: ALL THREE PHASES

For the western portion of the project, the current zoning of OS-1 and OSC (9.9 acres) both allow professional and medical offices, personal service establishments, and off street parking lots as permitted uses. OSC also permits hotels, as well as retail and restaurant uses as Special Land Uses. On the parcels zoned I-1, professional and medical office buildings are also permitted, as are research and development, manufacturing, pet boarding, veterinary clinics when not adjacent to residential uses. In total, the Phase 1 & 2 site measures over 15 acres (excluding the Right of Way), of which approximately 2 acres are covered by regulated wetlands. This leaves about 13 acres of contiguous land for development. **The redevelopment potential for the site using the current zoning is entirely possible, given the flexibility that the current zoning districts afford. However that potential has not been pursued seriously by any developer in recent years. In addition, the Master Plan indicates a broader vision for the future development of the area, and recommends a mix of residential, commercial, and office uses which is not achievable under the current zoning district.**

The Phase 3 site measures approximately 3.5 acres, with a small area of wetland in the southwest corner. The development potential for this site is likewise entirely possible under the I-1 zoning district. Since there are no adjacent residential uses present, the site would not be restricted in uses permitted in the I-1 district.

The Future Land Use map recommends Town Center Gateway (Gateway East GE) uses of the site. The GE District allows most of the uses such as professional offices, sit-down restaurants and retail and retail service uses as permitted uses. The GE district allows additional uses, like multifamily residential, under a Special Development Option process.

Although significant opportunities exist to develop the property both as zoned (Office uses primarily and Light Industrial) and as master planned (TC or Gateway East uses), it is staff's opinion that the proposed rezoning to Town Center-1 district is a reasonable alternative and fulfills the intent of the Master Plan recommendation for the Phase 1 and 2 uses proposed, subject to finalizing a Concept plan and PRO Agreement that confirm the benefits to the public required by the zoning ordinance.

For Phase 3, the rezoning to TC-1 is more difficult to justify since it will be surrounded on all sides by I-1 Light Industrial zoning and not connected in a meaningful way to the mixed use district of the larger Sakura Way. In essence this portion could be considered spot zoning as it is not consistent with the Master Plan, would result in incompatible land uses, and would also create hardships on future development of the surrounding parcels by limiting the by-right uses that could be developed. The intent of the TC-1 district does not match what is being proposed for this small area. Further, it is staff's understanding that the Purchase Agreement made no mention of adding this property to the proposed PRO Concept Plan and Agreement. Finally, the lack of contiguity with the other parcels may present an issue under the state zoning laws.

REVIEW CONCERNS

ENGINEERING: The requested rezoning to Town Center-1 will result in utility demands that are approximately equal to the utility demand if the property were to be redeveloped under the current OS-1, OSC zoning and I-1 zoning. The Concept Plans for Phases 1 and 2 meet the general requirements of the City's design and construction standards, Storm Water Management ordinance, and Engineering Design Manual. Additional details will be needed in the site plan approval process. No storm water management information has been provided for Phase 3, and those plans do not meet the general requirements. **Please refer to Engineering review letter for more details.**

LANDSCAPING: The Landscape review has identified significant deviations from ordinance standards. For Phase 1, 9 deviations are required, only 3 of which are supported by staff. For Phase 2, from the information provided it appears two deviations are required, however detailed design and layout may reveal additional waivers may be needed. There was no landscaping plan

provided for Phase 3, so it is assumed that the plans will meet all landscape requirements, or the PRO Agreement would be amended at that time. **Please refer to Landscape review letter for more details.**

TRAFFIC: Based on the initial results of a Traffic Study submitted by the applicant, the development will increase traffic on Grand River by 15%. The City's consultants, in a 2018 traffic study of the area, identified two improvements that would be needed to maintain acceptable levels of service in the vicinity of this project: 1) widening Grand River Avenue to 5 lanes between Meadowbrook Road and Novi Road, and 2) Installing a right-turn overlap phasing for northbound Main Street and southbound Town Center Drive approaches at their intersection of Grand River. The applicant has submitted a Rezoning Traffic Statement and Traffic Impact Study as required. The intersection of Main Street/Town Center Drive and Grand River currently operates under congested conditions, and the Sakura Novi development is expected to increase traffic by 15%. The applicant does not propose to provide the improvements recommended by the City's study, as they state the improvements are necessary regardless of the development they are proposing. Based on the analysis provided, a right turn taper lane is required per City ordinance. However the applicant is not proposing this right turn taper lane. **Please refer to Traffic review letter for more details.**

WOODLANDS: Based on the Tree Protection Plan Sheets T-1.0 and Tree List T-1.1, there appear to be a total of 275 surveyed trees on the Phase 1 & 2 site. Of these, plan sheet L101 indicates 101 trees will be removed (37%), which would require 197 replacement credits. However, the Woodland review letter notes that the applicant has excluded certain trees from the count due to "condition," which is not a provision of the Woodland Ordinance. Without exemptions for those trees, the total number of trees to be removed is 184, with required Woodland Replacement credits totaling 341. This discrepancy should be corrected in future submittals. No Tree Survey has been included for the Phase 3 area of the project.

If the project proceeds forward, we would anticipate any trees on the site that are subject to regulation of the Woodland Ordinance would be accounted for in the tree credit requirements, either as an on-site planting or paid into the Tree Fund. An exact number does not need to be included in the PRO Agreement, unless City Council determines they wish to hold the developer to a minimum number of Woodland Replacement Credits to be planted on site. **In addition, the applicant shall ensure that all proposed woodland replacement trees will be guaranteed to be preserved as planted within a conservation easement or landscape easement granted to the City. Additional comments and concerns are detailed in woodland review letter.**

WETLANDS: There are four wetland areas on the site of Phase 1 and 2: a small forested wetland located just west of Ecco Tool (Wetland 1), the pond on the Anglin property (Wetland 2), a small scrub-shrub wetland on the southwest portion of the site (Wetland 3), and a scrub-shrub wetland on the eastern portion of the site that connects to a larger wetland on the adjacent property (Wetland 4). (On the Phase 3 site, there is a small wetland area in the southwest corner of the property.) The proposed plans indicate impacts to 4 of the 5 wetland and wetland buffer areas with a total of 1.67 acres of wetland impact. Permanent impacts to on-site 25-foot wetland buffers total 1.43 acres. All 5 wetlands meet the essentiality criteria of the Wetland Protection Ordinance and are considered regulated by the City of Novi. The City requires mitigation for impacts greater than .25 acre. A letter included in the submittal from the Atwell, the applicants' consultant, dated October 2, 2019, indicates the applicant is considering two different mitigation options to satisfy the City's requirements. **The applicant's mitigation options include certain strategies that are not currently supported by the City's wetland ordinance. Staff believes further details need to be addressed as part of the PRO Concept plan so as to include them in the PRO Agreement as conditions for approval. Additional comments and concerns are detailed in wetland review letter.**



ARCHITECTURAL DESIGN: The elevations submitted for buildings A-C and the residential townhome buildings have been reviewed by the City's Façade Consultant. A Section 9 waiver is required for minor deviations from the ordinance standards for the commercial buildings, which is supported. The applicant has increased the amount of brick material on the residential buildings in this submittal, but the percentage of siding is still over what the ordinance permits. If the siding were switched to a material permitted by the ordinance a Section 9 waiver could be supported, however vinyl siding is still proposed, which is not permitted by the Façade Ordinance and not supported by staff or the architectural consultant. **Additional comments and concerns are detailed in Façade review letter.**

FIRE: The Fire Marshal has identified several locations throughout the site that do not meet the access requirements for fire truck apparatus. A minimum of 50 feet outside and 30 feet inside turning radii are required. The applicant has provided a truck turning plan (C-2.7, C-2.8) which seems to indicate certain maneuvers will encroach onto curbed areas, which is not permitted. The drive lanes in the residential areas may need to be widened to meet ordinance standards or some of the units may need to be removed in order to provide the necessary turning radii. **Additional comments and concerns are detailed in Fire review letter.**

2016 MASTER PLAN FOR LAND USE: GOALS AND OBJECTIVES

The proposed development could be said to follow several of the objectives listed in the 2016 Master Plan for Land Use update (adopted by Planning Commission on July 26, 2017) as listed below. Staff comments are in **bold**.

1. COMMUNITY IDENTITY

- a. Maintain quality architecture and design throughout the City. **The development proposes both commercial and residential buildings that are tied together through modern architectural style with Japanese and Chinese influences. The commercial buildings (A-C) maintain cohesive design themes and materials. The residential buildings have similar bold forms with linear patterns while respecting the smaller residential scale. Building elevations for Phase 2 Maximum Buildout Scenario buildings are not available at this time, but would be expected to maintain a strong relationship with the other non-residential buildings on the site.**

2. ECONOMIC DEVELOPMENT

- a. Retain and support the growth of existing businesses and attract new businesses to the City of Novi. **The property is positioned to accomplish this goal with the mix of uses proposed. The anchor tenant One World Market is an existing business that is looking to expand. (Phase 1A)**
- b. Support retail commercial uses along established transportation corridors that are accessible for the community at large, such as along Grand River Avenue, to preclude future traffic congestion. **The development proposes retail and restaurant uses along Grand River.**
- c. Capture growth opportunities that will enhance short and long-term viability of the community, such as enabling development of concentrations of office space blended with residential. **The office component of the development is anticipated in Phase 2, and would complement the residential uses proposed. (With Phase 2 Max Density Scenario)**

3. ECONOMIC DEVELOPMENT / COMMUNITY IDENTITY

- a. Town Center Study Area. Develop the Anglin property in a manner that reflects the importance of this important gateway to the City in terms of its location, visibility, and economic generation. **The subject property falls in that study area and is located at an important gateway to the City. Many of the recommendations for the area have been incorporated into the proposed project. (With Phase 2 Max Density Scenario)**
- b. Rezone the Anglin Property to TC (Town Center) to enable a broader mix of uses and incorporation into the Town Center district. **The applicant is pursuing a PRO rezoning to TC-1 rather than TC, but TC-1 allows a similar mix of uses and intensities. (With Phase 2 Max Density Scenario)**
- c. Consider amendments to the TC district that would permit a greater mix of uses, including innovative attached housing types; amendments may also consider some public open space and the relationship of buildings to the street in order to create a subdistrict that emphasizes walkability. **Utilizing the TC-1 district achieves this without amending the TC district.**

4. ENVIRONMENTAL STEWARDSHIP

- a. *Protect and maintain the City's woodlands, wetlands, water features and open space.* **The proposed concept plan will impact regulated wetlands and woodlands. The applicant indicates they will propose wetland mitigation and protecting woodland replacement trees by way of a conservation easement. However further details are needed to evaluate the mitigation plan.**

5. QUALITY AND VARIETY OF HOUSING

- a. Ensure the provision of neighborhood open space within residential developments. **The Phase 1B townhouse portion provides the Ordinance required open space. However the applicant indicates a deviation from open space requirements are requested for Phase 2 of the project, with no indication of any open space being provided.**
- b. Attract new residents to the City by providing a full range of quality housing opportunities that meet the housing needs of all demographic groups including singles, couples, first time home buyers, families and the elderly. **The townhouse apartments proposed could theoretically (depending on price point) provide a "missing-middle" type of house set in a walkable context that could be attractive to many different demographic groups.**

MAJOR CONDITIONS OF PLANNED REZONING OVERLAY AGREEMENT

The Planned Rezoning Overlay process involves a PRO concept plan and specific PRO conditions in conjunction with a rezoning request. The submittal requirements and the process are codified under the PRO ordinance (Section 7.13.2). Within the process, which is initiated by the applicant,

the applicant and City Council can agree on a series of conditions to be included as part of the approval which must be reflected in the Concept Plan and or the PRO agreement.

The PRO conditions must be in material respects, more strict or limiting than the regulations that would apply to the land under the proposed new zoning district. *Development and use of the property shall be subject to the more restrictive requirements shown or specified on the PRO Plan, and/or in the PRO Conditions imposed, and/or in other conditions and provisions set forth in the PRO Agreement.* **The applicant should submit a list of conditions that they are seeking to include with the PRO agreement. The applicant's narrative does not specifically list any such PRO conditions at this time.**

Staff has started a draft list of possible conditions (other than those specifically related to the "public benefits" identified and addressed later in this memo), which will continue to evolve as the project review continues:

1. Developer shall develop the Land in accordance with all applicable laws, ordinances, and regulations, including all applicable setback requirements of the Zoning Ordinance under the Proposed Classification, except as expressly authorized herein, and all storm water and soil erosion requirements and measures throughout the site during the design and construction phases of the Development, and during the subsequent use of the Land as contemplated in this Agreement.
2. The grass-land pads shown on the landscape plans shall be properly maintained as grass-land pads until such time that area is needed for Phase 2 uses to be developed. **(Unclear what applicant means by grass-land pads. Further definition would be needed. Meadows were previously suggested by Staff, and we encourage the developer to plant a native meadow mix.)**
3. The maximum number of dwellings to be constructed in Phase 1B shall be 68.
4. The maximum number of dwelling units to be constructed in Phase 2 shall be 70.
5. Phase 1 non-residential uses shall be limited to a 30,000 sf market; and restaurants and retail space totaling approximately 25,000 sf as shown on the PRO Concept Plan.
6. Phase 2 uses shall be no greater than 19,200 square feet of hotel use, 58,000 square feet of office use, 23,000 square feet of retail/restaurant use, 25,000 square feet of personal service use and 48 of multifamily residential units. Changes to the mix of uses of +/-10% shall be permitted to be approved administratively as long as additional deviations are not required and parking requirements can be met.
7. Alternatively, Phase 2 may be developed with a mix of hotel, office, retail/restaurant, personal service, senior living, and/or multifamily residential if the Planning Commission and City Council find that the following standards are met:
 - a. A Traffic Impact Statement shall be provided to determine that the proposed development does not increase the traffic impacts above what is expected to be generated by the Phase 2 Maximum Density Scenario.
 - b. Other conditions to be added...
8. Woodland tree removals during Phase 1 shall be approximately 101 trees, which shall require 197 woodland replacement credits. Developer will plant a minimum of 82 credits replacements on site. All woodland replacement trees shall be permanently protected via conservation easement or landscape easement. Any credits not planted on site will require a payment of \$400 per credit into the Novi Tree Fund.
9. All regulated woodland tree removals in Phase 2 shall meet the requirements of the City of Novi Woodland Protection Ordinance.
10. Proposed parking is being provided as per the Parking Study recommendations, which has been reviewed and approved by the City's traffic consultant. Future phase parking requirements will also be a function of shared parking analysis findings, if supported by City's review and approval.
11. Tentative completion date for Phase 1A shall be XXX.

12. Impacts to wetland and wetland buffer areas have been indicated and quantified and submitted as part of the PRO package. Specific remedies to be included in the PRO Agreement conditions.
13. Future Phases beyond Phase 1 will require an optional deviation for Open Space standards to achieve maximum density. *(Phase 2 Max Density Option)*
14. To protect future residents of the Phase 1B units from excessive noise impacts from the existing Ecco Tool business, the developer shall provide a Noise Impact Statement at the time of Preliminary Site Plan submittal to determine if ordinance performance standards will be exceeded. Provide any necessary mitigation measures if required.
15. The adjacent non-conforming Light Industrial use owned by Ecco Tool Co is to be addressed in the PRO Agreement conditions including:
 - a. Access for delivery trucks on the retained parcel; which will require cross access rights;
 - b. Twelve parking spaces on the retained parcel or access to parking spaces on adjacent areas to make up for any shortfall.

ORDINANCE DEVIATIONS

Section 7.13.2.D.i.c(2) permits deviations from the strict interpretation of the Zoning Ordinance within a PRO agreement. These deviations must be accompanied by a finding by City Council that *"each Zoning Ordinance provision sought to be deviated would, if the deviation were not granted, prohibit an enhancement of the development that would be in the public interest, and that approving the deviation would be consistent with the Master Plan and compatible with the surrounding areas."* Such deviations must be considered by City Council, who will make a finding of whether to include those deviations in a proposed PRO agreement. A proposed PRO agreement would be considered by City Council only after tentative approval of the proposed concept plan and rezoning.

The Concept Plan submitted with an application for a rezoning with a PRO is not required to contain the same level of detail as a preliminary site plan. Staff has reviewed the applicant's Concept Plan in as much detail as possible to determine what deviations from the Zoning Ordinance are currently shown. The applicant may choose to revise the concept plan to better comply with the standards of the Zoning Ordinance, or may proceed with the plan as submitted with the understanding that those deviations would have to be approved by City Council in a proposed PRO agreement. The following are deviations from the Zoning Ordinance and other applicable ordinances shown on the concept plan. The applicant has submitted a narrative describing the requested deviations.

The list of deviations has been revised the list based on staff's comments provided in the previous review letters. See the applicant submittal package for full text of deviations requested and justifications provided.

Summary of deviation requested by the applicant (*in italics*) with staff comments (**in bold**):

1. *Requesting deviation from Section 3.27.1.C for an exterior side yard setback of 10 feet (50 feet required).* **Staff agrees that the adjacent commercial zoning (B-3) is similar to the commercial development proposed along Grand River Avenue in Phase 1. This deviation is supported. (Phase 1A)**
2. *Per section 3.1.26, deviation is requested for reduction of exterior side yard parking setback (10 feet required, 5 feet requested) on the west side adjacent to green space preserve area adjacent. (Phase 1A)* **Unless the plans are revised, a similar deviation for parking setback is also required for the commercial parking area behind Building A adjacent to the B-3 zoned parcel to the south.**
3. ~~*Removed Deviation for 3 site entrances on Grand River Avenue*~~

4. Deviation requested for reduction to 0' Wetland Setback to accommodate remediation process, development of feature retention basin on western portion of site and for careful integration of on-site detention on far eastern portion of site, abutting city-owned retention/wetland basin. Noted in Wetland Report. **This would be a deviation from Section 3.6.2.M of Zoning Ordinance. (Phase 1A)**
5. Deviation requested from Section 3.1.26.D for existing side/front yard parking along 11 Mile Road. Existing occurs at Ecco Tool shop. **Include specific required/proposed measurements on the plan. No parking spaces are shown on the Ecco Tool parcel to the measure distance. Staff would support the deviation if it is an existing condition and if it does not conflict with safe traffic movements. It appears the parking lot would need to be restriped anyway, and the width of the existing pavement would only allow parking on one side of the drive aisle. (Phase 1A)**
- ~~6. Deviation Removed for paved parking lot on north end of property.~~
7. For Phase 2 Maximum Build-out scenario, Deviation requested from Section 5.5.3.B.ii.f. for reduction in parking setback (10 feet proposed, 20 feet required) for 11 Mile frontage. The deviation could either be for a temporary surface parking lot or a parking structure. **A parking structure would be treated as a building, so the setback of 10 feet would not require a deviation in that case. In the event a surface parking lot is constructed instead, the deviation would be required. (Phase 2 Max Density Option)**
8. For Phase 2 Maximum Build-out scenario, Deviation requested from section 3.27.2.A.ii to allow building frontage less than 150 feet along Eleven Mile Road. Building E is estimated to be approximately 80 feet along Eleven Mile, with the longer side oriented to face the main on-site drive aisle. **Section 3.27.2.A.ii, which allows mixed use buildings a height bonus – for each additional floor of office or retail use above the first floor, an additional floor of residential use may be permitted. “All other standards of the ordinance apply to the height bonus, including setback, parking, landscaping, density and subsection i: “Buildings exceeding 65 ft in height shall have a minimum of 150 feet of building frontage on a roadway no less than 28-feet wide.” Building E does not have 150 feet of frontage on 11 Mile and therefore this deviation is requested to allow the additional height without meeting the condition of the ordinance. As envisioned by this development, the pedestrian activity is focused around the pond and the internal road network. Eleven Mile is not contemplated to have an active streetscape, and the buildings on the north side of Eleven Mile do not relate to the street as well. However, the ordinance text does not specifically state the 28-foot roadway needs to be existing. If the internal roadway the building fronts on is widened to 28-feet, that would meet the intent of the ordinance and would not require a deviation. (Phase 2 Max Density Option)**
9. For Phase 2 Maximum Build-out scenario, deviation requested from Section 3.27.1.F. for standardized Open Space requirements. **The applicant has provided a definition of Open Space not utilized in this section in order to justify the deviation. The referenced section specifically states a minimum of 15% of the gross site area “shall be devoted to permanently landscaped open spaces and pedestrian plaza area accessible to the public.” Pedestrian plaza areas do not fall under the definition used by the applicant as undeveloped and in its natural state. Further, no details are provided to indicate if any amount of landscaped open spaces and pedestrian plaza areas would be provided. (Phase 2 Max Density Option)**
- ~~10. Deviation removed for 11 Mile frontage building setbacks.~~
11. Pertaining to the Residential component of Phase 1, Deviation requested for parking setback of 6.1 feet (20 feet required) in the Northeast corner of the project along Eleven Mile Road. **(Phase 1B)**
- ~~12. Deviation from 3.27.1.I. for not providing 12.5 foot sidewalk along Eleven Mile Road, a non-residential collector. The applicant has marked this deviation as removed.~~
13. Deviation from Section 5.15 and 3.27.1.G. requested for façade materials exceptions included as part of the submittal. Materials boards will be provided for PC meeting. See PRO plan Elevations and design statement from the project architects. **See Façade review letter for detailed comments. On the Phase 1 commercial buildings, Section 9 façade waivers are**

- needed for: an overage of EIFS on the west, east and north facades of Building A, an overage of Flat Metal Panels on the west and east facades of Building B, and an overage of EIFS on the west façade of Building C. These overages are relatively minor in nature and result in an enhancement of the overall design quality of the project; therefore the waivers are supported by Staff. On the residential buildings, the percentage of brick has been increased since the previous review. However there are still overages of vinyl siding on all facades. If the Vinyl siding is changed to Cement Fiber siding or other compliant type of siding, a Section 9 Waiver would be supported by staff. (Phase 1A and 1B)
14. Deviation requested from Section 3.27.1.H. and/or Section 5.4 for loading and unloading spaces not located in the rear yard. Screening will be provided for all trash/loading areas not facing a directly adjacent loading area. **Include specific required/proposed measurement for each loading area and Section number (Sec. 3.27.1.H. and/or Section 5.4).** Screening areas are not apparent at all locations. Loading areas at Buildings H and G appear to interfere with traffic flow and safety and should be relocated. (Phase 2 Max Density Option)
 15. Deviation requested from Section 3.27.2.B to allow for the proposed specialty market and food hall, with a total of 30,000 sf on two levels. Tenant will contain 25,000sf on main level with 3,500sf support office use and 1,500sf overflow seating on mezzanine level. Tenant will have entrances on both permanent public building exposures. This deviation provides for the relocation of an existing Novi retailer, and allows for the creation of an environment more specifically tuned to the thematic Asian Village concept that is being proposed. **Section 3.27.2.B states “No retail commercial building within the TC-1 district shall exceed 7,500 square feet in gross leasable floor area (GLA),” except under specific circumstances. The applicant’s proposed specialty market and food hall, with a total of 30,000 sf on two levels, does not meet the conditions of any of the circumstances stated. Staff supports the deviation as the specialty market and food hall creates an anchor for the Asian village concept and allows an existing Novi business to expand.** (Phase 1A)
 16. ~~Deviation requested for bicycle parking ratio on residential portion of overall project. This deviation has been removed.~~
 17. Deviation requested from Section 5.7.3.K for site illumination level variance for multiple walkway areas, and for TC-1 fixture style selection. Site walkway areas will vary below 0.2 fc minimum standard on natural pathway around the water feature. Site walkway areas in residential portion will vary below 0.2 fc minimum standard. Parking area in residential area will fall below 0.2 fc minimum standard. **The lighting plan indicates no lights will be provided in the parking areas in the residential portion of the project. Lighting is required for multifamily residential projects, and should be modified to meet the ordinance as much as possible.** (Phase 1B)
 18. Deviation from Chapter 28 of the City Code for TC-1 tenant signage standards. The project requires dual-language signage for authentic presentation of international tenants and clientele expectations. Many tenants will have both interior-facing and frontage-facing signage. (Phase 1A and Phase 2 Max Density Option)
 - a. Per section 28-5.c.1.a: an increase of 200% over area standards is required to accomplish the dual language signage.
 - b. Per section 28-5.c.1.b: 2 signs of equal permitted size are requested for each typical retail/restaurant tenant, as well as most tenants will have pedestrian entrances on 2 facades.
 - c. Per section 28-5.c.1.d: 2 signs of equal permitted size are requested for each project interior retail/restaurant tenant (not fronting public streets), consistent with other project lease space, and permitted sign area needs to be calculated as per 28-5.c.1.a.
 - d. Per Section 28-5.c.2.b.: signage style and type, as well as materials and illumination standards shall not adhere to the Sign Design and Review Manual for Novi TC-1 District. The standards were developed for, and still reference, a single development project undertaken over 20+ years prior.

- e. Per Section 28-5.e.1.a.: an increase of permitted projecting sign area to match primary signage area allotted up to 72 square feet maximum, an increase of 45 square feet total area.
19. Deviation requested from City Code Section 28-10.a.3 to allow string lights, exposed luminaire strip lights or neon tubes along building edges or other locations, and from Section 28-10.a.4 to allow animated signs. These elements, video display screens and/or animated LED lighting systems as part of public entertainment feature opportunity, are crucial to an authentic Asian environmental experience. **Additional details are required to be able to evaluate. These elements would seem to be more appropriate under the Maximum Density Scenario, but not the Baseline Scenario.** (Phase 1A and Phase 2 Max Density Option)
 20. Deviation from Section 5.3.2 to allow a drive lane reduction in residential Phase 1B. The site plan shows drive lanes 20-22 feet in width in several areas of Phase 1B. **The ordinance allows lane widths of 22 feet when no parking spaces are present, and 24 feet when adjacent to 90 degree parking spaces. Staff is concerned emergency vehicles will have difficulty accessing the site and recommends the applicant revise the plans to meet the minimum standards.** (Phase 1B)
 21. Deviation from Section 3.27.1.C to allow Phase 1 and 2 buildings internal to the site to exceed the maximum setback limit from Grand River Avenue and Eleven Mile Road. **The ordinance does not give a maximum setback from arterials, so no deviation is required for Grand River/Phase 1 commercial buildings. Eleven Mile Road is classified non-residential collector, and therefore has a front yard minimum setback of 0 feet and a maximum setback of 10 feet.** (Phase 2 Max Density Option)
 22. Deviation from Section 3.27.1.I to allow a 6 foot sidewalk along 11 Mile Road. The TC-1 district requires 12.5 foot sidewalks along non-residential collector and local streets. **. As this area was not contemplated for TC-1 zoning, the Non-motorized plan does not necessarily reflect the Zoning Ordinance requirement for 12.5 foot sidewalks. However in seeking a rezoning, the applicant is subject to the requirements of the new district, including 3.27.1.I, which states "Sidewalks within the TC-1 district adjacent to non-residential collect and local streets shall be twelve and one-half (12.5) feet in width." If not provided, this would be a deviation.** (Phase 1B, Phase 2)
 23. Landscaping Deviation from section 5.5.3.A to allow a continuous 6 foot evergreen hedge in lieu of the required 6-8 foot berm required when TC-1 district abuts a B-3 district. (Phase 1B)
 24. ~~Deviation for buffer between commercial/residential uses: removed as both uses permitted within the TC-1 district.~~
 25. Landscaping Deviation from section 5.5.3.A for the absence of a 10-15 foot berm between the residential units in Phase 1B and the existing Ecco Tool light industrial use. In lieu of the berm, applicant proposes a 5 foot tall continuous evergreen hedge and densely planted upright canopy trees. (Phase 1B)
 26. Landscaping deviation from section 5.5.3.C. for deficiency of parking lot interior landscape area, as the total amount of landscaping provided around the pond feature provides a greater amount of contiguous landscaped amenity that benefits the community. (Phase 1A)
 27. Landscape deviation from section 5.5.3.F.ii to allow a deficiency in building foundation plantings and interior roadway canopy tree requirements. **The requirement for canopy trees along interior roads excludes driveways, so the area in front of the garages is excluded. The ordinance requirement for 35% of foundation plantings required on the front façade does not apply as stated because the garage side would be considered the rear façade, even though that is the elevation that faces the roadway. This deviation is not required.** (Phase 1B)
 28. Deviation to allow Ecco Tool to continue to operate as a nonconforming use in the TC-1 district until their operations cease.

Additional Deviations:

See the attached review letters and charts for other possible deviations required. Following is the list of other possible deviations or revisions based on the Planning review of PRO Concept Plan:

1. **Phase 2 Setbacks** (Sec. 3.27.1.F): It is not clear whether parcel lines are proposed for the Phase 2 area. If there are legal parcel lines, deviations will be required in many areas for building and potentially parking setbacks.
2. **Phase 1B Building Setbacks** (Sec. 4.82.2.e): Setbacks for residential buildings in the TC-1 district are required to be 15 feet.

APPLICANT'S BURDEN UNDER PRO ORDINANCE

The Planned Rezoning Overlay ordinance (PRO) requires the applicant to demonstrate that certain requirements and standards are met. The applicant should be prepared to discuss these items, especially in number 1 below, where the ordinance suggests that the enhancement under the PRO request would be unlikely to be achieved or would not be assured without utilizing the Planned Rezoning Overlay. Section 7.13.2.D.ii states the following:

1. *(Sec. 7.13.2.D.ii.a) Approval of the application shall accomplish, among other things, and as determined in the discretion of the City Council, the integration of the proposed land development project with the characteristics of the project area, and result in an enhancement of the project area as compared to the existing zoning, and such enhancement would be unlikely to be achieved or would not be assured in the absence of the use of a Planned Rezoning Overlay.*
2. *(Sec. 7.13.2.D.ii.b) Sufficient conditions shall be included on and in the PRO Plan and PRO Agreement on the basis of which the City Council concludes, in its discretion, that, as compared to the existing zoning and considering the site specific land use proposed by the applicant, it would be in the public interest to grant the Rezoning with Planned Rezoning Overlay; provided, in determining whether approval of a proposed application would be in the public interest, the benefits which would reasonably be expected to accrue from the proposal shall be balanced against, and be found to clearly outweigh the reasonably foreseeable detriments thereof, taking into consideration reasonably accepted planning, engineering, environmental and other principles, as presented to the City Council, following recommendation by the Planning Commission, and also taking into consideration the special knowledge and understanding of the City by the City Council and Planning Commission.*

PUBLIC INTEREST/ BENEFITS TO PUBLIC UNDER PRO ORDINANCE

Section 7.13.2.D.ii states that the City Council must determine that the proposed PRO rezoning would be in the public interest and the benefits to public of the proposed PRO rezoning would clearly outweigh the detriments. The following are being suggested by the applicant (in italics below as listed in their narrative) as benefits resulting from the project. Because staff is indicating that additional information about aspects of the project is needed, our comments (in bold) are minimal at this time:

1. Developer offers to dedicate the Right-of-Way (ROW), and future ROW, along 11 Mile and Grand River. **After reviewing the proposed purchase agreement between the City and the developer, Staff discovered a significant portion of the Right-of-Way is not being included in the property for sale. The applicant shall quantify the amount of additional property to be dedicated to the City/Oakland County for the purposes of Right-of-Way. This could be considered a public benefit, depending on how much property is identified.**

2. Developer offers an easement at the southeast corner of the proposed development for the City to use as for a Welcome sign. **If the easement could also be open to other public purposes, such as art, or another amenity for the public this easement could be considered as a public benefit.**
3. Developer offers that the proposed neighborhood-scaled, mixed-use, pedestrian accessible development would be in line with the intent of the 2016 Master Plan. **Staff agrees; however, this generalized effect of redevelopment could also be achieved using a simple rezoning instead of a PRO.**
4. Developer offers space is being earmarked to accommodate structure parking in Phase 2, which could be used by a central parking agency or Special Assessment District. **Staff agrees that it may be possible to use this space for a parking structure; however, the details of how that would be accomplished have not been proposed, and whether a parking structure in this particular area would be considered a public priority is something that needs to be discussed with the Planning Commission, City Council, and other relevant bodies (e.g., CIA).**
5. Developer indicates that the proposed development complements the 2016 Master Plan vision for a unique, well-designed, mixed-use facility. **Staff agrees, but this seems to be the same as described in item 3 above, and this could also be done using a simple rezoning.**
6. Developer states that growing an important existing Novi retailer (One World Market) would complement the goals and objectives of the 2016 Master Plan. **Again, this growth is a generalized result that could also be accomplished through a traditional rezoning request on the subject property or another location.**
7. Sakura Novi, as a unique development would reinforce the vision of the 2014 Town Center Area Study, namely *to create a dynamic, attractive city core that provides residents and visitors with unique opportunities to participate in active community life, and meet their needs for goods, services, housing and entertainment.* **Staff believes that the proposal may assist the City in meeting the vision of the 2014 Town Center Study, provided that the plan provides for the elements that are indicated in the Phase 2 Maximum Density Scenario. The Town Center Area Study did not indicate residential uses for this location.**
8. Developer indicates that the proposed Sakura Novi, with its unique collection of market, restaurants and retail is anticipated to be an economic engine, generating 170 permanent jobs. **While this statement is a testament to the economic benefits of the anticipated development potential, it could also be achieved with a simple rezoning instead of a PRO. Greater economic impacts would be achieved with the Phase 2 Maximum Density Scenario, but would seem to be considerably less if the Phase 2 Baseline option is developed.**
9. The proposed residences at Sakura Novi will provide smaller footprint, middle-market rate residential rental offerings. The new homes would be a draw to Asian ex-patriot professionals and their families, as well as the large corporations that sponsor many of these families. **Staff agrees that the mixed-use components, of restaurants, retail, residential, and potentially office and hotel uses, meets the intent of the Master Plan and the appeal to the many Asian residents in Novi has been well-framed by the developer; however, again, these are generalized results that could also be achieved with a simple rezoning instead of a PRO.**
10. The developer indicates that the proposed Sakura Novi is anticipated to reinforce Novi's tax base beyond the project itself by creating a platform that can foster partnerships among the City of Novi, cultural institutions and the corporate community. An example provided is the partnership with the STAMPS School of Art and Design at UM, and the Japan America Society to create a Japanese themed illuminated applique. **While the application does not include specific details, if the intent is to provide public art within the development for the enjoyment of the general public, that could be considered a public benefit that would not otherwise be achieved through conventional development proposals. We appreciate the concept of collaborations and partnerships but the actual outcomes are difficult to measure in real terms. (It is also worth noting that murals often spark discussion about the proliferation**

to other properties throughout the City; they are considered signs, and therefore present unique issues that bear real discussion by policy-makers.)

11. The development will create a park-like environment around the existing pond, including a walking path around the pond and throughout the site, available to the general public. Landscaping treatments, the pathway, and a small building at the edge of the pond will “activate” the pond. **Staff agrees that enhancing the existing water feature and inviting the public to enjoy the amenities of the site would be considered a public benefit above what may typically be provided on a conventional development proposal. This benefit is also repeated above in item 5.**
12. Fostering walkability and connectivity within an important corner at the heart of Novi by providing the walking path around the perimeter of the pond, as well as the “tree lined boulevard” and “pocket gardens” leading to the residential common area. **This item is closely linked to items 11 and 5. While the walking path around the pond and the common area of the residential portion of Phase 1B are amenities, they are also meeting the requirements for open space of the TC-1 district, which would be expected from any development. Further enhancement of the “boulevard” and identification of the pocket gardens on the plans is needed to classify this as a public benefit.**
13. The walkability of the development can potentially energize other areas in the Town Center core. For example, there is an opportunity to create walkable connectivity to the City-owned lake to the east of the site. **Staff believes there this could be an opportunity for the developer to offer an enhancement that would create a public amenity. It is unclear from the submittal if the developer is offering such an enhancement.**
14. In keeping with the intent to create an Asian village theme, Sakura Novi’s design features, as described in the Architects’ Design Statements, intends to create a bold, yet refined, aesthetic reminiscent of upscale shopping, dining and entertainment districts one may find in Osaka, Seoul and Hong Kong. **The City’s façade consultant indicates that the revisions to the proposed commercial building designs more closely comply with the Façade ordinance compared to the previous submittal. The commercial buildings also include architectural features that substantially enhance the overall design quality of the project. There are also landscape, hardscape (such as decorative paving at key intersections), and accessory details, such as the proposed tea house near the pond, that will elevate and carry the theme through the development. Whether these rise to the level of a benefit to the public is a question for further discussion.**
15. The signage package, although it does not meet the ordinance standards, is meant to underscore that Sakura Novi is a cohesive, singular concept, and a regional destination to help the development team assemble an international blend of new and fresh merchant offerings. **The deviations requested for the signage package are significant. Establishing this development as a culturally diverse destination is warranted, and signage could be a way to distinguish this area of the community from other nearby developments. However, staff does not have enough details of the signage proposed throughout the development to determine whether this would be an enhancement to the community. (It is unusual to describe deviations from City standards as a “benefit.”)**

Other Possible Benefits to be considered by the Applicant:

- Consideration of an off-site sidewalk connection (~30 ft) to the plaza on the Northeast corner of Town Center Drive and Grand River Avenue to provide necessary link to surrounding areas.
- Additional bicycle parking spaces above the requirements in the ordinance.

SUMMARY OF OTHER REVIEWS

1. Engineering Review (dated 10.22.19): The plans for Phase 1 and 2 meet the general/preliminary requirements on Chapter 11, Storm water management ordinance and the Engineering Design Manual. Additional comments to be addressed in subsequent submittals. [REDACTED]
2. Landscape Review (dated 10.22.19): Landscape review has identified significant deviations that would be required unless further modifications to the plans are made. Staff supports some of them, but encourages the applicant to reduce the number of deviations. Refer to review letter for more comments. [REDACTED]
3. Wetland Review (dated 10.18.19): [REDACTED]
4. Woodland Review (dated 10.18.19): A City of Novi woodland permit is required for the proposed plan. [REDACTED]
5. Traffic Review & RTIS Review (dated 10.18.19): [REDACTED]
6. Facade Review (updated 10.18.19): There are minor deviations on the proposed commercial building elevations. The residential buildings have increased the percentage of brick, however there is an overage of horizontal siding, and vinyl siding is not permitted by the facade ordinance. [REDACTED]
7. Fire Review (dated 10.11. 19): Fire has provided additional comments and questions that would require clarification. [REDACTED]

NEXT STEP: MASTER PLANNING & ZONING COMMITTEE

Based on the applicant's request, the revised PRO Concept Plan is scheduled to go before the Planning Commission's Master Planning & Zoning Committee for informal review on November 13, 2019 at 6:00 p.m. Staff and the applicant will present the plans, and Committee members will have an opportunity to ask questions and provide feedback. No decisions or recommendations are made at the meeting. This is not a public hearing, but there will be an opportunity for audience participation if anyone wishes to attend.

PLANNING COMMISSION MEETING

Based on the applicant's request and the project schedule, this item will be scheduled for public hearing before the Planning Commission to make a recommendation to City Council on December 11, 2019. Please provide the following by **noon on December 4, 2019**. **Staff reserves the right to make additional comments based on additional information received.**

1. Concept Plan submittal in PDF format.
2. A response letter addressing ALL the comments from ALL the review letters and **a request for deviations as you see fit based on the reviews.**
3. A color rendering of the Site Plan, if any to be used for presentation purposes.

CITY COUNCIL

After the Planning Commission makes its recommendation, the PRO Concept Plan will be scheduled for consideration by the City Council. If the City Council grants tentative approval at that time, they will direct the City Attorney to draft a PRO Agreement describing the terms of the rezoning approval.

If the applicant has any questions concerning the above review or the process in general, do not hesitate to contact me at 248.347.0484 or lbell@cityofnovi.org



Lindsay Bell – Planner

Attachments: Planning Review Chart
Section 3.1.21.B&C –OS-1 Permitted Uses & Special Land
Uses
Section 3.1.22.B&C – OSC Permitted Uses & Special Land
Uses

Section 3.1.18.B&C – I-1 Permitted uses & Special
Land Uses
Section 3.1.26.B&C – TC-1 Permitted Uses &
Special Land Uses



PLANNING REVIEW CHART: TC-1 - Town Center 1 District with a Planned Rezoning Overlay(PRO)

Review Date: October 31, 2019
Review Type: Revised PRO Concept Plan
Project Name: **19-31 SAKURA WAY**
Plan Date: October 2, 2019 (Plan sets Received October 3, 2019)
Prepared by: Lindsay Bell, Planner
E-mail: lbell@cityofnovi.org **Phone:** 248.347.0484

- **Bold:** Items that need to be addressed by the applicant prior to the approval of the PRO Concept Plan
- Underlined: Items that need to be addressed prior to the approval of the Preliminary Site Plan
- Blue and underline: Items in are items that do not currently conform to the Zoning Ordinance and may be considered as a deviation

Item	Required Code	Proposed	Meets Code	Comments
Zoning and Use Requirements				
Master Plan (adopted July 26, 2017)	Town Center Gateway shown on Future Land Use Map Master Plan recommends rezoning to TC District to fulfill vision for Town Center area	TC-1 Rezoning proposed Phase 1:Market, Restaurants, retail, residential Phase 2: Possible hotel, residential, senior living facility, office, retail, and restaurants	No	The subject property to be rezoned to TC-1 to permit the uses proposed See Planning Review letter for further analysis
Town Center Area Study 2014	The Anglin Area is intended to serve as the eastern "gateway" into the Grand River/Novi Road Business and Main Street Areas. A wide variety of uses and pedestrian-oriented form will activate the area and provide a logical entranceway. Future development should utilize the existing pond as a site amenity.	The applicant is requesting to rezone to TC-1. Development proposed includes a mix of uses including specialty market and food hall, restaurants, retail, hotel, office, and residential. Proposal includes using the pond as a focal point and site amenity.	Yes	The Anglin property was included in the study, however the Ecco Tool and city parcels on the east proposed for the residential component were not included in the study, nor were the 2 parcels further east proposed for Phase 3 See Planning Review letter for further analysis
Zoning (Effective Jan. 8, 2015)	OSC Office Service Commercial, OS-1 Office Service, and I-1 Light Industrial	TC-1: Town Center - 1	No	Rezoning requested
The applicant has provided the prospective uses. The applicant is asked to limit the type of uses as shown on the PRO concept plan as a condition of the PRO agreement for all phases.				
TC-1 District Uses Permitted (Sec 3.1.26.B & C) Sec. 3.1.25.B. - Principal Uses Permitted.		Phase 1A: Japanese Market Restaurants	Yes	<i>Permitted Uses if rezoned</i>

Item	Required Code	Proposed	Meets Code	Comments
Sec. 3.1.25.C. – Special Land Uses Permitted.		Retail		
		Phase 1B/Phase 2 Baseline: Multifamily Residential	Yes	<i>Permitted Use if rezoned</i>
		Phase 2 Max Density Option: Hotel Office Residential Senior Living Facility *Retain Tool & Die shop indefinitely	Yes No	<i>Permitted Use if rezoned</i> Ecco Tool would be a non-conforming use in the TC-1 district
		Phase 3: Multifamily Residential	Yes	<i>Permitted Use if rezoned</i>
Density <i>Future Land Use Map(adopted July 26, 2017)</i>	13.6 du/ac	Total site area Phase 1: 12.75 acres 68 multifamily units (townhomes) in Phase 1B $68 \text{ units}/12.75 \text{ ac} = 5.44 \text{ du/ac}$ <i>68 + 70 multifamily units (Townhomes) in Baseline Phase 2:</i> <i>Approx: 15.5 ac</i> $138 \text{ units}/15.5 \text{ ac} = 8.9 \text{ du/ac}$	Yes	<i>A cap on the number of units in Phase 2 should be included in the PRO Agreement</i>
Phasing	Show proposed phasing lines on site plan. Describe scope of work for each phase. Each phase should be able to stand on its own with regards to utilities and parking	Phasing lines shown Phase 1A(South area) Buildings A, B, and C (Market, Retail, Restaurants) 50,977 sf Surface Parking: 338 spaces Phase 1B (Eastern area) 68 Residential 2-bed townhome units 81 garage spaces + 36 surface spaces = 117 spaces Phase 2 – Baseline (Northern area) 70 residential 2-bed		The applicant provides 2 different development scenarios for the Phase 2 portion of the project due to the uncertainty of future development conditions. Details and deviations for Phase 2 uses may need to come back for a PRO Amendment if the conditions cannot be agreed to at this time.

Item	Required Code	Proposed	Meets Code	Comments
		<p>townhome units 108 garage spaces + 40 surface = 148 parking spaces</p> <p>Phase 2 – Max Density Option (Northern area) Buildings E, F, G H (Retail, Restaurants, Office, Residential, Hotel, Spa) 168,665 sf 16 1-bd res. units 32 2-bd Res. units Parking Garage: 442 spaces Surface Parking: 68 spaces</p> <p>Phase 3 (Unattached Eastern area) 52 Residential 2-bed townhome units Parking: 64 garage + 40 surface = 104 spaces</p>		<p><i>How will parking requirements be met if the City does not build the parking garage?</i></p>
PRO Concept Plan Submittal: Additional requirements				
<p>Written Statement (Site Development Manual)</p> <p><i>The statement should describe the items listed to the right</i></p>	Potential development under the proposed zoning and current zoning	The applicant has addressed this item in the narrative.	Yes	Staff agrees that the Town Center-1 District may be a reasonable alternative to the existing zoning for Phase 1&2 given the vision for this area in the Town Center study and Master Plan. Phase 3 was not included in the Town Center Study.
	Identified benefit(s) of the development	Applicant has provided a list of public benefits proposed at this time.	Yes	Please refer to Plan Review letter for discussion of public benefits proposed
	Conditions proposed for inclusion in the PRO Agreement (i.e., Zoning Ordinance deviations, limitation on total units, etc.)	List of deviations are included in the narrative	Yes	Please refer to Plan Review letter for discussion deviations proposed
Sign Location Plan (Page 23,SDM)	Installed within 15 days prior to public hearing	Provided – sheet C1.6	Yes	Signs are not required on each parcel, only each

Item	Required Code	Proposed	Meets Code	Comments
	Located along all road frontages			frontage, and each zoning district should be represented. Remove sign from City parcel 22-23-226-042 as it is not part of PRO submittal for rezoning. See letter for further details. For 12/11/19 Planning Commission public hearing, signs shall be posted no later than 11/21/19
Rezoning Traffic Impact Study (Site development manual)	Rezoning Traffic Impact Study as required by the City of Novi Site Plan and Development Manual.	A Traffic Impact Statement and Rezoning Traffic Impact Study is provided	Yes? Yes?	Refer to Traffic review letter for more comments
Community Impact Statement (CIS) (Sec. 2.2)	<ul style="list-style-type: none"> - 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 	<p>Mixed-use development, based on the number of different uses.</p> <p>A CIS is provided</p>	Yes	Refer to Planning Review letter for more comments.
Height, bulk, density and area limitations				
Frontage on a Public Street (Sec. 5.12)	Frontage upon a public street.	The sites have frontage and access to Grand River Avenue and Eleven Mile.	Yes	
Access To Major Thoroughfare (Sec. 5.13)	Access to major thoroughfare is required, unless the property directly across the street between the driveway and major thoroughfare is either multi-family or non-residential	<p>Site has access to Grand River Avenue and Eleven Mile Road</p> <p>Phase 3 has access to Eleven Mile</p>	Yes	
Open Space Area (Sec. 3.27.1.F)	15% (permanently landscaped open areas and pedestrian plazas).	An Open space plan (sheet L204) is provided. It indicates a total of 1.63 acres (15.08%) of open space in the commercial area for	Yes?	Open space requirement will be met for Phase 1 – <u>however applicant indicates a deviation will be needed for the Maximum Development scenario for</u>

Item	Required Code	Proposed	Meets Code	Comments
		Phase 1.		<u>phase 2. No specific deviation given.</u>
Maximum % of Lot Area Covered (By All Buildings) (Sec. 3.6.2 D)	No Maximum		NA	
Building Height (Sec.3.1.26.D)	5 stories or 65 ft, whichever is less ** Section 3.27.2.A.ii allows mixed use buildings a height bonus – for each additional floor of office or retail use above the first floor, an additional floor of residential use may be permitted. “all other standards of the ordinance apply to the height bonus, including setback, parking, landscaping, density and subsection i: “Buildings exceeding 65 ft in height shall have a minimum of 150 feet of building frontage on a roadway no less than 28-feet wide”	Building A: 2 stories	Yes	
		Building B: 2 stories	Yes	
		Building C: 2 stories	Yes	
		Building D: 1 story	Yes	
		Building E: 6 stories (2 levels non-res, 4 levels residential)	Yes?	Provide height of building in feet <u>Deviation required for lack of required building frontage: 150 ft required on roadway. Applicant could consider widening roadway to 28 feet in front of building E to meet requirement.</u>
		Building F: 2 stories	Yes	
		Building G: 5 stories	Yes	
		Building H: 4 stories	Yes	
Residential portion of this development is subject to conditions and requirements of Section 4.82: Residential Dwellings in TC and TC-1 districts (Ordinance Amendment 18.279)				
Commercial Portion is subject to TC and TC-1 requirements				
Arterial and Non-residential Collector Streets Additional setbacks may also be required by Planning Commission or City Council if deemed necessary for better design or functionality.				
NOTE REGARDING SETBACKS: The current submittal indicates the lot lines at the future ROW line. Grand River Avenue is classified an arterial while Eleven Mile Road is considered a non-residential collector. Phase 1A buildings will be considered to “front” on Grand River should adhere to “Interior” requirement as there is TC-1 District to the south. Phase 2 buildings shall consider Eleven Mile Road as “front” should adhere to Non-Residential Collector requirements.				
Commercial Building Setbacks (Sec 3.1.26 D) and (Sec. 3.27.1.C)				

Item	Required Code	Proposed	Meets Code	Comments
Front (Grand River and Eleven Mile) See 3.27.1.C for waiver conditions for City Council	<u>Arterials</u> 15 ft. minimum *Setback may be increased where necessary to obtain clear vision area for vehicular traffic.	Bldg A: 217 ft	Yes	Indicate the proposed setbacks on sheet C-2.0.
		Bldg B: NA	Yes	Proposed parcel lines required to fully evaluate setbacks
		Bldg C: 15 ft	Yes	
	<u>Non-Residential Collector</u> 0 ft min, 10 ft maximum	Bldg E: 8.04 ft	Yes	<u>Deviations required for exceeding maximum setbacks for buildings F and G</u>
		Bldg F: >10	No	
		Bldg G: >10	No	
		Bldg H: 7.98 ft	Yes?	Provide measurements on the plans to show building setback distances from each lot line on sheets C-2.1 and C2.2
		Parking Structure: ~10 ft	Yes?	
		Ecco Tool (Existing) ~52 feet	No	Existing, to be made non-conforming by rezoning
Side Western property line is considered Interior (TC district adjacent) Eastern property lines considered Exterior (B-3 and I-1 Districts adjacent)	<u>Arterials</u> 10 ft. Minimum Interior 50 ft Exterior	Bldg A: 10 ft (East: Exterior to B-3)	No	<u>Deviation required: 50 ft required, 10 ft proposed</u>
		Bldg B > 50 ft	NA	
		Bldg C > 50 ft	NA	
	<u>Non-Residential Collector</u> 0 ft min, no maximum	Bldg E: ~10 ft (East: Ecco Tool)	Yes	
		Bldg F: NA	NA	
		Bldg G: NA	NA	
		Bldg H: ~10 ft	Yes	
		Parking Structure: NA	Yes	
		Ecco Tool (Existing) ~25 feet	Yes	

Item	Required Code	Proposed	Meets Code	Comments
Rear <i>Western property line is considered Interior (TC district adjacent)</i> <i>Northern property lines considered Exterior (OSC Districts adjacent)</i>	<u>Arterials</u> 10 ft. Minimum Interior 50 ft Exterior	Bldg A: NA (north side)	NA	
		Bldg B: NA	NA	
		Bldg C: NA	NA	
	<u>Non-Residential Collector</u> 0 ft min, no maximum	Bldg E: 8.04 ft	NA	
		Bldg F: 75 ft (to B-3 parcel to south)	Yes	
		Bldg G: NA	NA	
		Bldg H: 8.89 ft	Yes	
		Parking Structure:	NA	
Commercial Parking Setback (Sec 3.1.26.D)				
Front Grand River Ave	20 ft. from ROW	Front Grand River: 20 ft	Yes	Show the setback distances on plans to verify conformance Parking setback plan (C-2.5 and C-2.6) indicates incorrect parking setbacks – please correct. <u>Deviations requested for western side and exterior rear yard. Also required for parking adjacent to B-3 parcel if not corrected.</u>
Side/Rear Yard (West, East, South adj to B-3)	10 ft.	Western side yard: 5 ft Eastern side yard: 10 ft Adj to B-3: 5 ft	No Yes No	
Exterior Rear Yard (11 Mile Road)	20 ft. from ROW	Exterior rear yard (11 Mile): 10 ft	No	
Note To District Standards (Sec 3.6.2)				
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.	11 Mile Frontage is exterior side yard	Yes	
Minimum lot area and width (Sec 3.6.2.D)	Except where otherwise provided in this ordinance, the minimum lot area and width, maximum percentage of lot coverage shall be determined by the requirements set forth.	Proposed	Yes	Lot boundaries appear to have been added for the Phase 2 portion of the project. If these will be legal parcel lines, provide setback dimensions for all buildings within the lots in order to determine setback deviations.

Item	Required Code	Proposed	Meets Code	Comments
Yard Setbacks adjacent to Residential Districts (Sec 3.6.2.H&L)	If site abuts a residential zone, buildings must be set back at least 3' for each 1' of building height, but in no case can be less than 20' setback	NA	NA	Does not abut residential
Wetland/Watercourse Setback (Sec 3.6.2.M)	A setback of 25 ft. from wetlands and from high watermark course shall be maintained	Pond exists on the site – buffer not shown	No	Indicate the buffers on the plan to verify conformance; Refer to Wetland review letter for more details <u>Deviation requested</u>
Parking setback screening (Sec 3.6.2.P)	Required parking setback area shall be landscaped per sec 5.5.3.	Berm required		Refer to landscape review for more details.
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 listed incorrectly in several locations. See 3.1.26.D below	Yes?	<u>Plan does not meet the setback requirements for some areas.</u> Show correct setback lines on the plans. Spaces along southern property line – SE of Bldg F – and parking along Eleven Mile do not comply
TC-1 District Required Conditions (Sec 3.27)				
Site Plans (Sec. 3.27.1.A.)	Site area under 5 acres: Requires Planning Commission approval; Site area over 5 acres: Requires City Council approval upon Planning Commission recommendation	Site is over 5 acres (15.59 acres)	Yes	Site plan requires City Council approval upon Planning Commission recommendation
Parking Setbacks (3.27.1 D)	20 ft. from ROW		No	Refer to comments on page 6 and 7
	Surface parking areas must be screened by either a 2.5 ft. brick wall or a landscaped berm from all public ROW	Screening?	No	See Landscape Review Letter.
	No front yard or side yard parking on any non-residential collector.	Exterior side yard parking on 11 Mile Road		<u>11 Mile is Non-Residential collector; Deviation requested</u>
Architecture/ Pedestrian Orientation	No building in the TC-1 district shall be in excess of one-hundred twenty-	This applies to the Commercial buildings.	Yes	See Façade review for further architectural comment

Item	Required Code	Proposed	Meets Code	Comments
(3.27.1 E)	five (125) feet in width, unless pedestrian entranceways are provided at least every one-hundred twenty-five (125) feet of frontage.	Several buildings exceed 125 ft width – Phase 1 buildings will have entrances Proposed: Decorative paving at key locations, pond/surrounding garden as focal point		
Open Space Area (Sec. 3.27.1.F)	15% (permanently landscaped open areas and pedestrian plazas accessible to the public) Required: 1.62 ac	Open Space calculations provided show 1.63 ac (15.08%)	Yes	
Façade materials (Sec. 3.27.1 G)	All sides of the building and accessory buildings must have the same materials. Façade materials may deviate from brick or stone with PC approval.			See Façade Review Letter for comments. Façade sample board is required. Section 9 waivers required – additional detail and 3D color renderings will be needed
Parking, Loading, Signs, Landscaping, Lighting, Etc (Sec. 3.27.1 H)	All loading in TC-1 shall be in rear yards.	Phase 1A: loading in side and rear yards Phase 2: Several loading areas proposed conflict with parking and traffic movement	No	<u>Deviations requested.</u> Clearly show on plans all loading areas, label area (See Section 5.4 for additional requirements)
	Off-street parking counts can be reduced by the number of on-street parking adjacent to a use		NA	Shared parking study provided
	PC may allow parking requirement reduction when parking areas serve dual functions.	The development proposes mixed uses.	Yes	Shared parking study provided
	Special assessment district for structured park	Not proposed	NA	
Sidewalks required (Sec. 3.27.1 I)	Sidewalks required along non-residential collector to be 12.5 ft. wide	8' sidewalk on Grand River	Yes	Show sidewalk widths
	Sidewalk on Grand River should be 8'	6' sidewalk on 11 Mile?	No	<u>Deviation Requested to retain existing 6' sidewalk where ordinance requires 12.5 ft</u>

Item	Required Code	Proposed	Meets Code	Comments
	Direct pedestrian access between all buildings and adjacent areas	Appears to be provided, although markings on plans not consistent.	Yes?	
Bicycle Paths (Sec. 3.27.1 J)	Bike paths required to connect to adjacent residential & non-residential areas.	8' Sidewalks proposed along Grand River; Existing sidewalk on 11 Mile to remain on streets proposed	No	See sidewalk comment above
Development amenities (Sec. 3.27.1 L)	All sites must incorporate amenities such as exterior lighting, outdoor furniture, safety paths in accordance with Town Center Study Area.	L401 shows proposed bench, bike rack, decorative stamped concrete Lighting specs provided sheet 2 of 2	Yes	No exterior lighting proposed for much of residential portion of Phase 1
Combining Use Groups within a Structure (Sec. 3.27.1 M)	Commercial and office uses may occupy any number of total floors within a building with residential uses: - Not on same floor as residential Not above residential	Building E: Restaurant/Spa 1 st floor Spa 2 nd floor Residential 3rd-6th floors Building G: Retail/restaurant/office	Yes	
Retail Space (Sec.3.27.2.B)	7,500 sq. ft. GLA max may exceed when: - All floors above 1 st floor permitted in TC-1 - No retail above 2 nd floor - 2 nd floor retail is less than 12,000 sq. ft. or 25% of the floor area - Single user max. is 15,000 sq. ft. - 50% of retail commercial space on 1 st floor is devoted to users of 5,000 sq. ft. or less	Details of retail spaces not provided	Yes	Note that single use maximum on first floor is 15,000 sq. ft. and 50% of retail on first floor needs to be dedicated to users of 5,000 sq. ft. or less <u>Market: 30,000 sf requested deviation</u>
Street and Roadway Rights-Of-Way (Sec. 3.27.1 N)	Nonresidential collector and local streets shall provide ROWs consistent with DCS standards	ROW to be dedicated on Grand River and 11 Mile Road	Yes?	Quantify additional area of ROW dedication
Façade materials (Sec. 3.27.1 G)	All sides of the building and accessory buildings must have the same materials. Façade	Bldg A&D	No	Section 9 waivers are required for all buildings with elevations submitted. Please refer to Façade
		Bldg B	No	
		Bldg C	No	

Item	Required Code	Proposed	Meets Code	Comments
	materials may deviate from brick or stone with PC approval.	Bldg E: not submitted		review for more details and missing information.
		Bldg F: not submitted		
		Bldg G: not submitted		If deviations are not identified/ requested at this time, the elevations are expected to conform to the code at the time of Preliminary Site Plan approval.
		Bldg H: not submitted		
		Parking Structure: not submitted		
		Residential Buildings: Vinyl siding is not permitted; Brick percentage has been increased	No	
Mixed-Use Developments (Sec. 4.25) To qualify as a mixed-use development, a project must meet the following requirements.				
Each use shall comprise of at least 10% in the TC-1 district of either a. The net site area or b. The total gross floor area of all buildings	Gross site area: 15.5 acres Net site area after ROW dedication & Pond: 14.39 acres Residential Site Area: approx. 4.5 acres Commercial site area: 9.89 acre (~69% of total site area) Phase 2 Baseline:	Yes?	Appears to comply In order to subtract to find net site area: - <u>Provide ROW area to be dedicated;</u> Hotel use calculated separately from shopping center (~26%) 10% of net site area: 1.44 acres (each use should attain this minimum size to be considered mixed use)	
A development with both conventional multi-family and senior, age-qualified, independent multi-family uses shall not be considered mixed use unless a non-residential use is also included	Not applicable	NA		
A performing arts facility unconditionally dedicated to the public use, under separate agreement with the City, shall be considered a second use, provided that it is a fully enclosed structure with a minimum of 500 seats.	Not applicable	NA		
Residential Dwellings / Mixed-Use in TC/TC-1 (Sec. 4.82)				
Multiple-Housing Dwellings Units (Sec. 4.82.2)	Must meet RM-1 district requirements.	Not Applicable		
Mixed Use Guidelines (Sec. 4.82.2)				
Number of Rooms and Area of Parcel (Sec. 4.82.2.a) <i>TC/TC-1, Multiple Family, and Mixed-</i>	Total number of rooms shall not have more than the area of the parcel in square feet, divided by a factor of	For 14.3 net acres 623,779 sq. ft. / 800 = 779 rooms permitted <u>Phase 1B:</u> 68 2-BR @ 3	Yes	

Item	Required Code	Proposed	Meets Code	Comments
Use	1200. For mixed use, it is divided by factor of 800.	rooms = 204 + Phase 2 Baseline: 70 2-BR @ 3 rooms = 210 Total 414 rooms * Phase 2 Max Density: 48 units: 16 1-BR @ 2 rooms + 32 2-BR @ 3 rooms = 204 (Phase 1B) + 128 = 332 rooms		
Allowing increase in number of rooms (Sec. 4.82.2.b)	Planning Commission (for sites <5 acres) or City Council (for sites >5 acres) can approve increase in number of rooms subject to conditions listed in Sec. 4.82.2.b. The increase cannot exceed more than two times the rooms otherwise allowed	Allowed: 779 rooms Proposed: Phase 1B: 204 rooms Phase 2 Base: 414 rooms Phase 2 Max: 332 rooms	Yes	
Floor plans for Mixed Use developments (Sec. 4.82.2.c)	Conceptual floor plans layouts for each dwelling unit is required to establish maximum number of rooms permitted, subject to minor modifications	Floor plans are provided for Phase 1B townhomes; Phase 2 Baseline – same as 1B	Yes	
Minimum Distance between Buildings (Sec. 4.82.2.d)	10 ft.	32 ft.	Yes	
Building Setbacks (Sec. 4.82.2.e)	- 15ft. minimum, unless conflicts with corner clearance	15 ft from ROW shown for residential buildings fronting on 11 Mile	Yes	
Parking Setbacks Off-street Parking (Sec. 4.82.2.f)	10 ft. minimum from any wall of any dwelling structure, which contains openings involving living areas;	Meets requirement	Yes	Residential dwelling are subject to this section, not Sec. 3.1.26.
	5 ft. from any wall with no openings	Meets	Yes	
	10 ft. from any ROW (includes drives and loading)	Meets	Yes	

Item	Required Code	Proposed	Meets Code	Comments
	5 ft. from all other property lines	Meets	Yes	
	30 ft. from property lines adjacent to Single family homes	Not applicable	NA	
Business and Office Uses (Sec. 4.82.3)	<ul style="list-style-type: none"> - Not occupy same floor as residential - No office use above a residential use - Separate entrance, private pedestrian entrance to residential shall be provided 		NA	
Parking Location (Sec. 4.82.5)	Off-street parking shall be provided within a building, parking structure physically attached, or designed off-street parking within 300 ft. of building.	Off-street proposed on-street, surface parking and individual unit garages	Yes	
Usable Open Space (Sec. 4.82.6)	Usable Open Space is defined as balconies, courts and yards that are private recreational uses, and no dimension is less than 50 ft. 200 sq. ft. per dwelling unit 200 x 68 = 13,600 sq. ft. Or 0.31 acre	Usable open space shown on sheet L203 appears to comply with requirement 0.52 acre open space proposed	Yes	

Note: Staff has made a determination for mixed use guidelines that is consistent with non-mixed use guidelines. For purpose of determining compliance, the minimum square footages are associated with number of bedroom as follows: 1 BR- 500 SF min; 2 BR- 750 SF min; 3 BR – 750 SF min; 4+ BR- 1,000 SF min ;

The applicant needs to provide the unit mix proposed. The applicant has provided floor plans of Phase 1B.

Maximum Room Count : Mixed Use Guidelines(Sec. 4.82.2)

Efficiency-400	1	Not proposed	NA	All units proposed exceed requirements. Phase 2 Max. Density units not shown
1 BR: 500 sq. ft.	2	Not proposed	NA	
2 BR: 750sq. ft.	3	3	Yes	
3 BR: 900 sq. ft.	4	Not proposed	NA	
4 BR: 1000 sq. ft.	5	Not proposed	NA	

Maximum Density: Mixed Use Guidelines(Sec. 4.82.2)

Efficiency-400	--	Proposed density Phase	Yes	Density for residential
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Item	Required Code	Proposed	Meets Code	Comments
1 BR: 500 sq. ft.	27.3 DUA (a)	1: 4.8 DUA (68 units/14.3 ac) Allowable Density: 18 DUA; Allowable density is calculated based on maximum number of rooms allowed for this property (779 rooms) and unit type		dwellings in TC-1 is based on the maximum number of rooms allowed.
2 BR: 750sq. ft.	18.15 DUA			
3 BR: 900 sq. ft.	13.61 DUA			
4 BR: 1000 sq. ft.	10.89 DUA			
Maximum Percentage of Units : Mixed Use Guidelines(Sec. 4.82.2)				
Efficiency-400	5%	Not proposed		
1 BR: 500 sq. ft.	50%	0		
2 BR: 750sq. ft.	100%	100	Yes	
3 BR: 900 sq. ft.	100%	0		
4 BR: 1000 sq. ft.	100%	0		
Minimum Off-street parking per unit: Mixed Use Guidelines(Sec. 4.82.2)				
Efficiency-400	1 per unit	<u>Phase 1B:</u> 68 units @ 2 spaces Total 136 spaces required 36 Surface spaces 81 Garage spaces Total 117 spaces proposed <u>Phase 2 Base:</u> 70 units @ 2 spaces Total 140 spaces required Total 148 spaces proposed		Shared parking study provided for overall project site to justify request for reduction in required parking
1 BR: 500 sq. ft.	1 per unit			
2 BR: 750sq. ft.	2 per unit		No	
3 BR: 900 sq. ft.	2 per unit			
4 BR: 1000 sq. ft.	2 per unit			
Parking, Loading, and Dumpster Requirements (5.3 site specific review required)				
Required Parking Calculation (Sec. 5.2.12) (Sec. 4.82.2) *Shared parking agreement	<u>Shopping Center</u> 1 per 250 sq. ft. of gla 227,948 / 250 = 911 spaces <u>Hotel</u> 1 for each unit, plus 1 for each employee, plus accessory uses <u>Res. Mixed-Use Development</u> Rm count 1-2 = 1 space	<u>Shopping Center</u> 468 spaces <u>Hotel</u> # of rooms: 120 # of employees: ?? Accessory use? 107 surface spaces proposed <u>Residential Development</u> 0 On-street	Yes?	Shared parking study provided to justify reduction of parking required for Phase 1 and at build-out of Phase 2.

Item	Required Code	Proposed	Meets Code	Comments
	Rm count 3-5 = 2 spaces 81 total spaces required	81 garage 38 surface parking		
Parking Space Dimensions and Maneuvering Lanes (Sec. 5.3.2)	<ul style="list-style-type: none"> - 90° Parking: 9 ft. x 19 ft. - 24 ft. two way drives - 9 ft. x 17 ft. parking spaces allowed as long as detail indicates a 4" curb at these locations - 60° 9 ft. x 18 ft. 	<ul style="list-style-type: none"> - 9 ft. x 17 ft. parking spaces allowed as long as detail indicates a 4" curb at these locations - 60° 9 ft. x 18 ft. - 9 ft. x 19 ft. spaces - 20 ft 2-way drives 	No	<p><u>Deviation requested for 20 ft drive aisles – 22 feet required when not adj to parking</u></p> <p><u>Deviation requested for 22 ft drive aisles – 24 feet required adj to parking</u></p>
Parking lot entrance offset (Sec. 5.3.6)	Parking lot entrances must be set back 25' from any single-family residential district.	Not applicable	NA	
End Islands (Sec. 5.3.12)	<ul style="list-style-type: none"> - 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 ft. wide, have an outside radius of 15 ft., and be constructed 3 ft. shorter than the adjacent parking stall 		Yes	Refer to traffic review for additional comments.
Parking stall located adjacent to a parking lot entrance (public or private) (Sec. 5.3.13)	<ul style="list-style-type: none"> - 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 	Parking near future building E appears close	No?	
Barrier Free Spaces <i>Barrier Free Code</i> <i>*No deviations since this is a Michigan Building Code</i>	<p>Residential Portion: A total of 2% of required parking. 96 x 2% = 2 required</p> <p>376 spaces for</p>	<p><u>Residential Development</u> 3 barrier free (1 van accessible)</p> <p><u>Commercial</u></p>	Yes	

Item	Required Code	Proposed	Meets Code	Comments
<i>requirement</i>	commercial portion requires: 6 barrier free (2 van accessible)	20 barrier free (8 van accessible)		
Barrier Free Space Dimensions <i>Barrier Free Code</i>	<ul style="list-style-type: none"> - 8' wide with an 8' wide access aisle for van accessible spaces - 8' wide with a 5' wide access aisle for regular accessible spaces 	Spaces are distributed into 6 locations, appear to have at least 1 van accessible at each Dimensions appear to comply	Yes	<u>Additional barrier free spaces will be required with Phase 2; Number to be provided in parking garage determined by # spaces within the garage</u>
Barrier Free Signs <i>Barrier Free Code</i>	One sign for each accessible parking space.	Signs indicated	Yes	
Minimum number of Bicycle Parking (Sec. 5.16.1)	<p><u>Multiple-Family:</u> 1 for each 5 dwellings 68/5 = 14 bike spaces</p> <p><u>Retail/Shopping Center:</u> Five (5) percent of required automobile spaces 376 spaces * 5% = 19 bike spaces</p> <p>Total = 33 bike spaces</p>	<p>Residential portions: 14 spaces proposed</p> <p>Commercial: 19 spaces proposed</p>	Yes	<u>Future phases will need to provide additional spaces: to be determined and verified at the time of Preliminary Site Plan submittal</u>
Bicycle Parking General requirements (Sec. 5.16)	<ul style="list-style-type: none"> - No farther than 120 ft. from the entrance being served - When 4 or more spaces are required for a building with multiple entrances, the spaces shall be provided in multiple locations - Spaces to be paved and the bike rack shall be inverted "U" design - Shall be accessible via 6 ft. paved sidewalk - When 20 or more bicycle parking spaces are required, 25% shall be covered spaces. 	<p>Multiple bike rack locations indicated</p> <p>To be verified at the time of PSP submittal</p> <p>Appear to be provided</p> <p>Covered spaces not indicated</p>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>NA</p>	Phase 2 bike parking not indicated at this time – see comment above
Bicycle Parking Lot layout (Sec 5.16.6)	<p>Parking space width: 6 ft.</p> <p>One tier width: 10 ft.</p> <p>Two tier width: 16 ft.</p> <p>Maneuvering lane</p>	To be determined at the time of PSP submittal		

Item	Required Code	Proposed	Meets Code	Comments
	width: 4 ft. Parking space depth: 2 ft. single, 2 ½ ft. double			
Loading Space Area (Sec. 5.4.2)	<p>Within TC zoning, loading space shall be provided in the rear yard (or in the interior side yard beyond the side yard setback for double frontage lots) in the ratio of 10 sq. ft. per front foot of building. Layout shall not cut off or diminish access to off-street parking spaces or service drives.</p> <p>Example: For 100 ff building, 1000 sf of loading area is required for residential and commercial buildings</p>	<p>Phase 1 loading area locations meet requirements for location in rear yard or interior side yard. 4 areas are indicated as loading zones on sheet C-2.1:</p> <ul style="list-style-type: none"> Area A1 + A2: 1,320 sf + 475 = 1,795 < 1,800 sf required Area B: 644 sf > 620 sf required Area C: 1,300 sf < 2,000 sf required <p>No loading zone areas are given for Phase 2 Max. Build-out option – locations shown on sheet C-2.3:</p> <ul style="list-style-type: none"> Building E: No loading zone Building F: Loading area shared with building A? Building G: layout of loading area diminishes access to parking spaces Building H: located in front yard 	<p>No</p> <p>No</p>	<p>Loading areas seem to include area where dumpster is present, which is not allowed. Area occupied by dumpster shall be excluded from loading area.</p> <p><u>Deviations needed for deficiency in loading area requirements for Loading areas A,B, C</u></p> <p><u>Deviations requested for location of loading areas (Building H: front yard) in Phase 2 Max Build-out option. Building G location conflicting with parking spaces. Lack of loading areas for Buildings E & F.</u></p> <p>Size of loading areas would be expected to meet ordinance standards for Phase 2 if deviations not requested; or PRO Agreement would need to be amended at later date</p>
Loading Space Screening (Sec. 5.4.2 B)	Loading area must be screened from view from adjoining properties and from the street.	Loading areas (A, B & C) screened with bamboo plantings – others do not appear to be screened	No?	<p>Refer to landscape plan for additional comments.</p> <p><u>Waiver or deviations required if proper screening in not proposed</u></p>
Dumpster Sec 4.19.2.F	<ul style="list-style-type: none"> Located in rear yard Attached to the building or no closer than 10 ft. from building if not attached Not located in parking setback (20 ft.) 	<p>Phase 1A dumpster locations appear to be acceptable. Will be confirmed at the time of PSP submittal.</p> <p>No dumpsters in Phase 1B area</p>	Yes?	<p>Clarify trash collection plans for Phase 1B if no dumpsters are provided</p> <p>Deviations may be required for placement of some dumpsters in Phase 2</p>

Item	Required Code	Proposed	Meets Code	Comments
	<ul style="list-style-type: none"> - Rear lot abuts ROW, 50 ft. setback required. - Away from Barrier free Spaces 			
Dumpster Enclosure Sec. 21-145. (c) Chapter 21 of City Code of Ordinances	<ul style="list-style-type: none"> - 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 	Details provided – see façade review for comments	Yes	Appear to comply with façade ordinance – will confirm at the time of site plan approval

Parking, Handicap Parking and Bike Requirements

Staff is unable to make a determination based on the missing information. Information provided below is what was provided based on assumptions made in the traffic and parking study and compares to weekend peak demand numbers.

Required Parking Calculation (Sec. 5.2.12) (Sec. 4.82.2) See Individual requirements below	Phase 1 Required per Use	Parking Study Peak Demand		Shared Parking Study indicates 438 spaces needed for peak demand, Including 10% "Effective Supply"
	Retail $4,508\text{sf}/200 = \underline{23}$	15		
	Market $26,500\text{sf}/200 = \underline{133}$	90		
	Quality Restaurant $7,460\text{sf}/70 = \underline{106}$	122		
	Sit-Down Restaurant $4,505/70 = \underline{64}$	48		
	Fast Casual Restaurant $4,532/70 = \underline{65}$	36		
	Residential Buildings $68 \text{ units} \times 2 \text{ ea} = \underline{136}$	87		
	Total Ordinance Required: 570 Spaces	TOTAL PROPOSED: 446 Spaces		
	+ Phase 2 Max Density Required per Use	Parking Study Peak Demand		Total number of parking spaces to be provided in Phase 2 not given. Parking Study indicates peak demand would require 885 spaces (includes 10%
	Retail $16,508 \text{ sf}/200 = \underline{83}$	62		
	Market	78		

Item	Required Code	Proposed	Meets Code	Comments
	26,500sf/200 = <u>133</u>			<i>effective supply)</i>
	Quality Restaurant 7,460sf/70 = <u>106</u>	122		
	Sit-Down Restaurant 12,505/70 = <u>178</u>	107		
	Fast Casual Restaurant 10,532sf/70 = <u>150</u>	105		
	Residential Units 116 units x 2 ea = <u>232</u>	129		
	Hotel (120 rms x 1) + 5 employees = <u>125</u>	46		
	Office 58,000sf/222 = <u>261</u>	146		
	Spa 25,000sf/ ?? (provide additional information)	48		
	Total Ordinance Required: 1,311+ Spaces	TOTAL PROPOSED: "TBD based on use"		Includes 10% "Effective Supply"
Lighting and Photometric Plan (Sec. 5.7)				
STAFF COMMENT: Photometric plan and additional information is typically required at the time of Final Site Plan when the site is not abutting a residential district.				
<u>If deviations from ordinance requirements are anticipated, they should be identified and included as part of the PRO agreement.</u>				
Intent (Sec. 5.7.1)	Establish appropriate minimum levels, prevent unnecessary glare, reduce spill-over onto adjacent properties & reduce unnecessary transmission of light into the night sky		Yes	
Lighting Plan (Sec. 5.7.2 A.i)	Site plan showing location of all existing & proposed buildings, landscaping, streets, drives, parking areas & exterior lighting fixtures	Building outlines, pavement shown for Phase 1A & B only	Yes	Ensure light fixtures will not conflict with landscaping/utilities
Building Lighting (Sec. 5.7.2.A.iii)	Relevant building elevation drawings	Not provided	No	Would be expected to conform to ordinance

Item	Required Code	Proposed	Meets Code	Comments
	showing all fixtures, the portions of the walls to be illuminated, illuminance levels of walls and the aiming points of any remote fixtures.			standards at the time of FSP approval <u>unless deviations are identified now</u>
Lighting Plan (Sec.5.7.2 A.ii)	Specifications for all proposed & existing lighting fixtures	Appear to be Provided	Yes	
	Photometric data	Provided	Yes	
	Fixture height	Not provided	No	
	Mounting & design	Provided	Yes	
	Glare control devices	Provided	Yes	
	Type & color rendition of lamps	Provided	Yes	
	Hours of operation	Not provided	No	
Required Conditions (Sec. 5.7.3.A)	Light pole height not to exceed maximum height of zoning district (65 ft. for TC)		NA	Light pole height not currently provided – will be reviewed in PSP submittal
Required Conditions (Sec. 5.7.3.B&G)	<ul style="list-style-type: none"> - 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 			Provide standard notes on Plan or incorporate into PRO Conditions
Security Lighting (Sec. 5.7.3.H) Lighting for security purposes shall be directed only onto the area to be secured.	<ul style="list-style-type: none"> - 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. 			will be reviewed in PSP submittal
Required Conditions (Sec.5.7.3.E)	Average light level of the surface being lit to the lowest light of the surface being lit shall not	No indicated for residential portion	No	<u>Deviation requested.</u> Applicant has not proposed lighting in residential parking areas, which is

Item	Required Code	Proposed	Meets Code	Comments
	exceed 4:1			required. Lighting plan should be revised to meet the minimum illumination levels indicated below
Required Conditions (Sec. 5.7.3.F)	Use of true color rendering lamps such as metal halide is preferred over high & low pressure sodium lamps	LEDs proposed	Yes	
Min. Illumination (Sec. 5.7.3.K)	Parking areas: 0.2 min	0.0 proposed in Phase 1B	No	General parking areas expected to comply with min. requirements
	Loading & unloading areas: 0.4 min	Phase 1A – lighting behind building A/loading are not shown	No	Provide lighting data behind building A
	Walkways: 0.2 min	0.0 min noted in several locations	No	Some areas of the public walkway are not illuminated
	Building entrances, frequent use: 1.0 min	Front of building C – lighting below min levels	No	Adjust lighting to meet min levels
	Building entrances, infrequent use: 0.2 min	Photometrics not shown for some door locations	No	Provide lighting data at all commercial door locations
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	Photometrics not shown for property line	No	Show property line on plans to verify conformance
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	No residential districts adjacent	NA	
Building Code and Other Requirements				
Accessory Structures (Sec. 4.19)	- Each accessory building shall meet all setback requirements for the zoning district in which the property is situated - Shall meet the façade ordinance standards		NA	Tea house near pond will be considered an accessory structure, as will generators, transformers, etc.

Item	Required Code	Proposed	Meets Code	Comments
Exterior Building Wall Façade Materials (Sec. 5.15) (Sec. 3.27.1.G)	Façade Region: 1	Elevation drawings submitted for some of the buildings	No	See Façade review for additional comments and further detail
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	Elevations are not provided for all units	No	<u>This information can be provided at the time of Preliminary site plan that conforms to the code</u>
Building Code	Building exits must be connected to sidewalk system or parking lot.	Sidewalks not shown on the plans	No	<u>This information can be provided at the time of Preliminary site plan that conforms to the code</u>
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	MUST provide proposed lot lines on the plans
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).	Some provided;	Yes	Refer to review letters for missing information
Economic Impact	<ul style="list-style-type: none"> - Total cost of the proposed building & site improvements - Number of anticipated jobs created (during construction & after building is occupied, if known) 	Provided	No	Should be submitted prior to Planning Commission meeting
Signage See link below <u>(Chapter 28, Code of Ordinances)</u>	<ul style="list-style-type: none"> - Signage if proposed requires a permit. - <u>Signage is not regulated by the Planning Commission</u> 	The current site plan drawings indicate signage areas on some of the elevations provided – however	No	Provide details of deviations requested. Blank check deviations will not be recommended for approval.

Item	Required Code	Proposed	Meets Code	Comments
	<u>or Planning Division.</u>	most dimensions are missing Deviation requested up to 200% of current Sign ordinance allowance		
Property Address	The applicant should contact the Building Division for an address prior to applying for a building permit.	One is not required at this time. Individual lot address would require separate addresses at a later time	No	<u>Submit address application after Final Site Plan approval.</u>
Project and Street Naming Committee	Some projects may need approval from the Street and Project Naming Committee.	The applicant requested Sakura Novi project name. Approved by committee	Yes	Contact Madeleine Kopko at 248-347-0579 for more information on application and process
Property Split/Combination	The proposed property split/combination must be submitted to the Assessing Department for approval.	Lot combination required	No	Lot combination/split required prior to final site plan approval. Contact Assessing 248-347-0492
Master Deed	Master Deed should be approved for site condominiums prior to stamping set approval		NA	Applicant states commercial portion will remain under single landlord ownership
Easements	<ul style="list-style-type: none"> - Utilities - Emergency/Cross-Access Easements - Conservation Easements - ROW dedication - Etc. 	Easement plan submitted	Yes?	Conservation easement will be required for any wetland mitigation areas or woodland replacement trees; Access easements for Ecco Tool property if properties are connected

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.

I-1 Light Industrial District

3.1.18



User Note: For uses listed in **bold blue**, refer to Article 4, or click on use, for use-specific standards

B. PRINCIPAL PERMITTED USES

- i. Professional office buildings, offices and office sales and service activities
- ii. **Accessory buildings, structures and uses** §4.19 customarily incident to the above permitted uses
- iii. Publicly owned and operated parks, parkways and outdoor recreational facilities
- iv. **Public or private health and fitness facilities and clubs** §4.34
- v. Medical offices, including laboratories and clinics

The following uses are subject to **Section 4.45:**

- vi. Research and development, technical training and design of pilot or experimental products
- vii. Data processing and computer centers
- viii. **Warehousing and wholesale establishments** §4.43
- ix. **Manufacturing** §4.43
- x. **Industrial office sales, service and industrial office related uses** §4.44
- xi. Trade or industrial schools
- xii. **Laboratories experimental, film or testing** §4.43
- xiii. Greenhouses
- xiv. Public utility buildings, telephone exchange buildings, electrical transformer stations and substations, and gas regulator stations, other than outside storage and service yards
- xv. Public or private indoor recreation facilities
- xvi. Private outdoor recreational facilities
- xvii. **Pet boarding facilities** §4.46
- xviii. **Veterinary hospitals** **or clinics** §4.31
- xix. **Motion picture, television, radio and photographic production facilities** §4.47
- xx. Other uses of a similar and no more objectionable character to the above uses
- xxi. **Accessory buildings, structures and uses** §4.19 customarily incident to any of the above permitted uses

C. SPECIAL LAND USES

The following uses shall be permitted where the proposed site does not abut a residentially zoned district:

- i. **Metal plating, buffing, polishing and molded rubber products** §4.48
- ii. **Uses which serve the limited needs of an industrial district (subject to Section 4.43), as follows:**
 - a. Financial institutions, unions, union halls, and industrial trade schools or industrial clinics
 - b. Industrial tool and equipment sales, service, storage and distribution
 - c. **Eating and drinking establishments and motels** §4.49
- iii. **Automobile service establishment** §4.50
- iv. **Self-storage facilities** §4.51
- v. **Retail sales activities** §4.52
- vi. **Central dry cleaning plants or laundries** §4.53
- vii. **Railroad transfer, classification and storage yards** §4.43
- viii. **Tool, die, gauge and machine shops** §4.43
- ix. **Storage facilities for building materials, sand, gravel, stone, lumber, storage of contractor's equipment and supplies** §4.54
- x. **Municipal uses** §4.43
- xi. **Motion picture, television, radio and photographic production facilities** §4.47
- xii. **Outdoor space for parking of licensed rental motor vehicles** §4.90
- xiii. **Accessory buildings, structures and uses** customarily incident to any of the above permitted uses

1 Purpose and Introduction

2 Definitions

3 Zoning Districts

4 Use Standards

5 Site Standards

6 Development Procedures

7 Admin and Enforcement



OS-1 Office Service District

A. INTENT

The OS-1, Office Service District is designed to accommodate uses such as offices, banks, facilities for human care and personal services which can serve as transitional areas between residential and commercial districts and to provide a transition between major thoroughfares and residential districts.



User Note: For uses listed in **bold blue**, refer to Article 4, or click on use, for use-specific standards

B. PRINCIPAL PERMITTED USES

- i. Professional office buildings
- ii. Medical office, including laboratories and clinics
- iii. **Facilities for human care** §4.64
- iv. Financial institution uses with drive-in facilities as an accessory use only
- v. Personal service establishments
- vi. Off-street parking lots
- vii. Places of worship
- viii. Other uses similar to the above uses
- ix. **Accessory structures and uses** §4.19 customarily incident to the above permitted uses
- x. Publicly owned and operated parks, parkways and outdoor recreational facilities
- xi. **Public or private health and fitness facilities and clubs** §4.34

C. SPECIAL LAND USES

- i. **Mortuary establishments** §4.17
- ii. Publicly owned buildings, telephone exchange buildings, and public utility offices, but not including storage yards, transformer stations, or gas regulator stations
- iii. **Day Care Centers** and **Adult Day Care Centers** §4.12.2
- iv. **Public or private indoor and private outdoor recreational facilities** §4.38
- v. An **accessory use** §4.19 customarily related to a use authorized by this Section



3.1.22

OSC Office Service Commercial District

A. INTENT

The OSC, Office Service Commercial district is designed and intended to accommodate a large office building or, more particularly, a planned complex of office buildings with related commercial retail and service establishments which may serve the area beyond the confines of the office complex itself.

The primary intent of this district is to provide limited areas for office buildings of greater height and more intense land use activity in an otherwise low-density community. Because of the greater building height, intensity of land use and associated higher volumes of vehicular and pedestrian traffic, it is further intended that this district be located only in proximity to areas of major commercial or civic development and have direct access to freeway or major thoroughfares.

The OSC district is designed to encourage the combining of mid-rise and low-rise office and office related uses in planned development and to encourage innovation and variety in type, design and arrangement of such uses.



User Note: For uses listed in **bold blue**, refer to Article 4, or click on use, for use-specific standards

B. PRINCIPAL PERMITTED USES

- i. Professional office buildings
- ii. Medical office, including laboratories and clinics
- iii. **Facilities for human care** §4.64
- iv. Financial institution uses with drive-in facilities as an accessory use only
- v. Personal service establishments
- vi. Off-street parking lots
- vii. Places of worship
- viii. Other uses similar to the above uses
- ix. Publicly owned and operated parks, parkways and outdoor recreational facilities
- x. Professional office buildings, offices and office sales and service
- xi. Transient residential uses
- xii. Public utility offices and telephone exchange buildings
- xiii. **Accessory buildings, structures and uses** §4.19 customarily incident to the above permitted uses
- xiv. **The inpatient bed facility** **portion of general hospitals** §4.65
- xv. **Public or private health and fitness facilities and clubs** §4.34

C. SPECIAL LAND USES

- i. **Retail commercial business uses** §4.66
- ii. **Sit-down restaurants** §4.41.3
- iii. **Amusement and entertainment uses** §4.67
- iv. **Day care centers** , and **adult day care centers** §4.12.2
- v. **Public or private indoor and private outdoor recreational facilities** §4.38

A. INTENT

The TC-1, Town Center district is designed and intended to promote the development of a pedestrian accessible, commercial service district in which a variety of retail, commercial, office, civic and residential uses are permitted. Each use shall be complementary to the stated function and purpose of the district and shall not have adverse impact upon adjacent street capacity and safety, utilities, and other City services.

The TC-1 Town Center district is further designed and intended to discourage the development of separate off-street parking facilities for each individual use, and to encourage the development of off-street parking facilities designed to accommodate the needs of several individual uses. Furthermore, it is recognized that uses which have as their principal function the sale or servicing of motor vehicles, such as automobile service establishments, car washes, or new and used motor vehicle sales or service establishments, and drive-in restaurants and restaurants with drive-through facilities, have a disruptive effect on the intended pedestrian orientation of the districts.

The TC-1 District is especially designed to encourage developments of an urban "Main Street" with mixed land uses and shared parking. Flexible regulations regarding streetscape design, landscape design, provision of parking facilities, architectural and facade design, residential dwelling units, and setback standards are intended.



User Note: For uses listed in **bold blue**, refer to Article 4, or click on use, for use-specific standards

B. PRINCIPAL PERMITTED USES

- i. **Retail businesses** §4.78.3
- ii. Retail business service uses
- iii. **Dry cleaning establishments, or pick-up stations, dealing directly with the consumer** §4.24
- iv. Business establishments which perform services on the premises
- v. Professional services
- vi. Post office and similar governmental office buildings, serving persons living in the adjacent residential area
- vii. Off-street parking lots
- viii. Private clubs , fraternal organizations and lodge halls
- ix. **Places of worship** §4.10
- x. **Retail business** §4.27
- xi. **Service establishments of and office showroom or workshop nature** §4.27
- xii. **Restaurants (sit-down), banquet facilities or other places serving food or beverage** §4.27
- xiii. **Theaters, assembly halls, concert halls, museums or similar places of assembly** §4.27
- xiv. **Business schools and colleges or private schools operated for profit** §4.27
- xv. Offices and office buildings
- xvi. Public and quasi-public
- xvii. Indoor commercial recreation facilities

B. PRINCIPAL PERMITTED USES (continued)

- xviii. Outdoor theaters, plazas, parks, public gathering places, including those along a river walk, and like public facilities
- xix. Hotels
- xx. **Financial institutions** §4.81
- xxi. **Residential dwellings** §4.82
- xxii. **Day care centers** and **adult day care centers** §4.12.2
- xxiii. Instructional Centers
- xxiv. Other uses similar to the above uses subject to conditions noted
- xxv. **Accessory structures and uses** §4.19 customarily incidental to the above permitted uses

C. SPECIAL LAND USES

The following uses shall be permitted by the City Council, following review and recommendation of the Planning Commission:

- i. **Open air business uses** §4.80.1
- ii. **Sale of produce and seasonal plant materials outdoors** §4.30
- iii. **Veterinary hospitals** or **clinics** §4.31
- iv. **Fast food drive-through restaurants** §4.40
- v. **Microbreweries** §4.35
- vi. **Brewpubs** §4.35



ENGINEERING REVIEW



PLAN REVIEW CENTER REPORT

October 22, 2019

Engineering Review

Sakura Way PRO
JZ19-0031

Applicant

Sakura Novi, LLC

Review Type

PRO Concept Plan

Property Characteristics

- Site Location: North of Grand River Avenue, East of Town Center Drive
- Site Size: 15.59 Acres
- Plan Date: October 2, 2019
- Design Engineer: PEA, Inc.

Project Summary

- Phase 1 (12.75 acres): Construction of mixed-use buildings (30,000 s.f. market, 5 restaurants, and 4 retail spaces), 68 townhomes, and associated parking.

Phase 2 (2.75 acres): The baseline option would allow for the construction of 70 townhomes. The maximum buildout option would allow for the construction of a hotel, mixed use buildings (retail/office space, a spa, apartments and restaurants), and a parking structure.

Phase 3 (3.50 acres): Construction of 52 townhomes and associated parking.

Site access to phases 1 and 2 would be provided via Grand River Avenue and Eleven Mile Road. Site access to phase 3 would be provided via Eleven Mile Road.

- Water service would be provided by an 8-inch extension from the existing 12-inch water main along the north side of 11 Mile Road. The aforesaid water main extension will have two (2) connections to 11 Mile Road to provide a looped water main system on the proposed site.
- Sanitary sewer service would be provided by an 8-inch extension from the existing 8-inch sanitary sewer along the south side of 11 Mile Road.
- Storm water would be collected by two (2) separate storm sewer collection systems (detention basins). The western detention basin would be discharged to existing 12-inch storm sewer along the north side of Grand River Avenue at a controlled rate. The eastern detention basin would be discharged to a wetland on the abutting parcel to the east owned by the city of Novi.

Recommendation

Recommendation removed

Comments:

The Revised Concept Plan for phases 1 and 2 only meet the general requirements of the design and construction standards as set forth in Chapter 11 of the City of Novi Codified Ordinance, the Storm Water Management Ordinance and the Engineering Design Manual with the following items that must be addressed at the time of Preliminary Site Plan submittal:

General

1. Reference benchmarks established at intervals no greater than 1,200 feet shall be noted on the plans with identification, location, description and established elevation listed. Generally, at least two benchmarks shall be noted on each sheet and one of the two shall be a City established benchmark.
 - a. Provide the elevation of the City established benchmark.
 - b. Reference at least two benchmarks.
2. No utility information was presented for phases 2 or 3. Thus, no specific utility comments for these phases have been provided.
3. For all non-residential development, a Non-Domestic User Survey form must be submitted to the City so it can be forwarded to Oakland County.
4. Provide a note stating, "If dewatering is anticipated or encountered during construction a dewatering plan must be submitted to the Engineering Department for review".
5. Generally, all proposed trees shall remain outside utility easements. Where proposed trees are required within a utility easement, the trees shall maintain a minimum 5-foot horizontal separation distance from any existing or proposed utility.
6. Provide soil borings, at the time of detailed site plan review, in the vicinity of the storm water basins to determine soil conditions and to establish the high water elevation of the groundwater table.
7. The master planned half width right-of-way for Eleven Mile Road is 35 feet. There is a note on the plans indicating the dedication of this right-of-way to the City.
8. The master planned half width right-of-way for Grand River Avenue is 60 feet. There is a note on the plans indicating the dedication of this right-of-way to the City.
9. A letter from either the applicant or the applicant's engineer must be submitted with the Preliminary Site Plan submittal highlighting the changes made to the plans addressing each of the comments in this review.

Water Main

10. It is assumed that the 12-inch water main could be reasonably extended from the north side of Eleven Mile to service phase 2.
11. It is assumed that the 8-inch water main on the west side of parcel 22-23-229-007 could be extended to service phase 3.
12. The as-builts from Advance Auto (parcel 50-22-23-126-015) do not indicate that 8-inch water main was stubbed at the western boundary of their property. A revision to this proposed water main connection may be necessary.
13. Note the diameter and length of all leads (domestic, fire and hydrant leads).
14. Any hydrant lead over 25 feet long must be 8-inches in diameter.
15. There is a gate valve shown on sheet C-5.1 between building 10 and building 'A' that does not appear to be associated with any water main. If this is an error, please remove it from the plans.
16. Provide profile views for all proposed water main 8-inch and larger.
17. Once the water man plans have been reviewed in detail and approved, provide three (3) signed and sealed sets of utility plans along with the MDEGLE permit application (04/2019 rev.) for water main construction. 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

18. It is assumed that the 8-inch water main could be reasonably extended from the south side of Eleven Mile to service phase 2.
19. It is assumed that the 8-inch sanitary sewer on the west side of parcel 22-23-229-007 could be extended to service phase 3.
20. According to the City's records, the sanitary sewer along Eleven Mile Road is a 27-inch sewer, not 8-inch. See attached map. A revision to the sanitary sewer layout may be necessary.
21. Phase 1, building 'B' is proposed to be a restaurant. Therefore, a grease interceptor is required and should be called out.
22. A few of the sanitary sewer leads are missing a label and sizing information. Clearly provide and label a lead to every building.
 - a. Building 6 is missing a sanitary lead.
23. Clearly label each sanitary sewer monitoring manhole unique to a non-residential building.
24. Provide profile views for all proposed sanitary sewer greater than 6-inches.
25. Once the sanitary sewer plans have been reviewed in detail and approved, provide three (3) sealed sets, as well as an electronic copy, of the utility plans along with the MDEGLE permit application (01/18 rev.) for sanitary sewer construction and the Streamlined Sanitary Sewer Permit Certification

Checklist. These documents shall 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. Please contact the MDEGLE and the City of Novi if an expedited review is desired.

Storm Sewer

26. 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.
27. Provide storm sewer profiles and illustrate all pipes intersecting storm structures.
28. Show and label all roof conductors, and show where they tie into the storm sewer.
29. Provide a four-foot deep sump and an oil/gas separator in the last storm structures prior to discharge to each storm water basin.

Storm Water Management Plan

30. 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.
 - a. A storm water management plan for phase 3 is required.
31. Refer to the Wetland Review letter from ECT to address any concerns with the discharge of the eastern detention basin into the City owned wetland.
32. Provide release rate calculations for the three design storm events (first flush, bank full, 100-year).
33. Provide supporting calculations for the runoff coefficient determination.
 - a. The calculations should reflect the two different plans for phase 2, assuming the amount of impervious/pervious cover varies.
34. Label the material proposed for the maintenance access route to the basin outlet structures, and label the 15-foot width and slope (maximum of 1V:5H).
35. Provide an access easement from the public right-of-way for maintenance over the storm water detention system and the pretreatment structure.
36. A 25-foot vegetated buffer shall be provided around the perimeter of each storm water basin associated with residential development. A **deviation** from this standard would be supported by the Engineering Department if the buffer is not feasible and it should be included in the PRO Agreement.
37. If a 3-foot permanent pool is provided in the detention basin to the west, as indicated in the response letter, then a mechanical treatment unit is not required in the last structure prior to discharge to the basin.
38. Indicate where the mechanical treatment unit for the eastern basin can be found.
39. An emergency spillway must be provided at an elevation that is 6-inches above the 100-year elevation and must have sufficient capacity to convey the peak flow associated with a 100-year design storm.

Paving & Grading

40. The maneuvering lane widths throughout the development shall be 24 feet wide. Any width less than that would be considered a **deviation**.
41. Provide existing and proposed contours for all phases on the Grading Plan.
42. The right-of-way sidewalk shall continue through the drive approach on Eleven Mile Road as well as Grand River Avenue. If like materials are used for each, the sidewalk shall be striped through the approach. Provide additional spot grades as necessary to verify the maximum 2-percent cross-slope is maintained along the walk.
43. Verify the slopes along the ingress/egress routing to the building from the barrier-free stalls. All barrier-free stalls shall comply with Michigan Barrier-Free regulations.
44. Provide top of curb/walk and pavement/gutter grades to indicate height of curb adjacent to parking stalls or drive areas.
 - a. Curbing and walks adjacent to the end of 17-foot stalls shall be reduced to 4-inches high (rather than the standard 6-inch height to be provided adjacent to 19-foot stalls).

Soil Erosion and Sediment Control

45. A SESC permit is required. A full review has not been completed at this time. An informal review will be completed with the Final Site Plan if SESC plans are included in the submittal.

Off-Site Easements

46. 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.
 - a. An off-site storm sewer easement may be necessary for the end section and discharge of storm water on the City of Novi's property (parcel 22-23-226-042).

The following must be provided at the time of Preliminary/Final Site Plan submittal:

47. A letter from either the applicant or the applicant's engineer must be submitted with the revised Preliminary Site Plan highlighting the changes made to the plans addressing each of the comments listed on this review letter and indicating the revised sheets involved.
48. 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), 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 at the time of Stamping Set submittal:

49. 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.
50. A draft copy of the 20-foot wide easement for the water main to be constructed on the site must be submitted to the Community Development Department. This document is available on our website.
51. A draft copy of the 20-foot wide easement for the sanitary sewer to be constructed on the site must be submitted to the Community Development Department. This document is available on our website.
52. A draft copy of the 20-foot wide easement for the sanitary sewer monitoring manholes to be constructed on the site must be submitted to the Community Development Department. This document is available on our website.
53. A draft copy of the cross access easement for shared access to the drive aisle between Ecco Tool and Sakura Way must be submitted to the Community Development Department. This document is available on our website.
54. A draft copy of the warranty deed for the additional proposed right-of-way along Eleven Mile Road and Grand River Avenue must be submitted for review and acceptance by the City.

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 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.



Kate Richardson, EIT
Plan Review Engineer

Engineering Review of PRO Revised Concept Plan

Sakura Way
JZ19-0031

10/22/2019

Page 7 of 7

cc: Lindsay Bell, Community Development Department
Ben Croy, PE; Engineering
Victor Boron, Engineering

City of Novi Map



MAP INTERPRETATION NOTICE

Map information depicted is not intended to replace or substitute for any official or primary source. This map was intended to meet National Map Accuracy Standards and use the most recent, accurate sources available to the people of the City of Novi. Boundary measurements and area calculations are approximate and should not be construed as survey measurements performed by a licensed Michigan Surveyor as defined in Michigan Public Act 132 of 1970 as amended. Please contact the City GIS Manager to confirm source and accuracy information related to this map.

mi
0 0.005 0.01 0.02 0.03

1 inch = 188 feet



Map Print Date:
10/21/2019



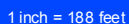
City of Novi

45175 Ten Mile Rd
Novi, MI 48375
cityofnovi.org

22-14-451-012
ELEVEN MIL



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45175 Ten Mile Rd
Novi, MI 48375
cityofnovi.org

LANDSCAPE REVIEW



PLAN REVIEW CENTER REPORT

October 22, 2019

Revised PRO Concept Site Plan - Landscaping Sakura Way

Review Type

Revised PRO Concept Landscape Review

Job

JZ19-0031

Property Characteristics

- Site Location: Northeast of Town Center and Grand River
- Site Zoning: OSC, OS-1, I-1, to be rezoned to TC-1
- Adjacent Zoning: North: 11 Mile Road, I-1, East: I-1, B-3, South: B-3, Grand River, West: TC
- Plan Date: 10/2/2019

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 Preliminary Site Plan submittal. Underlined items must be addressed on Final Site Plans. 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

Recommendation removed.

LANDSCAPE DEVIATIONS REQUIRED FOR PROPOSED CONFIGURATION:

PHASE 1

COMMERCIAL:

- Insufficient greenbelt landscaping. *Not supported by staff.*
- Insufficient interior parking lot landscaping area and canopy trees provided. *Not supported by staff.*
- Insufficient parking lot perimeter trees. *Not supported by staff*
- Lack of screening wall or berm for parking areas. *Supported by staff*
- Lack of building foundation landscaping. *Not supported by staff.*

RESIDENTIAL:

- No buffering berms for multi-family housing provided between residential buildings and the B-3 and I-1 zoned properties. *Not supported by staff as currently proposed.*
- Lack of interior drive perimeter trees provided. *Not supported by staff.*
- Insufficient greenbelt width and berm between parking lot and 11 Mile Road. *Supported by staff.*
- Use of subcanopy trees for 25% of multifamily unit landscaping trees. *Supported by staff.*

PHASE 2:

- Insufficient greenbelt landscaping. *Not supported by staff.*
- Insufficient parking lot trees. *Not supported by staff.*

PHASE 3:

- No landscaping is proposed – *it is assumed that the Phase 3 landscaping will meet all landscape requirements or go back to Planning Commission/City Council for deviations for that phase.*

Please add a summary table of all landscape deviations sought, the extent of those deviations (ie number of trees not planted) and justification for those deviations, to the landscape plans.

Wherever possible, the plans should be modified or enhanced to reduce and ideally remove as many deviations as possible.

General notes:

1. As no landscape information is provided about Phase 3, it is assumed that all of that phase will meet all landscape requirements, including required landscaped screening berms, right-of-way landscaping, multi-family landscaping, parking lot landscaping and detention basin landscaping. If they do not, the PRO will need to be modified per whatever deviations are sought.
2. The residential section is designed so only the rears of the buildings are facing the drives, with no room for landscaping to soften the views of garages and the backs of townhouses. This would create long stretches of unattractive interior drives between the buildings, especially in the Phase 1 residential area.

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

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

1. The grading plan is not consistent with the Tree Protection Plan in terms of trees to be saved/protected.
2. **Please correct that inconsistency and show all trees to be removed or saved on both plans, with tree protection fence consistently shown between the plans, and the demolition plan.**

Adjacent to Residential - Buffer (Zoning Sec. 5.5.3.B.ii and iii)

1. Buildings 3 and 5 are adjacent to I-1 zoning. The required 10-15' tall landscaped berm is not provided. A tall hedge and deciduous trees are proposed. **Please provide a taller buffer that provides significant audible buffering, such as an 8' tall wall instead of the hedge. At the minimum, a noise study indicating that a noise buffering wall is not necessary must be provided.** *As currently configured, the landscape deviation requested is not supported by staff.*
2. Building 9 is adjacent to the commercial section and a loading area for the market where large trucks will travel. The required 6-8' tall landscaped berm between residential and commercial uses is not provided. A 3' tall hedge and deciduous canopy trees are proposed. **Please provide a taller buffer that provides significant audible buffering, such as a 6' tall wall instead of the hedge or proof that such audible buffering is not required.** *As currently proposed, the deviation is not supported by staff.*
3. The southern parking bay is adjacent to B-3 zoning. The required 6-8' tall landscaped berm is not provided. An evergreen hedge and deciduous trees are proposed as a buffer. *The landscape deviation for this frontage is supported if the applicant will agree*

to manage the hedge at a height of 6 feet above ground level.

4. **Phase 3 also has residential adjacent to I-1 zoned and developed property to the east but there doesn't appear to be sufficient room for the required berms or alternate screening.** *This would require a landscape deviation that is not supported by staff.*

Adjacent to Public Rights-of-Way – Berm/Wall, Buffer and Street Trees (Zoning Sec. 5.5.3.B.ii, iii)

1. COMMERCIAL:
 - a. **Grand River Avenue:**
 - i. The required greenbelt width is provided.
 - ii. The required berm or brick wall are not provided. A decorative fence with brick piers, with dense landscaping, is proposed instead but no detail is provided in the plans. **Please provide a detail of the proposed fence and piers in the landscape plans.** *The deviation for a lack of wall or berm can still be supported as the landscaping appears to provide 80-90% opacity throughout the year.*
 - iii. Based on the frontage, 24 canopy trees are required but only 18 are proposed. *This deviation is not supported by staff.*
 - b. **11 Mile Road:**
 - i. The required greenbelt width is provided.
 - ii. The required berm or brick wall are not provided between the road and the parking lot in Phase 2. *This deviation is not supported by staff.*
 - iii. Based on the frontage, the Phase 2 greenbelt needs to have 21 canopy trees or 31 subcanopy trees. 19 canopy trees are proposed. *This deviation is not supported by staff.*
 - iv. **Please spread the provided greenbelt trees across the site more, and add two more canopy trees in order to remove the landscape deviation.**
2. PHASE 1 RESIDENTIAL:
 - a. The required greenbelt width is provided everywhere along the 11 Mile Road frontage except between the ROW and the Building 4 parking lot, where 20 feet is required but only 7 feet is proposed. **This requires a landscape deviation.** *It is supported because the greenbelt is densely planted with evergreens to screen the parking lot.*
 - b. Most of the 11 Mile Road frontage does not front on parking, so no wall or berm is required, except for in front of the small Building 4 parking lot. As noted above, the lot is screened with densely planted evergreens so *the deviation for lack of wall or berm is supported by staff.*
 - c. Based on the frontage, 13 deciduous canopy or large evergreen greenbelt trees or 20 subcanopy trees are required. 11 subcanopy trees are provided in the right-of-way. **Please provide the remaining required subcanopy trees.** *The deficiency in plantings is not supported by staff.*
 - d. While no street trees are required in the TC-1 district, staff agrees that the addition of the crabapples between the curb and sidewalk as proposed would be an attractive look, so those trees can remain and be counted toward the requirement for subcanopy greenbelt trees.
 - e. **Please use a more upright variety of crabapple in the right-of-way to provide better vehicle and pedestrian clearance.**

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

1. COMMERCIAL:
 - a. Based on the vehicular use area calculations provided, a total of 7,026 of interior landscape area and 35 canopy trees are required. A total of 7,032sf of area and 27 trees are provided, some in islands with less than 200sf per tree. **These shortages in interior landscape area and trees require landscape deviations.** *They are not supported by staff.* Please see the landscape chart for a detailed explanation.

- b. **Please add the area of the Building B loading area to the calculation.**
 - c. Based on the perimeter provided, 81 canopy trees are required but only 59 are provided, some of these are subcanopy trees. *This is also a landscape deviation which is not supported by staff as there is room on the site for more to be provided. Please see the landscape chart for a detailed discussion.*
 - d. **Please label all islands counted toward the requirement with their area in SF.**
 - e. **Please add islands, trees and endcap landscaping where necessary to minimize or eliminate the landscape deviations.**
 - f. **Please adjust the Building A loading area parking lot to allow room for the required perimeter trees along the south edge of the pavement.**
2. **RESIDENTIAL:**
The parking bays are only on one side of the drive, so only perimeter trees are required, at the same rate as for the interior drives (1 tree per 35lf). Please see the Multifamily Residential section of the landscape chart for a detailed discussion of this.

Building Foundation Landscaping (Zoning Sec. 5.5.3.D.)

1. Detailed foundation plantings are provided for Buildings A, B and C. The requirement for 60% of Building C's frontage being landscaped is met.
2. Based on the calculations provided, the requirement for the foundation landscape area for any of the buildings is not met, so **a landscape deviation is required**. *The deviation is not supported by staff.*
3. **Please amend the table provided to include columns with each buildings' perimeters (less doorways and delivery areas), the area required, the area of planted area at the building foundation, the area of decorative pavement adjacent to the building, the total of planted area and decorative paving area provided, and the discrepancy between the area required and the area provided.**
4. **Please add as much foundation planting area around each building as possible to lower the extent of the deviation.**
5. **See the detailed discussion of foundation plantings areas on the landscape chart.**

Multi-Family Residential Landscaping (Zoning Sec. 5.5.3.F.ii.)

1. Unit landscaping
 - a. Based on the number of units (68), 204 canopy or evergreen trees are required to be planted throughout the Phase 1 residential section of the site. 204 trees are provided, 46 of which are subcanopy trees (23%).
 - b. **A landscape deviation is required to use subcanopy trees instead of large evergreen or canopy trees for unit landscaping.** *Staff supports the use of a mix of subcanopy trees for up to 25% of that requirement in order to increase the diversity of plantings on the site, so the proposed deviation is supported by staff.*
 - c. **Unit trees cannot be used to meet the greenbelt requirement along 11 Mile Road. Please reclassify the required number of trees in front of the units facing 11 Mile Road as greenbelt trees to meet the greenbelt requirement and plant the unit trees elsewhere on the site.**
2. Interior drive plantings.
 - a. Based on the calculations provided, 66 interior street trees are required but only 41 are provided. *This is a deviation that is not supported by staff.* Please plant all required trees.
 - b. **Please don't use subcanopy trees as interior drive street trees.**
 - c. **Please see the detailed discussion on the Landscape Chart.**
3. Foundation plantings.
 - a. 35% of the front of the units' front facade must be landscaped with a mix of planting types. Due to the layout of the residential section of the project, none of the required foundation plantings are located between the building and the internal drives but as the applicant has designated the fronts of all of the buildings except 1, 2 and 3 as

- facing the wetland or internal open space, the proposed layout and landscaping does conform to the ordinance requirement.
- b. **While the proposed layout does meet the ordinance requirements, the applicant is encouraged to provide at least some landscaping on the internal drive side of the buildings to soften what will otherwise be a very barren appearance of wide areas of paving along the long stretches of drive between the buildings. As the drives will be used extensively by residents and visitors it would be very much appreciated to do all that is possible to make those areas as attractive as possible.**

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

1. It appears that both ponds have adequate coverage of the rim with shrubs but it appears that many of them are not native to Michigan. **Please make sure that at least 70-75% of both ponds' HWL are planted with large shrubs native to Michigan.**
2. Phragmites is indicated as existing on the site and plans for its removal are provided.

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

1. Provided
2. 18 of 41 species used (44%) are native to Michigan. **Please add or substitute native species on the plan to increase that percentage to at least 50%.**
3. The tree diversity guidelines for non-woodland replacement trees are met.
4. **Please use a native grass/sedge seed mix for the meadow area instead of the Scottish links mixture.**

Planting Notations and Details (LDM)

1. Provided
2. **Please see the Landscape Chart for notes about the details, notes and cost estimate.**

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. Please provide an irrigation plan or note how this will be accomplished if an irrigation plan is not provided on Final Site Plans. An actual irrigation plan could be provided in the electronic stamping set if desired.

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 rmeader@cityofnovi.org.



Rick Meader – Landscape Architect

LANDSCAPE REVIEW SUMMARY CHART – Revised PRO Concept

Review Date: October 22, 2019
Project Name: JZ19-0031: Sakura Way
Plan Date: October 2, 2019
Prepared by: Rick Meader, Landscape Architect E-mail: rmeader@cityofnovi.org;
Phone: (248) 735-5621

Items in **Bold** need to be addressed by the applicant on the Preliminary Site Plan. Underlined items need to be addressed on the Final Site Plan.

LANDSCAPE DEVIATIONS REQUIRED FOR PROPOSED CONFIGURATION:

PHASE 1

COMMERCIAL:

- Insufficient greenbelt landscaping. *Not supported by staff.*
- Insufficient interior parking lot landscaping area and canopy trees provided. *Not supported by staff.*
- Insufficient parking lot perimeter trees. *Not supported by staff*
- Lack of screening wall or berm for parking areas. *Supported by staff*
- Lack of building foundation landscaping. *Not supported by staff.*

RESIDENTIAL:

- No buffering berms for multi-family housing provided between residential buildings and the B-3 and I-1 zoned properties. *Not supported by staff as currently proposed.*
- Lack of interior drive perimeter trees provided. *Not supported by staff.*
- Insufficient greenbelt width and berm between parking lot and 11 Mile Road. *Supported by staff.*
- Use of subcanopy trees for 25% of multifamily unit landscaping trees. *Supported by staff.*

PHASE 2:

- Insufficient greenbelt landscaping. *Not supported by staff.*
- Insufficient parking lot trees. *Not supported by staff.*

PHASE 3:

- No landscaping is proposed – *it is assumed that the Phase 3 landscaping will meet all landscape requirements or go back to Planning Commission/City Council for deviations for that phase.*

Please add a summary table of all landscape deviations sought, the extent of those deviations (ie number of trees not planted) and justification for those deviations, to the landscape plans.

Wherever possible, the plans should be modified or enhanced to reduce and ideally remove as many deviations as possible.

Item	Required	Proposed	Meets Code	Comments
Landscape Plan Requirements (LDM (2))				
Landscape Plan (Zoning Sec 5.5.2, LDM 2.e.)	<ul style="list-style-type: none">▪ 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: 1"=40'	Yes	

Item	Required	Proposed	Meets Code	Comments
	scale can be approved by LA ▪ Consistent with plans throughout set			
Project Information (LDM 2.d.)	Name and Address	Location map is provided on the landscape plan	Yes	
Owner/Developer Contact Information (LDM 2.a.)	Name, address and telephone number of the owner and developer or association	Address and business name on the cover sheet.	No	Please include on landscape plans.
Landscape Architect contact information (LDM 2.b.)	Name, Address and telephone number of RLA	The landscape plan was created by Grissim Metz Andriese	Yes	
Sealed by LA. (LDM 2.g.)	Requires original signature	Yes	Yes	<u>A live signature will be required on the stamping sets.</u>
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	Site: OSC, OS-1, I-1 – to be rezoned to TC-1 with PRO East: I-1, B-3 South: B-3, Grand River Ave West: TC North: 11 Mile Road, I-1	Yes	Please use current TC-1 zoning landscape requirements in calculations. Those shown for the greenbelt calculations are not consistent with the current requirements. https://cityofnovi.org/Reference/Code-of-Ordinances-and-City-Charter/18-283LandscapeStandards.aspx
Survey information (LDM 2.c.)	▪ Legal description or boundary line survey ▪ Existing topography	Sheets C-1.1, C-1.2, C-1.3	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.	▪ It appears on C4.1 that grading along the east end of Phase 2 will eliminate the trees there but T-1.0 shows them as being saved and protected. ▪ Tree survey is provided on T-1.0 and T-1.1 ▪ All on-site trees on the site except for along the	Yes	1. Please be consistent between sheets regarding trees being saved or removed. 2. Please show all off-site trees within 50' of the edge of disturbance as they could be negatively impacted by construction. 3. Please propose protection for all onsite trees to be

Item	Required	Proposed	Meets Code	Comments
		property edges are proposed to be removed. ▪ Woodland replacement calculations are provided on Sheet L101		saved and nearby offsite trees and their critical root zones. 4. See ECT letter for complete review of woodlands and wetlands.
Soil types (LDM.2.r.)	<ul style="list-style-type: none"> As determined by Soils survey of Oakland county Show types, boundaries 	Sheet L101	Yes	
Existing and proposed improvements (LDM 2.e.(4))	Existing and proposed buildings, easements, parking spaces, vehicular use areas, and R.O.W	Shown on landscape plans	Yes	Please don't propose woodland replacement trees where they would need to be removed for future phases of development.
Existing and proposed utilities (LDM 2.e.(4))	<ul style="list-style-type: none"> Overhead and underground utilities, including hydrants must be shown on landscape plan. Proposed light posts must also be shown. 	Utilities and light poles are shown.	Yes	Please make sure the light post locations are consistent with the latest photometric plan (it appears to be).
Proposed grading. 2' contour minimum (LDM 2.e.(1))	Provide proposed contours at 2' interval	<ul style="list-style-type: none"> Spot elevations and detention basin contours provided on Sheet C-4.1, C-4.2 No berms are proposed 	Yes (grading is shown)	See above note about disparity between T-1.0 and grading plan.
Snow deposit (LDM.2.q.)	Show snow deposit areas on plan	<ul style="list-style-type: none"> An area in Phase 2 is proposed. Plans for snow deposit should also consider where snow will go when Phase 2 is built. 	No	Please add notes indicating snow deposit areas on the landscape plan that won't hurt proposed landscaping when Phase 2 is developed.

LANDSCAPING REQUIREMENTS

Berms, Walls and ROW Planting Requirements

Berms

- All berms shall have a maximum slope of 33%. Gradual slopes are encouraged. Show 1ft. contours
- Berm should be located on lot line except in conflict with utilities.
- Berms should be constructed of loam with 6" top layer of top soil.

Residential Adjacent to Non-residential (Sec 5.5.3.A) & (LDM 1.a)

Berm requirements	▪ A 6-8 feet high berm	▪ No screening	▪ South	1. As the required
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Item	Required	Proposed	Meets Code	Comments
(Zoning Sec 5.5.A)	<p>with landscaping providing 80% winter and 90% summer opacity is required along the south property line between multi-family residential and adjacent B-3 properties and between the residential building and the loading area.</p> <ul style="list-style-type: none"> ▪ A 10-15 feet high berm,, with a 6 foot wide crest with landscaping providing 80% winter opacity and 90% summer opacity is required between the multi-family residential section of the site and the I-1 existing use on 11 Mile Road 	<p>berm is proposed for any of the areas in question.</p> <ul style="list-style-type: none"> ▪ The proposed screening along the south property line is a continuous evergreen hedge and canopy trees placed 25 feet o.c. ▪ The proposed screening between Building 9 and the parking lot/loading area to the west is a continuous evergreen hedge and a line of canopy trees spaced 18 feet o.c.. ▪ The proposed screening between the I-1 zoned and used property and buildings 3 and 5 is a continuous evergreen hedge along the property line with a line of canopy trees spaced 18 feet o.c.. Adjacent to the parking lot is a hedge with a line of canopy trees behind it spaced 16' o.c. ▪ While not required, an evergreen hedge is located along the east 	<p>property line: No</p> <ul style="list-style-type: none"> ▪ Building 9 buffer: No ▪ Buildings 1 & 5 buffer: No 	<p>berms are not provided for the first 3 locations, landscape deviations are required for all 3. See the discussions below for each berm.</p> <ol style="list-style-type: none"> 2. Please correct the detail numbering. 3. South property line: As the parking lot abuts the south property line, the proposed hedge is acceptable, but the hedge should be maintained at a height of at least 6 feet above ground level. Please add a note to this effect on Sheet L302. <i>The deviation for this is supported by staff if the above change is noted on the plans.</i> 4. The buffer between Building 9 and the parking lot loading area is not sufficient as proposed. <i>Staff is concerned about the noise from delivery vehicles using that area. The deviation is not supported by staff without assurance that the proposed buffering will provide sufficient noise blockage, not just visual.</i> 5. The buffer between Buildings 3 and 5 and the industrial property to the west is visually sufficient. The applicant needs to provide some

Item	Required	Proposed	Meets Code	Comments
		<p>property line of the commercial section to screen the parking and loading area from the property to the east.</p> <ul style="list-style-type: none"> No heights of the hedges are indicated on the plans. 		<p>assurance that the proposed screening will provide sufficient audible buffering from the existing industrial use such as a noise study. <i>Until that is provided, staff does not support this deviation.</i></p> <p>6. Note: The applicant must show the minimum heights of each hedge on the landscape plan (Sheet L302) and incorporate those minimum heights into the master deed.</p>
Planting requirements (LDM 1.a.)	LDM Novi Street Tree List	NA		
Walls (LDM 2.k & Zoning Sec 5.5.3.vi)				
Material, height and type of construction footing	Freestanding walls should have brick or stone exterior with masonry or concrete interior	Four retaining walls are proposed around the site.	TBD	<p>1. Please clearly show and call out all walls on the landscape plans.</p> <p>2. Please match the wall shown near Building 4 with the other sheets in the set.</p>
Walls greater than 3 ½ ft. should be designed and sealed by an Engineer		TBD		Detailed plans need to be provided with building plans.
ROW Landscape Screening Requirements (Sec 5.5.3.B. ii) and (LDM 1.b)				
Greenbelt width (2)(3) (5)	<ul style="list-style-type: none"> Adjacent to pkg: 20 feet Not adjacent to pkg: 0 feet 	<p><u>COMMERCIAL:</u> <u>Grand River Ave:</u></p> <ul style="list-style-type: none"> 20 feet adj to pkg 15 feet not adj. <p><u>11 Mile Road Ph 2:</u> <u>Residential:</u> 17' <u>Commercial:</u></p> <ul style="list-style-type: none"> Adj to pkg: 26' Not adj: 10' <p><u>11 Mile Road</u> <u>Residential:</u> Adj to pkg: 7'</p>	<p><u>Commercial:</u> Yes</p> <p><u>Residential:</u> No (near parking lot)</p> <p><u>Phase 2:</u> Yes</p> <p><u>Phase 3:</u></p>	<p>1. Please clearly show the right-of-way lines on all of the landscape sheets.</p> <p>2. Please provide required greenbelt widths for residences along all frontages.</p> <p>3. A landscape deviation is required for the area with less than 20' required greenbelt width adjacent to parking</p>

Item	Required	Proposed	Meets Code	Comments
		Not adj to pkg: 17' <u>PHASE 3</u> <u>RESIDENTIAL:</u> Residential: 12-17'	Yes	in the residential area. 4. <i>As there is dense evergreen landscaping proposed between the lot and the sidewalk for that section, the deviation is supported by staff.</i>
Berm requirements (Zoning Sec 5.5.3.A.(5))				
Min. berm crest width	<ul style="list-style-type: none"> No berm is required in TC-1 district for frontage not adjacent to parking. Per Zoning Ordinance 3-27, surface parking lots shall be screened from all public rights-of-way and internal roads by either a 2.5 foot tall ornamental brick wall or a landscaped berm. 	<ul style="list-style-type: none"> No walls or berms are proposed along the rights-of-way. A note indicates that ornamental piers with metal fencing and significant landscaping is proposed to screen parking along Grand River. No visual image of this is included in the plans. A Woodward Arborvitae hedge and clumping bamboo are also proposed to screen the parking lots from Grand River Avenue. No berm, wall or hedge is proposed to block the north commercial parking lot from view of 11 Mile Road. 	<u>Grand River:</u> No <u>11 Mile Road:</u> No	<ol style="list-style-type: none"> A brick wall or landscaped berm is required along all frontages between parking and the right-of-way As neither a berm nor a wall is proposed for either parking frontages, a landscape deviation is required. <i>It is supported by staff for the Grand River frontage as the hedge and bamboo should provide the required screening. It is not supported for the 11 Mile Road as no alternate screening is proposed.</i> Please add a note to the plan stating that the hedge and bamboo shall be maintained at a height at least as tall as 36", and add that requirement to the master deed. Please add some sort of continuous screening for the 11 Mile Road commercial lot (wall or hedge). A deviation would still

Item	Required	Proposed	Meets Code	Comments
				<i>be required but it would be supported by staff.</i>
Minimum berm height (9)	If a berm is provided it should be at least 2.5' tall.	None	No	See above
3' wall	<ul style="list-style-type: none"> ▪ (4)(7) 	No walls are proposed for right-of-way except for Grand River sign.	NA	
Canopy deciduous or large evergreen trees Notes (1) (10)	<ul style="list-style-type: none"> ▪ Adjacent to pkg: 1 tree per 25lf frontage (net of access drives) ▪ Not adjacent to pkg: 1 tree per 30 lf frontage (net of access drives) ▪ Only canopy/ evergreen or subcanopy requirement must be met in TC-1, not both <p><u>11 Mile Road</u> <u>Ph 2 Commercial OR Residential</u></p> <ul style="list-style-type: none"> ▪ Adj: 65/25 = 3 trees ▪ Not adj: 545/30=18 trees <p><u>Phase 1 Residential</u></p> <ul style="list-style-type: none"> ▪ Adj: 80/25 = 3 trees ▪ Not adj: 290/30=10 trees <p><u>Grand River</u></p> <ul style="list-style-type: none"> ▪ Adj: 433/25 = 17 trees ▪ Not adj: 215/30 = 7 trees <p><u>Phase 3 Residential</u></p> <ul style="list-style-type: none"> ▪ Not adj: 468/30=16 trees <p>Please see the illustration of corner clearance zone for 11 Mile road below, and how to deduct them from the basis of calculation in footnote 5.5.3.B.ii.f (19).</p>	<p><u>11 Mile Road – Phase 2</u> 19 Autumn Blaze Maples (2 fewer than required)</p> <p><u>Phase 1 Residential</u> 0 canopy trees</p> <p><u>Grand River Ave</u> 18 Gingko biloba (6 fewer than required)</p> <p><u>Phase 3 Residential</u> 0 canopy trees</p>	<p><u>11 Mile:</u> No</p> <p><u>Grand River:</u> No</p> <p><u>Phase 3:</u> No</p>	<ol style="list-style-type: none"> 1. Please revise the calculations to use the current TC-1 requirements. 2. Please move all greenbelt trees to within the greenbelt (behind the property line, not in the right-of-way), except as noted below (subcanopy trees) at the residential section. 3. Please plant greenbelt trees along the entire Phase 2 11 Mile road frontage except at the proposed drive as there is no guarantee of the phase's future layout at this time. 4. The mature width of the Freeman maple is 30-40' wide but they are spaced 15' o.c. Please space the Phase 2 greenbelt trees further apart (at least 25' o.c.) 5. Unit foundation trees may not be double-counted as greenbelt trees. 6. A landscape deviation is required for any deficiencies in trees provided. <i>They would not be</i>

Item	Required	Proposed	Meets Code	Comments
				<p><i>supported by staff without strong justification.</i></p> <p>7. Add calculations and landscaping for Phase 3.</p>
<p>Sub-canopy deciduous trees Notes (2)(10)</p>	<ul style="list-style-type: none"> ▪ Adjacent to pkg: 1 tree per 15lf frontage (net of access drives) ▪ Not adjacent to pkg: 1 tree per 20 lf frontage (net of access drives) ▪ Only canopy/ evergreen or subcanopy requirement must be met in TC-1, not both <p><u>11 Mile Road Phase 2</u></p> <ul style="list-style-type: none"> ▪ Adj: $65/15 = 4$ trees ▪ Not adj: $545/20=27$ trees <p><u>Phase 1 Residential</u></p> <ul style="list-style-type: none"> ▪ Adj: $80/15 = 5$ trees ▪ Not adj: $290/20=15$ trees <p><u>Grand River</u></p> <ul style="list-style-type: none"> ▪ Adj: $323/15 = 22$ trees ▪ Not adj: $238/20 = 12$ trees <p><u>Phase 3 Residential</u></p> <ul style="list-style-type: none"> ▪ Not adj: $468/20 = 23$ trees 	<p><u>11 Mile Road – Phase 2</u></p> <p>0 subcanopy trees</p> <p><u>Phase 1 Residential</u></p> <ul style="list-style-type: none"> • 11 Sugar Tyme crabapples, in right-of-way (7 fewer than required) • Mix of deciduous and evergreen unit trees proposed in greenbelt <p><u>Grand River Ave</u></p> <p>0 subcanopy trees</p> <p><u>Phase 3 Residential</u></p> <p>0 subcanopy trees</p>	Yes	<p>1. Please revise the calculations to use the current TC-1 requirements.</p> <p>2. Please plant trees along the entire Phase 2 11 Mile road frontage except at the proposed drive as there is no guarantee of the phase's future layout at this time.</p> <p>3. While street trees are not required in the TC-1 district, staff agrees that, since there is room for the trees between the sidewalk/storm line and the curb, the addition of subcanopy flowering trees as proposed in front of the Phase 1 residential units would be an attractive look. The required number of subcanopy greenbelt trees still needs to be provided, but the 11 crabapples shown as street trees can count toward that requirement as proposed. Please use a variety of crabapple with a more vertical structure to provide better vehicle and pedestrian clearance.</p>

Item	Required	Proposed	Meets Code	Comments
				<p>4. Please provide the remaining required greenbelt trees behind the right-of-way line. (As noted above, unit foundation trees cannot be double-counted toward the greenbelt requirement.)</p> <p>5. Unit foundation trees may not be double-counted as greenbelt trees.</p> <p>6. A landscape deviation is required for any deficiencies in trees provided. They would not be supported by staff without strong justification.</p> <p>7. Add calculations and landscaping for Phase 3.</p>
Canopy deciduous trees in area between sidewalk and curb (Novi Street Tree List)	Street trees are not required in the TC-1 district.	<ul style="list-style-type: none"> None are proposed on Phase 2 or Phase 3 Residential 13 subcanopy greenbelt trees placed in the ROW of the Phase 1 residential 	TBD	See discussion above regarding proposed crabapple trees in the right-of-way
Cross-Section of Berms (LDM 2.j)				
Slope, height and width	<ul style="list-style-type: none"> Label contour lines Maximum 33% Constructed of loam 6" top layer of topsoil 	Cross section details are provided on Sheet L-401	Yes	<p>1. Berms do not meet height requirements.</p> <p>2. Please correct detail numbering.</p>
Type of Ground Cover		None	No	
Setbacks from Utilities	Overhead utility lines and 15 ft. setback from edge of utility or 20 ft. setback from closest pole	The only overhead utilities are along 11 Mile Road	TBD	Please space trees appropriately vis a vis the overhead wires
Parking Area Landscape Requirements LDM 1.c. & Calculations (LDM 2.o.)				
General requirements (LDM 1.c)	<ul style="list-style-type: none"> Clear sight distance within parking islands 	Some islands will be planted with Little	Yes	1. Add clear vision triangles at the

Item	Required	Proposed	Meets Code	Comments
	<ul style="list-style-type: none"> No evergreen trees 	Bluestem grass		<p>interior intersections north and south of Building B, and at the intersection between Buildings 5 and 9.</p> <p>2. Please move all trees and shrubs taller than 30" out of clear vision zones.</p>
Name, type and number of ground cover (LDM 1.c.(5))	As proposed on planting islands	Mix of plantings noted above	Yes	
General (Zoning Sec 5.5.3.C.ii)				
Parking lot Islands (a, b, i)	<ul style="list-style-type: none"> A minimum of 200 SF to qualify Minimum 200 SF per tree planted in island 6" curbs Islands minimum width 10' BOC to BOC 	<ul style="list-style-type: none"> Islands are shown, and areal quantities are provided for most areas, but not all. All circular planting areas appear to be significantly less than 200sf. Some small islands have trees but not sufficient area for their long-term survival. The interior island west of Building B is not 10 feet wide. 	No	<p>1. To count toward the required area, an island must have at least 200sf landscape area per tree planted in it, and be 10 feet wide. Many of the circular planting areas do not have this area.</p> <p>2. To count toward the requirement, a tree must have at least 200sf in greenspace surrounding it. Many trees do not have this area.</p> <p>3. If islands/planting areas aren't sufficiently large, please enlarge them as required or don't count the area or trees in them toward the total.</p> <p>4. Please add slots or holes in the circular planting "curbs" to allow pavement runoff to get into planting circles.</p>
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.	It appears that spaces are shortened to 17 ft where possible.	Yes	

Item	Required	Proposed	Meets Code	Comments
Contiguous space limit (i)	<ul style="list-style-type: none"> Maximum of 15 contiguous spaces All endcap islands should also be at least 200sf with 1 tree planted in it. 	<ul style="list-style-type: none"> Several bays with more than 15 spaces are not broken up with a qualifying landscape island with trees or 200sf (Phase 2 interior islands, the bay south of the lake, the bay north of Building C), as required. Endcap trees are needed at the east end of the bay (south of Building B) and at the west end of the bay south of Building A. 	No	<ol style="list-style-type: none"> Please add endcap islands with at least 200sf greenspace and canopy trees for all parking bays (there are at least 2 endcaps in the commercial section without the required landscaping). A landscape deviation is required for the current lack of landscaped islands breaking up long bays. <i>It is not supported by staff.</i>
Plantings around Fire Hydrant (d)	No plantings with matured height greater than 12' within 10 ft. of fire hydrants or utility structures (manholes, catch basins)	Provided	TBD	<ol style="list-style-type: none"> Please be sure to provide at least 10 feet between hydrants, manholes and catch basins and trees, and 5 feet from underground lines. If necessary, islands should be widened to provide proper spacing between hydrants or other utility structures.
Landscaped area (g)	Areas not dedicated to parking use or driveways exceeding 100 sq. ft. shall be landscaped	Provided	Yes	
Clear Zones (LDM 2.3.(5))	25 ft corner clearance required. Refer to Zoning Section 5.9	Provided	Yes	
Category 1: For OS-1, OS-2, OSC, OST, B-1, B-2, B-3, C, NCC, EXPO, FS, TC, TC-1, RC, Special Land Use or non-residential use in any R district (Zoning Sec 5.5.3.C.iii)				
A = Total square footage of vehicular use area up to 50,000 sf x 7.5%	1: 8870sf x 7.5%=665 sf 2: 7034sf x 7.5%=548 sf 3: 33488sf x 7.5%=2511 sf 4: 15342sf x 7.5%=1151 sf 5: 11535sf x 7.5%=865 sf 6: 10963sf x 7.5%=822 sf 7: 6184sf x 7.5%=464 sf	1: 690 sf 2: 149 sf 3: 3387 sf 4: 1276 sf 5: 519 sf 6: 800 sf 7: 211 sf	No	<ol style="list-style-type: none"> Please show the contiguous greenspace area of each island in SF. Please add totals to the tables provided. Treed islands must

Item	Required	Proposed	Meets Code	Comments
	Total: 7026 sf	Total: 7032 sf		<p>have 200sf in contiguous greenspace. If they don't, neither the tree nor the area may count toward the requirement (except edge islands abutting greenspace, as discussed previously)</p> <p>4. Please enlarge areas as required to reduce the deviation.</p> <p>5. The area of the loading area east of Building B must be added to Parking Area 7 as it is too large to use only perimeter trees.</p> <p>6. A landscape deviation is requested for the deficiency in landscape area. <i>It is not supported by staff at this time.</i></p>
B = Total square footage of additional paved vehicular use areas over 50,000 SF) x 1 %	$B = x \text{ SF} \times 1\% = B \text{ sf}$	NA		
Category 2: For: I-1 and I-2 (Zoning Sec 5.5.3.C.iii)				
A = Total square footage of vehicular use area up to 50,000 sf x 5%	$A = x \text{ SF} \times 5\% = A \text{ sf}$	NA		
B = Total square footage of additional paved vehicular use areas over 50,000 SF x 0.5 %	$B = (x \text{ SF} - 50000) \times 0.5\% = B \text{ SF}$	NA		
All Categories				
C = A+B Total square footage of landscaped islands required	$A + B = C \text{ SF}$ $7026 + 0 = 6562 \text{ sf}$	7032 sf	TBD	1. If sufficient area is not provided, a landscape deviation is required. <i>It is not supported by staff.</i>
D = C/200	$C/200 = xx \text{ Trees}$	27 trees	No	1. A landscape

Item	Required	Proposed	Meets Code	Comments
Number of canopy trees required	7026/200 = 35 trees			<p>deviation is required for all canopy trees not provided. <i>It is not supported by staff.</i></p> <ol style="list-style-type: none"> Please add as many trees as possible, in qualifying landscape islands, as possible to reduce the deviation. Please indicate the impact (trees not provided) of the deviation and provide justification for the deviation.
Parking Lot Perimeter Trees (Sec 5.5.3.C.iv)	1 Canopy tree per 35 lf 81 trees	59 trees	No	<ol style="list-style-type: none"> Perimeter areas within 20' of a building 20' or taller do not need canopy trees if subcanopy trees are used as foundation planting Please eliminate the perimeter parking lot table and just show total perimeter lengths for the commercial area separate from the residential area, the number of trees required based on those lengths, and the number of trees provided. Please add as many perimeter trees within 15 feet of the curb as is reasonably possible to decrease the extent of the deviation. Please provide required trees within 15 feet of the curb. Please use a tree with a mature canopy width of at least 20 feet, not subcanopy trees for perimeter trees.

Item	Required	Proposed	Meets Code	Comments
				<p>6. Please move the trees east of Parking Lot 3 four feet away from the property line.</p> <p>7. A landscape deviation is required. <i>The extent of the deviation must be lowered significantly by adding more trees where possible in order for staff to support the request.</i></p> <p>8. Perimeter trees should be added along the perimeter of Parking area 6 (north and south sides) and Parking Area 5 as there is no definite time when buildings would make them unnecessary.</p> <p>9. Consider adjusting the layout of the loading area east of Building A to allow the placement of perimeter trees along the south edge of that large paved area.</p>
Parking land banked	NA	No		
Other Landscaping				
Non-Residential Zoning Sec 5.5.3.E.iii & LDM 1.d (2) Refer to Planting in ROW, building foundation landscape, parking lot landscaping and LDM				
Other Screening				
Screening of outdoor storage, loading/unloading (Zoning Sec. 3.14, 3.15, 4.55, 4.56, 5.5)		All Phase 1 loading areas are sufficiently screened by buildings and/or landscaping.	Yes	
Transformers/Utility boxes (LDM 1.e from 1 through 5)	<ul style="list-style-type: none"> A minimum of 2ft. separation between box and the plants Ground cover below 4" is allowed up to 	No utility boxes shown		<p>1. Provide proper screening for any transformers.</p> <p>2. Include city standard detail with other</p>

Item	Required	Proposed	Meets Code	Comments
	pad. ▪ No plant materials within 8 ft. from the doors			landscape details. 3. If all transformer locations are not provided on plan, please add a note stating that all transformers and other utility boxes shall be screened per the city detail.
Building Foundation Landscape Requirements (Sec 5.5.3.D)				
Interior site landscaping SF	▪ Equal to entire perimeter of the building (less paved access areas for vehicles and man-door widths) x 8 with a minimum width of 4 ft. ▪ $xx \text{ If } x \text{ 8ft} = xx \text{ SF}$ ▪ Building A: $734 * 8 = 4808 \text{ sf}$ ▪ Building B: $260 * 8 = 2080 \text{ sf}$ ▪ Building C: $480 * 8 = 3840 \text{ sf}$	▪ A combination of landscaping and decorative paving is proposed to meet the requirement in the commercial section of the project. ▪ A calculation table is provided on Sheet L203. ▪ Very little foundation landscaping is proposed for Buildings A and B. ▪ Significant landscaping is provided along the north and south sides of Building C. ▪ No landscaping is proposed along the north side of Building A.	No	1. Please add the area requirement for each commercial building, not just what is provided, to the table on Sheet L203, so the extent of the deviation can be known. 2. Add the total area of decorative paving near each building to the table as the paved area can count toward the requirement. Please break it out from the actual planting area provided. 3. Please provide more landscaping bed area around buildings A and B than is currently proposed. It appears there is more room for planting for both buildings. Only a 4' wide strip is required. 4. Please enlarge the planting area in the circular planting beds with trees to provide more air and water to the roots. 5. Please add a 4' strip of landscaping (minimum) along the north side of Building A. It doesn't have to

Item	Required	Proposed	Meets Code	Comments
				<p>be expensive plant material (grasses or bamboo, or other perennials would be fine), but as there is no known date of construction for the building north of Building A, there should be some landscaping there.</p> <p>6. Please add foundation landscaping along the east side of Building A (not the loading area).</p> <p>7. Please add foundation landscaping along the south side of Building B wherever possible.</p> <p>8. Any future commercial buildings in Phase 2 would need to meet these requirements.</p> <p>9. Landscape deviations are required for any deficiencies in landscaping area provided. <i>Those deviations are not supported by staff at this time.</i></p>
<p><i>Zoning Sec 5.5.3.D.ii. All items from (b) to (e)</i></p>	<p>If visible from public street a minimum of 60% of the exterior building perimeter should be covered in green space</p>	<ul style="list-style-type: none"> ▪ The proposed landscaping for Building C covers virtually the entire frontage as viewed from Grand River. ▪ Buildings A and D are over 235 feet from Grand River. The parking lot screening is sufficient to screen those 	<p>Yes</p>	<p>Any future commercial buildings in Phase 2 would need to meet these requirements.</p>

Item	Required	Proposed	Meets Code	Comments
		buildings.		
Multi-Family Residential (Sec 5.5.3.F.ii)				
Building Landscaping (Zoning Sec 5.5.3.E.ii.)	<ul style="list-style-type: none"> 3 deciduous canopy trees or large evergreen trees per dwelling unit on the first floor. Phase 1: 68 units * 3 = 204 trees required The table provided on Sheet L203 is not required for residential units. Only the building frontage is regulated (35% of the front of a building must be landscaped). Phase 3: 52 units * 3 = 156 trees required 	<p>Phase 1 residential</p> <ul style="list-style-type: none"> 204 unit trees are provided on the site, 46 of which are subcanopy trees (23%) <p>Phase 3 residential</p> <ul style="list-style-type: none"> None provided 	<p><u>Phase 1:</u> Yes</p> <p><u>Phase 3:</u> No</p>	<p>1. The greenbelt requirement along 11 Mile road must be met with trees designated for that purpose. Unit trees cannot be double-counted as greenbelt trees. Please show the trees in front of the units fronting 11 Mile Road as greenbelt trees and add unit trees elsewhere to meet the requirement.</p>
Interior Street Landscaping	<ul style="list-style-type: none"> 1 deciduous canopy tree along interior roads for every 35 lf (both sides), excluding driveways, interior roads adjacent to public rights-of-way and parking entry drives. 66 trees (number provided) 	<ul style="list-style-type: none"> 41 interior street trees Several street trees are subcanopy trees. 	No	<p>1. Please eliminate the table and just show the total perimeter and the total number of trees required based on that total.</p> <p>2. Please add the required perimeter trees</p> <p>3. Please change the subcanopy trees used as interior street trees to deciduous canopy trees.</p> <p>4. The proposed configuration requires a landscape deviation. It is not supported by staff.</p>
Foundation Landscaping	35% of building front façades must be landscaped with plantings other than lawn.	<ul style="list-style-type: none"> At least 35% of the front facades, as defined by the applicant, of all units are landscaped sufficiently (not the sides facing the road/drives except for Buildings 1, 2 and 	Yes	While the proposed layout and landscaping meet the ordinance requirements, the applicant is encouraged to add at least some landscaping between the building garages to soften the appearance of the driveway areas as they

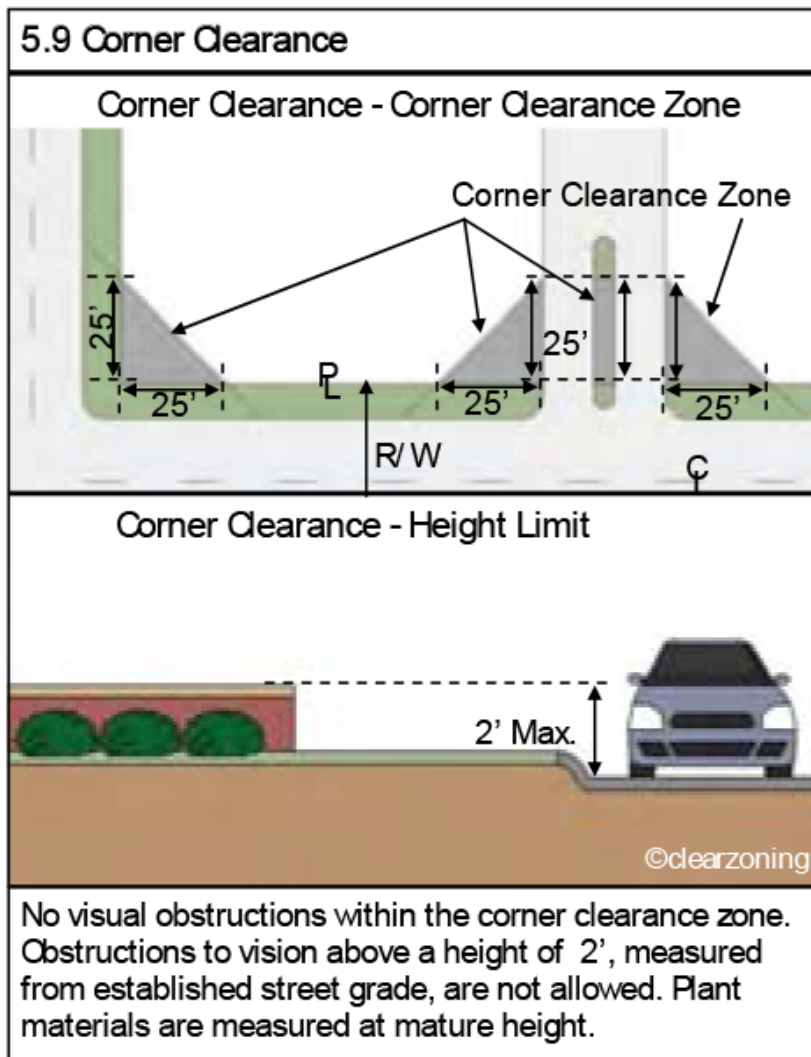
Item	Required	Proposed	Meets Code	Comments
		3, whose fronts face 11 Mile Road) <ul style="list-style-type: none"> No plantings are proposed between building rears, which face the interior drives, and the drives. 		will be most visible to residents and visitors of the site. As proposed, those areas will have a very barren appearance.
Detention/Retention Basin Requirements (Sec. 5.5.3.E.iv)				
Planting requirements (Sec. 5.5.3.E.iv)	<ul style="list-style-type: none"> Clusters of large native shrubs shall cover 70-75% of the basin rim area 10" to 14" tall grass along sides of basin Refer to wetland for basin mix 	The required coverage is provided for both ponds but not all shrubs are native to Michigan	No	<p>1. While not required, it is advised to not use <i>Viburnum trilobum</i> as they have been hit very hard by the viburnum leaf beetle. The diversity provided by the other species is sufficient so you could use more of those species in its place.</p> <p>2. Please make sure that 70-75% of both ponds' HWL are planted with shrubs native to Michigan.</p>
Phragmites Control (Sec 5.5.6.C)	<ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> Phragmites populations are indicated on Sheet C-1.1 Plans for physical removal and follow-up herbicide treatments are listed on Sheet L101. 	Yes	
LANDSCAPING NOTES, DETAILS AND GENERAL REQUIREMENTS				
Landscape Notes – Utilize City of Novi Standard Notes				
Installation date (LDM 2.I. & Zoning Sec 5.5.5.B)	<ul style="list-style-type: none"> Provide intended dates Should be between March 15 and November 15. 	No dates are proposed	No	Please include planting dates on Landscape Plan.
Maintenance & Statement of intent (LDM 2.m & Zoning Sec 5.5.6)	<ul style="list-style-type: none"> Include statement of intent to install and guarantee all materials for 2 years. 	Provided	Yes	

Item	Required	Proposed	Meets Code	Comments
	<ul style="list-style-type: none"> Include a minimum one cultivation in June, July and August for the 2-year warranty period. 			
Plant source (LDM 2.n & LDM 3.a.(2))	Shall be northern nursery grown, No.1 grade.	Yes	Yes	
Irrigation plan (LDM 2.s.)	<ul style="list-style-type: none"> A fully automatic irrigation system and a method of draining is required with Final Site Plan If a different method of providing water for establishment and long-term survival of the plants will be used, please provide information on that 	No		<u>Need for final site plan</u>
Other information (LDM 2.u)	Required by Planning Commission			Please change note 6 to read 3 months instead of 1 year for time of plant replacement
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 <u>in writing</u> prior to installation.	Yes	Yes	
Plant List (LDM 2.h., 4) – Include all cost estimates				
Quantities and sizes	Refer to LDM suggested plant list	Yes	Yes	
Root type		Yes	Yes	
Botanical and common names		<ul style="list-style-type: none"> 18 of 41 (44%) species used are native to Michigan The tree diversity meets the requirements of LDM 4 	<ul style="list-style-type: none"> No Yes 	<ol style="list-style-type: none"> Please use more native species on the site so at least 50% of the species used are native to Michigan. If you have questions about whether a plant is native, you can ask me or consult Michiganflora.net. It may be difficult to find sources of <i>Pinus resinosa</i>. <i>Abies concolor</i> and <i>Tsuga canadensis</i> are not on the current Woodland

Item	Required	Proposed	Meets Code	Comments
				Replacement Chart in Section 37, so different species should be used. 5. Per Section 37-8, only 5% of the replacement credits provided can be seed, not the 20% currently proposed. Please change the woodland replacement calculations.
Type and amount of lawn		Yes	Yes	Please use a native seed mix for the large meadow area instead of the non-native Scottish Meadow mix proposed. It can be a mix of just grasses and sedges to still achieve a grassy look.
Cost estimate (LDM 2.t)	For all new plantings, mulch, seed and sod as listed on the plan	No		<u>Please add on Final Site Plans. Use these standard costs:</u> <ul style="list-style-type: none"> • <u>Canopy tree: \$400ea</u> • <u>Subcanopy tree: \$250 ea</u> • <u>Evergreen tree: \$325 ea</u> • <u>Shrubs: \$50 ea</u> • <u>Perennials \$15 ea</u> • <u>Seed \$3/syd</u> • <u>Sod \$3/syd</u> • <u>Mulch \$35/cyd</u>
Planting Details/Info (LDM 2.i) – Utilize City of Novi Standard Details				
Canopy Deciduous Tree	Refer to LDM for detail drawings	Yes	Yes	
Evergreen Tree		Yes	Yes	
Multi-stem Tree		Yes	Yes	
Shrub		Yes	Yes	
Perennial/ Ground Cover		Yes	Yes	
Tree stakes and guys. (Wood stakes, fabric guys)		Yes	Yes	
Tree protection	Located at Critical Root	Yes	Yes	

Item	Required	Proposed	Meets Code	Comments
fencing	Zone (1' outside of dripline)			
Other Plant Material Requirements (LDM 3)				
General Conditions (LDM 3.a)	Plant materials shall not be planted within 4 ft. of property line	Yes	Yes	
Plant Materials & Existing Plant Material (LDM 3.b)	Clearly show trees to be removed and trees to be saved.	Yes	Yes	See note above about conflict between grading plan and T-1.0
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	No		
Plant Sizes for ROW, Woodland replacement and others (LDM 3.c)	Refer to Landscape Design Manual for requirements	On plant list	Yes	
Plant size credit (LDM3.c.(2))	NA	No		
Prohibited Plants (LDM 3.d)	No plants on City Invasive Species List	<ul style="list-style-type: none"> • No prohibited plants proposed • A species of clumping bamboo is used in isolated locations. 	Yes	
Recommended trees for planting under overhead utilities (LDM 3.e)	Label the distance from the overhead utilities	Yes	Yes	
Collected or Transplanted trees (LDM 3.f)		None		
Nonliving Durable Material: Mulch (LDM 4)	<ul style="list-style-type: none"> ▪ 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. 	Yes	Yes	
NOTES: <ol style="list-style-type: none"> 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. 				

Item	Required	Proposed	Meets Code	Comments
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.			



WETLAND REVIEW



ECT Project No. 190456-0300

October 18, 2019

Ms. Barbara McBeth, AICP
City Planner
Community Development Department
City of Novi
45175 W. Ten Mile Road
Novi, Michigan 48375

Re: Sakura Way (JZ19-0031)
Wetland Review of the Revised PRO Concept Plan (PSP19-0150)

Dear Ms. McBeth:

Environmental Consulting & Technology, Inc. (ECT) has reviewed the Revised PRO Concept Plan for the proposed Sakura Way project prepared by PEA, Inc. and Wah Yee Associates dated October 2, 2019 and stamped "Received" by the City of Novi on October 3, 2019 (Plan). ECT also reviewed the *Wetland Delineation Letter* dated November 16, 2018 and the *Sakura Novi Wetland Mitigation Options* letter dated October 2, 2019, both prepared by Atwell. The Plan was reviewed for conformance with the City of Novi Wetland and Watercourse Protection Ordinance and the natural features setback provisions in the Zoning Ordinance. ECT previously conducted a wetland evaluation for portions of the proposed site and most recently completed a site inspection on July 16, 2019.

Recommendation removed

Item	Required/Not Required/Not Applicable
Wetland Permit (specify Non-Minor or Minor)	Required (Non-Minor)
Wetland Mitigation	Required (proposed wetland impacts appear to be >0.25-acre)
Wetland Buffer Authorization	Required
EGLE Permit	To Be Determined. It is the applicant's responsibility to contact EGLE in order to determine the need for a wetland use permit.
Wetland Conservation Easement	Required for any Proposed Wetland Mitigation

The proposed project is located at the northeast corner of Grand River Avenue and Town Center Drive in Section 23. The proposed project currently consists of three (3) phases. Phases 1 and 2 includes a total of four (4) parcels. From west to east these are: 50-22-23-126-006 (West Parcel), 50-22-23-126-011 and 50-22-23-226-007 (previously referred to as East Parcel A), and 50-22-23-226-008 (previously referred to as East Parcel B). Phase 3 has been added to the concept since our review of the previous concept plan. Phase 3 appears to include two (2) parcels east of the Phase 1 and 2 properties; Parcel 50-22-23-226-021 and 50-22-23-226-022. Phase 1 consists of market, retail, restaurant, townhome residential and light industrial use

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(existing ECCO Tool Co., grandfathered in). Phase 2 consists of restaurant, retail, spa, office, hotel, residential and parking structure uses. Phase 3 consists of town-home residential and parking.

Previous plans included integrative green elements that utilize the water feature on the western portion of the site. The Plan appears to route stormwater directly to the wetland/pond located on the western side of the site. One (1) stormwater detention basin appears to be proposed on the eastern side of the site. ECT suggests that subsequent site plans be reviewed by City of Novi Engineering Staff for adherence to all applicable storm water and engineering requirements. The City of Novi's Regulated Wetland & Woodland Map indicates areas of both Regulated Wetland and Regulated Woodland on the subject site (see Figure 1).

Wetland Evaluation

ECT's in-office review of available materials included the City of Novi Regulated Wetland/Watercourse and Regulated Woodlands maps (see Figure 1, attached), USGS topographic quadrangle map, NRCS soils map, USFWS National Wetland Inventory map, and historical aerial photographs. The City of Novi Regulated Wetlands Map indicates one (1) area of existing wetland (i.e., pond/Wetland 2) on the westernmost parcel (50-22-23-126-006) as well as a small area of regulated wetland on the eastern portion of the project properties (i.e., Wetland "5" on Parcel No. 50-22-23-226-021).

The Plan identifies a total of five (5) wetland areas on the subject properties. The overall sizes of the existing wetlands do not appear to be clearly indicated on the Plan, however the proposed impacts to these wetlands are noted.

The following is a brief description of the on-site wetland features:

Wetland 1 – A small (+/- 0.01-acre) emergent wetland located in a grassy area (depression) in the northwest portion of the site (west of the existing ECCO Tool Co. building). The delineation report notes that the wetland vegetation within this area includes grass-leaved goldenrod (*Euthamia graminifolia*), yellow nutsedge (*Cyperus esculentus*), reed canary grass (*Phalaris arundinacea*), and sandbar willow (*Salix interior*).

Wetland 2 – An emergent wetland with open water area (+/- 0.74-acre emergent wetland and +/- 0.97-acre open water) located in the southwest portion of the site. The delineation report notes that the wetland vegetation within this area includes broadleaf cattail (*Typha latifolia*), narrow leaf cattail (*Typha angustifolia*), and common reed (*Phragmites australis*). The open water element is referred to as the 'pond'.

Wetland 3 – A small (+/- 0.02-acre) emergent wetland within a constructed ditch in the southwest portion of the site (adjacent to the southwest side of Wetland 2). The delineation report notes that the wetland vegetation within this area includes mainly common reed.

Wetland 4 – A large (+/- 0.90-acre) emergent/scrub-shrub wetland located within the eastern portion of the site (i.e., southeast of the existing ECCO Tool Company building). Portions of this wetland are located on parcels 50-22-23-126-011, 50-22-23-226-007, and 50-22-23-226-008. The delineation report notes that the scrub-shrub wetland vegetation within this area includes common buckthorn (*Rhamnus cathartica*) and silky dogwood (*Cornus amomum*). The herbaceous vegetation within this wetland area included broadleaf cattail, sensitive fern (*Onoclea sensibilis*), grass-leaved goldenrod, purple loosestrife (*Lythrum salicaria*), and fringed willow herb (*Epilobium ciliatum*).

Wetland 5 – A small (+/- 0.04-acre) emergent/scrub-shrub wetland located on the eastern portion of the site (located on Parcel 50-22-23-226-021, east of the existing cell tower gravel access drive). This wetland area is not described in Atwell's November 16, 2018 *Wetland Delineation Letter*. The wetland vegetation within this area includes common buckthorn and reed canary grass.

Based on the on-site wetland flagging, the existing vegetation and topography, it is ECT's assessment that the on-site wetlands were accurately delineated. The wetland boundaries appear to be accurately indicated on the Plan.

Wetland Impact Review

As noted above, several areas of wetland have been confirmed on the subject property by the applicant's wetland consultant. Currently, the Plan indicates impacts to four (4) of the five (5) existing wetland areas. The Plan (Sheets C-1.4 and C-1.5, *Natural Features Impact Plans*) quantify the areas of the proposed wetland and wetland buffer impacts. The total amount of direct (i.e., fill or excavation) impact to on-site wetlands is 1.67 acres. The current impacts to Wetland 1 are for the construction of Residential Building 10. The *Community Impact Statement* provided with the Plan notes that the pond will be maintained but will have its perimeter articulated and upgraded as a site amenity (i.e., Wetland 2 impacts). The pond will be utilized for partial site storm detention with pre-treatment. The impacts to Wetland 3 are for the purpose of constructing parking areas in the southwest portion of the site. The impacts to Wetland 4 are for the purpose of constructing Phase 1 residential development as well as the proposed detention basin. Currently, the Plan does not appear to propose impacts to Wetland 5.

The following table summarizes the proposed wetland impacts as listed on the *Natural Features Impact Plans*:

Table 1. Proposed Wetland Impacts

<i>Wetland Impact</i>	<i>City Regulated?</i>	<i>MDEQ Regulated?</i>	<i>Wetland Impact Area (acre)</i>	<i>Estimated Impact Volume (cubic yards)</i>
1	Yes City Regulated /Essential	To Be Determined	0.007	Not Provided
2	Yes City Regulated /Essential	To Be Determined	0.74-	Not Provided
3	Yes City Regulated /Essential	To Be Determined	0.02	Not Provided
4	Yes City Regulated /Essential	To Be Determined	0.90	Not Provided
5	Yes City Regulated /Essential	To Be Determined	None	None
TOTAL	--	--	1.67 acres	Not Provided

In addition to the proposed wetland impacts, the Plan proposes disturbance to on-site 25-foot wetland buffer areas. The proposed impacts to 25-foot wetland buffers are also provided on the *Natural Features Impact Plans*. The Plan indicates a total of 1.43 acres of impact to the on-site 25-foot wetland buffers. These impacts appear to be permanent impacts. The following table summarizes the proposed wetland buffer impacts as listed on the Plan:

Table 2. Proposed Wetland Buffer Impacts

Wetland Buffer Impact Area	Buffer City Regulated?	Buffer MDEQ Regulated?	Wetland Buffer Impact Area
			Permanent
			Acre
1	Yes	No	0.13
2 & 3	Yes	No	0.71
4	Yes	No	0.59
5	Yes	No	None
TOTAL	--	--	1.43

The existing area (square feet or acres) of the on-site wetlands do not appear to have been provided on the Plan. In addition, the impact volume (cubic yards) for each wetland impacts shall be shown on the Plan.

City of Novi Wetland/Watercourse Ordinance Requirements

The City of Novi Wetland and Watercourse Protection Ordinance (City of Novi Code of Ordinances, Part II, Chapter 12, Article V.; Division 2.) describes the regulatory criteria for wetlands and review standards for wetland permit applications. The City of Novi regulates wetlands that are: (1) contiguous to a lake, pond, river or stream, as defined in Administrative Rule 281.921; (2) two (2) acres in size or greater; or (3) less than two (2) acres in size but deemed essential to the preservation of the natural resources of the city under the criteria set forth in subsection 12-174(b). Wetlands deemed regulated by the City of Novi require the approval of a use permit for any proposed impacts to the wetland.

The wetland essentiality criteria as described in the Wetland and Watercourse Protection Ordinance are included below.

All noncontiguous wetland areas of less than two (2) acres which appear on the wetlands inventory map, or which are otherwise identified during a field inspection by the city, shall be analyzed for the purpose of determining whether such areas are essential to the preservation of the natural resources of the city....In making the determination, the city shall find that one (1) or more of the following exist at the particular site:

- (1) *The site supports state or federal endangered or threatened plants, fish or wildlife appearing on a list specified in Section 36505 of the Natural Resources Environmental Protection Act (Act 451 of 1994) [previously section 6 of the endangered species act of 1974, Act No. 203 of the Public Acts of 1974, being section 229.226 of the Michigan Compiled Laws].*
- (2) *The site represents what is identified as a locally rare or unique ecosystem.*
- (3) *The site supports plants or animals of an identified local importance.*
- (4) *The site provides groundwater recharge documented by a public agency.*
- (5) *The site provides flood and storm control by the hydrologic absorption and storage capacity of the wetland.*
- (6) *The site provides wildlife habitat by providing breeding, nesting or feeding grounds or cover for forms of wildlife, waterfowl, including migratory waterfowl, and rare, threatened or endangered wildlife species.*

- (7) *The site provides protection of subsurface water resources and provision of valuable watersheds and recharging groundwater supplies.*
- (8) *The site provides pollution treatment by serving as a biological and chemical oxidation basin.*
- (9) *The site provides erosion control by serving as a sedimentation area and filtering basin, absorbing silt and organic matter.*
- (10) *The site provides sources of nutrients in water food cycles and nursery grounds and sanctuaries for fish.*

After determining that a wetland less than two (2) acres in size is essential to the preservation of the natural resources of the city, the wetland use permit application shall be reviewed according to the standards in subsection 12-174(a).

Based on this information, the existing on-site wetlands are considered regulated by the City of Novi for stormwater storage and/or wildlife habitat criteria.

The applicant is urged to minimize impacts to all wetlands and 25-foot wetland setback areas to the greatest extent practicable. The City regulates wetland and watercourse buffers/setbacks. Article 24, Schedule of Regulations, of the Zoning Ordinance states that:

“There shall be maintained in all districts a wetland and watercourse setback, as provided herein, unless and to the extent, it is determined to be in the public interest not to maintain such a setback. The intent of this provision is to require a minimum setback from wetlands and watercourses?”.

Wetland Regulation and Required Permits

The Michigan Department of Environment, Great Lakes, and Energy (EGLE, formerly MDEQ) generally regulates wetlands that are within 500 feet of a waterbody, regulated stream or are part of wetland system greater than 5 acres in size. It is the applicant's responsibility to contact EGLE in order to confirm the regulatory authority with respect to any on-site wetland or watercourse areas and the need for any permits based on the proposed Plan.

In 1979, the Michigan legislature passed the Geomare-Anderson Wetlands Protection Act, 1979 PA 203, which is now Part 303, Wetlands Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA). The EGLE has adopted administrative rules which provide clarification and guidance on interpreting Part 303.

In accordance with Part 303, wetlands are regulated if they are any of the following:

- Connected to one of the Great Lakes or Lake St. Clair.
- Located within 1,000 feet of one of the Great Lakes or Lake St. Clair.
- Connected to an inland lake, pond, river, or stream.
- Located within 500 feet of an inland lake, pond, river or stream.
- Not connected to one of the Great Lakes or Lake St. Clair, or an inland lake, pond, stream, or river, but are more than 5 acres in size.
- Not connected to one of the Great Lakes or Lake St. Clair, or an inland lake, pond, stream, or river, and less than 5 acres in size, but the DEQ has determined that these wetlands are essential to the preservation of the state's natural resources and has notified the property owner.

The law requires that persons planning to conduct certain activities in regulated wetlands apply for and receive a permit from the state before beginning the activity. A permit is required from the state for the following:

- Deposit or permit the placing of fill material in a wetland.
- Dredge, remove, or permit the removal of soil or minerals from a wetland.
- Construct, operate, or maintain any use or development in a wetland.
- Drain surface water from a wetland.

The applicant's *Wetland Delineation Letter* notes that Wetlands 1, 2, and 3 are likely not regulated by EGLE as these wetlands are isolated and less than 5 acres in size. Wetland 4, however, is adjacent to the off-site pond located on Parcel 50-22-23-226-042 (owned by the City of Novi) and is therefore likely regulated by EGLE. The *Wetland Delineation Letter* does not contain information related to Wetland 5; however no impacts appear to be currently proposed to this wetland area.

Wetland Mitigation

EGLE (formerly MDEQ) generally requires mitigation for impacts greater than one-third (0.33) acre but can require mitigation for any level of impact to EGLE-regulated wetlands. The City requires mitigation for impacts greater than one-quarter (0.25) acre. The Plan indicates a total wetland impact of 1.67 acres (0.90-acre of which appears to be to EGLE-regulated wetland; i.e., Wetland 4).

Proposed wetland mitigation is not indicated on the Plan; however the applicant has submitted a *Sakura Novi Wetland Mitigation Options* letter prepared by Atwell, dated October 2, 2019. Subsequent site plans shall include a wetland mitigation plan. This letter notes that the applicant is committed to satisfying the City's wetland mitigation requirements and is currently considering two (2) different mitigation options to achieve this goal:

Option 1 – The applicant would create 0.9 acres of emergent wetland on Parcel 50-22-23-226-021 (to the east of the Sakura Way project) and 0.5 acres of emergent wetland on Parcel 50-22-23-226-042 currently owned by the City of Novi. It is noted that the available acreage on Parcel 50-22-23-226-042 is large enough to also support the future mitigation needs of the City for the Lee Begole Drive road extension project. The applicant has provided a map with the wetland mitigation options letter showing the approximate space available on this parcel for wetland mitigation. This 1.4 acres of wetland mitigation is designed to offset the EGLE-regulated 0.90-acre impact at a mitigation ratio of 1.5-to-1 (required 1.35 acres of mitigation at 1.5-to-1).

With 1.2 acres of remaining wetland mitigation required to offset the 0.77-acre of City-regulated wetland impacts (required 1.16 acres at 1.5-to-1) the preservation of existing wetlands on Parcel 50-22-17-101-006. This is the southern portion of the Hadley's Towing site south of Grand River Avenue and east of Wixom Road. Atwell notes that the applicant proposes to put approximately 4 acres of existing wetland under conservation easement which would create one large contiguous protected wetland complex as wetlands on the adjoining parcels to the west and east (50-22-17-101-032 and 50-22-17-101-102, respectively) currently have conservation easements on the wetland complexes. Atwell also notes that the surrounding 5 acres of upland could be put under conservation easement to afford further protection and natural habitat within the City.

Option 2 – The applicant is proposing the same mitigation strategy as Option 1 for the EGLE mitigation requirements. The 1.4 acres of constructed wetland is designed to offset the EGLE regulated 0.90-acre

impact at a mitigation ratio of 1.5-to-1. In order to mitigate the remaining 0.77-acre of impact to City-regulated wetland, the applicant proposes to initiate a wetland mitigation fund for the City due to lack of available space for wetland mitigation within the City limits. This strategy is intended to mimic the existing City of Novi Woodland (Tree) Fund.

In terms of Option 1, the preservation of existing wetland areas for mitigation credit is not specifically supported by the City's wetland ordinance. EGLE has an option of ten (10) acres of wetland mitigation for 1.0 acre of impact in situations where the mitigation is in the form of preservation of existing wetland. If the City elected to approve wetland mitigation in the form of preservation of existing wetlands, ECT suggests that EGLE's 10-to-1 ratio of wetland preserved-to-wetland mitigation credit allotted be followed.

It should be noted that Section 12-176. – Mitigation of the City's Wetlands and Watercourse Protection Ordinance states the following:

Mitigation shall be provided onsite where practical and beneficial to the wetland resources. If onsite mitigation is not practical and beneficial, mitigation in the immediate vicinity, within the same watershed, may be considered. Mitigation at other locations within the city will only be considered when the above options are impractical.

In terms of Option 2, the City does not currently have a wetland mitigation 'banking' plan in place. ECT recommends that the details of such a wetland mitigation fund be determined prior to approving this option as an acceptable wetland mitigation scenario. Furthermore, it is recommended that the City follow the standards of EGLE in that the restoration of previously existing wetlands is preferred over the creation of new wetlands where none previously existed. Wetland restoration means the reestablishment of wetland characteristics and functions at a site where they have ceased to exist through the replacement of wetland hydrology, vegetation, or soils. The enhancement of existing wetlands can not be considered as wetland mitigation.

Wetland and Watercourse Comments

The following are repeat comments from our Wetland Review of the PRO Concept Plan (PSP19-0112) letter dated July 19, 2019. The current status of each comment follows in ***bold italics***. ECT recommends that the Applicant address the items noted below in subsequent site plan submittals:

1. ECT encourages the Applicant to minimize impacts to on-site wetlands and 25-foot wetland setbacks to the greatest extent practicable and attempt to incorporate these existing natural features into the site plan.

This comment still applies.

2. The 25-foot wetland and watercourse setback boundaries shall be indicated on the Plan.

This comment has been satisfactorily addressed. The wetland buffers have been indicated on the Plan.

3. It is unclear when the on-site wetlands were flagged and delineated. The applicant shall provide the date that the on-site wetlands were delineated and a wetland delineation report for the site if available.

This comment has been satisfactorily addressed. Atwell conducted a wetland delineation on October 24, 2018 and a Wetland Delineation Letter (dated November 16, 2018) has been included with the submittal.

4. The current Plan includes but does not specifically indicate/quantify impacts to wetlands and wetland buffers. The applicant shall indicate, quantify and label all proposed impacts to these natural features on subsequent plan submittals. The area (square feet or acres) of wetland impacts shall be indicated on the Plan in addition to the proposed volumes of these impacts. The area (square feet or acres) of all impacts (both permanent and temporary) to the 25-wetland and watercourse setbacks shall be indicated on the Plan. The cubic yards of proposed wetland fill shall also be provided on subsequent site plan submittals.

This comment has been partially addressed. The volume (cubic yards) of all wetland impacts shall be provided on the Plan. In addition, the areas (square feet or acres) of the existing wetlands and 25-foot wetland buffer areas shall be clearly indicated and the areas quantified (square feet or acres) on the Plan (not just in the Wetland Delineation Letter).

5. If the applicant is unable to modify the Plan in order to decrease the overall impact to existing wetlands, subsequent site plan submittals shall provide details regarding the proposed wetland mitigation plan. This shall include the location of the proposed wetland mitigation area(s), grading, and planting details. Impacts to emergent wetlands shall be mitigated at a ratio of 1.5-to-1 and impacts to forested wetlands shall be mitigated at a ratio of 2.0-to-1.

The applicant's wetland consultant (Atwell) has provided two (2) wetland mitigation options in a letter dated October 2, 2019 (Sakura Novi Wetland Mitigation Options). Each of these options includes constructing 1.4 acres of the 2.51 acres of required wetland mitigation. A portion (0.9-acre) of the 1.4 acres would be constructed on Parcel (50-22-23-226-021) to the east of the proposed Sakura Way Project. A 0.5-acre mitigation area is proposed to be constructed on Parcel 50-22-23-226-042 currently owned by the City. Option 1 then proposes to provide the remaining 1.2 acres of required mitigation through the preservation of existing wetland on Parcel 50-22-17-101-006 (i.e., Hadley Towing property). It should be noted that the City's Wetland Ordinance does not specifically support the preservation of existing wetland areas for mitigation. In addition, Option 2 proposes to initiate a wetland mitigation fund for the City due to the lack of available space for wetland mitigation within the City limits. ECT recommends that the details of such a wetland mitigation fund be determined prior to approving this option as an acceptable wetland mitigation scenario

6. It appears as though a City of Novi Non-Minor Wetland Use Permit would be required for the proposed impacts to on-site wetlands. A City of Novi *Authorization to Encroach the 25-Foot Natural Features Setback* would be required for any proposed impacts to on-site 25-foot wetland or watercourse buffers.

This comment still applies.

7. It should be noted that it is the Applicant's responsibility to confirm the need for a Permit from EGLE (formerly MDEQ) for any proposed wetland impacts. Final determination as to the regulatory status of any on-site wetlands (if applicable) shall be made by EGLE. The Applicant should provide a copy of this Wetland Use Permit application to the City (and our office) for review and a copy of the approved

permit upon issuance. A City of Novi Wetland Permit cannot be issued prior to receiving this information.

This comment still applies. ECT recommends that the applicant contact EGLE in order to schedule an on-site pre-application in order to determine the regulatory status of Wetlands 1 through 5. The applicant's response letter notes that the City will be provided with the EGLE permit application when it is submitted.

8. The Plan should address how any temporary impacts to wetland or 25-foot wetland buffers shall be restored, if applicable. Subsequent Plan submittals shall include specifications for any proposed seed mixes proposed for use within these areas. Sod or common grass seed shall not be used to restore temporary impacts within these areas.

This comment still applies. The Plan shall indicate whether any of the proposed impacts to wetlands or wetland buffers are temporary and therefore require restoration. It appears as if all of the proposed impacts to wetland and wetland buffers are permanent.

9. The applicant should ensure that any proposed snow storage areas are located such that any runoff will not directly affect any remaining on-site wetlands (if applicable) and/or watercourses.

This comment still applies. The applicant's response letter notes that snow storage areas will be designed so that runoff will not directly affect the remaining on-site wetland.

10. In subsequent plan submittals, ECT suggests that any proposed stormwater management plan be reviewed by the City of Novi Engineering Department to ensure that they meet the City of Novi design requirements.

This comment still applies.

Wetland Conclusion

The project site appears to contain wetlands that are regulated by the City of Novi, and potentially by EGLE. Any proposed impacts to on-site wetlands will require a City of Novi *Wetland and Watercourse Use Permit*, and an *Authorization to Encroach the 25-Foot Natural Features Setback* for any proposed impacts to the 25-foot wetland buffers. The project may require a Wetland Use Permit from EGLE. Subsequent site plan submittals shall clearly indicate all proposed impacts (permanent or temporary) to the existing wetlands and the associated 25-foot wetland setbacks, including the fill quantities (cubic yards) for all wetland impacts.

The applicant has proposed two (2) Options to meet the wetland mitigation requirement. Option 1 proposes to meet a portion of the required mitigation area through the preservation of existing wetland (on Parcel 50-22-17-101-006, i.e. Hadley Towing property). It should be noted that the City's Wetland Ordinance does not specifically support the preservation of existing wetland areas for mitigation. Option 2 proposes to initiate a wetland mitigation fund for the City due to the lack of available space for wetland mitigation within the City limits. ECT recommends that the details of such a wetland mitigation fund be determined prior to approving this option as an acceptable wetland mitigation scenario.

Sakura Way (JZ19-0031)
Wetland Review of the Revised PRO Concept Plan (PSP19-0150)
October 18, 2019 (Revision 1)
Page 10 of 15

Recommendation

ECT currently does not recommend approval of the Revised PRO Concept Plan for Wetlands. The Applicant shall address the items noted in the *Wetland Comments* Section of this letter prior to receiving Wetland approval of the Plan.

If you have any questions regarding the contents of this letter, please contact us.

Respectfully submitted,
ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.



Pete Hill, P.E.
Senior Associate Engineer

cc: Lindsay Bell, City of Novi Planner
Sri Komaragiri, City of Novi Planner
Madeleine Kopko, City of Novi Planning Assistant
Rick Meader, City of Novi Landscape Architect

Attachments: Figure 1 – City of Novi Regulated Wetland and Woodland Map
Figure 2 - Site Aerial Photo
Site Photos



Figure 1. City of Novi Regulated Wetland & Woodland Map (approximate project boundaries are shown in red). Regulated Woodland areas are shown in green and Regulated Wetland areas are shown in blue.



Figure 2. Site Aerial Photo. Approximate wetland locations are indicated in blue (Photo source: Google Earth).

Site Photos



Photo 1. Looking east at existing Wetland 1 located west of the existing ECCO Tool Co. site, south of Eleven Mile Road (ECT, July 16, 2019).



Photo 2. Looking west at existing wetland/pond (Wetland 2) on the west side of the project site (ECT, July 16, 2019).



Photo 3. Looking east from the ECCO Tool property (50-22-23-126-011) towards area of delineated wetland (Wetland 4). Reed canary grass can be seen in the photo, growing in the wetland area (ECT, July 16, 2019)



Photo 4. Looking east at delineated wetland (Wetland 4) on 50-22-23-226-007 and -008 (ECT, June 19, 2018).



Photo 5. Looking south along the existing gravel drive that is on the western edge of Parcel 50-22-23-226-021. Wetland “5” is located on the left (east) side of the gravel drive (ECT, June 19, 2018).



Photo 6. Looking east at Wetland “5” from existing gravel drive (ECT, June 19, 2018).

WOODLAND REVIEW

ECT Project No. 190456-0400

October 21, 2019

Ms. Barbara McBeth, AICP
City Planner
Community Development Department
City of Novi
45175 W. Ten Mile Road
Novi, Michigan 48375

Re: Sakura Way (JZ19-0031)
Woodland Review of the Revised PRO Concept Plan (PSP19-0150)

Dear Ms. McBeth:

Environmental Consulting & Technology, Inc. (ECT) has reviewed the Revised PRO Concept Plan for the proposed Sakura Way project prepared by PEA, Inc. and Wah Yee Associates dated October 2, 2019 and stamped "Received" by the City of Novi on October 3, 2019 (Plan). The Plan was reviewed for conformance with the City of Novi Woodland Protection Ordinance Chapter 37.

Recommendation removed

The following woodland related items are required for this project:

Item	Required/Not Required/Not Applicable
Woodland Permit	Required
Woodland Fence	Required
Woodland Conservation Easement	Required

The proposed project is located at the northeast corner of Grand River Avenue and Town Center Drive in Section 23. The proposed project currently consists of three (3) phases. Phases 1 and 2 includes a total of four (4) parcels. From west to east these are: 50-22-23-126-006 (West Parcel), 50-22-23-126-011 and 50-22-23-226-007 (previously referred to as East Parcel A), and 50-22-23-226-008 (previously referred to as East Parcel B). Phase 3 has been added to the concept since our review of the previous concept plan. Phase 3 appears to include two (2) parcels east of the Phase 1 and 2 properties; Parcel 50-22-23-226-021 and 50-22-23-226-022. Phase 1 consists of market, retail, restaurant, townhome residential and light industrial use (existing ECCO Tool Co., grandfathered in). Phase 2 consists of restaurant, retail, spa, office, hotel, residential and parking structure uses. Phase 3 consists of town-home residential and parking.

The majority of the central portion of the project site is indicated as City-Regulated Woodland on the City's Regulated Woodland Map (see Figure 1, attached). There is also area designated as Regulated Woodland along the western edge of the project property. The majority of the area that contains the open water pond/wetland (i.e. Wetland 2) is not indicated as Regulated Woodland. The parcels contained within Phase 3 of the project are also not indicated as City-Regulated Woodland. It should be noted that the purpose of the City of Novi Woodland Protection Ordinance (Chapter 37) is to:

- *Provide for the protection, preservation, replacement, proper maintenance and use of trees and woodlands located in the city in order to minimize disturbance to them and to prevent damage from erosion and siltation, a loss of wildlife and vegetation, and/or from the destruction of the natural habitat. In this regard, it is the intent of this chapter to protect the integrity of woodland areas as a whole, in recognition that woodlands serve as part of an ecosystem, and to place priority on the preservation of woodlands, trees, similar woody vegetation, and related natural resources over development when there are no location alternatives;*
- *Protect the woodlands, including trees and other forms of vegetation, of the city for their economic support of local property values when allowed to remain uncleared and/or unharvested and for their natural beauty, wilderness character of geological, ecological, or historical significance; and*
- *Provide for the paramount public concern for these natural resources in the interest of health, safety and general welfare of the residents of the city.*

City of Novi Woodland Review Standards & Woodland Permit Requirements

Based on Section 37-29 (*Application Review Standards*) of the City of Novi Woodland Ordinance, the following standards shall govern the grant or denial of an application for a use permit required by this article:

No application shall be denied solely on the basis that some trees are growing on the property under consideration. However, the protection and conservation of irreplaceable natural resources from pollution, impairment, or destruction is of paramount concern. Therefore, the preservation of woodlands, trees, similar woody vegetation, and related natural resources shall have priority over development when there are location alternatives.

In addition,

“The removal or relocation of trees shall be limited to those instances when necessary for the location of a structure or site improvements and when no feasible and prudent alternative location for the structure or improvements can be had without causing undue hardship”.

A Woodland Permit from the City of Novi would be required for proposed impacts to any trees 8-inch diameter-at-breast-height (DBH) or greater and located within an area designated as City Regulated Woodland, or any tree 36-inches DBH regardless of location on the site. Such trees shall be relocated or replaced by the permit grantee. All deciduous replacement trees shall be two and one-half (2 ½) inches caliper or greater and count at a 1-to-1 replacement ratio and all coniferous replacement trees shall be six (6) feet in height (minimum) and count at a 1.5-to-1 replacement ratio. All Woodland Replacement trees shall be species that are listed on the City’s Woodland Tree Replacement Chart (attached).

Woodland Evaluation

ECT has reviewed the City of Novi Official Woodlands Map and completed an onsite Woodland Evaluation on July 16, 2019 in order to verify existing woodland information (tree sizes, species, conditions, etc.) shown on the Plan. As noted, the majority of the central portion of the project site, as well as the western edge of the project site, is indicated as City-Regulated Woodland on the City’s Regulated Woodland Map (see Figure 1). It should be noted that approximately one-half of the site (the western half) has been previously disturbed and contains few trees of City-regulated size.

The surveyed trees have been marked with metal tree tags allowing ECT to compare the tree diameters reported on the *Tree List* (Sheet T-1.1) to the existing tree diameters in the field. ECT found that the Plan appears to accurately depict the location, species composition, size, and condition of the existing trees. ECT

took a sample of diameter-at-breast-height (DBH) measurements and found that the data provided on the Plan was consistent with the field measurements.

The current Plan includes a *Tree Protection Plan* (Sheet T-1.0) that indicates the locations of the surveyed trees as well as a *Tree List* (Sheet T-1.1) that provides tree tag number, species, diameter, condition of the surveyed trees on the site, save/remove status and number of Woodland Replacement Credits required for each tree proposed for removal. In general, the on-site trees consist of cottonwood (*Populus deltoides*), black locust (*Robinia pseudoacacia*), box elder (*Acer negundo*), silver maple (*Acer saccharium*), red maple (*Acer rubrum*), and several other species. While Sheet C-1.3 (*Topographic Survey – Sakura East*) includes the locations of surveyed trees within Phase 3 of the proposed development, the *Tree Protection Plan* does not currently include Phase 3. The Plan should include a *Tree Protection Plan* that incorporates Phase 3. In addition the *Tree List* does not appear to have been updated to include the existing trees located within Phase 3. This information should be added to the Plan. As Phase 3 is not located within area designated as City-Regulated Woodland, and there do not appear to be any trees 36-inches diameter or greater, it does not appear as if Phase 3 requires any Woodland Replacement Credits.

In terms of habitat quality and diversity of tree species, the overall subject site consists of trees in fair condition. In terms of a scenic asset, wildlife habitat, windblock, noise buffer or other environmental asset, the forested areas located on the subject site appear to be considered to be of fair quality. It should be noted that some sections of the forested portion of the site are dominated by invasive species of vegetation such as common buckthorn (*Rhamnus cathartica*).

The proposed Plan includes the removal of City-regulated trees as indicated below.

Proposed Woodland Impacts and Woodland Replacements

The *Woodland Replacement Plan* (Sheet L101) indicates that a total of one hundred one (101) trees of 8-inch DBH and located within mapped City Regulated Woodlands are proposed for removal. In addition, two (2) trees that are over 36-inches DBH located outside of the mapped City Regulated Woodland area are also proposed for removal (i.e., Tree #21 (43" silver maple) and Tree #24 (46" cottonwood). Each of these trees require four (4) Woodland Replacement credits as they are greater than 36-inches in diameter. Sheet L101 indicates that the removal of these 101 trees requires a total of 197 Woodland Replacement Credits. The following tree removals by diameter are indicated on Sheet L101:

- | | |
|-----------------------------------|---|
| • Stems to be Removed 8" to 11": | 30 x 1 replacement (Requiring 30 Replacements) |
| • Stems to be Removed 11" to 20": | 49 x 2 replacements (Requiring 98 Replacements) |
| • Stems to be Removed 20" to 30": | 19 x 3 replacements (Requiring 57 Replacements) |
| • Stems to be Removed 30"+: | 3 x 4 replacements (Requiring 12 Replacements) |
| • Total Stems Removed: | 101 |

Total Woodland Replacement Credits Required

197 Replacements

The *Woodland Replacement Plan* also indicates the following regarding Woodland Replacement Credits:

- Woodland Replacement Required = 197 Tree Credits
- Woodland Replacement Provided On-Site = 82.5 Tree Credits
- Trees Paid into Tree Fund = 114.5

However, an assessment of the *Tree Protection Plan* (Sheet T-1.0) and the *Tree List* (Sheet T-1.1) appears to indicate the following information:

- Total Trees to be Removed = 184
- Total Woodland Replacements Required = 341

It should be noted that the City's Woodland Ordinance does not have specific provisions to exempt regulated trees from replacement due to condition. The applicant should ensure that all trees (aside from dead trees and/or trees that are less than 8-inched DBH) being removed from the areas designated as City Regulated Woodland are proposed to be replaced. The applicant shall review and revise the Plan to ensure that the tree removal and replacement information is consistent on all applicable plans including the *Tree Protection Plan*, the *Tree List*, and the *Woodland Replacement Plan*.

Sheet L101 indicates that the applicant is prepared to meet the Woodland Replacement Credit requirement through the planting of various types of Woodland Replacement material, including canopy trees, evergreen trees, large shrubs, perennials, and ground cover seeding. The following Woodland Replacement materials have been proposed:

Table 1. Woodland Replacement Credits Proposed

Type	Credit Ratio	Proposed Quantity	Woodland Replacement Credits
Canopy Trees (1.5" caliper)	2:1	0	0
Evergreen Trees (36" height)	3:1	56	18.5 (9.4%)
Understory Trees (1" caliper)	5:1	0	0
Large Shrubs (30" height)	6:1	10	10.5 (5.3%)
Small Shrubs (18" height)	8:1	27	3.5 (1.7%)
Tree/Shrub Whips (24" height)	50:1	0	0
Perennials (1 gallon)	25:1	1125	45 (22.8%)
Ground Cover Seeding	70 Sq.Yd.:1	1390	20 (10.2%)
Total			82.5

The Plant List (Sheet L404) indicates the trees and shrubs as well as the perennials and ground cover currently proposed as Woodland Replacements. It should be noted that the deciduous trees, evergreen trees and shrubs currently proposed all appear to be acceptable species per the City's Woodland Replacement Tree Chart (attached). The applicant shall review and revise the perennials and ground cover (and grasses) list to ensure that all species being proposed for Woodland Replacement Credit are species native to Michigan. The plants currently listed, aside from prairie dropseed and little bluestem are not native to Michigan.

With regard to the location of woodland replacement trees, the Woodland Ordinance states:

- *The location of replacement trees shall be subject to the approval of the planning commission and shall be such as to provide the optimum enhancement, preservation and protection of woodland areas. Where woodland densities permit, tree relocation or replacement shall be within the same woodland areas as the removed trees. Such woodland replanting shall not be used for the landscaping requirements of the subdivision ordinance or the zoning landscaping;*

- *Where the tree relocation or replacement is not feasible within the woodland area, the relocation or replacement plantings may be placed elsewhere on the project property;*
- *Where tree relocation or replacement is not feasible within the woodland area, or on the project property, the permit grantee shall pay into the city tree fund monies for tree replacement in a per tree amount representing the market value for the tree replacement as approved by the planning commission. The city tree fund shall be utilized for the purpose of woodland creation and enhancement, installation of aesthetic landscape vegetation, provision of care and maintenance for public trees and provision and maintenance of specialized tree care equipment. Tree fund plantings shall take place on public property or within right-of-ways with approval of the agency of jurisdiction. Relocation or replacement plantings may be considered on private property provided that the owner grants a permanent conservation easement and the location is approved by the planning commission;*
- *Where replacements are installed in a currently non-regulated woodland area on the project property, appropriate provision shall be made to guarantee that the replacement trees shall be preserved as planted, such as through a conservation or landscape easement to be granted to the city. Such easement or other provision shall be in a form acceptable to the city attorney and provide for the perpetual preservation of the replacement trees and related vegetation.*

The applicant shall demonstrate that all proposed Woodland Replacement Trees will be guaranteed to be preserved as planted within a conservation easement or landscape easement to be granted to the City.

Woodland Review Comments

The following are repeat comments from our Woodland Review of the PRO Concept Plan (PSP19-0112) letter dated July 19, 2019. The current status of each comment follows in ***bold italics***. Please consider the following comments when preparing subsequent site plan submittals:

1. ECT encourages the Applicant to minimize impacts to on-site woodlands to the greatest extent practicable. Currently, the Plan appears to indicate that 167 of the 275 surveyed trees (60%) are to be removed.

This comment still applies. The current Plan (Woodland Replacement Plan; Sheet L101) indicates that a total of 101 existing trees are proposed for removal requiring 197 Woodland Replacement Credits. However, an assessment of the Tree List (Sheet T-1.1) appears to indicate the removal of 184 trees requiring 341 Woodland Replacement Credits. This discrepancy shall be reviewed and revised as necessary.

2. The applicant shall review and revise the Plan to ensure that the tree removal and replacement information is consistent and correct on all applicable sheets including the *Tree Protection Plan*, the *Tree List*, and the *Woodland Replacement Plan*. The Woodland Replacement Plan indicates that 70 regulated trees are to be removed requiring 142 Woodland Replacement Credits. However, an assessment of the *Tree List* (Sheet T-1.1) appears to indicate the removal of 167 trees requiring 286 Woodland Replacement Credits.

This comment still applies. The proposed woodland removal and replacement quantities have been revised since the previous plan submittal. As noted above, the Woodland Replacement Plan indicates that 101 regulated trees are to be removed requiring 197 Woodland Replacement Credits. However, an assessment of the Tree List (Sheet T-1.1) appears to indicate the removal

of 184 trees requiring 341 Woodland Replacement Credits. This discrepancy shall be reviewed and revised as necessary.

In addition, while Sheet C-1.3 (Topographic Survey – Sakura East) includes the locations of surveyed trees within Phase 3 of the proposed development, the Tree Protection Plan does not currently include Phase 3 of the development. The Plan should include a Tree Protection Plan that incorporates Phase 3. The Tree List does not appear to have been updated to include the existing trees located within Phase 3. This information should be added to the Plan. As Phase 3 is not located within area designated as City-Regulated Woodland, and there do not appear to be any trees 36-inches diameter or greater, it does not appear as if Phase 3 requires any Woodland Replacement Credits.

3. It should be noted that the deciduous trees, evergreen trees and shrubs currently proposed all appear to be acceptable species per the City's Woodland Replacement Tree Chart (attached). The applicant shall review and revise the perennials and ground cover (and grasses) list to ensure that all species being proposed for Woodland Replacement Credit are species native to Michigan. The ground cover, perennials, and grasses, aside from prairie dropseed and little bluestem, are not species native to Michigan.

This comment still applies. In addition, hemlock is not an approved Woodland Replacement species. Please refer to the Woodland Replacement Tree Chart (attached) for acceptable Woodland Replacement tree species.

4. A Woodland Permit from the City of Novi would be required for proposed impacts to any trees 8-inch diameter-at-breast-height (DBH) or greater and located within an area designated as City Regulated Woodland, or any tree 36-inches DBH regardless of location on the site. Such trees shall be relocated or replaced by the permit grantee. All deciduous replacement trees shall be two and one-half (2 ½) inches caliper or greater and count at a 1 tree-to-1 Woodland Replacement credit ratio and all coniferous replacement trees shall be six (6) feet in height (minimum) and count at a 1.5 tree-to-1 Woodland Replacement credit ratio. All Woodland Replacement trees shall be species that are listed on the City's Woodland Tree Replacement Chart (attached).

This comment still applies. Based on the Woodland Replacement Plan, the applicant proposes to replace 82.5 of the required 197 Woodland Replacement Credits (approximately 41%) on-site.

5. A Woodland Replacement Performance financial guarantee for the planting of on-site replacement trees will be required. This financial guarantee will be based on the number of on-site woodland replacement trees (credits) being provided at a per tree value of \$400.

This comment still applies. Based on the Woodland Replacement Plan (Sheet L101) a total of 82.5 Woodland Replacement Credits are to be provided on-site. Therefore, the Woodland Replacement Performance Guarantee will be \$33,000 (82.5 On-Site Woodland Replacement Credits x \$400/Credit).

6. Based on a successful inspection of the installed on-site Woodland Replacement trees, the Woodland Replacement financial guarantee will be returned to the Applicant. A Woodland Maintenance financial guarantee in the amount of twenty-five percent (25%) of the original Woodland Replacement financial guarantee will then be provided by the applicant. This Woodland Maintenance financial guarantee will

be kept for a period of 2-years after the successful inspection of the on-site woodland replacement tree installation.

This comment still applies. Based on the current Plan, the Woodland Maintenance Guarantee will be \$8,250 (82.5 On-Site Woodland Replacement Credits x \$400/Credit x 0.25).

7. The Applicant will be required to pay the City of Novi Tree Fund at a value of \$400/credit for any Woodland Replacement Tree Credits that cannot be placed on-site. Currently, all of the required Woodland Replacement Credits are proposed through on-site plantings. However, the applicant shall review and confirm that the woodland removal and required Woodland Replacement information is correct and consistent.

This comment still applies. Currently, the Plan proposes to pay 114.5 Woodland Replacement Credits to the City's Tree Fund. This payment would therefore be \$45,800 (114.5 Woodland Replacement Credits x \$400/Credit).

8. The Applicant shall provide preservation/conservation easements as directed by the City of Novi Community Development Department for any areas of woodland replacement trees to be installed in a currently non-regulated woodland area. The applicant shall demonstrate that the all proposed woodland replacement trees will be guaranteed to be preserved as planted with a conservation easement or landscape easement to be granted to the City. This language shall be submitted to the City Attorney for review. The executed easement must be returned to the City Attorney within 60 days of the issuance of the City of Novi Woodland permit. These easement areas shall be indicated on the Plan.

This comment still applies.

Recommendation

ECT currently does not recommend approval of the Revised PRO Concept Plan for Woodlands. The Applicant shall address the items noted in the *Woodland Comments* Section of this letter prior to receiving Woodland approval of the Plan.

If you have any questions regarding the contents of this letter, please contact us.

Sakura Way (JZ19-0031)
Woodland Review of the Revised PRO Concept Plan (PSP19-0150)
October 21, 2019 (REVISION 1)
Page 8 of 13

Respectfully submitted,
ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.



Pete Hill, P.E.
Senior Associate Engineer

cc: Lindsay Bell, City of Novi Planner
Sri Komaragiri, City of Novi Planner
Madeleine Kopko, City of Novi Planning Assistant
Rick Meader, City of Novi Landscape Architect

Attachments: Figure 1 – City of Novi Regulated Wetland and Woodland Map
Woodland Tree Replacement Chart
Site Photos

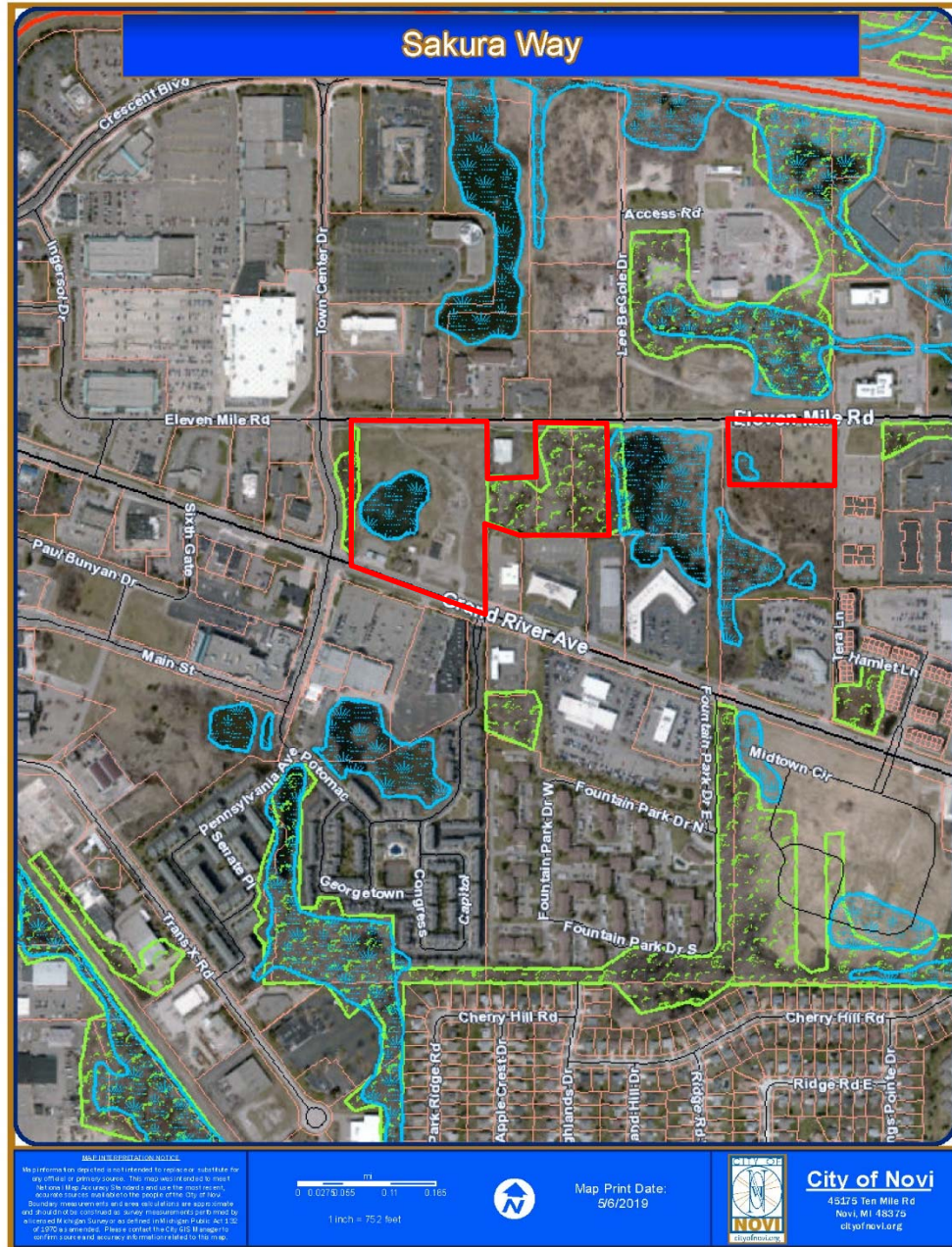


Figure 1. City of Novi Regulated Wetland & Woodland Map (approximate parcel boundary shown in red). Regulated Woodland areas are shown in green and Regulated Wetland areas are shown in blue.

Woodland Tree Replacement Chart

(from Chapter 37 Woodlands Protection)
(All canopy trees to be 2.5" cal or larger, evergreens as listed)

Common Name	Botanical Name
Black Maple	Acer nigrum
Striped Maple	Acer pennsylvanicum
Red Maple	Acer rubrum
Sugar Maple	Acer saccharum
Mountain Maple	Acer spicatum
Ohio Buckeye	Aesculus glabra
Downy Serviceberry	Amelanchier arborea
Smooth Shadbush	Amelanchier laevis
Yellow Birch	Betula alleghaniensis
Paper Birch	Betula papyrifera
American Hornbeam	Carpinus caroliniana
Bitternut Hickory	Carya cordiformis
Pignut Hickory	Carya glabra
Shagbark Hickory	Carya ovata
Northern Hackberry	Celtis occidentalis
Eastern Redbud	Cercis canadensis
Pagoda Dogwood	Cornus alternifolia
Flowering Dogwood	Cornus florida
American Beech	Fagus grandifolia
Thornless Honeylocust	Gleditsia triacanthos inermis
Kentucky Coffeetree	Gymnocladus dioica
Walnut	Juglans nigra or Juglans cinerea
Eastern Larch	Larix laricina
Tuliptree	Liriodendron tulipifera
Tupelo	Nyssa sylvatica
American Hophornbeam	Ostrya virginiana
White Spruce_(1.5:1 ratio) (6' ht.)	Picea glauca
Black Spruce_(1.5:1 ratio) (6' ht.)	Picea mariana
Red Pine_(1.5:1 ratio) (6' ht.)	Pinus resinosa
White Pine_(1.5:1 ratio) (6' ht.)	Pinus strobus
American Sycamore	Platanus occidentalis
Black Cherry	Prunus serotina
White Oak	Quercus alba
Swamp White Oak	Quercus bicolor
Scarlet Oak	Quercus coccinea
Shingle Oak	Quercus imbricaria
Burr Oak	Quercus macrocarpa
Chinkapin Oak	Quercus muehlenbergii
Red Oak	Quercus rubra
Black Oak	Quercus velutina
American Basswood	Tilia americana

Site Photos



Photo 1. Looking west towards area of mapped City Regulated Woodland on the western side of the project (ECT, July 16, 2019).



Photo 2. Looking south towards regulated Trees #21 and #24 (ECT, July 16, 2019). These two (2) trees are regulated due to their diameter (i.e., greater than 36 inches).



Photo 3. Looking east at area of mapped City Regulated Woodland on the central/eastern portion of the project (near parcel 50-22-23-126-011 and 50-22-23-226-007 boundary), ECT, July 16, 2019.



Photo 4. Tree No. 1290 (21" silver maple) located on ECCO Tool property and proposed for removal. Trees were marked with aluminum tags allowing ECT to compare the tree diameters reported on the Plan with the existing trees in the field.



Photo 5. Tree No. 1290 (21" silver maple) located on ECCO Tool property and proposed for removal. Trees were marked with aluminum tags allowing ECT to compare the tree diameters reported on the Plan with the existing trees in the field.

TRAFFIC REVIEW



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

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

Project name:
JSP19-0019 Sakura Way Revised PRO Concept
Traffic Review

From:
AECOM

Date:
November 1, 2019

CC:
Sri Komaragiri, Lindsay Bell, Kate Richardson,
Madeleine Kopko, Victor Boron

Memo

Subject: JSP19-0019 Sakura Way Revised PRO Concept Traffic Review

Recommendation removed

GENERAL COMMENTS

1. The applicant, Sakura Novi, LLC, is proposing a walkable mixed-use community with a hotel, grocery store, office buildings, tea house, restaurant, and 68 townhomes between Eleven Mile Road and Grand River Ave, east of Town Center Drive. A third phase of development would include a 52 unit residential townhome development south of Eleven Mile Road and roughly 1,200 feet west of Meadowbrook Road. Access points for this development would be on Eleven Mile Road only.
2. Eleven Mile Road is under the jurisdiction of the City of Novi. Grand River Avenue is under the jurisdiction of Oakland County.
3. The parcels are zoned OSC, OS-1, and I-1. The applicant is proposing rezoning the area to TC-1 with a PRO.
4. The traffic related deviations requested by the client are discussed in the Requested Deviations section of this letter.

TRAFFIC IMPACTS

1. AECOM performed an initial trip generation estimate based on the ITE Trip Generation Manual, 10th Edition, as follows:

ITE Code: 220 Multi-Family housing (Low-Rise), 850 Supermarket
Development-specific Quantity: 68 (220), 30 (850)
Zoning Change: As indicated above for PRO

Trip Generation Summary				
	Estimated Trips	Estimated Peak-Direction Trips	City of Novi Threshold	Above Threshold?
AM Peak-Hour Trips	33+115=148	25+69=94	100	Yes

PM Peak-Hour Trips	42+318=360	26+162=188	100	Yes
Daily (One-Directional) Trips	473+3203=3676	N/A	750	Yes

2. The number of trips exceeds the City's threshold of more than 750 trips per day and 100 trips per either the AM or PM peak hour. These estimates include only two (2) of the proposed sections of the development, which indicates that total trips for the development, including the restaurants, hotel, and office buildings, would be even greater. AECOM recommends performing the following traffic impact studies in accordance with the City's requirements.

Trip Impact Study Recommendation	
Type of Study:	Justification
Rezoning Traffic Impact Study	The applicant is proposing rezoning the parcels and so a rezoning traffic study comparing the trips possible under the current and proposed zoning, as well as the proposed land use, is required. A TIS Addendum containing the RTS information was submitted and a brief review is included in this letter.
Traffic Impact Study	The proposed developments exceed the City of Novi thresholds for requiring a Traffic Impact Study. A TIS was submitted by the applicant and was reviewed under a separate letter. The TIS Addendum is reviewed below.

RTS/TIS COMMENTS

The following comments relate to the TIS Addendum submitted as part of the revised PRO Concept package.

- The proposed development is expected to result in more trips on Saturday peak hour than the maximum permitted under the existing zoning. However, the report preparer expects the number of new trips to be less than the total permitted under the existing zoning, due to pass-by trips and internal capture.
- The preparer conducted a capacity analysis at the driveway for the Phase 3 development. The total trips are expected to be low and the delay for all approaches is expected to be LOS B or better during all peak periods.
- The preparer conducted a turn lane warrant analysis for the right turns into the development.
 - The image of the warrant provided lists 76 right turns during the PM peak period. It is unclear how this number was calculated.
 - The applicant indicates an ADT of 8,936 for 2028.
 - With the 76 right turns during the PM peak hour and an ADT of 8,936, a right turn taper is required as per City ordinance. Both the TIS and the TIS addendum submitted by the applicant indicate that a taper is required yet the site plan does not show a taper. The site plan provided and should be revised to show a taper.

EXTERNAL SITE ACCESS AND OPERATIONS

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

- The applicant is proposing four (4) or five (5) points of access to the development, as follows:
 - Two (2) driveways off of Grand River Avenue.
 - Two (2) or three (3) driveways off of Eleven Mile Road.

- i. If the non-residential development for phase 2 in the northeast corner of the site is used, there is an additional driveway. If the area is developed using the residential section, only two (2) driveways will be present.
 - c. The applicant has provided some driveway dimensions and details that are in compliance with City standards but should label for all driveways, including width and radii, for the proposed access points, and any modifications to the external roadways to review compliance with City and County design standards, as applicable.
2. The east development (Phase 3) has one (1) driveway off Eleven Mile Road
 - a. The driveway dimensions are in compliance with City standards.
3. The applicant should review Section 11-216(d)(1) of the City's Code of Ordinances to confirm that the allowable number of site driveways is provided.
4. The applicant should confirm that the proposed driveways meet the same side spacing requirements as indicated in Section 11-216(d)(1)(d) and Figure IX.12 of the City's Code of Ordinances and dimension the spacing on the plans.
 - a. The easternmost driveway on Grand River Avenue appears to not meet driving spacing with the driveway to the east.
5. The western driveway on Grand River Avenue is a right-in/right-out only driveway.
6. The applicant has included sight distance measurements for the driveways along Grand River Avenue and Eleven Mile Road that are in compliance with Figure VIII-E of the City's Code of Ordinances.
7. The applicant is proposing sidewalk along Grand River Avenue that connects to existing sidewalk on the east side of the site. There is existing sidewalk along Eleven Mile Road for the length of the site.
 - a. The applicant has provided proposed sidewalk and ramp details and included the latest Michigan Department of Transportation (MDOT) sidewalk ramp detail.

REQUESTED DEVIATIONS

The following comments relate to the requested deviations.

1. Deviation 5: The applicant is seeking a deviation for parking setback along 11 Mile Road. Parking is required to be 25' from the ROW line. The proposed distance is 10'. Applicant states this deviation is essential to accommodate existing conditions to avoid excessive modifications for short term use.
 - a. *AECOM would support the deviation for the parking lot along 11 Mile Road but not the spaces along the main drive (as shown in Figure 5.3.13 of the Zoning Ordinance).*
2. Deviation 11: The applicant is seeking a deviation for parking setback in the NE corner, which is 6'.
 - a. *AECOM would support this deviation.*
3. Deviation 14: The applicant is seeking loading zone requirement reductions, for amounts specified in the site plan.
 - a. *AECOM would support the deviation provided the applicant can provide truck turning movements that show the loading zones can be accessed by the relevant vehicles. The applicant provided truck turning movements to loading area A but should also show movements for loading areas B and C to ensure accessibility.*
4. Deviation 20: The applicant is requesting a deviation for drive lane width in Residential Phase 1. A total width of 20' is requested as the deviation width. The ordinance requirement is 24' or 22' where no parking is present, as is the case for this location, resulting in a reduction of 2' requested.
 - a. *AECOM would support this deviation in the vicinity listed, as long as signage is put in place indicating no parking is allowed outside of marked spaces in the residential area. While two (2) passenger vehicles can pass each other as indicated in the diagram on sheet C-2.2, emergency vehicles are wider, typically more than 8' wide, making a 20' roadway a tight fit for fire or medical emergency vehicles to access if vehicles are parked.*

INTERNAL SITE OPERATIONS

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

1. General Traffic Flow

- a. The site generally appears to be accessible to passenger vehicles.
- b. The applicant has provided fire truck turning paths to ensure accessibility.
- c. The applicant has provided dimensions for the landscape areas radii throughout the development.
- d. The applicant has generally indicated curb heights adjacent to parking spaces to be 4" throughout the development. Note that 6" curbs are required along all landscape areas, except when in front of a 17' parking space where a 4" curb is permitted.
- e. The applicant has indicated no more than 15 consecutive parking spaces, which is in compliance with the City's Zoning Ordinance, Section 5.5.3.C.ii.i.
- f. The applicant is required to provide a loading zone in the amount of 10 square feet for each front foot of building, per TC-1 (planned PRO zoning) district requirements in Section 5.4.
 - i. The applicant has identified loading zones for three (3) of the proposed buildings.
 - ii. The applicant should provide truck travel patterns throughout the site to confirm accessibility to/from loading zones B and C.
 - iii. The applicant has indicated they are seeking a deviation for loading zone areas.
- g. The applicant has proposed trash receptacles at the majority of the proposed buildings.
 - i. The applicant should confirm that the trash receptacles are accessible by trash collection vehicles via turning movement paths.
 - ii. There are no trash receptacles indicated in the Phase 3 development area.

2. Parking Facilities

- a. The applicant should reference the Planning Review letter for information regarding required off-street parking quantities.
 - i. The applicant is proposing surface lot spaces in Phase 1 and parking structure spaces, as well as surface lot spaces, in Phase 2.
- b. The proposed parking lot parking space dimensions are generally in compliance with City standards; however, curb heights should be provided to confirm space length dimensions are appropriate. The applicant should reference Section 5.5.3.C.ii for additional information about required curb heights in relation to parking space length.
 - i. If a 17' space is provided with a 4" curb, a 2' clear overhang, free from signs or other barriers, must be provided.
- c. The applicant is generally proposing 9' wide parking spaces within the attached parking facility, which matches the required standard.
- d. The applicant is proposing 23 barrier free parking spaces. A total of nine (9) barrier free spaces are required of the 472 parking spaces proposed in Phase 1. The applicant has indicated the proposed dimensions for the accessible parking spaces.
 - i. The applicant has indicated which spaces are intended to have van accessible signs. However, spaces on both sides of the 8' aisles may be considered van accessible. The applicant could consider marking the spaces on both sides as van accessible. Five (5) spaces are marked van accessible, which exceeds the minimum of two (2).
 1. One (1) of the spaces marked as van accessible, adjacent to building "B", does not have the required 8' aisle. The sign should be updated to be non-van accessible or the aisle widened.
- e. Barrier free parking spaces should be indicated at the east development.
- f. The applicant has generally indicated 24' aisles. Several aisles in the residential area of the development are indicated to be 20' or 21' wide. The applicant should increase the widths of these aisles to be 24' in order to be in compliance with Section 5.3.2 of the City's Zoning Ordinance.

- i. The applicant has indicated they are seeking a deviation for the width of the aisles.
- g. If the deviation for reduced parking is granted, the applicant is required to provide 19 bicycle parking spaces for the Phase 1 mixed-use development portion of the proposed area and 14 for the residential area, totaling 33 spaces. The applicant has provided 40 spaces.
 - i. The development of the Phase 2 area may require additional bicycle parking in both the mixed-use and residential areas.
 - ii. The applicant has indicated bicycle parking on the south and east sides of building A, the west side of building B, and the southwest corner of proposed building E, as well as in the garages of the residential area.
 1. The applicant should indicate the building entrances on the site plan to allow for identifying the distance from the bicycle parking to the entrances. Bicycle parking spaces are to be no more than 120 feet from the building entrances being served.
 2. Bicycle parking is required to be separated from vehicle parking and access aisles by a raised curb, landscape area, sidewalk, or other method, as per Section 5.16.5.D of the City's Zoning Ordinance.
 - iii. The Zoning Ordinance, Section 5.16.4 provides the following covered bicycle parking space requirement: *Unless waived or modified as provided in subsection 5E, when twenty (20) or more bicycle parking spaces are required, twenty-five (25) percent of the bicycle parking spaces shall be covered bicycle parking spaces.*
 1. As the spaces in the garages of the residential section are not for public use, the mixed-use portion of the development is considered separately. Under Phase 1, the 19 spaces required do not require any covered spaces. When Phase 2 is constructed, a total of nine (9) spaces (25% of the 36 required) must be provided as covered bicycle parking in the mixed-use portion of the development.
 - iv. The applicant has provided the design of proposed bicycle racks.
 - v. The applicant has provided the proposed bicycle parking layout. **Paved pathways with a minimum width of 6' are required from the bicycle parking to roadway facilities or other mixed-use pathways.** Ramps should be provided from along the paved pathway.
 - vi. The Phase 3 development will require bicycle parking. At one (1) space per five (5) units, a total of 11 spaces will be required as per the Zoning Ordinance.
3. Sidewalk Requirements
 - a. The applicant should provide sidewalk width details throughout the site.
 - b. The applicant has indicated locations of and details for all proposed sidewalk ramps throughout the site and included the latest MDOT sidewalk ramp detail.
 - c. It should be noted that all bicycle parking facilities shall be accessible from adjacent street(s) and pathway(s) via a paved route that has a minimum width of 6'.

SIGNING AND STRIPING

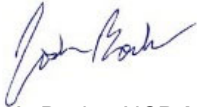
1. All on-site signing and pavement markings shall be in compliance with the Michigan Manual on Uniform Traffic Control Devices (MMUTCD). The following is a discussion of the proposed signing and striping.
 - a. The applicant has provided a signing quantities table but should additional details (MMUTCD designation and proposed size) in future submittals. This information should be provided in the quantities table.
 - b. The applicant should review the location of the applicable signing at the proposed right-in/right-out driveway along Grand River Avenue. The channeling island could be revised to further discourage left turns into and out of the driveway. The orientation of the "No Left Turn" sign in the island is incorrect.
 - c. Signing for the Phase 3 development should be provided.
2. The applicant has provided 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 included parking space striping notes to indicate that:
 - a. The standard parking spaces shall be striped with four (4) inch white stripes.
 - b. The accessible parking space and associated aisle should be striped with four (4) inch blue stripes.
 - c. Where a standard space is adjacent to an accessible space, abutting blue and white stripes shall be installed.
 4. The applicant has provided a detail for the proposed international symbol for accessibility pavement markings that may be placed in the accessible parking space. The symbol shall be white or white with a blue background and white border with rounded corners.
 5. The applicant has provided a detail for the proposed crosswalk markings.

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

Sincerely,

AECOM



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



Patricia Thompson, EIT
Traffic Engineer

FAÇADE REVIEW



October 18, 2019

City of Novi Planning Department
45175 W. 10 Mile Rd.
Novi, MI 48375- 3024

Façade Review Status Summary:

**Recommendation
removed**

Re: FACADE ORDINANCE REVIEW
Sakura Way PRO, JZ19-31
Façade Region: 1, Zoning District: OSC & OS-1,

Dear Ms. McBeth;

The following is the Façade Review for the above referenced project. The review of Buildings A, B and C is based on the drawings prepared by Wah Yee Associates Architects, dated 10/2/19. The review of the residential buildings is based on the drawings prepared by Brian Neeper Architecture and Robertson Brothers Homes, dated 9/27/19. The proposed percentage of materials on each elevation is shown in the table below. The maximum percentage allowed by the Ordinance is shown in the right hand column. The Façade Ordinance requires 30% minimum Brick on all buildings in Façade region 1. In this case all buildings except several of the residential units fall in Façade Region 1. Materials in non-compliance, if any, are highlighted in bold. A sample board as required by Section 5.15.4.D was not available at the time of this review.

Building A & D (Specialty Grocery)	South (Front)	West	East	North	Façade Ordinance Section 5.15 Maximum
Brick	31%	38%	31%	37%	100% (30% Minimum)
Concrete "C" Brick	0%	0%	23%	26%	25%
Fiber Cement Siding (Nichiha)	23%	16%	0%	0%	25%
EIFS	18%	27%	36%	30%	25%
GFRC Panels	12%	13%	3%	3%	15%
Precast Concrete	0%	0%	0%	0%	0%
Fabric Awning	4%	3%	0%	0%	10%

Building A - As shown above, the applicant has increased the percentage of Brick and reduced the percentage of Precast Concrete. The only remaining deviation is a minor overage of EIFS on the west, east and north facades. A Section 9 Waiver would be required for this deviation.

Building B (Restaurant)	South	West	East	North	Façade Ordinance Section 5.15 Maximum
Brick	35%	35%	27%	30%	100% (30% Minimum)
Flat Metal Panels	49%	54%	51%	49%	50%
EIFS	13%	11%	16%	15%	25%
Limestone (Cast Stone)	0%	0%	0%	0%	50%
Trim (canopies and sunscreens)	3%	0%	6%	6%	15%

Building B - As shown above the applicant has added Brick and reduced the percentage of EIFS and Flat Metal Panels. The only remaining deviation is a minor overage of EIFS on the west and east facades. A Section 9 Waiver would be required for this deviation.

Building C (Retail Strip)	South (Grand River)	West	East	North (Interior Front)	Façade Ordinance Section 5.15 Maximum
Brick	51%	40%	32%	59%	100% (30% Minimum)
Flat Metal Panels	17%	10%	24%	12%	50%
Fiber Cement Siding (Nichiha)	0%	0%	0%	0%	25%
Spandrel Glass	7%	0%	0%	0%	50%
EIFS	11%	40%	29%	12%	25%
Limestone (Cast Stone)	8%	4%	11%	8%	50%
Concrete "C" Brick	0%	0%	0%	0%	25%
Trim (canopies and sunscreens)	6%	6%	4%	9%	15%

Building C - As shown above the applicant has added Brick and reduced the percentage of Flat Metal Panels. The only remaining deviation is a minor overage of EIFS on the west facade. A Section 9 Waiver would be required for this deviation.

Fence and Dumpster Enclosure	Front	Rear	Right	Left	Façade Ordinance Section 5.15 Maximum
Brick	95%	95%	95%	95%	100% (30% Minimum)
Cast Stone	5%	5%	5%	5%	50%

Site Fence and Dumpster Enclosure – As shown above, all facades are in full compliance with the Façade Ordinance. The project logo sign is not considered part of the façade materials and should comply with the City's Sign Ordinance.

Residential 100 Series, 3, 5, 6 & 8 -Unit Buildings	Front	Rear	Right	Left	Façade Ordinance Section 5.15 Maximum
Brick	39%	41%	53%	53%	100% (30% Minimum)
Vinyl Siding	23%	25%	41%	41%	0%
Asphalt Shingles	16%	24%	0%	0%	50%
Trim	22%	10%	6%	6%	15%

100 Series Residential Buildings - As shown above the applicant has increased the Brick and reduced the percentage of Vinyl Siding. Vinyl Siding is not permitted in any Façade Region. We would support a Section 9 Waiver for the overage of siding provided that the type of siding is changed to Cement Fiber Siding or other more compliant type of siding.

Residential 200 Series, 5, & 8 -Unit Buildings	Front	Rear	Right	Left	Façade Ordinance Section 5.15 Maximum
Brick	33%	16%	37%	37%	100% (30% Minimum)
Vinyl Siding	40%	47%	58%	58%	0%
Asphalt Shingles	14%	20%	0%	0%	50%
Trim	13%	17%	5%	5%	15%

200 Series Residential Buildings - As shown above the applicant has increased the Brick and reduced the percentage of Vinyl Siding. The percentage of Brick on the rear façade remains in noncompliance. Vinyl Siding is not permitted in any Façade Region. We would support a Section 9 Waiver for the overage of siding provided that the type of siding is changed to Cement Fiber Siding or other more compliant type of siding and the percentage of Brick on the rear façade be increased to for consistency with the Series 100 buildings (not less than 30%).

Recommendations (Commercial Buildings) – In response to our prior review the applicant has added significant percentages of Brick and generally revised the percentages of materials to more closely comply with the Façade ordinance. The facades include architectural features such as wood trellises, brise-soleil sunscreen canopies, freestanding metal screens, second story planters and balconies, tension fabric canopies, and large overhanging cornices. Although Building C has its rear elevation facing Grand River Avenue (south) that elevation has been given equal attention to detail as the front (north) facade. These features substantially enhance the overall design quality of the project and have been taken into consideration as part of our recommendation.

Residential Buildings – It is recommended that the type of siding be revised to a compliant type such as Fiber Cement and that the percentage of Brick on the rear façade of the 200 Series buildings be increased for general consistency with the Series 100 buildings (30% minimum).

Recommendation removed

The applicant should submit revised drawings along with the Façade Material Sample Board required by Section 5.15.4.D of the Ordinance.

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

Sincerely,
DRN & Architects PC



Douglas R. Necci, AIA

FIRE REVIEW



October 11, 2019

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

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

RE: Sakura Way

PSP# 19-0150

PSP# 19-0112

PSP# 19-0065

Project Description:

Multi building development off of Grand River and Town Ctr Dr.

Comments:

- All fire hydrants **MUST** in installed and operational prior to any building construction begins.
- Fire hydrant spacing is 300' from fire hydrant to fire hydrant. Fire hydrant spacing shall be measured as "hose laying distance" from fire apparatus. Hose laying distance is the distance the fire apparatus travels along improved access routes between hydrants or from a hydrant to a structure **(D.C.S. Sec. 11-68 (f)(1)c))**
- The ability to serve at least two thousand (2,000) gallons per minute in single-family detached residential; three thousand (3,000) gallons per school areas; and **at least four thousand (4,000) gallons per minute in office, industrial and shopping centers is essential. (D.C.S. Sec.11-68(a))**
- Fire apparatus access drives to and from buildings through parking lots shall have a minimum fifty (50) feet outside turning radius and designed to support a minimum of thirty-five (35) tons. **(Throughout site) (D.C.S. Sec 11-239(b)(5))**
 1. In front of building 9 from the west to the south.
 2. In front of building 9 from north to the east.
 3. In front of building 11 from the west to the north.
 4. In front of building 3 from the south to the west.
 5. In front of building 2 from the east to the south.
 6. In front of building 5 from the north to the west.
 7. Between buildings 2 & 3 from the north to the east and from the north to the west.
- FDC's **MUST** be put on the plans for review.
- FDC locations **MUST** be within 100' from a fire hydrant. FDC's **MUST** be front/road side of the structure. **IFC 912.3**
- The water main on the east side of building 12 **MUST** be increased to 8". **Novi City Ordinance #11-68(c)(1)c.**

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

cityofnovi.org

- **ALL** water mains **MUST** be put on the plans for review.

Recommendation:

Recommendation removed.

Sincerely,

A handwritten signature in black ink, appearing to read 'KSP', with a long horizontal stroke extending to the right.

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

cc: file

PROJECT NARRATIVE



Robert B. Aikens
& ASSOCIATES, L.L.C.



October 2nd, 2019

City of Novi
Planning Department
45175 Ten Mile Road
Novi, MI 48375

Re: PRO Site Plan Submittal Project Narrative
Sakura Novi & The Residences at Sakura Novi
Novi, MI

PROJECT OVERVIEW

Robert B. Aikens & Associates, LLC and Robertson Brothers Homes are pleased to submit a PRO Rezoning and Site Plan application for properties near Town Center Drive between Grand River Avenue and 11 Mile Road. The development team has been working with City staff to develop for the community **Sakura Novi**, an Asian-themed, mixed-use development in the heart of downtown Novi on land owned by the City of Novi, land owned by Ecco Tool Co. and land owned by the Stoychoff's and M. Roberts.

The Anglin parcel, purchased in 2016 by the City of Novi, was identified in the 2016 Master Plan Update as one of three notable redevelopment sites in the City; and was deemed in the 2014 Town Center Area Study to be one of ten sub-areas in the Town Center Area. During 2016, leaders from the City of Novi and from Oakland County were contemplating the idea of an "Asian Village" to celebrate the cultural diversity for which Novi has come to be known. At the same time, the popular Japanese Grocery Market and long-term Novi institution, One World Market, expressed an interest in creating in Novi a new proto-type Asian Grocery Market and Food Hall. One World Market is a unit of True World Group, the largest distributor of fish to sushi restaurants in the United States. True World Group, along with the City and County, enlisted the services of Robert B. Aikens & Associates, LLC to bring to life this broad vision, now known as Sakura Novi. Anchored by the 25,000 sf Grocery Market / Food Hall, Sakura Novi will also include a carefully curated collection of Asian restaurants and retail uses, a grouping of distinctively appointed townhomes, along with other amenities intended to strengthen Novi's downtown core.

The development team, urged on from the start by members of City Council, extended the land acquisition East across parcels owned by Ecco Tool Co to reach to another parcel owned by the City of Novi. This effort was in order to incorporate up to 68 townhome-style apartments, and more fully realize the City's vision for a walkable, mixed-use facility. This portion of the development, called **The Residences at Sakura Novi**, is led by Robertson Brothers Homes. The townhomes will range in size between 1100 and 1500 square feet. Over the past decades, Robertson Brothers has had success with this mix of townhomes and is confident the project will be well received in Novi. The Residences at Sakura Novi will be managed in the context of the wider Sakura Novi campus as an apartment community. Elevations of the homes have been attached for consideration. Phase 3 will be known as The Residences at Sakura Novi, East, and this will include an additional 52 residential units.

Sakura Novi, a walkable mixed-use project, will feature the existing Anglin retention pond carefully reinvented as one of the primary site and community amenities. Understanding the City's stated enthusiasm for the potential of the pond as a community amenity, the developer has striven to resurrect this site and activate the pond as a feature, working in the context of the well-known difficulty with the soils throughout the site. Activation and integration will require a certain amount of building adjacent to the water feature.

With gardens as per Sakura Novi's Asian inspiration, the water feature will be surrounded by natural elements, including a walking path, cherry trees and other distinctive components. These green elements will carry through to a Common lawn in the residential site and through to the city-owned wetlands to the East of the site.

PLANNED REZONING OVERLAY

A Planned Rezoning Overlay zoning district is proposed for the site. The purpose of the PRO district is intended to establish a set-criteria for a given property based on the unique characteristics of the land. Specifically, the proposed project is unique in that, as per the 2016 Master Plan Update, it represents an opportunity to transform an area at the center of the City that has been identified by the City as a potential and desirable redevelopment area. The uniqueness of the site comes from the fact that it is largely unimproved and sits at the heart of downtown Novi.

The proposed use of the land will add an exciting and unique collection of pedestrian-friendly grocery, restaurant and retail uses, and will be integrated with existing and new residential developments, in a green and walkable environment that will open a great swath of Downtown Novi to the on-going development of a more dense, functional downtown core. The project's future residents will help provide a critical mass of customers that will drive the creation and further success of desired commercial activity in the entire district. The townhome units will seek to serve demand for the "missing middle" typology that communities struggle to provide.

PHASING

Sakura Novi is envisioned in 3 basic phases:

- Phase 1 will feature the 25,000 sf Japanese grocery market / food-hall created by True World Group, a restaurant and retail collection, and a 68-unit townhome apartment project. At the completion of Phase 1, the Phase 2 land that remains will be grassed development pads. The time-line for the development of Phase 1 is, at present, a function of meeting the conditions within the Purchase Agreement with the City of Novi. Once we identify the time-line for meeting the conditions within the PA, we will more accurately be able to estimate a Phase 1 project time-line. Once the City land is purchased by the developer, our estimated time-line for Grand Opening is approximately two years.
- The Phase 2 uses are being presented in the current submittal package as two extremes of a range of development options. The plans submitted detail a minimum density scenario seen as immediately viable by the development team, and also a maximum density scenario that has been contemplated with our traffic, parking and comparative development demand studies. The Phase 2 timing and uses are currently TBD, and will be fully dependent on market forces. Phase 2 of Sakura Novi anticipates the possibility of adding more residential units, hotel or senior living facility, office, and more retail and restaurants, among other potential uses. Language pertaining to Phase 2 options will be further refined during the preparation of the PRO Agreement.



- Phase 3, The Residences at Sakura Novi, East, is a residential project with 52 additional units directly east of the Phase 1 residential site.

ZONING

Sakura Novi consists of several parcels of land (#22-23-126-006, #22-23-126-011, #22-23-226-007, #22-23-226-008, #22-23-226-021 & #22-23-226-022) under contract with four separate owners totaling approximately 19 acres. The Anglin parcel, owned by the City, contains several vacant buildings that abut Grand River Avenue. These dilapidated structures will be removed to make way for the development. Ecco Tool Co has agreed to sell a portion of their raw land to accommodate the project, while keeping a portion of their site in order to continue to operate the family business.

The land is currently zoned OS-1, OSC and I-1. We are seeking to rezone these parcels to TC-1. The desired land uses for Sakura Novi as requested by Robert B. Aikens & Associates, LLC and Robertson Brothers Homes, as per the 2016 Master Plan Update and as per TC-1, include Retail businesses, Retail business service uses, Business establishments which perform services on the premises, Professional Services, Off-street parking lots, Restaurants, Offices, Outdoor public gathering places, Hotels, and Residential dwellings. All of these uses are included in the TC-1 classification. If appropriate opportunities present themselves, as part of Phase 2 a Special Land Use for the Sale of produce and seasonal plant materials outdoors and Brewpubs may also be sought.

If the land remains zoned as OS-1, OSC and I-1, we will not be able to create Sakura Novi. Sakura Novi and the creation of a walkable central core for Novi's downtown, rely on the lot density permitted as a part of the TC-1 Zoning classification. The basic setback parameters of the current classifications preclude the development of a more dense, walkable, appropriately scaled pedestrian environment. That is a core tenet of Sakura Novi. Phase 1 and possible Phase 2 land uses that will not be permitted if land remains OS-1, OSC and I-1 include Retail Businesses, Restaurants, Hotels, and Residential Buildings. In fact, the only allowable land uses under OS-1, OSC and I-1 featured in Phase 1 of Sakura Novi include Off-street parking lots and public gathering places. Possible Sakura Novi Phase 2 land uses that will be permitted include Retail business services, Business establishments which perform services on the premises, Professional Services, Off-street parking lots, Offices, and outdoor public gathering places.

The two parcels owned by Ecco Tool Co are currently zoned I-1. Ecco Tool Co. intends to retain approximately .9 acres of their land in order to continue to run the family tool and die shop. As per the provisional purchase agreement with Ecco Tool Co, the land retained by Ecco Tool Co will be rezoned to TC-1. However, the land retained by Ecco Tool Co will need to become an accepted non-conforming use within the TC-1 district, so as to allow Ecco Tool Co to continue as a tool and die shop. The PRO will include the company's access for delivery trucks on the retained parcel; which will require cross access rights. A draft of a Cross Access Agreement is available upon request. The PRO will provide the Ecco Tool Co retained parcel with 12 parking spaces on the retained parcel or access to parking spaces on the non-retained property or on the Anglin property to make up any shortfall.

DUE DILIGENCE



**Robert B. Aikens
& ASSOCIATES, L.L.C.**



During Due diligence, the development team developed a better understanding of certain problems with the site. First, during the environmental evaluation, the pond was deemed a facility that will require environmental remediation. Second, the soils through the Anglin parcel have been identified through geo-technical research as unusually poor and loose. The City has expressed its willingness to partner on realizing their vision of the activation of the pond as a central amenity, first, by agreeing to make Brownfield Tax Credits a condition to close on the sale of the City-owned Anglin parcel; and, second, by supporting the creation of a Commercial Rehabilitation District on the site, and the issuance of certificates granting tax abatements for certain defined portions of the development.

WETLANDS

Onsite wetlands have been analyzed by Atwell, LLC as is provided with this submittal package. The pond to the West will function as a primary site feature as well as serve as the storm detention for the commercial portion of the project. There is a detention basin planned on the Eastern border, adjacent to the city retained retention wetland area that will also serve as storm detention for the residential portion and the Ecco parcel to remain in operation. Required wetland mitigation areas are anticipated to be developed as part of the same watershed, with final areas derived during the permitting process.

SECTION 7.13 2.B

Section 7.13 2.B. of the City of Novi Zoning Ordinance identifies conditions required as part of a PRO rezoning request, as follows:

1. The location, size, height or other measure for and/or of buildings, structures, improvements, setbacks, landscaping, buffers, design, architecture and other features shown on the PRO Plan.

The Sakura Novi development identifies the proposed setbacks and building sizes, Landscaping, design and other features on the proposed PRO plan submission package.

There are several deviations to be requested from the TC-1 Zoning District regulations, and there are several site specific reasons for this. The TC-1 classification matches recent classifications on adjacent properties, and is suitable for the Novi Downtown district development being proposed. The requested Zoning provides the greatest latitude to develop a walk-able, more dense level of varied occupancies suitable to this core neighborhood. Particular attention is being paid to the Town Center Area Study to create an inviting and connective pedestrian environment with this development, animated with not only dining options, shops and residences, but integrating the natural features of Novi's core in such a way as to delight the patrons and continue to entice people toward the core of this community. The deviations we are seeking pick up on suggestions as provided in the Town Center Area Study, and work together to provide the level of service expected by the residents of Novi and Oakland County.



2. Specification of maximum density or intensity of development and/or use, expressed in terms fashioned for the particular development and/or use, for example, and in no respect by way of limitation, units per acre, maximum usable floor area, hours of operation, and the like.

Phase 1 of the 19 acre site will feature a 25,000 sf grocery market / food-hall and approximately 20,000 sf of restaurants and retail that will operate at normal business hours for grocery markets, restaurants and retail. The development will additionally include 68 residential units, which is approximately 4.4 units per acre across the entire site. Phase 2 uses will be dictated by market dynamics, and could include more residential units, a hotel, more restaurants and retail, and some professional office uses.

3. Preservation of natural resources and/or features.

The western water feature will be showcased at Sakura Novi as a defining amenity of the site, and the residential community will be situated adjacent to the city-owned retention basin/wetland on the eastern edge of the site.

4. Facilities to address drainage/water quality.

The project will provide for storm detention utilizing the pond in the western portion of the site, and, in the eastern residential portion of the site in accordance with Oakland County standards relating to the use.

5. Facilities to address traffic issues.

A traffic study and parking study has been completed by Bergmann Associates and is included in this submittal package.

6. Preservation of open space.

Open space will be provided as a part of Phase 1 with the water feature and the surrounding walkways on the western portion of the site, through extensive common areas running throughout the commercial and residential portions of the site, and with the wetland on the Eastern edge of the site.

7. A written understanding for permanent maintenance of natural resources, features, and/or facilities to address drainage/water quality, traffic, open space and/or other features or improvements; and, provision for authorization and finance of maintenance by or on behalf of the City in the event the property owner(s) fail(s) to timely perform after notice.

Property Owners shall have an obligation to maintain the Western pond, detention facilities, wetlands, landscaping, drives/parking areas, pursuant to a recorded agreement TBD that runs with the land, and that Property Owners will commit that there is a responsible party who will be in charge of the maintenance of these items. Further, the property owner(s) will enter into any type of storm water facilities management agreement



required by the City which obligates the property owner to maintain all detention facilities and gives the City a self-help right in the event they do not.

Property Owners will grant the City the right pursuant to a recorded agreement(s) TBD to give a notice if the Owner is not maintaining properly, and if the failure is not corrected in a reasonable time, then the City reserves the right to enter the site and perform the repair/maintenance and charge the Owner the cost (plus the City's admin charge), and if not paid, Property Owners will grant the City the right to place it on the tax roll.

8. Other provisions proposed by the applicant and approved by the City.

Refer to the proposed PRO development plan submission.

9. Signage, lighting, landscaping, building materials for the exterior of some or all structures.

Signage, lighting, landscaping, and building materials for the exterior of some or all structures will be in keeping with a contemporary Asian-inspired mixed-use community. Among other things, we are taking our cues from trends in design practiced by national and international food & beverage operators. Our intent is to create an environment amenable for said operators, as well as to create designs that will be unique to Sakura Novi, to Novi, and to Michigan. Our specific recommendations on achieving this are spelled out to the best of our abilities through our submission materials. Furthermore, our plans include development of higher tier possibilities for softscape and hardscape to be realized through partnership with the corporate community and regional institutions. We have already initiated a partnership with the STAMPS School of Art and Design at the University of Michigan to help source critical creative components.

10. Permissible uses of the property.

The requested land uses as per the 2016 Master Plan Update and as per TC-1 for the range of development outlined in the Phasing Plan may include Retail businesses, Retail business service uses, Business establishments which perform services on the premises, Professional Services, Off-street parking lots, Restaurants, Offices, Outdoor public gathering places, Hotels, and Residential dwellings. All of these uses are included in the TC-1 classification. A Special Land Use for the Sale of produce and seasonal plant materials outdoors and Brewpubs may also be sought.

LIST OF REQUESTED DEVIATIONS

Sakura Novi's List of requested deviations from TC-1 Ordinance standards is included here:

1. Per section 3.27.1.C, Deviation is being requested for reduction of Exterior side yard setback dimension of 50' to 10' for Building A, where adjacent to Zoning B-3 commercial property (Advance Auto). RBA believes maintaining the stipulated setback would serve no good purpose as the commercial retail use on the adjacent parcel is similar in use to the uses proposed in Building A and for all GRA accessed components of proposed development. If this deviation is not obtained, the development will suffer from a large swath of the prime frontage along GRA being unusable for building footprints and useful parking, and will be

unable to accommodate the driving anchor tenant's requirements. Providing cohesively designed and integrated frontage along the GRA corridor, as opposed to fractured and separate, serves the intent of Novi's Master Plan.

2. Per section 3.1.26, Deviation is being requested for reduction of Exterior side yard parking setback dimension of 10' to 5' for the western parcel line near Grand River Avenue, adjacent to Zoning classification TC, a woodland preserve and green space preserve area (in perpetuity) directly adjacent. RBA believes the benefits presented by increasing the main western pedestrian project entrance sidewalk width and landscaping generosity greatly outweigh the value of additional landscaping provided against this natural, mature woodland preserve area. If this deviation is not obtained, the proposed development will provide a less significant public connection to the GRA/Main Street intersection and the adjacent city center developments, or unnecessarily need to reduce the proposed building footprints, reducing income and rendering the project un-viable. Providing cohesively designed and integrated pedestrian connections along the GRA corridor serves the intent of Novi's Master Plan.
3. Deviation per Section 11-216(d)(1) ~~removed~~ - ~~Deviation is being requested for 3 entrances from project onto Grand River Avenue, concurrent with the findings of the Traffic Report confirming this third easternmost entrance as proposed and where proposed will ease pressure on left eastbound turning movements out of site during peak times.~~
4. Per Section 3.6.2.M, a Deviation is being requested for reduction to 0' Wetland Setback to accommodate remediation process, development of feature landscaped retention basin on western portion of site and for careful integration of on-site detention on far eastern portion of site, abutting city-owned retention/wetland basin. Noted in Wetland Report. The deviation is essential to accommodate the environmental remediation process, the integration of the re-contoured and thematically planted perimeter banks, and to develop the central park-like pedestrian paths and water feature area accessible to Novi's public, designed to connect the existing Main Street area to the OSC development areas and hotels to the north. If this deviation is not obtained, creation of the public spaces and urban connectivity as envisioned in Novi's Master Plan will be far too consumptive of linear space for this particular site to be efficiently and effectively developed.
5. Per Section 3.1.26 - Deviation is being requested for existing and proposed side/front yard parking along 11 Mile Road. Existing occurs at Ecco Tool shop. Proposed occurs in two locations – see PRO plan. The deviation is essential to accommodate the existing conditions of an existing use to remain. If this deviation is not obtained, extensive modifications would need to be made for an unimproved, grandfathered use that is anticipated to be relocated in the near term.
6. Deviation per Section 5.5.3.B.ii.f ~~removed~~ - ~~Per Section 5.5.3.B.ii.f—Deviation is being requested for reduction in setback from 20' to 10' for temporary paved parking field along 11 Mile ROW in Phase 2 section of development, to be supplanted with future structured parking. See PRO plan. This deviation is of a practical nature in anticipation of, and when considering the maximum potential build-out foreseeable for this city central project site, consistent with Novi's Master Plan's intent. If this deviation is not obtained, significant construction complications are anticipated for the maximum potential build-out foreseeable for this city central project site.~~



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7. As a component of the Maximum Build-out scenario, Per Section 5.5.3.B.ii.f - Deviation is being requested for reduction in setback from 20' to 10' for temporary paved parking field along 11Mile ROW in Phase2 section of development, to be supplanted with future structured parking. See PRO plan. This deviation is of a practical nature in anticipation of, and when considering the maximum potential build-out foreseeable for this city central project site, consistent with Novi's Master Plan's intent. If this deviation is not obtained, significant construction complications are anticipated for the maximum potential build-out foreseeable for this city central project site.
8. As a component of the Maximum Build-out scenario, Per section 3.27.2.A.ii, Deviation is being requested for 11Mile buildings' frontages being less than 150'. Example: Building E currently contemplated as approximately 80'. Seeking height bonus as permitted for 6 level building E, with composition of uses as described/shown in chart on PRO plan. This deviation is essential when considering the maximum potential build-out foreseeable for this city central project site, consistent with Novi's Master Plan's intent.
9. As a component of the Maximum Build-out scenario, Per section 3.27.1.f, Deviation is being requested for standardized Open Space requirements for Phase2. Open Space is defined in the ordinance thusly: *Open Space: An area of land that remains primarily undeveloped and in its natural state. For the purpose of this Ordinance, open space may include park lands and park facilities so long as they are provided as a part of an open space area.* There will no longer be ground on this site in its natural state. This standard is not conducive to achieving an effective development result when the goal is dense development where site sizes are limited (under 50 acres or so). This deviation is essential *for all projects* when considering the maximum potential build-out foreseeable for this city central project site, consistent with Novi's Master Plan's intent. *Phase1 has been designed to meet the city's ordinance, but Phase2 will need the deviation if density beyond townhomes is desired.*
10. Per Section 3.27.1.C - Deviation request is **removed** for 11Mile frontage building setback limits.
11. Per Section 3.1.26 - Deviation is being requested for parking area setback in NE corner of project along 11 Mile Rd., adjacent to Residential Bldg3. See PRO plan. This deviation is of a practical nature as it is used in conjunction with the dropping natural grade along 11Mile Road at the east end of the site. This deviation allows more residential units to have their primary exposure and uninterrupted views toward the natural area to the east, as opposed to being elevated significantly above grade and overlooking 11 Mile Road, clearly less desirable to the occupants, fitting with the City's Master Plan intent of integrating existing natural features into new developments. If this deviation is not obtained, a harsh and unnecessary condition will be created, inconsistent with the project's desire for more natural features integration.
12. Per Non-Motorized Master Plan - Deviation request is **removed** along 11 Mile frontage – submission as proposed includes connection to existing bike path on north side of road (considered to be a Neighborhood Connector Route). ~~Per Section 3.27.1.f Deviation is being requested for reduction in sidewalk width from 12.5' to 6', such that sidewalk as proposed can be combined with adjacent landscaping as added buffer for residential product to be used in conjunction with maximum permitted setback. This condition is proposed for the length of the 11Mile Road project frontage. See PRO Landscape Plans. This deviation is of a practical nature in anticipation of the true quantity of pedestrian activity at the perimeter of the proposed TC 1 district, and is consistent with Novi's Master Plan's intent. An existing bike path is located on the north side of 11Mile Road, meeting the needs of the City's Non-~~



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~~Motorized Master Plan. If this deviation is not obtained, a harsh and unnecessary condition will be created, inconsistent with the project's desire for more natural features integration, which is consistent with the City's Master Plan.~~

13. Per Section 5.15 and 3.27.1.g – Deviation is requested for facade material exceptions included as part of the submittal, addressing comments received by city's architectural consultant. See PRO Plan Elevations. Also see included written Design Statements. The deviation is sought to accommodate the expectations of the international tenants and residents for distinctive enhancement and differentiation of this unique development destination project. This deviation allows the creation of environments more specifically tuned to the thematic Asian Village concept development that is being proposed, consistent with the intent of the City's Master Plan. If this deviation is not obtained, the significance of this unique, market specific development will be compromised. If this deviation is not obtained, creation of an authentically presented Asian Village will not be possible.
14. Per Sections 3.27.1.H and Section 5.4 – Deviation is being requested for limited reductions in loading/service areas, and locations, as shown - See PRO plan and accompanying chart detail. Deviation is requested for loading areas as positioned. Screening will be provided for all trash/loading areas not facing a directly adjacent loading area. This deviation provides for sufficient tenant loading and trash services, and allows for the creation of environments more specifically tuned to the thematic Asian Village concept development that is being proposed, consistent with the intent of the City's Master Plan. If this deviation is not obtained, significantly larger service areas will need to be provided in obtrusive areas that will adversely affect pedestrian traffic, which is not consistent with the City's Master Plan.
15. Per Section 3.27.2.B – Deviation is being requested for prototype store relocation opportunity. Tenant will contain 25,000sf on main level with 3,500sf support office use and 1,500sf overflow seating on mezzanine level. Tenant will have entrances on both permanent public building exposures, meeting the 125' maximum spacing criteria. See PRO plan. This deviation provides for the relocation of an existing Novi retailer, consistent with the City's Master Plan, and allows for the creation of an environment more specifically tuned to the thematic Asian Village concept development that is being proposed. If this deviation is not obtained, One World Market's development of a new prototype store and as the Asian Village anchor may be forced to relocate outside of Novi, which is not consistent with the City's Master Plan.
16. Deviation per Section 5.16.1 is being **removed** ~~for bicycle parking ratio on residential portion of overall project. Bicycle parking to be provided on Retail portion of project will exceed ordinance in Phase 1 based on Parking Study recommendations for overall parking required.~~
17. Per Section 5.7.3.K – Deviation is being requested for site illumination level variance for multiple walkway areas, and for TC-1 fixture style selection. Site walkway areas will vary below 0.2fc minimum standard on natural pathway around water feature. Site walkway areas in residential portion will vary below 0.2fc minimum standard. Parking area in residential area will fall below 0.2fc minimum standard. See revised PRO photometric plan. This deviation provides for sufficient nighttime illumination levels for the natural pedestrian path around the water feature, and for appropriate site illumination levels within the residential portions of the project. If this deviation is not obtained, the residential portions of the project will exist with an unnatural and undesirably high lighting level during the nighttime hours, which will be detrimental to their occupants and leasing ability, which is not consistent with the City's Master Plan.



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18. Per Chapter 28 of the City Code, and per the Sign Design and Review Manual for Novi TC-1 District – Deviation is being requested for TC-1 project tenant signage size standards – number and project signage types and shapes and areas calculations based on dual-language signage as part of authentic Asian Village. **Project requires dual-language signage for authentic presentation of international tenants and clientele expectations.** Many tenants will have both front (facing ROW) and rear (primary) entrances. Per 28-5.c.1.a, an increase of 200% over standards is required to accomplish the dual language signage. Per 28-5.c.1.b, (2) signs of equal permitted size are requested for each typical retail/restaurant tenant, as well, as most tenants will have pedestrian entrances on 2 separate facades. Per 28-5.c.1.d, (2) signs of equal permitted size are requested for each project interior retail/restaurant tenant (not fronting public streets), consistent with other project lease space, and permitted sign area needs to be calculated as per 28-5.c.1.a. Per 28-5.c.2.b, Signage style and type, as well as materials and illumination standards shall not adhere to the Sign Design and Review Manual for Novi TC-1 District. TC-1 specific standards were developed, and still reference, a single development project undertaken 20+ years prior. 28-5.e.1.a, an increase of permitted projecting sign area to match primary signage area allotted up to 72sf maximum, 28-5.e.2.a, an increase to 45sf of total area. The deviation is essential to accommodate the needs of the international tenants intended to provide their signage in both the characters of their native language along with the English translation of their names. If this deviation is not obtained, creation of an authentically presented Asian Village will not be possible as envisioned by Novi, and as supported by the intent of the City's Master Plan.
19. Chapter 28-10 of the City Code, and per the Sign Design and Review Manual for Novi TC-1 District – Deviation is being requested for removing prohibition of 28-10.a.3 string lights, exposed luminaire strip lights or neon tubes along building edges or other locations, 28-10.a.4 animated signs. These elements, video display screens and/or animated LED lighting systems as part of public entertainment feature opportunity, are crucial to an authentic Asian environmental experience. Certain components are anticipated as part of Phase2 development. The deviation is sought to accommodate the needs of the international corporate community to drive their endorsement and future sponsorship opportunities as the project evolves into its future phase(s). If this deviation is not obtained, creation of an authentically presented Asian Village will not be possible.
20. Per Section 5.3.2 – Deviation is being requested for drive lane reduction in residential Phase1. See supplemental detail on Civil Sheet C-2.2. This deviation provides for sufficient traffic movement clearances to satisfy resident, service and emergency vehicle needs in the residential portions of the project, while enhancing the Mixed-Use vibrancy of the overall development. Sufficient clearance has been provided to lanes to accommodate emergency vehicle turning movements. If this deviation is not obtained, the residential portions of the project will have an inappropriate area allocated between units in the rear/service/alley space, which is not consistent with the City's Master Plan for developing density in this core district.
21. Per Section 3.27.1.C – Deviation is being requested for Phase 1 internal site buildings A and B that exceed permitted setback limit from Grand River Avenue, and for future proposed Phase 2 buildings with setback greater than 10' to 11 Mile Road. Phase 2 buildings will be accessed via internal drive lanes, similar to proposed residential layout for Phase 1. See P1.1. This deviation provides for the ability for any developer to generate density throughout a project of this land area in classification TC-1. If this deviation is not

obtained, the proposed development will not be able to provide the future density desired and envisioned as part of this particular development site, which is not consistent with the City's Master Plan.

22. Per Section 3.27.1.i – Deviation is being requested for 11 Mile Road 6' sidewalk width as proposed – see PRO plan. The deviation is essential to provide sufficient landscaping material for the roadway screening for the uses proposed, while maintaining the maximum permitted TC-1 setback limit, and for connecting the natural features of the project to the adjacent land features. If this deviation is not obtained, creation of a beautiful and appropriately landscaped pedestrian thoroughfare will not be possible as envisioned by Novi, and as supported by the intent of the City's Master Plan.
23. Per ordinance 18.283 section 5.5.3.A – Landscape Deviation is being requested for landscaping buffer shown. Proposed TC-1 zoning shall have a 6-8 ft ht berm or wall when adjacent to B3 zoning. Because the buffer area is only 12ft wide and the residents' living areas are on the 2nd & 3rd floors, we are proposing a continuous evergreen hedge to be maintained at 6' ht with densely planted deciduous canopy trees. A wall would serve no additional good purpose and the proposed plantings will provide a more aesthetic screen in keeping with the landscape design. If this deviation is not obtained, the proposed development will not be able to provide the future density desired and envisioned as part of this particular development site, which is not consistent with the City's Master Plan.
24. Buffer between commercial/residential parking lot and MF building 9 – deviation removed as both uses are permitted uses within proposed TC-1 zoning.
25. Per ordinance 18.283 section 5.5.3.A proposed TC-1 zoning shall have a 10-15ft ht berm planted to achieve 80% opacity in winter and 90% opacity in summer. Because the distance from the face of the residential units to the property line is less than 30 ft. and has the following conditions:
 - a. The current I-1 use operates during the day and there are no building openings on the east side facing the TC-1 residential to create noise.
 - b. The I-1 parcel is proposed to be rezoned to TC-1 as a part of this project.
 - c. The residential unit living areas are on the second and third floors.

We are proposing a continuous evergreen hedge to be placed and maintained at 5' ht with densely planted upright canopy trees. A wall would serve no good purpose and the proposed plantings will provide a more aesthetic screen in keeping with the landscape design. If this deviation is not obtained, the proposed development will not be able to provide the future density desired and envisioned as part of this particular development site, which is not consistent with the City's Master Plan.

26. Per ordinance 18.283 section 5.5.3.C – Parking Area Landscape Requirements - A Landscape Deviation is being requested for parking area landscaping. All parking area layouts have been re-designed to provide additional landscaping and have achieved a net gain of over 2,000 sf of additional interior green space. The size of the parking areas have been reduced so that we now provide the green space required for the parking area total sf on site. Our prior submission provided just over 50% of the requirement. We are requesting a deviation from providing additional landscape as in order to do so, we will have to reduce the large areas devoted to landscaping the west detention pond perimeter. The Town Center Area Study recommends the pond to be a focal point and that it could be used to host community events which we are providing. We believe this large and contiguous landscaped amenity provides a much greater

community benefit. If this deviation is not obtained, the proposed development will be required to provide even larger overall parking lot areas along Grand River Avenue, which is not consistent with the City's Master Plan.

27. Per ordinance 18.283 sections 5.5.3.D and 5.5.3.F - subdivision planting requirements – A Landscape Deviation is requested for foundation plantings and interior roadway canopy tree requirements in front of the building garages. We believe the area in front of the garages should be excluded similarly as driveways are excluded. In order to provide interior roadway canopy trees adjacent to the garages the residential layout would need to change to a more suburban layout which would undermine achieving the density conducive of the TC-1 zoning. The proposed landscape meets all other requirements and we believe the landscaping density of this compact TC-1 development far exceeds the typical amount of landscaping for multifamily developments. If this deviation is not obtained, the proposed development will not be able to provide the density desired and envisioned as part of this particular development site, which is not consistent with the City's Master Plan.
28. Ecco Tool will remain as a part of this overall development, though its remaining parcel will be rezoned to TC-1 as a part of this redevelopment initiative. Ecco Tool will then be a non-conforming use until their operations cease. **We require a deviation for this non-conforming use.** The existing parcel occupant will be provided their own separate legal parcel as a division of their existing landholdings within the tracts. This deviation provides for the relocation of an existing Novi retailer, consistent with the City's Master Plan, and allows for the creation of an environment more specifically tuned to the thematic Asian Village concept development that is being proposed. If this deviation is not obtained, the proposed development will not be able to provide the amenities and density desired and envisioned as part of this particular development site, which is not consistent with the City's Master Plan.

LIST OF PUBLIC BENEFITS

There are many standard and many unique public benefits to Sakura Novi.

1. **Public benefit:** Developers will dedicate the right-of-way and future right-of-way along 11 Mile Road and Grand River Avenue to the City of Novi.
2. **Public benefit:** Developers wish to grant an easement to the City of Novi in the South-East corner of the Sakura Novi site, abutting Grand River Avenue, for the City to fund/provide a "Welcome to Novi" sign. The 2016 Master Plan Update indicates a desire that the Anglin parcel be a gateway to Novi's Town Center. This signage is an opportunity to create a clear statement to this effect, and expand on the original Town Center Area Study's desire to communicate to drivers exclusively, by designing to communicate to all Novi visitors, becoming a pedestrian amenity as well. See C-2.1 for proposed City signage area.
3. **Public benefit.** This proposed neighborhood-scaled development, and necessary Zoning change, will update the suggested parcel zoning to be in line with the intent of the 2016 Master Plan, and permit creation of the desired mixed-use, pedestrian accessible commercial service and residential development being proposed.



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4. **Public benefit:** Space is being earmarked to accommodate structured parking in the Phase 2 development area, that could readily be utilized by a central parking agency or special assessment district in addition to and in coordination with the Developer's Phase 2 potential parking needs. This is a goal outlined as difficult to achieve in the Town Center Area Study.
5. **Public benefit:** Completing the redevelopment of the Anglin Parcel as a cohesive component of a walkable downtown. The Anglin parcel was cited in the 2016 Master Plan Update as one of the critical development opportunities in Novi, MI. A vision was created for a unique, well-designed, mixed-use facility different from anything else in Novi. Delivering a well-articulated plan that adheres to the vision outlined in the 2016 Master Plan is a public benefit.
6. **Public benefit:** Growing an important, existing Novi retailer, a stated objective of the 2016 Master Plan. One World Market, the well-regarded Japanese grocery market will build a new, large foot-print Asian Grocery-Market / Food Hall concept. True World Group, the largest distributor of fish to sushi restaurants in the United States, is investing in their market division through the expansion of their One World Market grocery store into a proto-type Asian Grocery Market / Food Hall. Historically, One World Market has served the large population of Japanese ex-patriots that cluster around Novi and work in the 270 Japanese auto companies and OEM suppliers arrayed from Novi to Ann Arbor. True World Group also operates Noble Fish in Clawson, widely regarded as offering the best sushi in Detroit; as well as the new White Wolf Japanese Patisserie.
7. **Public benefit:** Developer, with this proposed project, seeks to reinforce the overall vision as included in the 2014 Town Center Area Study:

Development of the Town Center Study Area will create a dynamic, attractive city core that provides residents and visitors with unique opportunities to participate in active community life and meet their needs for goods, services, housing, and entertainment.

Critically, Sakura Novi is a **unique** development; the first of its kind in Michigan and possibly the Midwest. The success of One World Market, and their desire to expand, indicates the strength in the area of the large Asian population and is a testament to Novi's diversity. The development of the One World Market Superstore enables the development of an Asian inspired development. The developer was brought into the process by One World Market, the City of Novi and Oakland County to execute on this concept on the City-owned Anglin parcel. This type of development, exemplified by Diamond Jamboree in Irvine, CA, is popular across the West Coast, South Coast and East Coast. Such facilities strengthen the intellectual capital of these regions by bringing critical lifestyle amenities to the highly educated knowledge workers necessary to compete in technology-intensive industries such as the mobility and automobile industries. Sakura Novi will provide metropolitan Detroit and the State of Michigan with such a lifestyle amenity.

8. **Public benefit:** Sakura Novi, with its unique collection of Market, restaurants and retail, is anticipated to be an economic engine downtown Novi; generating approximately 60 construction jobs, and 170 permanent jobs. While it is too early to share specifics, Robert B. Aikens & Associates LLC is widely regarded as one of the region's premier leasing firms and retail operators. Among other achievements, the team has curated the retail and restaurant collection at the Village of Rochester Hills since it was built in 2002. The residents of Rochester Hills benefit from the impact driven by businesses including Whole Foods Market, P.F. Chang's, Kruse & Muer, Mitchell's Fish Market, Bravo, Jagged Fork, Chipotle, Sephora,

Barnes & Noble, Lululemon Athletica, Pottery Barn, Williams-Sonoma, Evereve, Soft Surroundings, Woodhouse Day Spa, Toyology, and Banana Republic, among others.

9. **Public benefit:** The Residences at Sakura Novi will provide smaller footprint middle-market rate residential rental offerings in downtown. The proximity to office, restaurant and retail uses allows for alternative transportation options. The nearby Main Street Village project is a wait-listed residential community with a population that is approximately 60% Asian. The residents can walk to their Japanese Grocery Store, One World Market, and the families of ex-patriot professionals, whose language skills and driving skills might provide impediments to mobility, have found this feature to be an important draw. Uniquely, as the Japanese Grocery store migrates across Grand River Avenue onto a brand new Asian inspired campus, Sakura Novi is positioned to serve the residential needs of the large Asian community in Novi, as well as the many large corporations that sponsor many of these individuals and families.
10. **Public benefit:** Sakura Novi is anticipated to reinforce Novi's tax base beyond the project itself, as this project provides a unique opportunity to develop an important economic development engine. There are 270 Japanese, 55 Korean, and 50 Chinese automobile companies and OEM's around Novi. The development team seeks to create a platform that can foster partnerships amongst the City of Novi, cultural institutions and the corporate community. The development team is providing a beautiful softscape and hardscape environment for Sakura Novi; and is also developing a higher tier plan that upgrades the environment, through sponsorships and partnerships, with distinctly Asian amenities. For example, we are partnering with the STAMPS School of Art and Design at the University of Michigan and the Japan America Society to source a Japanese-themed illuminated applique that will be placed in a prominent location in a building over-looking Grand River Avenue. This is one example of the kinds of partnerships and applications that will benefit the public. Such work also seeks to facilitate deeper relationships between the City, regional institutions, and the corporate community, so as to open the opportunity for further economic development in Novi.
11. **Public benefit:** To provide a park-like environment around and including the forlorn pond on the Anglin parcel. Activation of the pond as a central community amenity as envisioned by the 2016 Master Plan Update. It is anticipated that the public at large would use the path areas around the water feature and throughout the site for pedestrian activity and commuting; access would not be limited to those that intend to visit specific tenants or uses of the development. The development team has invested heavily to ensure this feature's centrality. Soil conditions around the pond are weak, with pockets of peat and loose soils throughout the area. Developer plans call for a small building on the edge of the pond, despite extraordinary site work costs estimated at over \$1 mm. Without this building the pond might seem forlorn and abandoned. This building, along with landscaping and an engaging public walk, will activate the pond.
12. **Public benefit:** Fostering walkability and connectivity within an important corner at the heart of Novi's downtown. The "Sakura Novi" walking path will loop around the perimeter of the pond and proceed down a tree lined boulevard freckled with interesting stamped concrete patterns and several "pocket gardens" in key pedestrian locations, all connecting Grand River Avenue to the commercial development to a Commons at the center of the residential property.
13. **Public benefit:** Increase publicly accessible amenity quantities in downtown so as to energize areas beyond the Sakura Novi campus. We believe Sakura Novi can be a public-facing, walkable node, and that



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this node can potentially serve to energize other areas in the Town Center core. On the South-West corner, Sakura Novi connects naturally to the sleepy Main Street development. As described, Sakura Novi creates a walkable environment internally featuring the Sakura Novi path that wraps the pond in the commercial development and proceeds through the residential district to the East. There is then an opportunity to create walkable connectivity to the City-owned lake to the East of the site; around a pastoral path to The Residences at Sakura Novi, East; thus integrating the Town Center district into a newly designed North-Eastern quadrant in anticipation of the long-anticipated completion of the Novi ring road – the Crescent Boulevard Eastern extension. None of these opportunities are activated without Sakura Novi.

14. **Public benefit:** Sakura Novi's design features, described in Architects' Design Statements, will set it apart and will help set Novi apart from other communities in Oakland County. The development team has strived for an authentic design within the context of Novi's historic ordinances. The team has aimed, to the best of its abilities, to create a bold, yet refined, aesthetic reminiscent of upscale shopping, dining and entertainment districts one may find today in places such as Osaka, Seoul, and Hong Kong.. We believe this distinctive style will reflect well on the diversity that has evolved organically over time in Novi, precipitated, in fact, by the extraordinary success of establishments including One World Market and the Sundai Michigan International Academy.
15. **Public benefit:** The existing TC-1 Sign Design and Review Manual is an outdated and restrictive document when considered with the existing signage ordinance. This document has arguably hindered leasing activity and desirability in current TC-1 zoned developments. Sakura Novi is pursuing a distinctive signage-criteria that will create a public benefit benchmark. The signage criteria will allow larger signs than per ordinance and allow for different materials, lighting, etc. than are permitted in the antiquated and inauthentic TC-1 package. The signage is meant to accommodate the needs of exciting restaurant and retail uses that will bring authenticity and substance to Sakura Novi's contemporary, cool environment. The signage is meant to enable Sakura Novi to utilize both English and Asian characters for the retail or restaurant uses, and still be legible given the speed of vehicular traffic along Grand River Avenue. The signage package is also meant to underscore that Sakura Novi is a cohesive, singular concept, a regional destination, and so help the development team to assemble in Novi an international blend of new and fresh merchant offerings.

LIST OF PROSPECTIVE PRO AGREEMENT CONDITIONS

Developer has started to draft a list of possible conditions, which will continue to evolve as the approval process continues:

1. Developer shall develop the Land in accordance with all applicable laws, ordinances, and regulations, including all applicable setback requirements of the Zoning Ordinance under the Proposed Classification, except as expressly authorized herein, and all storm water and soil erosion requirements and measures throughout the site during the design and construction phases of the Development, and during the subsequent use of the Land as contemplated in this Agreement.
2. The grass-land pads shown on the landscape plans shall be properly maintained as grass-land pads until such time that area is needed for Phase 2 uses to be developed.



3. The maximum number of dwellings to be constructed in Phase 1 shall be 68.
4. Phase 1 non-residential uses shall be limited to a 30,000 sf market; and restaurants and retail space totaling approximately 25,000 sf as shown on the PRO Concept Plan.
5. Woodland Tree Removals during phase 1 shall be approximately 101 trees, which shall require 197 replacement credits. Developer will plant a minimum of 82.5 credits on site. If mandated, all woodland replacement trees shall be permanently protected via a conservation easement or landscape easement. The remaining 114.5 credits not planted on-site will require a payment of \$400 per credit to the City of Novi Tree Fund. Language governing Phase 2 uses to be included within PRO Agreement terms.
6. Proposed parking is being provided as per Parking Study recommendation. Future phase parking requirements will also be a function of shared parking analysis.
7. Tentative completion dates have been added to the Project Narrative, and submitted as part of the PRO package.
8. WETLANDS: Impacts to the wetland and wetland buffer areas have been indicated and quantified and submitted as part of the PRO package. Specific remedies to be included in the PRO Agreement Conditions.
9. Deviations language and formatting has been modified to reflect the City's directive. The updated list has been submitted as part of the Narrative in the PRO package. All accepted deviations are to be included in PRO Agreement Conditions.
10. Future Phases beyond Phase 1 will require an optional deviation for Open Space standards to achieve maximum density – see Deviation request #9.
11. The adjacent non-conforming Light Industrial use owned by Ecco Tool Co is to be addressed in the PRO Agreement conditions. The PRO Agreement Conditions will include the company's access for delivery trucks on the retained parcel; which will require cross access rights. The PRO will provide the Ecco Tool Co retained parcel with 12 parking spaces on the retained parcel or access to parking spaces on the non-retained property or on the Anglin property to make up any shortfall.

CONSULTANTS

The outside consultants involved with the project are as follows:

Engineering Consultant:

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Robert B. Aikens
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Architecture Consultants:

Matt Niles, Wah Yee Associates (Commercial)
42400 Grand River Avenue, #200, Novi, MI 48375
248-489-9160

Brian Neeper, Brian Neeper Architecture P.C. (Residential)
630 North Old Woodward, Suite 203
248-259-1784

Landscape Consultant:

Sue Grissim, Grissim Metz Andriese Associates
300 E Cady St, Northville, MI 48167
248-347-7010, Ext 222

Traffic Consultant:

Timothy Likens, Bergmann
7050 West Saginaw Hwy, Suite 200, Lansing, MI, 48917
517-827-8693

Wetland Consultant:

Don Berninger, Atwell, LLC
311 North Main, Ann Arbor, MI 48104
734-994-4000

Sakura Novi, LLC is pleased to present this concept plan for PRO consideration by the City. We believe the development will ultimately become a point of pride for responsible development at the heart of a robust downtown Novi.

Please let me know if any additional information is required at this time.

Thank you.

Respectfully,

G. Scott Aikens, Ph.D.

COMMUNITY IMPACT STATEMENT

Sakura Way Community Impact Statement

1. Expected annual number of police/ fire responses for the proposed development (can be based on statistics from similar developments);

ANTICIPATED DEMANDS ON POLICE DEPARTMENT SERVICES

Based on the Police records for the year 2013 and the SEMCOG population estimate for the City of Novi for 2013 of 59,395 persons, the per capita response was one Police Department response for every 2.63 persons.

Commercial estimates provided by the City of Novi based on most recent year for similar size/type/zoned property on adjacent parcel.

For Phase 1 residential, based on an expected residential population of **170** persons (2.5 persons per household), it is estimated that **65** annual Police Department calls would be made from the residential project.

For Phase 1 commercial, based on the estimated proposed development uses and area, it is estimated that **62** annual Police Department calls would be made from the commercial project.

For Phase 2 total residential, based on an expected additional residential population of **120** persons (2.5 persons per household), it is estimated that **111** annual Police Department calls would be made from the residential project.

For Phase 2 total commercial, based on the estimated proposed development uses and area, it is estimated that **186** annual Police Department calls would be made from the commercial project.

ANTICIPATED DEMANDS ON FIRE DEPARTMENT SERVICES

After deducting a 30-percent factor for commercial, industrial, and office uses, the per capita response for the City of Novi during the year 2013, was 102.3 persons per Fire Department run.

Commercial estimates provided by the City of Novi based on most recent year for similar size/type/zoned property on adjacent parcel.

For Phase 1 residential, based on the estimated proposed development population of **170** persons, the total projected annual Fire Department responses is **2**.



For Phase 1 commercial, based on the estimated proposed development uses and area, the total projected annual commercial Fire Department responses is **19**.

For Phase 2 total residential, based on an expected additional residential population of **120** persons, the total projected annual Fire Department responses is **3**.

For Phase 2 total commercial, based on the estimated proposed development uses and area, the total projected annual commercial Fire Department responses is **57**.

The project is located near Fire Station No. 1 at 42975 Grand River Avenue. Due to the proximity of the fire station, response time is expected to be only a few minutes.

2. Anticipated number of employees (include both permanent and construction jobs on site);

Approximately 60 construction jobs will be generated during Phase 1, lasting approximately 18 months. Approximately 60 construction jobs will be generated during Phase 2, lasting approximately 24 months.

Phase 1 of the commercial development will generate approximately 170 permanent jobs, and more temporary jobs. The residential development will generate approximately 2 permanent jobs. The number of permanent jobs generated by Phase 2 will range widely depending on whether uses are primarily residential or labor-intensive commercial uses.

3. Statement regarding compliance with City Performance Standards (Section 2519 of the Zoning Ordinance);

Robert B. Aikens & Associates, LLC and Robertson Brothers Homes will meet or exceed all building code requirements relating to performance standards.

4. Estimated number of sewer and water taps and information on peak hour demand and min/max operating pressures for water system;

The estimated number of sewer taps is 16 and the estimated number of water taps is 20 (separate water / fire taps for commercial buildings). Peak hour demand for sewer = 0.69 cfs. Peak hour demand for water = 357,000 gallons per day. At this stage of the process, we do not have an estimate for min/max operating pressures for water system.

5. Relationship of the proposed development with surrounding uses;

Neighboring uses surrounding Sakura Way in the Town Center Area include the Novi Town Center green space on the western border of the site; the Hotel / Office District North of the site; the Ecco Tool Co machine shop, to be rezoned under the PRO and excepted as a non-conforming use, on the Northern border of the site abutting 11 Mile; a City owned wetland to the East of the site; commercial uses to the South of the site and abutting Grand River Avenue to the North including an Auto-Zone, an office building, and an commercial building; and a retail / office TC-1 development across Grand River Avenue to the South.

6. Description of proposed land use;

Sakura Novi, LLC is proposing during Phase 1 to include a 25,000 sf grocery store / food hall, 20,000 sf of restaurants and non-restaurant retail, and 68 townhome apartment units. In addition to the physical development, a water feature will be programmed surrounded by a walking path, gardens and Sakura trees, a public common area on the residential parcel, and a wetland area will be preserved on the eastern edge of the site.

7. Description of the environmental factors and impacts addressing the following:

- a. Natural features on the site (e.g., unusual topography, habitat areas, wetlands, woodlands, historic trees, etc.).
 - i. There is an unused, unmaintained pond that has developed wetland elements on the Western portion of the site. A prior owner of the Anglin parcel actively moved dirt around the site over many years resulting in a variety of materials and unsuitable soils across the site. There is a Wetland on the Eastern border of the site, abutting a city-owned and created storm retention wetland. There is a moderate grade change from the Western edge of the Anglin parcel down to the Eastern edge of the site, and a moderate decreasing grade change across the Anglin parcel from north to south.
- b. Temporary and permanent impacts to natural features on the site;
 - i. The pond on the Western portion of the site will be maintained, will have its perimeter articulated and upgraded as a site amenity, and will be utilized for partial site storm detention with pre-treatment. A detention basin will be developed on the eastern limits of the site being developed, as storm surge storage with pre-treatment prior to release into the city common retention pond/wetland on the Eastern edge of the site. The development will mitigate a portion of the wetland on the Eastern edge of the site, but preserve a portion as permanent wetland preserve.

- c. Manufacture, use or storage of any hazardous or toxic materials on the site including Environmental Protection Agency requirements and the need for a Pollution Incidence Prevention Plan (PIPP);
 - i. Not required due to use.
- d. Location, type, depth and contents of any existing or proposed underground storage tanks.
 - i. One existing underground septic system will be removed, and that system user will be connected to city sewer. Otherwise, no underground storage tanks will be required due to use.
- e. Environmental use and/or contamination history of the site (i.e., groundwater contamination, landfill, chemical spills, etc.);
 - i. A Phase I for the site and a prior Phase 2 ESA for the Anglin parcel indicated that the pond is a facility and will require environmental remediation. Brownfield tax credits are a condition to close on the sale of the Anglin parcel as per the Provisional Purchase Agreement between the City of Novi and Sakura Novi, LLC. The Phase 1 and prior Phase 2 ESA indicated no further major recognized environmental conditions, with the exception of potential pesticides from historic orchards and the potential environmental impact of an underground septic tank that has historically served Ecco Tool Co. A Phase II ESA report is currently being prepared to further understand environmental impact of the septic tank. Results of this study show that there are no new issues.
- f. Potential impacts to existing wildlife on site
 - i. Any impact on existing wildlife will be temporary.

8. Description of the social impacts addressing the following:

- a. Replacement or relocation of any existing uses or occupants on the site;
 - i. Currently, the site is being used as storage for city seasonal equipment
- b. Traffic impacts (information can come from any required Traffic Impact Study or statistics from other similar developments when a study is not required);
 - i. A Traffic Impact Study is provided.



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- c. Proposed site amenities (i.e., sidewalks, public parks, bicycle paths, etc.);
 - i. The pond on the West-side of the property will be programmed as a garden-like green-way and will be designed with accessible pathways connecting the existing Main Street development and surrounding pedestrian traffic with the improved parcels to the north of 11Mile and all uses within the proposed development. Accessible walks will be provided, as well as bike parking and open space hardscape amenities.
- d. Increases in the permanent population of the City as a result of the proposed development (specific number should be identified and statistics from similar developments can be used).
 - i. The commercial development will cause negligible change. Similar residential developments have indicated that approximately 2.5 new residents can be expected from each townhome, respectively, as a result of the development.

WETLAND DELINEATION LETTER



ONE COMPANY.
INFINITE SOLUTIONS.

November 16, 2018

Mr. Scott Aikens
R.B. Aikens & Associates, LLC
350 N. Old Woodward, Ste. 300
Birmingham, MI 48009

Atwell, LLC Project No. 18003457

**Re: Wetland Delineation Letter
Sakura Way
City of Novi, Oakland County, Michigan**

Mr. Aikens:

R.B. Aikens & Associates, LLC (Client) contracted Atwell, LLC (Atwell) to conduct a wetland delineation for an approximately 16.8-acre area in Sections 14 and 23 of Novi Township (Township 01 North, Range 08 East), Oakland County, Michigan (hereinafter referred to as "Site") to support a proposed development project. The Site is located in a highly developed area on the eastern side of Town Center Drive, between 11 Mile Road and Grand River Ave. Directly east of the Site is a pond, wooded areas, and commercial buildings. The Site itself is diverse, containing a residential home, commercial buildings, a gravel service road, maintained lawn, grassy areas, a wooded hedgerow, a woodlot, wetlands, and a pond. Refer to the enclosed *Site Location Map*.

The purpose of the wetland determination and delineation was to determine if wetlands, watercourses, and/or bodies of water are present on the Site and, if found, to establish whether they fall under the jurisdiction of the Michigan Department of Environmental Quality (MDEQ) by Part 303, Wetlands Protection; Part 301, Inland Lakes and Streams; or Part 31, Water Resources Protection, of the *Natural Resources and Environmental Protection Act, 1994 PA 451* (NREPA), as amended; and/or local ordinances.

The City of Novi (city) also regulates wetlands and watercourses under Chapter 12, Article V – Wetlands and Watercourse Protection, of the Novi Code of Ordinances. The City of Novi regulates wetlands that are: 1) contiguous to a lake, pond, river or stream; 2) two (2) acres in size or larger; and/or 3) less than two (2) acres in size but deemed essential to the preservation of the natural resources of the city under the criteria set forth in subsection 12-174(b). Subsection 12-174(b) states that all noncontiguous wetland areas of less than two (2) acres which appear on the City's wetlands inventory map, or are otherwise identified during a field inspection by the City, shall be analyzed for the purpose of determining whether such areas are essential to the preservation of the natural resources of the City (City of Novi 2015b). Additionally, the City of Novi requires a setback of twenty-five (25) feet from the boundary of a wetland and twenty-five (25) feet from the ordinary high water mark of a watercourse (City of Novi 2015a).

In addition, Atwell reviewed the following data for any ecological and environmental constraints: aerial photography, U.S. Geological Survey (USGS) 7.5-Minute Topographic Maps, U.S. Fish and Wildlife Service (USFWS) National Wetland Inventory (NWI) Maps, Flood Insurance Rate Maps (FIRMs) provided by the Federal Emergency Management Agency (FEMA), and soil data from the Natural Resources Conservation Service (NRCS). A review of the wetland delineation site visit conducted on October 24, 2018 is summarized below.

Site Setting and Characteristics

A review of aerial photography and a site visit were conducted to characterize the Site and surrounding area. The surrounding landscape is highly developed, consisting of a mix of residential and commercial development, ponds, wetlands, and isolated forested areas. The Site itself is diverse, containing a residential home, commercial buildings, a gravel service road, maintained lawn, grassy areas, a wooded hedgerow, a woodlot, wetlands, and a pond. The western portion of the Site is primarily maintained lawn with grassy areas. It is currently being used by the City of Novi Field Operations Division to store equipment and vehicles. Within the western portion of the Site also exists an abandoned car wash, a commercial building, and a residential home. The eastern portion of the Site is primarily wooded with another commercial building. Common trees in the eastern portion of the Site include silver maple (*Acer saccharinum*), eastern cottonwood (*Populus deltoides*), American elm (*Ulmus americana*), box elder maple (*Acer negundo*), black locust (*Robinia pseudoacacia*), and common buckthorn (*Rhamnus cathartica*). Brush hogging activities had recently been performed within the woodlot before the site visit. Shrubby or herbaceous plants found on-site include common buckthorn, Eurasian honeysuckle (*Lonicera spp.*), heath aster (*Symphyotrichum ericoides*), frost aster (*Symphyotrichum pilosum*), Canada goldenrod (*Solidago altissima*), giant goldenrod (*Solidago gigantea*), chickory (*Cichorium intybus*), red clover (*Trifolium pratense*), Fuller's teasel (*Dipsacus fullonum*), and common reed (*Phragmites australis*). The Site is relatively flat, but gradually decreases in elevation from west to east. The highest point within the Site is in the northwest corner.

Wetland Delineation

The wetland delineation was performed in accordance with the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (Version 2.0)* (USACE 2012). The delineation of any wetland depends on three basic parameters. These parameters are: 1) the presence of hydrophytic vegetation (plants adapted to living in saturated soils), 2) hydric soils (distinctive soil types that develop under saturated conditions), and 3) wetland hydrology (the presence of water at or near the surface for a specific period of time). The above parameters are virtually always inter-related and present in wetland systems.

In Michigan, wetlands are regulated by the MDEQ under Part 303, Wetlands Protection, of the NREPA. A wetland is considered regulated by the MDEQ if it is five (5) acres in size or larger, and/or if it is connected to or located within 500 feet of a lake, pond, river, or stream. Watercourses are regulated by the MDEQ under Part 301, Inland Lake or Streams, of the NREPA, if the body of water contains definite banks, a bed, and visible evidence of continued flow or continued occurrence of water.

Atwell conducted a wetland determination and delineation for the Site on October 24, 2018 and identified four (4) wetlands (Wetlands 1-4) on the Site, totaling approximately 2.81 acres. Atwell did not identify any watercourses on the Site. Please refer to the enclosed *Wetland Location Map* for

information and locations of the on-site wetlands or pond. Refer to the *Photographic Log* and *Wetland Data Forms* for site conditions and physical characteristics.

Pond 1 is an open water feature located in the western portion of the Site. The water is clear and submersed aquatic vegetation is visible from shore. It appears the average depth throughout the limnetic zone (open water) is greater than five (5) feet. The surface acreage of the pond is greater than 1 acre; therefore Pond 1 is likely regulated by the MDEQ and the City of Novi.

Wetlands 1 is a small isolated Palustrine Emergent (PEM) wetland located in a depression of the grassy area within the northwest portion of the Site. Hydrological indicators include algal mats and geomorphic position. Wetland vegetation includes grass-leaved goldenrod (*Euthamia graminifolia*; FACW), yellow nutsedge (*Cyperus esculentus*; FACW), reed canary grass (*Phalaris arundinacea*; FACW), and sandbar willow (*Salix interior*; FACW) saplings. These species have a wetland indicator status of facultative wetland (FACW) indicating that they typically occur in wetlands under natural conditions. Wetland 1 likely receives water from precipitation and on-site runoff, resulting in a seasonally saturated water regime. Wetland 1 is isolated and less than 5 acres in size; therefore Wetland 1 is likely non-regulated by the MDEQ and potentially regulated by the City of Novi.

Wetland 2 is a PEM wetland containing an open water area, located in the western portion of the Site. Hydrological indicators include saturated soils and geomorphic position. Wetland vegetation includes common cattail (*Typha latifolia*; OBL), narrow leaf cattail (*Typha angustifolia*; OBL), and common reed (FACW). These species have a wetland indicator status of FACW or obligate (OBL), indicating that they typically occur in wetlands or almost always occur in wetlands under natural conditions. Wetland 2 likely receives water from precipitation, on-site runoff, and overflow from the open water area, resulting in a permanently saturated to seasonally inundated water regime. Wetland 2 is isolated and less than 5 acres in size; therefore Wetland 2 is likely non-regulated by the MDEQ and potentially regulated by the City of Novi.

Wetland 3 is a small PEM wetland within a constructed ditch in the southwest corner of the Site. The ditch is adjacent, but not contiguous with the on-site pond. Hydrological indicators include surface water up to approximately six (6) inches and geomorphic position. Wetland vegetation is exclusively common reed. Wetland 3 likely receives water from precipitation and on-site runoff, resulting in a permanently saturated to seasonally inundated water regime. The on-site pond observed to the northeast is located less than 500 feet from Wetland 3 is isolated and less than 5 acres in size; therefore Wetland 3 is likely non-regulated by the MDEQ and potentially regulated by the City of Novi.

Wetlands 4 is a large PEM/Palustrine Scrub-Shrub (PSS) wetland located in the eastern portion of the Site. This wetland extends off-site and is contiguous with another off-site pond. Hydrological indicators include saturated soils, surface water up to approximately three (3) inches, algal mats, and geomorphic position. Wetland scrub-shrub vegetation includes common buckthorn (FAC) and silky dogwood (*Cornus amomum*; FACW). Common herbaceous vegetation includes common cattail, sensitive fern (*Onoclea sensibilis*; FACW), grass-leaved goldenrod, purple loosestrife (*Lythrum salicaria*; OBL), and fringed willow herb (*Epilobium ciliatum*; FACW). These species have a wetland indicator status ranging from facultative (FAC) to OBL indicating that they are either equally likely to occur in wetlands or non-wetlands, usually occur in wetlands, or almost always occur in wetlands under natural conditions. Wetland 4 likely receives water from precipitation, on-site runoff, and overflow from the off-site pond, resulting in a

permanently saturated to seasonally inundated water regime. Wetland 4 is contiguous with the off-site pond; therefore Wetland 4 is likely regulated by the MDEQ and the City of Novi.

According to the U.S. Department of Agriculture (USDA) NRCS Web Soil Survey, the soils contained within the Site have been mapped as Marlette sandy loam, 1 to 6 percent slopes (10B) and Capac sandy loam, 0 to 4 percent slopes (11B), both of which are considered hydric soils. The entire Site is classified as having hydric soils. Hydric soils are conducive to the growth and regeneration of hydrophytic vegetation by their ability to hold water for extended periods of time (USDA-NRCS 2010).

FEMA FIRMs were reviewed to determine if portions of the Site are mapped as floodplains, floodways, or other flood prone areas. These maps record the following data: 100-year (1% chance of annual flooding) and 500-year (0.2% annual chance of flooding) floodplains, the height of the base flood elevation, and the risk to premium areas developed across a floodplain. FEMA FIRM number 26125C0627F revealed that the Site does not contain a mapped 100-year floodplain. Atwell did not identify any watercourses on the Site. Therefore, it is Atwell's professional opinion that the Site likely does not contain state regulated floodplains under Part 31 of NREPA.

Conclusions and Recommendations

In conclusion, based on the desktop review of online databases and a site visit, the Site contains four (4) wetlands (Wetlands 1-4) and no watercourses. It is Atwell's professional opinion that one (1) of the delineated wetlands (Wetland 4) within the Site appear to meet the requirements of Part 303, Wetlands Protection, of NREPA. Therefore, Wetland 4 should be considered regulated by the MDEQ. Additionally, all four (4) wetlands are likely considered regulated by the City of Novi. FEMA FIRM number 26125C0627F revealed there are no mapped 100-year floodplains on the Site. Atwell did not identify any watercourses on the Site. Therefore, it is Atwell's professional opinion that the Site likely does not contain state regulated floodplain under Part 31 of NREPA.

A permit is required by the MDEQ for any proposed work (e.g., filling, dredging, construction, draining, and/or other development) that takes place within the boundaries of a regulated wetland, watercourse, or floodplain. Although most construction activities that take place outside of these boundaries do not require a permit from the MDEQ, the MDEQ has the final authority on the extent of regulated wetlands, lakes, streams, ponds, and floodplains in the State of Michigan. Additionally, a wetland use permit from the City of Novi is required for any work (e.g., filling, dredging, structures, construction, etc.) within a wetland or watercourse that is considered regulated by the City of Novi. Additionally, the City of Novi requires a setback of twenty-five (25) feet from the boundary of a wetland and twenty-five (25) feet from the ordinary high water mark of a watercourse (City of Novi 2015a).

We appreciate the opportunity to be of service to you on this project. Should you have any questions, please contact us at (248) 447-2000.

Mr. Scott Aikens
November 16, 2018
Page 5 of 6

Sincerely,

ATWELL, LLC

A handwritten signature in blue ink, appearing to read "Ernest Schenk".

Ernest Schenk
Environmental Technician
Environmental Services Group

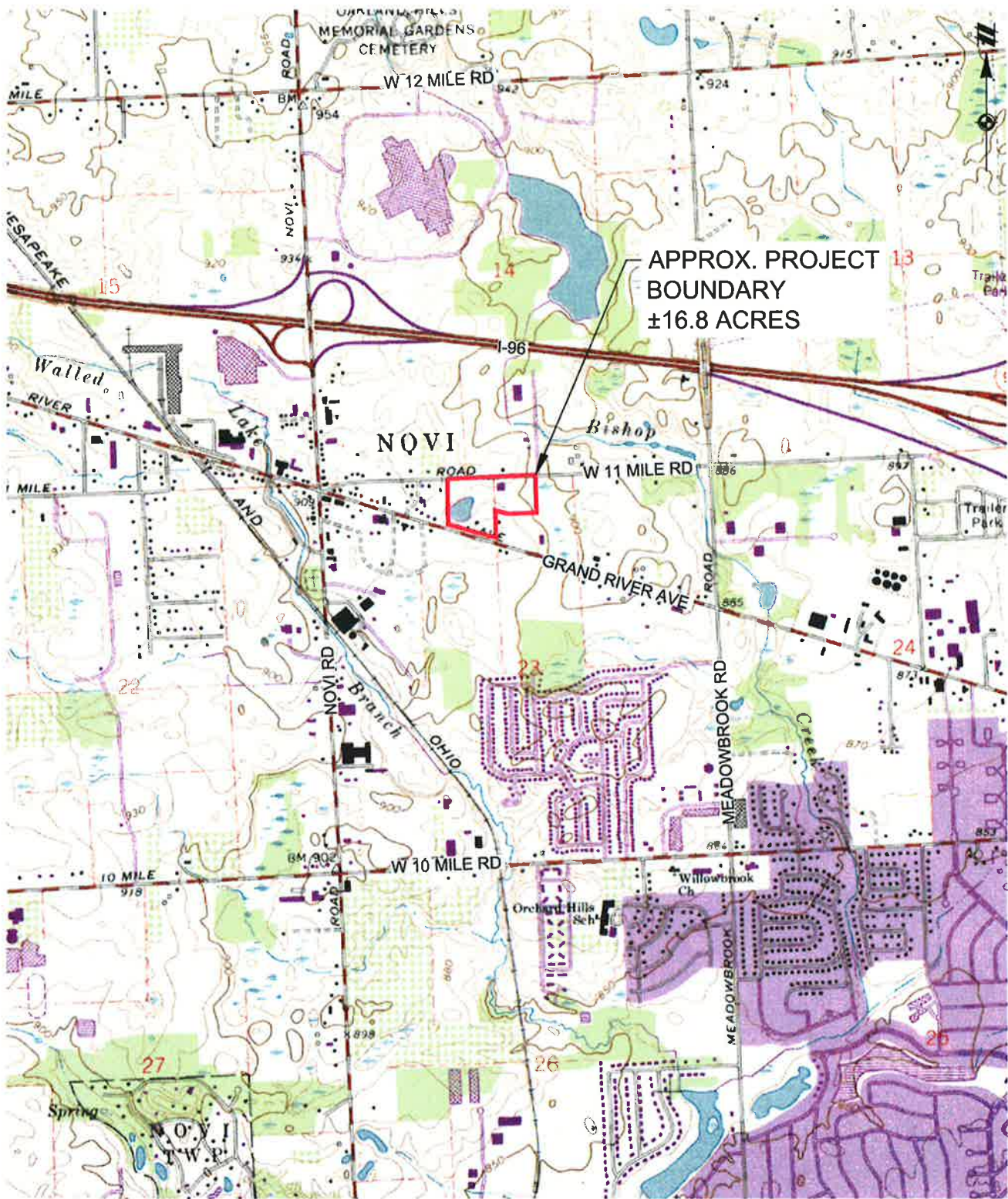
A handwritten signature in blue ink, appearing to read "Don Berninger".

Don Berninger
Team Leader
Environmental Services Group

Enclosures: Site Location Map
 Wetland Location Map
 Photographic Log
 Wetland Data Forms

REFERENCES

- City of Novi. 2015a. *City of Novi Zoning Ordinance*. <http://www.cityofnovi.org/City-Services/Community-Development/Codes,-Ordinances-and-Master-Plan/ZoningOrdinance.aspx>.
- . 2015b. *City of Novi Code of Ordinances*.
https://www.municode.com/library/mi/novi/codes/code_of_ordinances.
- USACE. 2012. "Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (Version 2.0)." ERDC/ EL TR-12-1. U.S. Army Engineer Research and Development Center.
http://www.usace.army.mil/missions/civilworks/regulatoryprogramandpermits/reg_supp.aspx.
- USDA-NRCS. 2010. "Field Indicators of Hydric Soils in the United States (Version 7.0)."
http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/stelprdb1046970.pdf.



APPROX. PROJECT
BOUNDARY
±16.8 ACRES

LEGEND

APPROX. PROJECT BOUNDARY (±16.8 AC)



SAKURA WAY
SITE LOCATION MAP

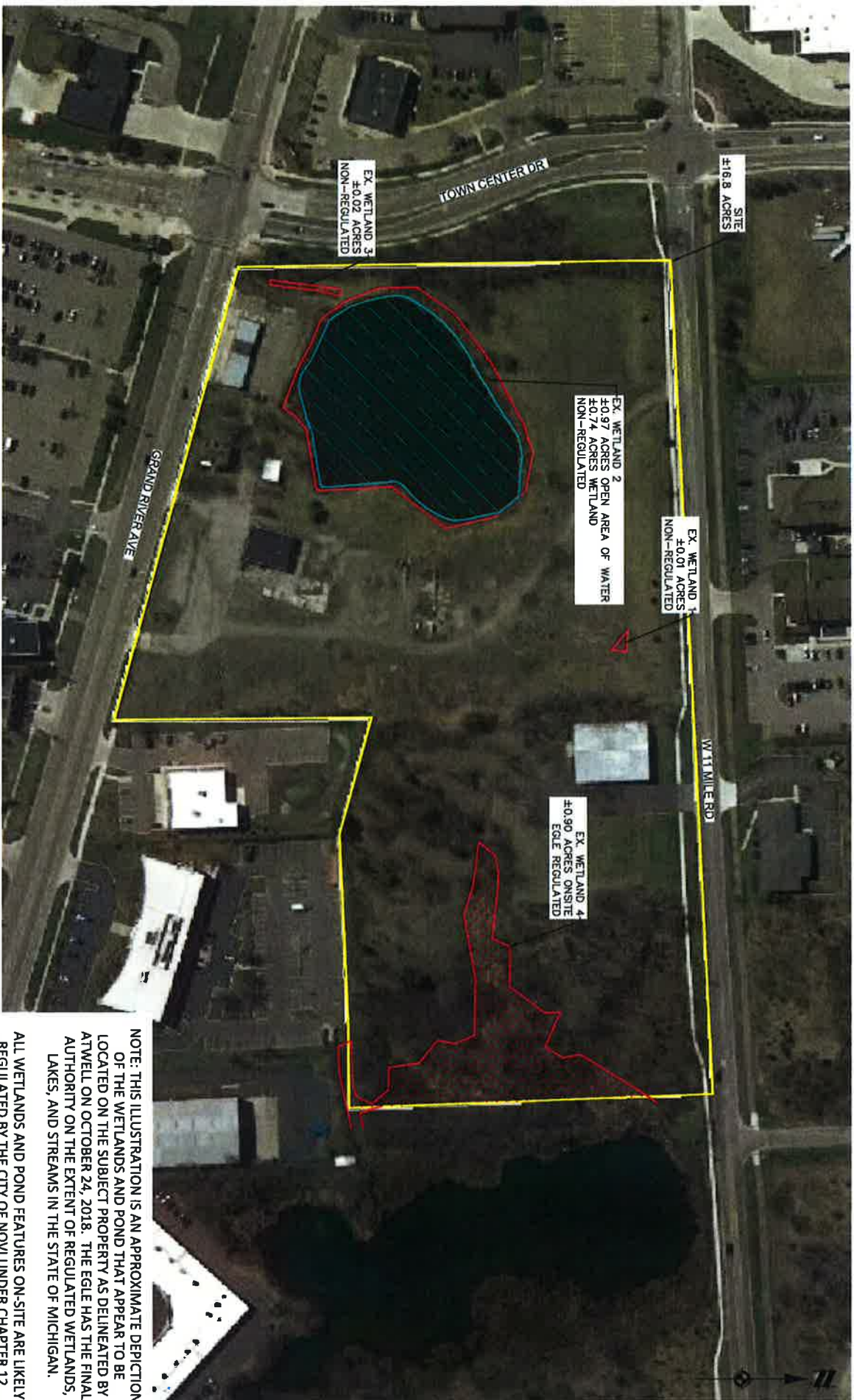
SECTIONS: 14, 23
TOWN/RANGE: T01N, R08E

TWP: NOVI
COUNTY: OAKLAND

SCALE 0 1000 2000
1" = 2000 FEET

JOB: 18003457
DATE: OCTOBER 31, 2018

SHEET NO.
01



LEGEND

- SITE (±16.8 ACRES)
- EXISTING WETLAND
- OPEN WATER AREA



WETLAND LOCATION MAP			SCALE 0 100 200	
SECTIONS: 14, 23	CITY OF NOVI	JOB: 18003457	1" = 200 FEET	
TOWN/RANGE: 101N, ROBE	COUNTY: OAKLAND	DATE: NOVEMBER 16, 2018		
			SHEET NO. 01	

NOTE: THIS ILLUSTRATION IS AN APPROXIMATE DEPICTION OF THE WETLANDS AND POND THAT APPEAR TO BE LOCATED ON THE SUBJECT PROPERTY AS DELINEATED BY ATWELL ON OCTOBER 24, 2018. THE EGLE HAS THE FINAL AUTHORITY ON THE EXTENT OF REGULATED WETLANDS, LAKES, AND STREAMS IN THE STATE OF MICHIGAN.

ALL WETLANDS AND POND FEATURES ON-SITE ARE LIKELY REGULATED BY THE CITY OF NOVI UNDER CHAPTER 12, ARTICLE V - WETLANDS AND WATERCOURSE PROTECTION, OF THE NOVI CODE OF ORDINANCES

PHOTOGRAPHIC LOG


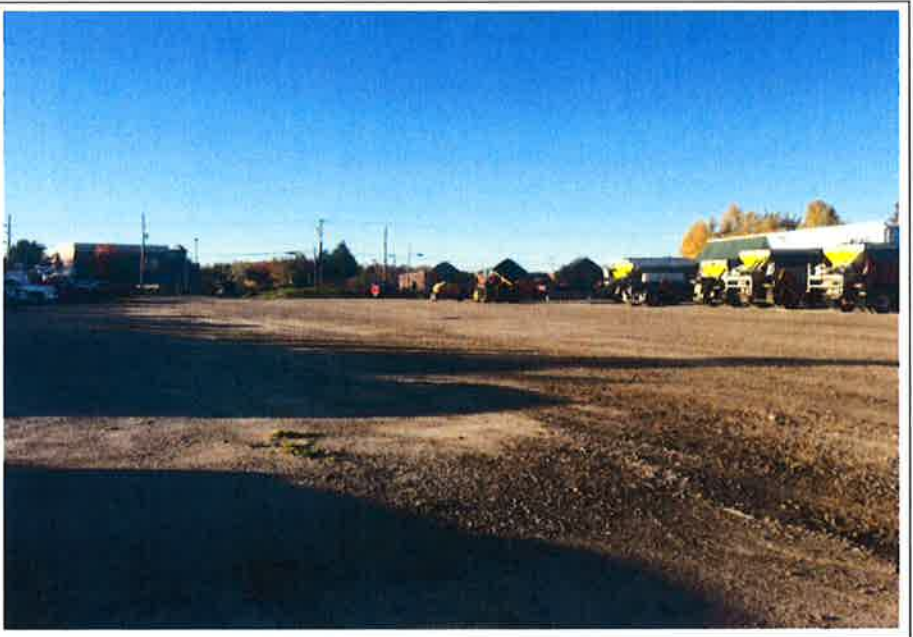
Photo # 1	
Date: 10/24/2018	
Feature: Grassy Area	
Direction: North	
Description: A grassy area within the northwest portion of the Site.	

Photo # 2	
Date: 10/24/2018	
Feature: Gravel Access Road	
Direction: South	
Description: A representative photo of the gravel access road that traverses the western portion of the Site.	

PHOTOGRAPHIC LOG



Photo # 3	
Date: 10/24/2018	
Feature: Abandoned Car Wash	
Direction: South	
Description: One of the four existing buildings within the Site.	

Photo # 4	
Date: 10/24/2018	
Feature: Woodlot	
Direction: East	
Description: A representative photo of the upland woodlot within the eastern portion of the Site.	

PHOTOGRAPHIC LOG



Photo # 5	
Date: 10/24/2018	
Feature: Wetland 1	
Direction: West	
Description: Wetland 1, a small emergent wetland within the northwest portion of the Site.	

Photo # 6	
Date: 10/24/2018	
Feature: Wetland 2	
Direction: West	
Description: Wetland 2, an emergent wetland fringe surrounding Pond 1 within in the western portion of the Site.	

PHOTOGRAPHIC LOG

Photo # 7	
Date: 10/24/2018	
Feature: Wetland 3	
Direction: North	
Description: Wetland 3, an emergent wetland within a constructed ditch in the southwestern corner of the Site.	

Photo # 8	
Date: 10/24/2018	
Feature: Wetland 4	
Direction: South	
Description: Wetland 4, an emergent/scrub-shrub wetland within the eastern portion of the Site.	

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Sakura Way City/County: Novi, Oakland Sampling Date: 10/24/2018
 Applicant/Owner: Aikens State: MI Sampling Point: WL1
 Investigator(s): E. Schenk, Atwell LLC Section, Township, Range: 23, 1N, 8E
 Landform (hillside, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope %: 0-2
 Subregion (LRR or MLRA): LRR K Lat: 42°28'51.54"N Long: 83°28'1.39"W Datum: WGS84
 Soil Map Unit Name: Marlette sandy loam, 1 to 6 percent slopes NWI classification: PEM
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u>Wetland 1</u>
Hydric Soil Present? Yes <u>X</u> No <u> </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <u> </u> Surface Water (A1) <u> </u> Water-Stained Leaves (B9) <u> </u> High Water Table (A2) <u> </u> Aquatic Fauna (B13) <u> </u> Saturation (A3) <u> </u> Marl Deposits (B15) <u> </u> Water Marks (B1) <u> </u> Hydrogen Sulfide Odor (C1) <u> </u> Sediment Deposits (B2) <u> </u> Oxidized Rhizospheres on Living Roots (C3) <u> </u> Drift Deposits (B3) <u> </u> Presence of Reduced Iron (C4) <u>X</u> Algal Mat or Crust (B4) <u> </u> Recent Iron Reduction in Tilled Soils (C6) <u> </u> Iron Deposits (B5) <u> </u> Thin Muck Surface (C7) <u> </u> Inundation Visible on Aerial Imagery (B7) <u> </u> Other (Explain in Remarks) <u> </u> Sparsely Vegetated Concave Surface (B8)		<u>Secondary Indicators (minimum of two required)</u> <u> </u> Surface Soil Cracks (B6) <u> </u> Drainage Patterns (B10) <u> </u> Moss Trim Lines (B16) <u> </u> Dry-Season Water Table (C2) <u> </u> Crayfish Burrows (C8) <u> </u> Saturation Visible on Aerial Imagery (C9) <u> </u> Stunted or Stressed Plants (D1) <u>X</u> Geomorphic Position (D2) <u> </u> Shallow Aquitard (D3) <u> </u> Microtopographic Relief (D4) <u> </u> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <u> </u> No <u> </u> Depth (inches): <u> </u> Water Table Present? Yes <u> </u> No <u> </u> Depth (inches): <u> </u> Saturation Present? Yes <u> </u> No <u> </u> Depth (inches): <u> </u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

VEGETATION – Use scientific names of plants.

 Sampling Point: WL1

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	_____	=Total Cover		
Sapling/Shrub Stratum (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	_____	=Total Cover		
Herb Stratum (Plot size: _____)				
1. <u>Salix interior</u>	30	Yes	FACW	
2. <u>Solidago altissima</u>	20	Yes	FACU	
3. <u>Euthamia graminifolia</u>	20	Yes	FAC	
4. <u>Cyperus esculentus</u>	10	No	FACW	
5. <u>Phalaris arundinacea</u>	10	No	FACW	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	90	=Total Cover		
Woody Vine Stratum (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	_____	=Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>50</u>	x 2 = <u>100</u>
FAC species <u>20</u>	x 3 = <u>60</u>
FACU species <u>20</u>	x 4 = <u>80</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>90</u> (A)	<u>240</u> (B)
Prevalence Index = B/A = <u>2.67</u>	

Hydrophytic Vegetation Indicators:

1 - Rapid Test for Hydrophytic Vegetation

☒ 2 - Dominance Test is >50%

☒ 3 - Prevalence Index is ≤3.0¹

4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

 Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ☒ No ☐

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point WL1

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Sakura Way City/County: Novi, Oakland Sampling Date: 10/24/2018
 Applicant/Owner: Aikens State: MI Sampling Point: WL2
 Investigator(s): E. Schenk, Atwell LLC Section, Township, Range: 23, 1N, 8E
 Landform (hillside, terrace, etc.): Hillside Local relief (concave, convex, none): Concave Slope %: 5-10
 Subregion (LRR or MLRA): LRR K Lat: 42°28'49.46"N Long: 83°28'6.38"W Datum: WGS84
 Soil Map Unit Name: Marlette sandy loam, 1 to 6 percent slopes NWI classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u>Wetland 2</u>
Hydric Soil Present? Yes <u>X</u> No <u> </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators</u> (minimum of one is required; check all that apply)		<u>Secondary Indicators</u> (minimum of two required)	
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)	
Field Observations: Surface Water Present? Yes <u> </u> No <u> </u> Depth (inches): <u> </u> Water Table Present? Yes <u> </u> No <u> </u> Depth (inches): <u> </u> Saturation Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>0</u> (includes capillary fringe)		Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			

Sampling Point: WL2

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:																																	
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: _____ 2 _____ (A)																																	
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: _____ 2 _____ (B)																																	
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: _____ 100.0% _____ (A/B)																																	
4. _____	_____	_____	_____	Prevalence Index worksheet: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Total % Cover of:</th> <th colspan="2">Multiply by:</th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td>_____ 30 _____</td> <td>x 1 =</td> <td>_____ 30 _____</td> </tr> <tr> <td>FACW species</td> <td>_____ 50 _____</td> <td>x 2 =</td> <td>_____ 100 _____</td> </tr> <tr> <td>FAC species</td> <td>_____ 0 _____</td> <td>x 3 =</td> <td>_____ 0 _____</td> </tr> <tr> <td>FACU species</td> <td>_____ 0 _____</td> <td>x 4 =</td> <td>_____ 0 _____</td> </tr> <tr> <td>UPL species</td> <td>_____ 0 _____</td> <td>x 5 =</td> <td>_____ 0 _____</td> </tr> <tr> <td>Column Totals:</td> <td>_____ 80 _____ (A)</td> <td></td> <td>_____ 130 _____ (B)</td> </tr> <tr> <td colspan="4">Prevalence Index = B/A = _____ 1.63 _____</td> </tr> </tbody> </table>		Total % Cover of:		Multiply by:		OBL species	_____ 30 _____	x 1 =	_____ 30 _____	FACW species	_____ 50 _____	x 2 =	_____ 100 _____	FAC species	_____ 0 _____	x 3 =	_____ 0 _____	FACU species	_____ 0 _____	x 4 =	_____ 0 _____	UPL species	_____ 0 _____	x 5 =	_____ 0 _____	Column Totals:	_____ 80 _____ (A)		_____ 130 _____ (B)	Prevalence Index = B/A = _____ 1.63 _____			
Total % Cover of:		Multiply by:																																			
OBL species	_____ 30 _____	x 1 =	_____ 30 _____																																		
FACW species	_____ 50 _____	x 2 =	_____ 100 _____																																		
FAC species	_____ 0 _____	x 3 =	_____ 0 _____																																		
FACU species	_____ 0 _____	x 4 =	_____ 0 _____																																		
UPL species	_____ 0 _____	x 5 =	_____ 0 _____																																		
Column Totals:	_____ 80 _____ (A)		_____ 130 _____ (B)																																		
Prevalence Index = B/A = _____ 1.63 _____																																					
5. _____	_____	_____	_____																																		
6. _____	_____	_____	_____	Hydrophytic Vegetation Indicators: _____ 1 - Rapid Test for Hydrophytic Vegetation _____ X 2 - Dominance Test is >50% _____ X 3 - Prevalence Index is ≤3.0 ¹ _____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																																	
7. _____	_____	_____	_____																																		
_____ =Total Cover				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																																	
Sapling/Shrub Stratum (Plot size: _____)																																					
1. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes _____ X _____ No _____																																	
2. _____	_____	_____	_____																																		
3. _____	_____	_____	_____	Woody Vine Stratum (Plot size: _____)																																	
4. _____	_____	_____	_____																																		
5. _____	_____	_____	_____	Herb Stratum (Plot size: _____)																																	
6. _____	_____	_____	_____																																		
7. _____	_____	_____	_____	1. <i>Phragmites australis</i> 50 Yes FACW 2. <i>Typha angustifolia</i> 20 Yes OBL 3. <i>Typha latifolia</i> 10 No OBL																																	
8. _____	_____	_____	_____																																		
9. _____	_____	_____	_____	4. _____ 5. _____ 6. _____ 7. _____ 8. _____ 9. _____ 10. _____ 11. _____ 12. _____																																	
10. _____	_____	_____	_____																																		
11. _____	_____	_____	_____	_____ 80 _____ =Total Cover																																	
12. _____	_____	_____	_____																																		
_____ =Total Cover																																					

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point WL2

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Sakura Way City/County: Novi, Oakland Sampling Date: 10/24/2018
 Applicant/Owner: Aikens State: MI Sampling Point: WL3
 Investigator(s): E. Schenk, Atwell LLC Section, Township, Range: 23, 1N, 8E
 Landform (hillside, terrace, etc.): Constructed Ditch Local relief (concave, convex, none): Concave Slope %: 10-20
 Subregion (LRR or MLRA): LRR K Lat: 42°28'47.26"N Long: 83°28'8.17"W Datum: WGS84
 Soil Map Unit Name: Marlette sandy loam, 1 to 6 percent slopes NWI classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u> Hydric Soil Present? Yes <u>X</u> No <u> </u> Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u>Wetland 3</u>
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input checked="" type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>6</u> Water Table Present? Yes <u> </u> No <u> </u> Depth (inches): <u> </u> Saturation Present? Yes <u> </u> No <u> </u> Depth (inches): <u> </u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:		

VEGETATION – Use scientific names of plants.

 Sampling Point: WL3

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
		=Total Cover		
Sapling/Shrub Stratum (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
		=Total Cover		
Herb Stratum (Plot size: _____)				
1. <i>Phragmites australis</i>	80	Yes	FACW	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
		80 =Total Cover		
Woody Vine Stratum (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
		=Total Cover		

Dominance Test worksheet:
 Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
 Total Number of Dominant Species Across All Strata: 1 (B)
 Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>80</u>	x 2 = <u>160</u>
FAC species <u>0</u>	x 3 = <u>0</u>
FACU species <u>0</u>	x 4 = <u>0</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>80</u> (A)	<u>160</u> (B)
Prevalence Index = B/A = <u>2.00</u>	

Hydrophytic Vegetation Indicators:
1 - Rapid Test for Hydrophytic Vegetation
☒ 2 - Dominance Test is >50%
☒ 3 - Prevalence Index is ≤3.0¹
4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 Problematic Hydrophytic Vegetation¹ (Explain)
¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:
Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ☒ No ☐

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point WL3

[illegible]

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|--|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R , |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> High Chroma Sands (S11) (LRR K, L) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input checked="" type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Redox (S5) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Stripped Matrix (S6) | <input type="checkbox"/> Marl (F10) (LRR K, L) |
| <input type="checkbox"/> Dark Surface (S7) | |

Indicators for Problematic Hydric Soils³:

- ☐ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
☐ Coast Prairie Redox (A16) (**LRR K, L, R**)
☐ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
☐ Polyvalue Below Surface (S8) (**LRR K, L**)
☐ Thin Dark Surface (S9) (**LRR K, L**)
☐ Iron-Manganese Masses (F12) (**LRR K, L, R**)
☐ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
☐ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
☐ Red Parent Material (F21)
☐ Very Shallow Dark Surface (F22)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: None

Depth (inches): _____

Hydric Soil Present? **Yes** **X** **No** ☐

Remarks:

This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils, Version 7.0, 2015 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Sakura Way City/County: Novi, Oakland Sampling Date: 10/24/2018
 Applicant/Owner: Aikens State: MI Sampling Point: WL4
 Investigator(s): E. Schenk, Atwell LLC Section, Township, Range: 23, 1N, 8E
 Landform (hillside, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope %: 2-4
 Subregion (LRR or MLRA): LRR K Lat: 42°28'49.25"N Long: 83°27'53.29"W Datum: WGS84
 Soil Map Unit Name: Capac sandy loam, 0 to 4 percent slopes NWI classification: PSS/PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u>Wetland 4</u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>	
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>	

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)	
Primary Indicators (minimum of one is required; check all that apply)			
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input checked="" type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)	
		<input type="checkbox"/> FAC-Neutral Test (D5)	

Field Observations:				Wetland Hydrology Present? Yes <u>X</u> No <u> </u>
Surface Water Present?	Yes <u>X</u>	No <u> </u>	Depth (inches): <u>3</u>	
Water Table Present?	Yes <u> </u>	No <u> </u>	Depth (inches): <u> </u>	
Saturation Present?	Yes <u>X</u>	No <u> </u>	Depth (inches): <u>0</u>	
(includes capillary fringe)				

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: WL4

<u>Tree Stratum</u> (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Acer saccharinum</u>	2	No	FACW	
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
	2	=Total Cover		
<u>Sapling/Shrub Stratum</u> (Plot size: _____)				
1. <u>Rhamnus cathartica</u>	30	Yes	FAC	
2. <u>Cornus amomum</u>	10	Yes	FACW	
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
	40	=Total Cover		
<u>Herb Stratum</u> (Plot size: _____)				
1. <u>Typha latifolia</u>	10	Yes	OBL	
2. <u>Onoclea sensibilis</u>	15	Yes	FACW	
3. <u>Euthamia graminifolia</u>	5	No	FAC	
4. <u>Lythrum salicaria</u>	5	No	OBL	
5. <u>Epilobium leptophyllum</u>	2	No	OBL	
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
12. _____				
	37	=Total Cover		
<u>Woody Vine Stratum</u> (Plot size: _____)				
1. _____				
2. _____				
3. _____				
4. _____				
		=Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>17</u>	x 1 = <u>17</u>
FACW species <u>27</u>	x 2 = <u>54</u>
FAC species <u>35</u>	x 3 = <u>105</u>
FACU species <u>0</u>	x 4 = <u>0</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>79</u> (A)	<u>176</u> (B)
Prevalence Index = B/A = <u>2.23</u>	

Hydrophytic Vegetation Indicators:

 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

X 3 - Prevalence Index is ≤3.0¹

 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

 Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point WL4[illegible]

WETLAND MITIGATION OPTIONS



CONSULTING. ENGINEERING. CONSTRUCTION.

October 2, 2019

Lindsey Bell
City of Novi - Planner
Address Line 1
Address Line 2

RE: Sakura Novi Wetland Mitigation Options
Atwell Project Number: 18003457

Dear Ms. Bell,

The proposed Sakura Novi project currently proposes to impact 1.67 acres of emergent wetland. Of this acreage, 0.90 is anticipated to be EGLE regulated with the remaining 0.77 acres as non-EGLE regulated. The Applicant is committed to satisfy the City of Novi's wetland ordinance (*Chapter 12 – Drainage and Flood Damage Prevention, Article V. – Wetlands and Watercourse Protection, Division 2. – Use Permit, Section 12-176. Mitigation*). Currently, the Applicant is considering two different mitigation options to achieve this goal. However, as the Project progresses, additional mitigation options may be considered.

Option 1

The applicant may create 0.9 acres of emergent wetlands on parcel 22-23-226-021 to the east of the proposed Sakura Novi Project and 0.5 acres of emergent wetlands on parcel 22-23-226-042 currently owned by the City of Novi. The current available acreage on parcel 22-23-226-042 is large enough to also support the future mitigation needs of the City for the Fountain Park Drive road extension Project. Refer to the attached map for a detail showing the approximate available space for wetland mitigation on 22-23-226-042 and the anticipated future City of Novi wetland impacts. This 1.4 acres is designed to offset the EGLE regulated 0.90 acres impact at a mitigation ratio of 1.5 to 1. The remaining 1.2 acre of wetland mitigation required to offset the 0.77 acres of City regulated wetlands at an approximate 4 to 1 ratio is proposed on parcel 22-17-101-006 through preservation of existing wetlands. Currently, wetlands on adjoining parcels (22-17-101-032 and 22-17-101-012) have conservation easements on the existing wetland complexes. The Applicant proposes to put approximately 4 acres of existing wetland under conservation easement which would create one large contiguous protect wetland complex under protection in perpetuity. Additionally, the surrounding 5 acres of upland could be put under conservation easement to afford further protection and natural habitat within the City of Novi.

Option 2

The Applicant is proposing the same mitigation strategy as Option 1 for the EGLE mitigation requirements. This 1.4 acres is designed to offset the EGLE regulated 0.90 acres impact at a mitigation ratio of 1.5 to 1. In order to mitigate for the remaining 0.77 acres of City regulated wetland impact, the Applicant proposes to initiate a wetland mitigation fund for the City of Novi due to the lack of available space for wetland mitigation within the City limits. This strategy is intended to mimic the existing City of Novi woodland mitigation fund.




Know what's below
Call before you dig

1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the situation.

2. Once the problem is identified, the next step is to analyze the situation and determine the root cause of the problem. This may involve conducting research, consulting with experts, or using analytical tools.

3. After the root cause has been identified, the next step is to develop a plan of action. This plan should outline the steps that need to be taken to address the problem and achieve the desired outcome.

4. The final step in the process is to implement the plan and monitor the results. This involves putting the plan into action and tracking progress to ensure that the problem is being effectively addressed.

ATWELL
888.850.4200 www.atwell-group.com
TWO TOWNE SQUARE, SUITE 700
SOUTH FELD, IN 46078

PIN: 22-23-226-042

SAKURA WAY, LLC
MITIGATION PARCEL
WETLAND DELINEATION

[illegible]

0 35 40
SCALE 1"=40'

1.1

C:\AD-FILE-K\18004015\DWG\COLLOCAT\18004015-EDS-WJ

TRAFFIC IMPACT STUDY



To: Mr. Scott Aikens
Robert B Aikens & Associates, LLC

Re: Sakura Way – City of Novi, MI
Traffic Impact Study Addendum

From: Steven J. Russo, PE
Transportation Engineer

Date: September 24, 2019

This memorandum is intended as an addendum to the original Traffic Impact Study (TIS) dated June, 2019 for the proposed Sakura Way development in the City of Novi, Oakland County, Michigan. A Trip Generation Memorandum issued by Bergmann on July 25th, 2019 is also referenced herein. The project site is located in the northeast quadrant of the Grand River Avenue & Main Street / Town Center Drive intersection. Overall site development plans include construction in two phases for an approximately 300,000 square foot (SF) mixed-use community featuring multifamily residential, office, retail, restaurant, spa, and hotel uses.

This addendum and the associated analyses have been completed in response to a phase two development alternative which would be comprised of 70 multi-family dwelling units, in lieu of proposed commercial space. Additionally, Bergmann has come to understand that a third phase including 52 residential units on the existing vacant parcel directly east of the originally proposed Sakura Way development has been incorporated into the project and planned rezoning overlay (PRO).

The data and methodologies of the original TIS were implemented for the addendum analyses, except as specifically indicated herein. In order to address the items outlined above, the following items have been completed, as detailed in subsequent sections of this memorandum:

1. Trip generation forecast and comparison for the lower density phase two alternative.
2. Revised trip generation comparison between the maximum density allowed under existing zoning versus the proposed development program with the phase three residential parcel.
3. Capacity analysis at the proposed phase three residential site driveway.
4. Right turn lane warrant analysis at the proposed phase three residential site driveway in accordance with City standards.

PHASE TWO TRIP GENERATION COMPARISON

The proposed development plans include two (2) phase two development alternatives for the project. The first alternative as outlined in the original TIS includes a hotel, spa, and mix of retail, restaurant, residential, and office uses, while the second alternative would be comprised of 70 multi-family dwelling units only. As the secondary residential alternative was not included as part of the original TIS a trip generation comparison was completed between the phase two alternatives.

Consistent with the TIS, the number of vehicle trips that would be generated was forecast based on the methodologies and data published by ITE in *Trip Generation, 10th Edition* and the *Trip Generation*



Handbook, 3rd Edition. Internal capture and pass-by trips were calculated based on ITE data / methodologies and the rates applied by AECOM for the City area-wide study. The overall project trip generation forecast with the alternative phase two residential scenario is summarized in **Table 1** and a comparison of total trips generated by the overall project with each phase two alternative is summarized in **Table 2**.

Table 1: Overall Project Trip Generation with Phase Two Residential Alternative

Land Use	ITE Code	Amount	Units	Average Daily	AM Peak Hour			PM Peak Hour			SAT Peak Hour		
					In	Out	Total	In	Out	Total	In	Out	Total
Multifamily Housing (Low-Rise)	220	138	Dwellings	1,002	15	50	65	50	29	79	58	58	116
			Internal Capture	-240	-1	-6	-7	-16	-8	-24	-26	-19	-45
Retail	820	4,508	SF	170	2	2	4	8	9	17	10	10	20
			Internal Capture	0	0	0	0	0	0	0	0	0	0
			Pass-By (34% PM/26% SAT)	58	0	0	0	3	2	5	3	3	6
			New Trips	112	2	2	4	5	7	12	7	7	14
Market	850	26,500	SF	2,830	61	40	101	147	142	289	181	174	355
			Internal Capture	-550	-5	-6	-11	-23	-32	-55	-51	-55	-106
			Pass-By (36%)	821	16	15	31	42	41	83	45	45	90
			New Trips	1,459	40	19	59	82	69	151	85	74	159
Fast-Casual Restaurant	930	4,532	SF	640	6	3	9	35	29	64	59	48	107
			Internal Capture	-130	-2	-1	-3	-6	-7	-13	-14	-16	-30
			Pass-By (50%)	255	0	0	0	13	13	26	20	19	39
			New Trips	255	4	2	6	16	9	25	25	13	38
Quality Restaurant	931	10,460	SF	877	6	2	8	55	27	82	66	46	112
			Internal Capture	-160	-2	0	-2	-9	-7	-16	-16	-16	-32
			Pass-By (44%)	315	0	0	0	14	14	28	17	17	34
			New Trips	402	4	2	6	32	6	38	33	13	46
High-Turnover Sit-Down Restaurant	932	4,505	SF	505	25	20	45	27	17	44	26	24	50
			Internal Capture	-80	-7	-4	-11	-4	-4	-8	-7	-8	-15
			Pass-By (43%)	183	8	7	15	8	8	16	8	7	15
			New Trips	242	10	9	19	15	5	20	11	9	20
Total Site Trips			Internal Capture	-1,160	-17	-17	-34	-58	-58	-116	-114	-114	-228
			Pass-By Trips	1,632	24	22	46	30	28	58	23	21	44
			New Trips	3,232	74	78	152	184	117	301	193	155	348
			TOTAL EXTERNAL TRIPS	4,864	98	100	198	264	195	459	286	246	532

Table 2: Overall Project Trip Generation Comparison for Phase Two Alternatives

TOTAL	Phase Two Scenario	AM Peak Hour			PM Peak Hour			SAT Peak Hour		
		In	Out	Total	In	Out	Total	In	Out	Total
EXTERNAL TRIPS	Original TIS Mix of Uses	254	162	416	424	367	791	452	384	836
	Residential Only	98	100	198	264	195	459	286	246	532
NEW TRIPS	Original TIS Mix of Uses	217	125	342	308	251	559	315	247	562
	Residential Only	74	78	152	184	117	301	193	155	348

The results of this comparison indicate that the phase two alternative comprised exclusively of residential uses would generate significantly less trips than the higher density mix of uses included in the original TIS. Therefore, the analysis in the original TIS represents a conservative worst-case scenario for the development and no additional improvements would be necessary to accommodate the lower density phase two residential alternative.

REVISED REZONING TRIP GENERATION COMPARISON

With the addition of the vacant parcel directly east of the proposed Sakura Way development as part of the planned rezoning overlay (PRO), the rezoning trip generation comparison (previously documented in the Trip Generation Comparison memo dated July 25th, 2019) was updated to include the additional phase



three residential units. For this update, the higher density phase two development alternative was utilized as it represents the worst-case scenario for development of the overall project. Consistent with the previous trip generation comparison, the maximum density of development under existing zoning was determined based on the Applicant's experience with development projects and site planning, the uses permitted by-right under the existing OS-1, OSC, and I-1 zoning districts, and general consideration of ordinance requirements.

Consistent with the TIS, the number of vehicle trips that would be generated under existing zoning was forecast based on the methodologies and data published by ITE in *Trip Generation, 10th Edition* and the *Trip Generation Handbook, 3rd Edition*. Internal capture and pass-by trips were calculated based on ITE data / methodologies and the rates applied by AECOM for the City area-wide study. The new phase three parcel does not have the capability for internal connection with the other parcels included in the Sakura Way development, due to physical (wetlands / pond) constraints. Therefore, no internal capture reductions were applied specific to the eastern new parcel. A detailed trip generation forecast for the existing zoning scenario, along with a comparison to the results detailed in the TIS for the proposed development program are summarized in Table 3 and Table 4.

Table 3: Maximum Development under Existing Zoning with Additional Parcel

Zoning	Land Use	ITE Code	Amount	Units	Average Daily	AM Peak Hour			PM Peak Hour			SAT Peak Hour		
						In	Out	Total	In	Out	Total	In	Out	Total
OS-1	Office	710	70,000	SF	751	79	13	92	13	68	81	20	17	37
			Internal Capture		-40	-6	-5	-11	-1	-3	-4	-1	-4	-5
			71,000	SF	761	80	13	93	13	69	82	21	17	38
OSC	Office	710	Internal Capture		-40	-6	-5	-11	-1	-3	-4	-1	-4	-5
			71,000	SF	2,640	129	36	165	68	175	243	125	95	220
			Internal Capture		-40	-6	-5	-11	-1	-3	-4	-1	-4	-5
	Medical Office	720	4,000	SF	151	2	2	4	7	8	15	9	9	18
			Internal Capture		0	0	0	0	0	0	0	0	0	0
			Pass-By (34% PM/26% SAT)		51	0	0	0	2	2	4	3	3	6
			New Trips		100	2	2	4	5	6	11	6	6	12
	Retail	820	25,000	SF	2,670	58	38	96	141	136	277	174	167	341
			Internal Capture		-790	-15	-9	-24	-40	-39	-79	-56	-41	-97
			Pass-By (36%)		677	13	13	26	35	35	70	44	44	88
			New Trips		1,203	30	16	46	66	62	128	74	82	156
	Market	850	15,000	SF	1,683	82	67	149	91	56	147	86	82	168
			Internal Capture		-600	-17	-17	-34	-33	-27	-60	-32	-41	-73
			Pass-By (43%)		466	25	25	50	19	19	38	21	21	42
			New Trips		617	40	25	65	39	10	49	33	20	53
			Internal Capture		-170	-1	-9	-10	-10	-7	-17	-13	-8	-21
I-1	Motel	320	150	Rooms	514	21	36	57	31	26	57	39	43	82
			Internal Capture		-170	-1	-9	-10	-10	-7	-17	-13	-8	-21
			150,000	SF	1,572	144	23	167	27	140	167	43	37	80
	Total Site Trips	710	Internal Capture		-1,760	-58	-58	-116	-68	-88	-156	-107	-107	-214
			Pass-By Trips		1,194	38	38	76	56	56	112	68	68	136
			New Trips		7,788	499	132	631	247	534	781	342	292	634
			TOTAL EXTERNAL TRIPS		8,982	537	170	707	303	590	893	410	360	770
			Internal Capture		-1,760	-58	-58	-116	-68	-88	-156	-107	-107	-214

Table 4: Trip Generation Comparison with Additional Parcel

TOTAL	Scenario	AM Peak Hour			PM Peak Hour			SAT Peak Hour		
		In	Out	Total	In	Out	Total	In	Out	Total
EXTERNAL TRIPS	Existing Zoning	537	170	707	303	590	893	410	360	770
	Proposed Development	260	182	442	445	379	824	464	395	859
NEW TRIPS	Existing Zoning	499	132	631	247	534	781	342	292	634
	Proposed Development	223	145	368	329	263	592	327	258	585

The results of this comparison indicate that the site is still capable of generating significantly more "new trips" under existing zoning, with the addition of the phase three residential parcel. This is due to the

allowable density and nature of office trip generation; whereby office trip generation is more intense during weekday peak periods, and the proposed uses would generate slightly higher demands on a Saturday. Furthermore, the proposed (phase one and two) retail / restaurant uses would capture a greater proportion of “pass-by” trips that are already present on the adjacent road network as compared to office use. The proposed phase three residential uses would result in a marginal increase to the overall site traffic generation potential.

PHASE THREE RESIDENTIAL DRIVE CAPACITY ANALYSIS


A capacity analysis was completed for the proposed site driveway to 11 Mile Road for the phase three 52-unit residential development. The vehicle trips generated by the development were forecast based on the rates and equations published by ITE in *Trip Generation, 10th Edition* and summarized in Table 5. The trips were assigned to the study network using the same distribution methodology as outlined in the original TIS.

Table 5: Phase Three Residential Trip Generation Forecast

Land Use	ITE Code	Amount	Units	Average Daily	AM Peak Hour			PM Peak Hour			SAT Peak Hour		
					In	Out	Total	In	Out	Total	In	Out	Total
Multifamily Housing (Low-Rise)	220	52	Dwellings	352	6	20	26	21	12	33	12	11	23

Future peak hour vehicle delays and LOS at the proposed phase three residential site driveway to 11 Mile Road were calculated based on the existing lane configurations and traffic control, future traffic volumes, and HCM methodologies. The results of the future conditions analysis as summarized in Table 6 indicate that all driveway movements will operate acceptably at a LOS B or better during all peak periods.

Table 6: Future Phase Three Residential Driveway Conditions

Intersection	AM Peak Hour				PM Peak Hour				SAT Peak Hour			
	Approach	↶	↑	↷	Approach	↶	↑	↷	Approach	↶	↑	↷
9. 11 Mile Road & Phase 3 Residential Drive Minor STOP 	EB	Free			EB	Free			EB	Free		
	WB	0.1 A	7.7 A	Free	WB	0.1 A	7.7 A	Free	WB	0.1 A	7.6 A	Free
	NB	10.4 B	10.4 B		NB	12.6 B	12.6 B		NB	10.3 B	10.3 B	

PHASE THREE RESIDENTIAL DRIVE TURN LANE WARRANT ANALYSIS

The City of Novi warrants for right-turn lanes were evaluated at the proposed phase three residential site access point to 11 Mile Road. A center lane for left turns exists on 11 Mile Road. As 24-hour volumes were not available along the study section of 11 Mile Road, 24-hour volumes were forecast based on existing PM peak hour volumes from the AECOM traffic study with application of a 10% K-factor. Additionally, daily site-generated traffic volumes from the Sakura Way development were included. The results of this analysis indicate that neither a right turn lane nor taper are warranted.



CONCLUSIONS

The following conclusions are based on the information outlined herein:

1. A secondary phase two development alternative is comprised exclusively of residential uses. As cited in the original TIS, the commercial phase two uses and densities were conservatively assumed; however, are speculative at this point.
2. Phase two residential uses would generate significantly less trips than the higher density mix of uses included in the original TIS. Therefore, the analysis in the original TIS represents a conservative worst-case scenario for the development and no additional improvements would be necessary to accommodate the lower density phase two residential alternative.
3. A third phase on the existing vacant parcel directly east of the originally proposed development is proposed for residential development. The proposed use and density would result in a marginal increase to the overall site traffic generation potential.
4. The site is still capable of generating significantly more “new trips” under existing zoning as compared to the proposed development plans with the addition of the phase three residential parcel.
5. All approaches and movements at the phase three residential site driveway to 11 Mile Road will operate acceptably at a LOS B or better.
6. Neither a right turn lane nor taper are warranted at the proposed phase three residential site driveway to 11 Mile Road based on City standards. A center lane for left turns exists.

The referenced traffic data, calculations, and simulation results are attached. Please direct any questions regarding this memorandum to Bergmann.

Attached: Synchro Outputs
 Right Turn Lane Warrant

HCM 6th TWSC
16: Phase 3 Residential Drive & 11 Mile Road

Future Conditions
AM Peak Hour

Intersection

Int Delay, s/veh 0.6

Movement EBT EBR WBL WBT NBL NBR

Lane Configurations						
Traffic Vol, veh/h	204	4	2	108	15	5
Future Vol, veh/h	204	4	2	108	15	5
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	150	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	83	83	75	75	92	92
Heavy Vehicles, %	3	0	0	8	0	0
Mvmt Flow	246	5	3	144	16	5

Major/Minor Major1 Major2 Minor1

Conflicting Flow All	0	0	251	0	399	249
Stage 1	-	-	-	-	249	-
Stage 2	-	-	-	-	150	-
Critical Hdwy	-	-	4.1	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	-	-	2.2	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	1326	-	611	795
Stage 1	-	-	-	-	797	-
Stage 2	-	-	-	-	883	-
Platoon blocked, %	-	-	-	-	-	-
Mov Cap-1 Maneuver	-	-	1326	-	610	795
Mov Cap-2 Maneuver	-	-	-	-	657	-
Stage 1	-	-	-	-	795	-
Stage 2	-	-	-	-	883	-

Approach EB WB NB

HCM Control Delay, s	0	0.1	10.4
HCM LOS			B

Minor Lane/Major Mvmt NBLn1 EBT EBR WBL WBT





Capacity (veh/h)	687	-	-	1326	-
HCM Lane V/C Ratio	0.032	-	-	0.002	-
HCM Control Delay (s)	10.4	-	-	7.7	-
HCM Lane LOS	B	-	-	A	-
HCM 95th %tile Q(veh)	0.1	-	-	0	-

HCM 6th TWSC
16: Phase 3 Residential Drive & 11 Mile Road

Future Conditions
PM Peak Hour

Intersection

Int Delay, s/veh 0.3

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	178	16	5	510	9	3
Future Vol, veh/h	178	16	5	510	9	3
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	150	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	87	87	81	81	92	92
Heavy Vehicles, %	2	0	0	2	0	0
Mvmt Flow	205	18	6	630	10	3

Major/Minor	Major1	Major2	Minor1
Conflicting Flow All	0	0	223
Stage 1	-	-	-
Stage 2	-	-	-
Critical Hdwy	-	-	4.1
Critical Hdwy Stg 1	-	-	-
Critical Hdwy Stg 2	-	-	-
Follow-up Hdwy	-	-	2.2
Pot Cap-1 Maneuver	-	-	1358
Stage 1	-	-	-
Stage 2	-	-	-
Platoon blocked, %	-	-	-
Mov Cap-1 Maneuver	-	-	1358
Mov Cap-2 Maneuver	-	-	-
Stage 1	-	-	-
Stage 2	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0.1	12.6
HCM LOS			B





Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	486	-	-	1358	-
HCM Lane V/C Ratio	0.027	-	-	0.005	-
HCM Control Delay (s)	12.6	-	-	7.7	-
HCM Lane LOS	B	-	-	A	-
HCM 95th %tile Q(veh)	0.1	-	-	0	-

HCM 6th TWSC
16: Phase 3 Residential Drive & 11 Mile Road

Future Conditions
SAT Peak Hour

Intersection

Int Delay, s/veh 0.3

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	175	9	3	174	9	2
Future Vol, veh/h	175	9	3	174	9	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	150	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	87	87	95	95	92	92
Heavy Vehicles, %	2	0	0	2	0	0
Mvmt Flow	201	10	3	183	10	2

Major/Minor	Major1	Major2	Minor1
Conflicting Flow All	0	0	211
Stage 1	-	-	-
Stage 2	-	-	-
Critical Hdwy	-	-	4.1
Critical Hdwy Stg 1	-	-	-
Critical Hdwy Stg 2	-	-	-
Follow-up Hdwy	-	-	2.2
Pot Cap-1 Maneuver	-	-	1372
Stage 1	-	-	-
Stage 2	-	-	-
Platoon blocked, %	-	-	-
Mov Cap-1 Maneuver	-	-	1372
Mov Cap-2 Maneuver	-	-	-
Stage 1	-	-	-
Stage 2	-	-	-

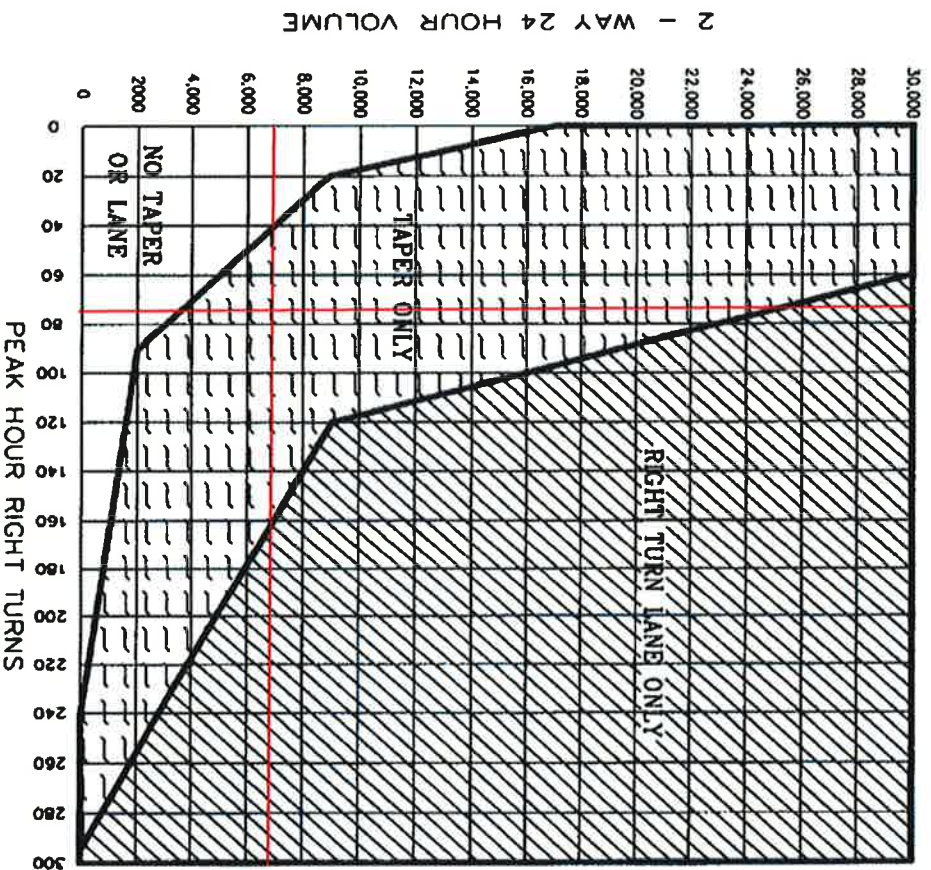
Approach	EB	WB	NB
HCM Control Delay, s	0	0.1	10.3
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	689	-	-	1372	-
HCM Lane V/C Ratio	0.017	-	-	0.002	-
HCM Control Delay (s)	10.3	-	-	7.6	-
HCM Lane LOS	B	-	-	A	-
HCM 95th %tile Q(veh)	0.1	-	-	0	-

11 MILE ROAD & PHASE 3 RESIDENTIAL SITE DRIVE RIGHT TURN LANE WARRANT

(Ord. No. 99-124.11, Pt. XXXIII, 7-26-99)

Figure IX.10



PM: 76 RIGHT TURNS

WARRANT FOR RIGHT TURN DECELERATION LANE OR TAPER

NO SCALE

2018 PM PEAK = 566
10% K-FACTOR = 5,660 ADT
+ 0.5% GROWTH TO 2028
+ 50% OF SITE TRAFFIC
= 2028 ADT OF 8,936

FIGURE IX.10

CITY OF NOVI
STANDARD WARRANT
FOR RIGHT TURN
DECELERATION LANE
OR TAPER

DATE: 27-Jan-99

DESIGN STATEMENTS

Sakura Novi Design Statement

The development of Sakura Novi has incorporated specific design imperatives to create a retail development both rich in authentic Asian spirit and a unique one of a kind retail destination in Metro Detroit...

- Light
- Landscape
- Water
- Architecture

These 4 individual features are combined in readily interactive and dramatic Asian centric public retail events. (Please note these 4 “imperatives” drive the design discipline aesthetic of the “place” — however Tenant Signage in both English letters and Asian script characters dramatically communicate Sakura Novi’s unique intent for both the driver and the strolling pedestrian.)

- Light
 - Lighting at landscape to highlight its specialness — create night-time drama,
 - Lighting at storefronts per lit facades and backlit screens,
 - Lighting of tenant signs that introduces the energy of the Asian marketplace, through the use of neon formed Asian script characters in team with letter lit English lettering,
 - Lighting at the water — a night show.
- Landscape
 - Japanese and Chinese — Asian influences, philosophy of composition, sensitive incorporation of naturalist site and water features, plant selection and form,
 - Landscape provides an impactful and signature event at Sakura Novi and a primary visual departure from typical shopping center norms.
- Water
 - Dramatic feature amenity and experiential centerpiece of the project,
 - Primary contributor to an Asian garden tradition important to the project and integral to the project’s long-term success.
- Architecture
 - Recent Japanese and Chinese architecture, in all forms, has utilized modern technology to celebrate traditional wood, masonry and metal materials, in many instances, setting the new modern agenda for architecture everywhere,
 - At Sakura Novi we use simple bold expanses of intersecting and overlapping planes to define building forms consistent with contemporary Asian themes,
 - Unadorned textured brick surfaces juxtaposed to plain smooth finished gridded walls accented by structurally expressive canopy apparatus that provide focused locations for tenant sign placement.

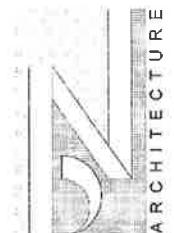
Sakura Novi Design Statement – Residential Building Types

The residential design concept focuses on how the building and site design serve as a continuation of theme through a transition of typology. The site design has intentionally created strong visual and physical connections between the townhomes, retail and site amenities using light, landscape, water and architecture.

The residential building design achieves transition through an architecture which plays off simple, bold forms and linear patterns consistent with modern Asian architecture while respecting the scale of the residential vernacular. The exterior architecture focuses on the use of scale, proportion and balance to break down the building mass by delineating the individual units and providing appropriate residential scaled details. The units maximize the connection to outdoor space with ample fenestration in a modern expression on the façade. The main living spaces open to second floor balcony vistas and ground level porches flow into garden and lawn spaces. The landscape design connects these garden spaces through interconnected walks creating a social, walkable neighborhood that seeks to be connected to the other site amenities and commercial sectors of the development.

The building materials have been chosen based on their qualities of durability, sustainability, longevity, vernacular appearance, scale and low maintenance. The layered and light expressions of timber frame structures in traditional Asian architecture have influenced our desire to deviate from the use of primarily brick and stone on the facades. The base of the buildings are anchored to the ground with the use of a dark earth tone brick as a foundation facade material. The building fronts rise into distinctive parapet elevations clad in white horizontal vinyl siding, 4" in width. The use of the slender siding material portrays a lightness of material weight consistent to traditional Asian architecture contrasting the weight of the brick base. The use of traditional residential building materials in a modern expression of pure form aims to create a transitional yet timeless architecture.

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248. 259. 1784 brianneeper.com



**APPLICANT RESPONSE LETTER:
PRO CONCEPT PLAN SUBMITTAL**



Robert B. Aikens
& ASSOCIATES, L.L.C.



October 2, 2019

City of Novi
Planning Department
45175 Ten Mile Road
Novi, MI 48375

Re: PRO Site Plan Submittal
Sakura Novi & The Residences at Sakura Novi

City File Number: JSP 1931 with Rezoning 18.732

This document provides the comprehensive consultant team responses to Novi's comments package provided July 25, 2019.

Planning Review Chart : TC-1 with Pro

Review Date: July 25, 2019
Prepared by: Lindsay Bell

CONSULTANTS:

Civil Engineering Consultant:

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Landscape Consultant:

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Traffic Consultant:

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517-827-8693

Wetland Consultant:

Don Berninger, Atwell, LLC
311 North Main, Ann Arbor, MI 48104
734-994-4000

Certain comments have been addressed by Ownership response.

Planning Review (page 3)

- 1. Parcel lines are shown on Civil Sheet C-2.0 and P1.1.
- 2. Notarized Letter from Ecco Parcel Owner submitted as supplemental document as part of the PRO package.
- 3. Sign Location Plan included as Civil Sheet C-1.6.
- 4. Phase 2 has been presented with a minimum density development option, and with a maximum development density option. Actual development to be proposed is anticipated to fall within that range of area, and within permitted TC-1 uses. Language governing Phase 2 uses to be included within PRO Agreement terms.

Planning Review (page 4)

- 2.a. Truck turning diagrams included as Civil sheets C-2.7 and C-2.8.
- 2.b. Noise impact study has not been undertaken, as grandfathered non-conforming use is temporary. No residential living quarters are at grade level adjacent to temporary non-conforming use.

Planning Review (page 5)

- 2.d. Phase2 has been presented with a minimum density development option, and with a maximum development density option. Actual development to be proposed is anticipated to fall within that range of area, and within permitted TC-1 uses.
- 2.e. Colored elevations and materials' sample boards have been submitted as part of the PRO package. Design Statements from both design Architects have been submitted as part of the PRO package.
- 2.f. Phase1 Residential buildings' exterior finishes have been modified to be harmonious with commercial buildings.
- 2.g. Proposed parking is being provided as per Parking Study recommendation. All efforts have been made to eliminate conflicting information submitted as part of the PRO package.
- 5. Public Benefits language has been modified, and submitted as part of the PRO package.



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- 6. Deviations language has been modified, and submitted as part of the PRO package.

Planning Review (page 6)

- 7. Tentative completion dates have been added to the Project Narrative, and submitted as part of the PRO package.
- All anticipated future deviations necessary for future Phases have been submitted as part of the PRO package. These are not guaranteed to be all-inclusive. Language governing Phase 2 uses to be included within PRO Agreement terms.

Planning Review (page 9)

- TRAFFIC: Rezoning Traffic Statement has been submitted as part of the PRO package. The range of Phase2 development, and the additional Phase3 development scope has been considered by the traffic consultant and included as an additional document.

Planning Review (page 10)

- WOODLANDS: Discrepancy in material classification has been corrected, and submitted as part of the PRO package.
- WETLANDS: Impacts to the wetland and wetland buffer areas have been indicated and quantified and submitted as part of the PRO package. These intend to be included in the PRO Agreement Conditions, and are outlined as such as part of the PRO package.
- MASTER PLAN FOR LAND USE: GOALS AND OBJECTIVES
- 1. Phase1 Residential buildings' exterior finishes have been modified to be harmonious with commercial buildings.
- 4. Applicant is proposing a combination of on and off-site Wetland mitigation. Applicant is anticipating contributions to Novi's woodland replacement tree fund.
- MAJOR CONDITIONS OF PLANNED REZONING OVERLAY AGREEMENT
- PRO Agreement conditions items list draft has been initiated per Staff request and has been submitted as part of the Narrative in the PRO package. Language governing Phase 2 uses to be included within PRO Agreement terms.

ORDINANCE DEVIATIONS (page 13)

- Deviations language has been modified to reflect this directive and list been submitted as part of the Narrative in the PRO package.

ORDINANCE DEVIATIONS (page 14)

- Deviations language has been modified to reflect this directive and list been submitted as part of the Narrative in the PRO package.

ORDINANCE DEVIATIONS (page 15)

- 1. Open Space deviation criteria has been adjusted and revised calculations presented and submitted as part of the Narrative in the PRO package. Phase2 will require an optional



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deviation for Open Space standards to achieve maximum density – see Deviation request #9.

- 2. The adjacent non-conforming Light Industrial use is be addressed in the PRO Agreement conditions items submitted as part of the Narrative in the PRO package.
- 3. Requested plan view presented on Civil Sheet C-2.2. Deviation has been submitted as part of the Narrative in the PRO package – see Deviation request #20.

SIGN DEVIATIONS (page 16)

- Signage Deviation package has been adjusted and simplified, and has been submitted as part of the Narrative in the PRO package - – see Deviation requests #18 and #19.
- **APPLICANT'S BURDEN UNDER PRO ORDINANCE**
 - 1. Response has been submitted as part of the Narrative in the PRO package.
 - 2. Response has been submitted as part of the Narrative in the PRO package.
- **PUBLIC INTEREST/BENEFITS TO THE PUBLIC UNDER PRO ORDINANCE**
 - 1. All revised Public Benefits language has been submitted as a part of the Narrative in the PRO package.

SUMMARY OF OTHER REVIEWS (page 18)

- 6. Rezoning Traffic Statement has been submitted as part of the PRO package. The range of Phase2 development, and the additional Phase3 development scope has been considered by the traffic consultant and included as an additional document.
- **MASTER PLAN AND ZONING COMMITTEE**
 - Applicant intends to present PRO Plan to MPZ committee.

WahYee

Zoning and Use Requirements

- **Master Plan (Page 1):** Project is currently being submitted for rezoning to TC-1 with Pro. Note: Phase 1 uses remain unchanged, while Phase 2 provides a range of development intensity.
- **Density (Page 2):** Phase 1 density remains unchanged at 68 units; Phase 2 provides a range of development uses and intensity. 70 units are proposed as a part of the minimum development density scenario. 50 residential units are shown in the maximum development density scenario. Final residential unit counts to be provided as a part of Phase 2 will depend on market forces. See Phasing Plan Sheet P1.1.



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- Phasing (Page 2): See density note above and Phasing Plan Sheet P1.1.
- Written Statement (Page 3): See revised list of definitions included with this submittal.
- Sign Location Plan (Page 3)(PG.23, SDM): See Civil sheet C-1.6.

Height, Bulk, Density and Area Limitations

- Building height (Page 4)(Sec. 3.1.26.D): See Deviation request #8.

Commercial Building Setbacks (Sec. 3.1.26 D & 3.27.1.C)

- Front (Page 5)(Sec. 3.27.1C): 15' setback line is shown on Civil Engineering Plan C2.0. All parcel lines are shown on C2.0, C2.1, C2.2. For maximum density development scenario, Buildings F and G in Phase 2 will require a setback deviation. See Deviation request #21. See Sheet P1.1.
- Sheet C2.1, C-2.2, C-2.5 and C2.6 for building, setback dimensions.
- **City parking structure would be required for maximum density development scenario, See P1.1.**
- Side (Page 6): Buildings A and D have been combined eliminating Building D and have been shifted to 10' setback. See Deviation request #1. See Sheet C2.5.

Commercial Parking Setback (Sec. 3.1.26D)

- Front (Page 6): See sheet C2.5 for parking setbacks.
- Exterior Rear Yard (Page 6): 11 Mile Road parking will not be an exterior rear yard condition.

Note to District Standards (Sec. 3.6.2)

- Minimum Lot Area and Width (Page 7)(Sec. 3.6.2.D): All lot boundaries and parcel lines are shown on Sheets C2.0 and P1.1.
- Modification of Parking Setback Requirements (Page 7): See Sheet C2.5 and C-2.6 for parking setbacks. All commercial parking along 11 Mile has been eliminated as a part of Phase 1. Rear yard parking setbacks along a non-residential collector require a minimum of 0' setback, so this does not require a deviation. See Deviation request #2. See Sheets C2.5 and P1.1.

TC-1 District Required Conditions (Sec. 3.27)



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- Parking Setbacks (Page 8): Parking setback issues have been modified. See Sheet C2.5, and see Deviation request #5.
- Architectural/Pedestrian orientation (Page 8)(Sec. 3.21.1.E): Entrances have been shown on Sheets P1.1, P4.1, P4.3 and P4.4.
- Façade Materials (Page 8)(Sec. 3.27.1.G): Façade sample boards are included with this submittal.
Section 9 waivers are defined on Sheets P4.1, P4.2, P4.3 and P4.4.
Color elevations are included with this submittal.
Additional detail has been added to all Architectural Sheets.
- Parking, Loading, Signs, Landscape, Lighting (Page 8)(Sec. 3.27.1.H): Loading areas are shown on Sheets C2.1. See Deviation request #14.
- Sidewalks Required (Page 9)(Sec. 3.27.1.I): Sidewalk widths are given on Sheets C2.1 and C2.2.
- Bicycle Paths (Page 9)(Sec. 3.27.1.J): Ordinance stated Non-residential collector required sidewalk width does not relate to the 2011 Non-Motorized Master Plan. Width is not required to provide width for bicycle path use. We will be seeking this deviation for not providing the 12.5' sidewalk along 11 Mile Rd. A 5.8' sidewalk exists and will remain. See Deviation request #22.
- Development Amenities (Page 9)(Sec. 3.27.1.L): Lighting and Site amenities are provided with this submittal.
- Retail Space (Page 9)(Sec. 3.27.2.): A deviation is requested for the proposed building a Specialty Grocery Store. See Deviation request #15.
- Façade Materials (Page 10)(Sec. 3.27.1.G): See response to Façade Review Letter dated July 29, 2019. See Deviation request #13.

Mixed Use Developments (Sec. 4.25)

- Uses (Page 10): Phase 2 has been revised to provide a range of proposed development density and uses. See Sheet P1.1.

Mixed Use Guidelines (Sec. 4.82.2)

- Number of Rooms and Parcel Area (Page 11)(Sec. 4.82.2.A): See Sheets R-7 and 12-8 for room breakdown and Unit Floor Plans.
- Building Setbacks (Page 11)(Sec. 4.82.2.E): Building setbacks are shown on Sheets C2.1 and C2.2.



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- Parking Setbacks Off Street Parking (Page 12)(Sec. 4.82.2.F): This setback deviation has been eliminated - see Sheet C2.5.
- Usable Open Space (Page 12)(Sec. 4.82.G): See GMA response to Landscape Review Letter dated July 22, 2019. See Deviation request #9.

Note: Unit mix is shown on Sheet P1.1.

Minimum Off Street Parking Per Unit (Sec. 4.82.2)

- Total Spaces Required (Page 14): This proposal exceeds the parking demand as provided in Parking Study.

Parking Loading and Dumpster Requirements (Sec. 5.3)

- Required Parking Calculation (Page 14)(Sec. 5.2.12, Sec. 4.82.2): Shared Parking Study has been amended to consider range of Phase 2 uses. Maximum density proposed development scenario has not been increased. Baseline density traffic generation is significantly lower.
- Parking Space Dimensions (Page 14)(Sec. 5.3.2): Some drive dimensions have been revised. See Sheet C2.1 and C2.2 and response to Traffic Review Letter dated July 25, 2019.
- Parking Stall Located Adjacent to Lot Entrance (Page 14)(Sec. 5.3.13): Parking west of building C has been revised. See Sheet C2.1. See Deviation request #2.
- Barrier Free Spaces (Page 15): Phase 2 range of uses, and parking have been revised.
- Barrier Free Space Dimensions (Page 15): All spaces are compliant. Phase 2 developer provided parking garage has been eliminated, but space is shown for a city-provided structure if desired. See Sheet C2.1 and P1.1.
- Barrier Free Signs (Page 15): Barrier free signs are shown on Sheet C2.1 and C2.2.
- Minimum Number of bicycle Parking (Page 15)(Sec. 5.16.1): Bike racks are shown on Sheets C2.1, C2.32, L301 and L302.
- Bicycle Parking General Requirements (Page 15)(Sec. 5.16): Bike racks are shown on Sheets C2.1, C2.2, L301 and L302.
- Loading Space Area (Page 16)(Sec. 5.4.2.B): Loading spaces are located in interior side yards. See Sheet C2.4 for service truck routes. Building lengths are shown on sheets C2.1 and P1.1. See Sheet C2.1 for service area sizes. See Deviation request #14.



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- Loading Space Screening (Page 16)(Sec. 5.4.2.B): All dumpsters are screened with masonry walls matching the buildings. See Sheet P4.2 for screening details. While loading areas are screened with a combination of masonry walls and landscape. See Sheets L301 and L302.
- Dumpster (Page 16)(Sec. 4.19.2.F): See Sheets C2.1 and P1.1 for dumpster locations, and Sheet P4.2 for screening details.
- Dumpster Enclosure (Page 17)(Sec. 21-145.C Chapter 21): See Sheet P4.2 for dumpster screening details.

Parking, Handicap Parking and Bike Requirements

- Required Parking Calculations (Page 17)(Sec. 5.2.12, Sec. 4.82.2): See Sheet C2.0 for revised parking calculations. Phase 2 provides a range of development uses and intensity. See /Sheet C2.0 for parking calculations. See Amended Parking Study.

Lighting and Photometric Plan (Sec. 5.7)

- Intent (Page 18)(Sec. 5.7.1): A more comprehensive Photometric Plan is included with this submittal. See Photometric Sheets 1 and 2.
- Lighting Plan (Page 18)(Sec. 5.7.2.A.I): See Photometric Sheets 1 and 2 for revised plan.
- Building Lighting (Page 19)(Sec. 5.7.2.A.III): Linear LED fixtures are called out on Sheets P4.3 and P4.4, as well as on Photometric Sheet 1.
- Lighting Plan (Page 19)(Sec. 5.7.2.A.II): A more comprehensive Photometric Plan is included with this submittal. See Photometric Sheets 1 and 2.

Building Code and Other Requirements

- Exterior Building Wall Materials (Page 21)(Sec. 5.15, Sec. 3.27.1.G): See response to Façade Review Letter dated July 29, 2019. See Deviation request #13.
- Roof Top Equipment (Page 21)(Sec. 4.19.2.E.II): See Sheets P4.1, P4.2, P4.3 and P4.4. Building Elevations and General Note #3 address this issue.
- Building Code (Page 21): Sidewalks are now shown connecting sidewalks to exits.
- Design Construction Standards (Page 21): See Sheet C2.0 for lot lines.
- Economic Impact (Page 21): Will be provided prior to Planning Commission Meeting.



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- Signage (Page 21): See Sheets P4.1, P4.2, P4.3 and P4.4 for proposed building signage and Sheet P4.5 for proposed site signage. – see Deviation requests #18 and #19.
- Property Address (Page 22): Property address application will be submitted after Final Site Plan Approval.
- Property Split/Combination (Page 22): Lot combination will occur prior to Final Site Plan Approval.
- Easements (Page 22): See response to Wetland and Woodland Review Letters dated July 19, 2019.

Façade Ordinance Review

- A façade sample board is included with this submittal (Sec. 5.15.4.D).
- This response addresses Buildings A, B and C only. Building D has been combined with Building A, thus eliminated.

Building A (Formerly A & D)

- Brick and C-Brick have been added to all facades to become nearly compliant.
- Fiber cement has been reduced to become compliant.
- EIFS has been reduced to become nearly compliant.
- GFRC Panels have been reduced to become compliant.
- Precast concrete has been eliminated to become compliant.

See Sheets P4.1 and P4.2 for material calculations and possible Section 9 façade waivers required.

Building B

- Brick has been added to all facades to become nearly compliant.
- Flat metal panels have reduced on all facades but will still require a Section 9 façade waiver.
- EIFS has been reduced on all facades maintaining compliance.
- Cast stone has been eliminated on all facades.
- Trim remains compliant.

See Sheet P4.3 for material calculations and possible Section 9 façade waivers required.



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Building C

- Brick has been added to all facades to become compliant.
- Flat metal panels have been reduced on all facades to become compliant.
- Fiber cement siding has been removed from this building.
- Spandrel Glass has been reduced on South Elevation.
- EIFS has been reduced and is nearly compliant.
- Cast stone remains compliant.
- C-Brick has been removed from this building.
- Trim remains compliant.
- In addition, glass and aluminum storefront has been added to the South Elevation.
- The second level has been removed from restaurant C-100.

See Sheet P4.4 for material calculations and possible Section 9 Façade Waivers required.

See Sheet P1.1 for removal of restaurant C-100 second level.

- See separate response letter addressing residential buildings.
- Materials for Buildings A, B and C have been significantly changed to bring the facades more into compliance and reduce required Section 9 façade waivers required.
- Façade material sample boards are now included with this submittal.
- Color building elevations are now included with this submittal.
- A written Architectural Design statement is included with this submittal.

NEEPER

- This response addresses Residential Building types 100 and 200.

Building Type 100

- Brick has been increased on all facades.
- Siding has been reduced.

See Sheets R1 thru R4 for material calculations and possible Section 9 façade waivers required.

Building Type 200

- Brick has been increased on all facades.
- Siding has been reduced.



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See Sheet R5 and R6 for material calculations and possible Section 9 façade waivers required.

- Brick levels have been increased to bring the facades more into compliance and reduce required Section 9 façade waivers required.
- Façade material sample boards are now included with this submittal.
- Color building elevations are now included with this submittal.
- Pedestrian level renderings are now included with this submittal.
- A written Architectural Design statement is included with this submittal.

PEA

Comments (Page 3)

1. Parcel lines have been shown on Sheet C-2.0 and P1.1.
3. The Rezoning Sign Location Plan has been added to the plan set as Sheet C-1.6.
4. Two alternative options for the mix of uses have been provided. Refer to sheets C-2.1 and C-2.3.

2. Design and Layout Concerns (Pages 4-5)

- a. Turning radii have been modified to meet turning movement requirements and Vehicle Access Plans (sheets C-2.7 and C-2.8) have been added to the plan set.
- c. Loading areas for buildings G and H will be coordinated with the architect.
- d. Two alternative options for the mix of uses have been provided. Refer to sheets C-2.1 and C-2.3.
- g. The Phase 1 Shared Parking Study has been revised on Sheet C-2.0 to show 438 required parking spaces. We are proposing 446 parking spaces.

Review Concerns (Pages 9-10)

- Engineering: All comments have been addressed. Refer to Engineering Review Response Letter attached.
- Woodlands: Sheets T-1.0 and T-1.1 have been updated, and Sheet L101 has been revised accordingly.
- Wetlands: Impacts to the wetland and wetland buffer areas have been indicated on sheets C-1.4 and C-1.5.

4. Environmental Stewardship (Page 11)

- a. Wetlands – Proposal includes a combination of several options per the letter from the Atwell Group. Woodlands – Proposal includes a combination of on-site replacement and any remaining required woodland replacement credits that have not been met through on-site plantings (114.5 total credits, per the woodland replacement plan) will be met through a \$400/credit contribution to the City of Novi Tree Fund.



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Ordinance Deviations Requested (Pages 13-14)

1. Deviation required for Alternate Phase 2 Building E not meeting building frontage requirement (Sec.3.1.26.D) - See Deviation request #8.
3. The third entrance onto Grand River has been eliminated.
4. Deviation for the 0' wetland natural feature setback is required - See Deviation request #4.
5. Dimensions have been provided on sheet C-2.1 and C-2.2.
7. Setback dimensions have been provided on sheets C-2.5 and C-2.6.
9. Dimension has been provided on sheet C-2.1 and C-2.2.

11. Loading areas have been quantified on sheet C-2.1. See Deviation request #14.
13. Bike parking will be provided on residential portion of site.
Additional deviation required from the engineering design standards for the east detention basin:
 - A waiver from the 25-foot vegetated buffer requirement has been requested through the PRO agreement.

Additional Deviations (Page 15)

3. Refer to sheet C-2.2 for 20' Drive Aisle detail - see Deviation request #20.

General

1. The non-domestic user survey form will be provided during the preliminary site plan submittal.
2. A sign legend is provided on sheet C-2.1 along with the requested note.
3. The requested note has been added to sheet C-2.0.
4. Refer to landscape plans for tree placement.
5. Soil boring information will be provided DURING FINAL SITE PLAN SUBMISSION.
6. The Eleven Mile ROW and additional proposed ROW have been labeled.
7. The Grand River ROW and additional proposed ROW have been labeled.

Water Main

9. The size of all domestic and fire leads has been labeled and the materials are noted in the general utility notes on Sheet C-5.0.
10. Utility profiles will be provided during final site plan submittal.
11. The MDEGLE water main permit application will be provided during final site plan submittal.

Sanitary Sewer

12. Monitoring manholes have been provided on each non-residential building sanitary lead.
13. Utility profiles will be provided during final site plan submittal.
14. The MDEGLE Sanitary permit application will be provided during final site plan submittal.



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& ASSOCIATES, L.L.C.**



Storm Sewer

All Storm sewer comments will be addressed during final site plan submittal.

Storm Water Management Plan

19. The storm water management plan has been designed in accordance with the Storm Water Ordinance and Chapter 5 of the Engineering Design Manual.
20. Storm water calculations will be provided during final site plan submittal.
21. Runoff coefficient calculations will be provided during final site plan submittal.
22. An adequate maintenance access route has been provided for both detention basins.
23. A waiver from the 25-foot vegetated buffer requirement has been requested through the PRO agreement.
24. A 3-foot permanent water surface has been provided in the west detention pond. For the east detention basin, City water quality standards will be met by utilizing mechanical pretreatment units.
25. A 4-foot wide safety shelf has been shown within the west detention pond. The east detention basin will not have permanent water, but will be dry with water quality units for pretreatment.
26. An emergency overflow spillway will be detailed during final site plan submittal.

Paving & Grading

27. Proposed contours will be provided during final site plan submittal.
28. The sidewalk in the ROW has been revised as requested.
29. Note #10 within the General Grading and Earthwork Notes has been added to Sheet C-4.1.
30. MDOT ramp details have been provided on Sheet C-7.0.
31. All barrier-free stalls will comply with Michigan Barrier-Free regulations.
32. Additional grades and curb heights will be provided during final site plan submittal.

Soil Erosion and Sediment Control

33. The SESC permit will be obtained during final site plan submittal.

Off-Site Easements

34. Any required off-site easements will be obtained prior to construction.

AECOM Review Memo

External Site Access and Operations:

- 1 N/A
- 2 N/A
- 3 N/A
- 4 Applicable signage has been added and is shown on sheet C-2.1.
- 5 Sight distance measurements have been provided on sheet C-2.0.
- 6 Sidewalk ramps
 - a Sidewalk ramp details will be provided as part of the final site plan submittal.



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Requested Deviations:

2a. The proposed distance from the ROW to the parking area east of multi-family residential building 3 is 6.06'. See Deviation request #5. The remainder of the parking spaces within a drive aisle are 25' from the ROW, as requested.

3a. This same parking area requires a deviation of 3.94' from the 10' required parking setback. See Deviation request #5.

4a. The loading zone required/provided areas have been provided on sheet C-2.1. Vehicle accessibility analysis has been provided on sheets C-2.7 and C-2.8.

Internal Site Operations

1b. Vehicle accessibility analysis has been provided on sheets C-2.7 and C-2.8.

1c. The radii have been revised and are shown on sheets C-2.1 and C-2.2.

1d. Curb heights will be detailed in the Final Site Plan submittal.

1f. Vehicle accessibility analysis has been provided on sheets C-2.7 and C-2.8.

1g. Trash receptacle locations are accessible by trash collection vehicles.

2b. Curb heights will be detailed in the Final Site Plan submittal.

2d. The parallel parking spaces have been dimensioned and are shown on sheet C-2.2.

Eii. The ADA parking and access striping has been adjusted and is shown on sheet C-2.1.

Eiii. Parking space dimensions have been updated and are shown on sheet C-2.1.

2f. The aisle widths have been adjusted in some cases, based on vehicle circulation analysis. Some 20' drive aisles remain - See Deviation request #20.

Gii1. Door locations have been added to the proposed commercial buildings, which should assist in the identification of distances from the bicycle parking locations.

2v. Bicycle parking details have been provided.

3a. Sidewalks have been identified throughout.

3b. MDOT sidewalk ramp details will be provided as part of the Final Site Plan submittal.

Signing and Striping

1a. Future submittals will include additional quantities and details, as requested.

1b. Sign callouts have been updated and are shown on sheet C-2.1.

1d. Signage has been added and is shown on sheet C-2.1.

1e. The stop sign dimensions have been updated on sheet C-7.0.

2a-e. Notes have been added to sheet C-7.0.

4. Detail has been added to sheet C-7.0

4a. Markings have been updated and are shown on sheets C-2.1 and C-2.2.

4b. The missing symbol has been added and is shown on sheet C-2.1.

GMA

Landscaping Review Letter (Page 2)

- EXISTING OVERHEAD/UNDERGROUND UTILITIES: Lighting fixtures including light poles have been added to Landscape Plan Sheets L201-L302.
- EXISTING TREES: Site was re-surveyed on September 10th, 2019, and additional trees were picked up within the stated 50 foot offset from all property lines. Additional trees were located within the NE corner and by the existing AutoZone property. Changes are reflected on Landscape Plan Sheets L101-L102.
- RESIDENTIAL BUFFERS: Where the southern parking bay is adjacent to B-3 zoning, the proposed maintained height of 6' above ground level for the evergreen hedge along this boundary has been noted on Sheet L401 and agreed to by the client.
- ADJACENT TO PUBLIC RIGHT OF WAY, GRA: Greenbelt trees have been spread across the site, and all Princeton Sentry Ginkgo trees within the greenbelt have been replaced with a larger variety of Ginkgo species in accordance with the city's provided list of acceptable street tree species. These changes are reflected on Landscape Pages L201 – L302.
- ADJACENT TO PUBLIC RIGHT OF WAY, 11M: Greenbelt trees have been spread across the site, and all Princeton Sentry Ginkgo trees within the greenbelt have been replaced with a larger variety of Maple in accordance with the city's provided list of acceptable street tree species. These changes are reflected on Landscape Pages L201 – L302.

Landscaping Review Letter (Page 3)

- ADJACENT TO PUBLIC RIGHT OF WAY, RESIDENTIAL: Due to the 10' setback as required by TC-1 zoning, we are proposing Crabapple trees in the Right-Of-Way as listed in the LDM for Under Utility Lines and narrow trees within the 10' greenbelt area. Changes are reflected on pages L201-L302.
- PARKING LOT LANDSCAPING: Parking lot islands have been called out and their area has been labeled in square feet on Landscape Plan Sheet L204. 9 islands have been added and/or expanded to meet minimum parking lot interior greenspace requirements. 7 of these proposed islands house new interior parking lot deciduous canopy trees. Changes are reflected on Landscape Plan Sheets L201-L302. See Deviation request #26.
- PARKING LOT LANDSCAPING: All interior greenspace, interior canopy trees, and perimeter trees have been significantly enhanced since previous submittal. Changes are reflected on Landscape Plan Sheets L201-L302. See Deviation request #26.
- BUILDING FOUNDATION LANDSCAPING: Building Foundation Plantings have been added north of Building C in the form of a 5' wide planting area, West and East of Building B in the form of in-ground planting beds, and South and West of Building A in the form of two 4' wide planter areas. Changes are reflected on Landscape Plan Sheets L201-L302.



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- **BUILDING FOUNDATION LANDSCAPING:** Building perimeter lines and calculation tables are included on Landscape Plan Sheet L203.
- **BUILDING FOUNDATION LANDSCAPING:** All special paving areas have been called out and their square footage has been labeled on Landscape Plan Sheet L203.

Landscaping Review Letter (Page 4)

- **MULTIFAMILY RESIDENTIAL LANDSCAPING:** Woodland replacement trees and interior street trees have been re-categorized to meet the Building Unit Tree Requirement. All parking/street perimeter tree requirements have been met before Woodland Replacement Trees were considered. The resulting deficiency in Woodland Replacement Trees will be made up through payments to the City of Novi Tree Fund at a rate of \$400/tree. Changes are reflected on Landscape Plan Sheets L201-L302.
- **MULTIFAMILY RESIDENTIAL LANDSCAPING:** The percentage of sub-canopy building unit trees has dropped from 31.6% to 25%. These changes are reflected on the Landscape Plan Sheets L301 and L302.
- **MULTIFAMILY RESIDENTIAL LANDSCAPING:** Due to the layout and configuration of proposed residential buildings, planting space can not be provided between the building garages and the driveways. Foundation planting areas have been provided between sides of each building where those sides abut internal driveways, as well as between the front of each building and the public right-of-way, wherever possible. See Deviation request #27.
- **STORM BASIN LANDSCAPE:** All large shrubs intended to meet the storm basin rim cover requirement have been re-categorized so as to no longer count toward the woodland replacement requirement, and the woodland replacement calculation has changed accordingly. Changes are reflected on Landscape Plan Sheets L101-L102.
- **STORM BASIN LANDSCAPE:** The locations of the existing phragmites have been added to the civil survey sheets and removal and management notes added to sheets L101 and L102.
- **PLANT LIST:** Various native plant species have been added to reduce the percentage of any one genus to less than 15%, any one species to less than 10%, as well as decreasing the proportion non-native plants to under 50%. Changes are reflected on Landscape Plan Sheets L101-L302, and on the Plant List Sheet L404.

Landscaping Review Summary Chart (Page 1)

- **OWNER/DEVELOPER CONTACT INFORMATION:** The information requested has been added to all Landscape Sheet title blocks.

Landscaping Review Summary Chart (Page 2)

- **EXISTING PLANT MATERIAL:** Site was re-surveyed on September 10th, 2019, and additional trees were picked up within the stated 50 foot offset from all property lines. Additional trees were located within the NE corner and by the existing AutoZone property. Tree protection fencing has been provided for all existing trees to remain which may be



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negatively impacted during construction. Changes are reflected on Landscape Plan Sheets L101-L102

- **EXISTING AND PROPOSED IMPROVEMENTS:**
 - All pavement/walk edges have been shown on Landscape Plans.
 - Conflict between Phase 1 walk around pond and phase 2 development will be resolved at the time of future Phase 2 development.
 - All proposed trees are located in areas that will not be impacted by future development with the exception of (2) Parking Lot perimeter trees located along the edges of parking area 4 and (26) Evergreen trees along the North side of the pond to contain onsite views.

Landscaping Review Summary Chart (Page 3)

- **EXISTING AND PROPOSED UTILITIES:** Lighting and all utilities are shown on Landscape Plan Sheets L201-L302.
- **SNOW DEPOSIT:** Snow deposit location and notes have been added to Landscape Plan Sheet L301.

Landscaping Review Summary Chart (Page 4)

- **BERM REQUIREMENTS:**
 - South Property Line: The proposed evergreen hedge height has been increased to 6' and note added to plant list to maintain hedge height of 6 ft.
 - Building 9 Buffer: We are proposing an evergreen hedge with densely planted deciduous canopy trees instead of the 6' wall – a Deviation is not required for this condition.
 - Buildings 3 and 5 Buffer: We are proposing an evergreen hedge with densely planted deciduous canopy trees instead of the 10-15 ft height wall – See Deviation request #25.

Landscaping Review Summary Chart (Page 5)

- **WALLS:** All walls have been called out on Landscape Plan Sheet 203

Landscaping Review Summary Chart (Page 6)

- **ROW LANDSCAPE SCREENING REQUIREMENTS, GREENBELT WIDTH:** All required greenbelt widths have been provided along all frontages with the exception of the TC-1 requirement of a 10' maximum building set back allowed along 11 Mile and the associated parking area to the east. Greenbelt widths are reflected on all Landscape Plan Sheets.
- **ROW LANDSCAPE SCREENING REQUIREMENTS, BERM WIDTH:** The Town Center Area Study allows for surface parking screening to include semi-transparent screen walls and fencing in conjunction with plantings as long as they meet opacity requirements (§1603.5). Landscape Plan Sheets L301-L302 have been updated to provide this screening requirement.

Landscaping Review Summary Chart (Page 7)

- **CANOPY DECIDUOUS OR LARGE EVERGREEN TREES:**
 - Princeton Sentry Ginkgo trees have been replaced with a variety of other species from the City of Novi approved street tree list available in the Landscape Design Manual
 - 1 canopy tree has been added along 11 Mile
 - Greenbelt trees have been spread out along 11 Mile and Grand River Ave.
 - Due to the 10' maximum setback as required by TC-1 zoning, we are proposing trees in the Right-Of-Way as listed in the LDM for Under Utility Lines and narrow trees within the 10' greenbelt area. Changes are reflected on pages L201-L302.

Landscaping Review Summary Chart (Page 8)

- **CANOPY DECIDUOUS TREES BETWEEN SIDEWALK AND CURB:** Cornus kousa have been replaced with Malus spp. Changes are reflected on Landscape Plan Sheets L302.
- **CROSS-SECTION OF BERMS:** All cross-sections of berms show a 6" top layer of topsoil. Berm cross-sections can be found on Landscape Detail Sheet L401.

Landscaping Review Summary Chart (Page 9)

- **PARKING AREAS, ISLANDS:** The SF for parking islands is provided on Landscape Plan Sheet L203. See Deviation request #26.
- **PARKING AREAS, CONTIGUOUS SPACE LIMIT:** Additional end-cap islands have been added in 3 of the 6 locations noted by Reviewers in the commercial section. Islands along the west bay of parking area 4 have been moved and expanded, and planted with a tree per Zoning Sec. 5.5.3.c.ii. See Deviation request #26.

Landscaping Review Summary Chart (Page 10)

- **PARKING AREAS, PLANTINGS AROUND FIRE HYDRANTS:** A 10' distance has been maintained between all proposed trees and all hydrants, manholes, and catch basins. A 5' distance has been maintained wherever possible between all proposed trees and all underground utility lines.

Landscaping Review Summary Chart (Pages 11-12)

- **PARKING LOT REQUIREMENTS:** See above response to Landscape Review Letter Page 3

Landscaping Review Summary Chart (Page 13)

- **TRANSFORMERS/UTILITY BOXES:**
 - Notes stating that all transformers and utility boxes shall be screened per city detail added to Landscape Plan Sheets.



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- City standard transformer screening detail added to Landscape Plan Sheet L403.
- **INTERIOR SITE LANDSCAPING:**
 - Commercial building foundation planting calculations have been provided on Landscape Plan Sheet L203.
 - Labels showing foundation landscaping area SF have been added to Landscape Plan Sheet L203.
 - Decorative paving details are added on Landscape Sheet L402, while decorative paving area square footages have been labeled on Sheet L203.
 - Proposed in-ground planters have been added to Landscape Sheet Plans L201-L302.
 - Foundation landscaping areas have been expanded around buildings in the commercial portion of the site.
 - Landscaping has been added adjacent to the outdoor seating areas near buildings B and A.

Landscaping Review Summary Chart (Page 15)

- **MULTIFAMILY RESIDENTIAL BUILDING LANDSCAPING:** Building unit trees have been added throughout the residential portion and meet the ordinance requirements.
- **INTERIOR STREET LANDSCAPING:** All perimeter calculations are shown on Landscape Plan Sheet L203.
- **FOUNDATION LANDSCAPING:** Due to the configuration of buildings within the residential portion of the site the developer does not feel that any plantings located between unit driveways will be able to thrive. A landscape deviation is being requested - See Deviation request #27.
- **DETENTION/RETENTION BASIN PLANTING:** East pond shrub plantings have been re-categorized and woodland replacement credits are revised accordingly. Changes are reflected on landscape plan sheets L101-L102.
- **PHRAGMITES CONTROL:** Existing locations and removal is included on Civil Plan Sheets. Phragmites removal and management notes have been added to sheet L101 and L102.

Landscaping Review Summary Chart (Page 17)

- **INSTALLATION DATE:** Planting dates have been added to Plant List Sheet L404.
- **OTHER INFORMATION:** "2509" has been changed in the bold final notes to 5.5.

Landscaping Review Summary Chart (Page 18)

- **BOTANICAL AND COMMON NAMES:** Various native plant species have been added to reduce the percentage of any one genus to less than 15%, any one species to less than 10%, as well as decreasing the proportion non-native plants to under 50%. Changes are reflected on Landscape Plans Sheets L101-L402.



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Woodlands Review Letter

- 1- Tree protection fencing has been provided for all existing trees (to remain) that may be impacted by the project. To the greatest extent possible, earthwork and other construction activities have been kept outside of all on-site city-regulated woodlands.
- 2- Tree removal and replacement information has been coordinated between GMA and PEA, and shown on sheets T-1.0, T-1.1, L101 and L102.
- 3- All proposed woodland replacement species are native to Michigan.
- 4- All proposed woodland replacement plant sizes are pursuant to Table 7.b.(2)(a).i of the Novi Landscape Design Manual.
- 5- The woodland replacement performance financial guarantee has been agreed to by the developer.
- 7- Any remaining required woodland replacement credits that have not been met through on-site plantings (114.5 total credits, per the woodland replacement plan) will be met through a \$400/credit contribution to the City of Novi Tree Fund.
- 8- All proposed woodland replacement plantings are located in areas that are not threatened by future development, and are grouped such that an easement, if mandated, can easily be drawn around them and granted to the city.

BERGMANN

AECOM Review Memo

5. The applicant should correct the minor errors as described in this review as well as clearly identify the improvements included in the Synchro models and whether it includes the mitigation measure deemed beyond the scope of this project. **Refer to the included September 19, 2019 Bergmann letter, a part of the Submittal Package.**

ATWELL

2. The 25-foot wetland and watercourse setback boundaries shall be indicated on the Plan.

Refer to Sheets C-1.3 and C-1.4 for the setback boundaries.



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3. It is unclear when the on-site wetlands were flagged and delineated. The applicant shall provide the date that the on-site wetlands were delineated and a wetland delineation report for the site if available.

Refer to the enclosed Wetland Delineation Report performed by Atwell, LLC

4. The current Plan includes but does not specifically indicate/quantify impacts to wetlands and wetland buffers. The applicant shall indicate, quantify and label all proposed impacts to these natural features on subsequent plan submittals. The area (square feet or acres) of wetland impacts shall be indicated on the Plan in addition to the proposed volumes of these impacts. The area (square feet or acres) of all impacts (both permanent and temporary) to the 25-wetland and watercourse setbacks shall be indicated on the Plan. The cubic yards of proposed wetland fill shall also be provided on subsequent site plan submittals.

Refer to Sheets C-1.3 and C-1.4 for impact calculations to wetlands.

5. If the applicant is unable to modify the Plan in order to decrease the overall impact to existing wetlands, subsequent site plan submittals shall provide details regarding the proposed wetland mitigation plan. This shall include the location of the proposed wetland mitigation area(s), grading, and planting details. Impacts to emergent wetlands shall be mitigated at a ratio of 1.5-to-1 and impacts to forested wetlands shall be mitigated at a ratio of 2.0-to-1.

The Applicant will mitigate at the appropriate mitigation ratios. Please refer to the enclosed mitigation proposals letter.

7. It should be noted that it is the Applicant's responsibility to confirm the need for a Permit from EGLE (formerly MDEQ) for any proposed wetland impacts. Final determination as to the regulatory status of any on-site wetlands (if applicable) shall be made by EGLE. The Applicant should provide a copy of this Wetland Use Permit application to the City (and our office) for review and a copy of the approved permit upon issuance. A City of Novi Wetland Permit cannot be issued prior to receiving this information.

The Applicant will provide the City of Novi with the EGLE permit application upon submittal. The permit application submittal is currently in draft and is anticipated to be sent to EGLE this month.

9. The applicant should ensure that any proposed snow storage areas are located such that any runoff will not directly affect any remaining on-site wetlands (if applicable) and/or watercourses.

Snow storage areas will be designed so that runoff will not directly affect the remaining on-site wetland.



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10. In subsequent plan submittals, ECT suggests that any proposed stormwater management plan be reviewed by the City of Novi Engineering Department to ensure that they meet the City of Novi design requirements.

The Applicant will ensure the stormwater management plan is reviewed by the City of Novi Engineering Department to ensure they meet the City of Novi design requirements.

Enclosures: Wetland Delineation Report (Atwell, LLC)
Applicant Mitigation Options



September 19, 2019

Mr. Josh Bocks, AICP, MBA
Senior Transportation Planner/Project Manager
AECOM
27777 Franklin Road
Southfield, MI 48034

Dear Mr. Bocks:

Thank you for your continued work and correspondence with Bergmann related to the Traffic Impact Study (TIS) for the proposed Sakura Way development project in the City of Novi, Oakland County, Michigan. We have received your July 25, 2019 review letter and offer the following responses to these comments as summarized below.

1. *The preparer has indicated that the widening of Grand River Avenue is beyond the scope of this project (stating that the development will only increase traffic by 15%), but has not clearly indicated if it was included in the improvements that provided the clear improvement in level of service at the signalized intersection of the study. If the project will not include the widening of Grand River Avenue, it should not be included in the improvements that are being proposed as part of this TIS.*

The widening of Grand River Avenue was included in the improvements that resulted in the improved level of service (LOS) at the signalized intersection of Grand River Avenue & Main Street / Town Center Drive; however, this project **is not proposing to include widening of Grand River Avenue** as this improvement is necessary regardless of the proposed development project to mitigate capacity deficiencies. Further analysis of the study network to exclude this improvement would not yield any tangible results with respect to traffic operations, beyond what have already been identified in the Sakura Way TIS and the AECOM Novi/Grand River Avenue Area Multi-Development TIS.

2. *The following errors exist in the table:*
 - a. *Table 7, Intersection 4, SB Lane 1 for AM peak, the applicant should resolve the typo in the delay – it should be 22.7 seconds, not 22.9*
 - b. *Table 7, Intersection 1, WB thru lane for PM peak, the applicant should revise the LOS to match the delay. The Synchro output states LOS F however that is inconsistent with other values and a delay of 75.1 seconds corresponds to LOS E.*

Please see revised Table 7 attached. Please note that delay and LOS values reported for the WB thru lane at intersection one during the PM peak are correct. In accordance with the Highway Capacity Manual, 6th Edition, any movement with a volume to capacity (v/c) ratio greater than 1.0 represents a failure (LOS F). As such a lane group can incur a delay less than 80 s/veh while the volume-to-capacity ratio exceeds 1.0. A footnote has been added to Table 7 to add further clarification.

3. *The following errors exist in the table:*
 - a. *Table 8, PM peak hour, NB right turn: Duplicates thru movement, should be 46.9 seconds delay with LOS D.*

Please see revised Table 8 attached.

We hope that this information provides adequate clarification to address the concerns of AECOM and the City of Novi with specific regard to the Traffic Impact Study.











Sincerely,

Steven J. Russo, PE
ASSISTANT PROJECT MANAGER, BERGMANN

Attached: Revised Table 7
 Revised Table 8


**Table 7: Future 2028 Traffic Conditions (Revised)**

Intersection	AM Peak Hour					PM Peak Hour					SAT Peak Hour				
	Approach					Approach					Approach				
1. Grand River Avenue & Main Street / Town Center Drive Signalized 	EB	11.0 B	29.4 C	6.8 A	6.8 A	EB	55.4 F	167.7 F	27.3 C	27.3 C	EB	46.1 D	84.7 F	38.9 D	38.8 D
	WB	16.1 B	11.7 B	17.3 B	10.7 B	WB	64.9 E	22.6 C	75.1 F	14.5 B	WB	46.6 D	26.4 C	53.1 D	15.5 B
	NB	66.3 E	58.6 E	60.1 E	72.8 E	NB	72.7 E	76.8 E	52.8 E	73.0 E	NB	62.2 E	57.4 E	60.4 E	69.6 E
	SB	141.9 F	57.5 E	54.3 D	189.3 F	SB	153.0 F	91.7 F	56.4 E	247.2 F	SB	120.9 F	118.1 F	54.9 D	144.8 F
	Overall		30.9	LOS	C	Overall		78.5	LOS	E	Overall		59.9	LOS	E
2. 11 Mile Road & Town Center Drive All-Way STOP 	EB	11.1 B	10.3 B		11.2 B	EB	26.1 D	12.3 B		26.3 D	EB	26.5 D	11.2 B		26.9 D
	WB	11.5 B	12.4 B		10.4 B	WB	52.0 F	45.6 E		57.1 F	WB	15.8 C	16.6 C		15.0 B
	NB	16.4 C	9.7 A		16.9 C	NB	31.2 D	16.9 C		37.1 E	NB	18.0 C	17.0 C		18.7 C
	SB	10.8 B	11.1 B		10.6 B	SB	18.1 C	14.2 B		19.3 C	SB	15.1 C	13.5 B		15.8 C
	Overall		13.3	LOS	B	Overall		37.8	LOS	E	Overall		19.1	LOS	C
3. Grand River Avenue & W. RIRO Drive Minor STOP 	EB	Free				EB	Free				EB	Free			
	WB	Free				WB	Free				WB	Free			
	SB	12.3 B			12.3 B	SB	17.1 C			17.1 C	SB	15.9 C			15.9 C
4. Grand River Avenue & Middle Site Drive Minor STOP 	EB	0.6 A	9.9 A	Free		EB	1.2 A	14.4 B	Free		EB	1.1 A	13.3 B	Free	
	WB	Free				WB	Free				WB	Free			
	SB	15.0 C	22.7 C	11.6 B		SB	28.4 D	54.1 F	17.9 C		SB	27.8 D	53.0 F	16.4 C	
5. Grand River Avenue & E. Site Drive Minor STOP 	EB	0.1 A	9.6 A	Free		EB	0.2 A	12.8 B	Free		EB	0.2 A	11.9 B	Free	
	WB	Free				WB	Free				WB	Free			
	SB	14.9 B	14.9 B			SB	22.6 C	22.6 C			SB	20.9 C	20.9 C		
6. 11 Mile Road & W. Site Drive Minor STOP 	EB	Free				EB	Free				EB	Free			
	WB	0.1 A	8.0 A	Free		WB	0.1 A	8.0 A	Free		WB	0.1 A	8.1 A	Free	
	NB	11.5 B	11.5 B			NB	17.6 C	17.6 C			NB	13.0 B	13.0 B		
7. 11 Mile Road & E. Site Drive Minor STOP 	EB	Free				EB	Free				EB	Free			
	WB	0.3 A	7.9 A	Free		WB	0.4 A	7.9 A	Free		WB	0.5 A	7.9 A	Free	
	NB	11.0 B	11.0 B			NB	16.6 C	16.6 C			NB	11.8 B	11.8 B		
8. 11 Mile Road & Residential Drive Minor STOP 	EB	Free				EB	Free				EB	Free			
	WB	0.1 A	7.7 A	Free		WB	0.1 A	7.6 A	Free		WB	0.1 A	7.6 A	Free	
	NB	10.3 B	10.3 B			NB	11.9 B	11.9 B			NB	10.1 B	10.1 B		

1. LOS F corresponds to a v/c ratio greater than 1.0.



Table 8: Future 2028 Traffic Conditions with Improvements (Revised)

Intersection	AM Peak Hour					PM Peak Hour					SAT Peak Hour				
	Approach	↶	↑	↷		Approach	↶	↑	↷		Approach	↶	↑	↷	
1. Grand River Avenue & Main Street / Town Center Drive Signalized 	EB	11.2 B	13.5 B	10.7 B	10.6 B	EB	8.8 A	36.4 D	1.9 A	1.8 A	EB	41.6 D	45.7 D	40.8 D	40.8 D
	WB	16.8 B	9.9 A	17.2 B	17.3 B	WB	29.1 C	9.1 A	30.1 C	30.3 C	WB	25.3 C	27.2 C	25.2 C	25.3 C
	NB	53.2 D	62.0 E	66.0 E	43.7 D	NB	58.4 E	61.0 E	71.6 E	46.9 D	NB	54.0 D	50.1 D	67.5 E	51.1 D
	SB	54.8 D	66.5 E	63.7 E	48.4 D	SB	65.9 E	80.0 F	67.4 E	52.7 D	SB	73.6 E	83.2 F	66.7 E	59.7 E
	Overall		20.6	LOS	C	Overall		31.0	LOS	C	Overall		41.4	LOS	D

CONSENT FROM PROPERTY OWNERS

Ecco Tool Co., Inc.
42525 W. Eleven Mile Road
Novi, Michigan 48375

October 2, 2019

Lindsay Bell, Planner
City of Novi
45175 Ten Mile Road
Novi, Michigan 48375

Re: Parcel ID# 22-23-126-011 & 22-23-226-007 ("Ecco Property")

Dear Ms. Bell:

Please be advised that Ecco Tool Co., Inc. (the "Company") has entered into a certain Real Estate Purchase Agreement dated June 21, 2018 to sell approximately 3.52 acres of the Ecco Property to Sakura Novi, LLC which is to be included as part of Sakura Novi, LLC's planned rezoning overlay. The Company agrees and acknowledges that all of the Company's property, including the property being retained by the Company (see the attached land division drawings and legal description prepared by PEA, Inc.) will be subject to rezoning by the City to the TC-1 zoning district pursuant to the planned rezoning overlay ("PRO") ordinance of the City, and consents to the rezoning. However, this acknowledgement is expressly conditioned upon Sakura Novi, LLC closing on the real estate pursuant to the June 21, 2018 contract. This acknowledgement and consent is also conditioned upon the continued use of the Company's retained property for manufacturing uses (light industrial) which includes, but is not limited to the Company's current use as a tool and die shop, together with the Company's right to retain any and all current real estate property tax exemptions for its tool and die business. This matter is further conditioned upon an agreement that the PRO will also include the company's access for delivery trucks on the retained property which may require cross access on the property or the Anglin property if the City does not permit delivery trucks to back into the Company's retained property; and also to provide Company with 12 parking spaces on the retained property or access to parking spaces on the property or the Anglin property to make up any shortfall if the 12 spaces cannot be provided on the Company's retained property.

Thank you for your cooperation in this matter.

Very truly yours,

Ecco Tool Co., Inc.

By: Floyd Peterson
Floyd Peterson, President

Subscribed and sworn to before me on October 2, 2019

Thomas C. Nemes
Notary Public

THOMAS C. NEMES
NOTARY PUBLIC, STATE OF MI
COUNTY OF OAKLAND
MY COMMISSION EXPIRES Oct 15, 2023
ACTING IN COUNTY OF Oakland

Mr. Michael Roberts
15701 25th Ave SW
Burien, Washington 98166

October 16, 2019

Lindsay Bell
City of Novi Planning Department
45175 Ten Mile Road
Novi, MI 48375

Re: Sakura Novi Project
Parcel ID# 22-23-226-022
Roberts Property

Dear Ms. Bell:

Please be advised that we have entered into a certain Real Estate Purchase Agreement dated May 15, 2019 to sell approximately 1.75 acres of property on the south side of 11 Mile Road, west of Meadowbrook Road, to be included as part of Sakura Novi, LLC's planned rezoning overlay. We agree and acknowledge that all of the property will be subject to rezoning by the City to the TC-1 zoning district pursuant to the planned rezoning overlay ("PRO") ordinance of the City, and consent to the rezoning. However, this acknowledgement is expressly conditioned upon Sakura Novi, LLC, on behalf of Robertson Brothers Co., closing on the real estate pursuant to the May 15, 2019 contract.

Please let me know if there are any questions.

Thank you.

By: 

Michael Roberts

Subscribed and sworn to before me on October __, 2019

Notary Public

October 16, 2019

Lindsay Bell
City of Novi Planning Department
45175 Ten Mile Road
Novi, MI 48375

Re: Sakura Novi Project
Parcel ID# 22-23-226-021
Stoychoff Property

Dear Ms. Bell:

Please be advised that we have entered into a certain Real Estate Purchase Agreement dated May 15, 2019 to sell approximately 1.75 acres of property on the south side of 11 Mile Road, west of Meadowbrook Road, to be included as part of Sakura Novi, LLC's planned rezoning overlay. We agree and acknowledge that all of the property will be subject to rezoning by the City to the TC-1 zoning district pursuant to the planned rezoning overlay ("PRO") ordinance of the City, and consent to the rezoning. However, this acknowledgement is expressly conditioned upon Sakura Novi, LLC, on behalf of Robertson Brothers Co., closing on the real estate pursuant to the May 15, 2019 contract.

Please let me know if there are any questions.

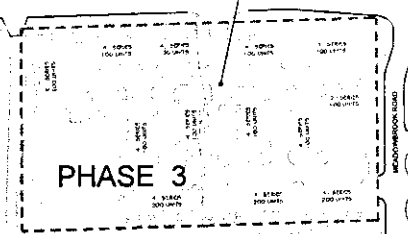
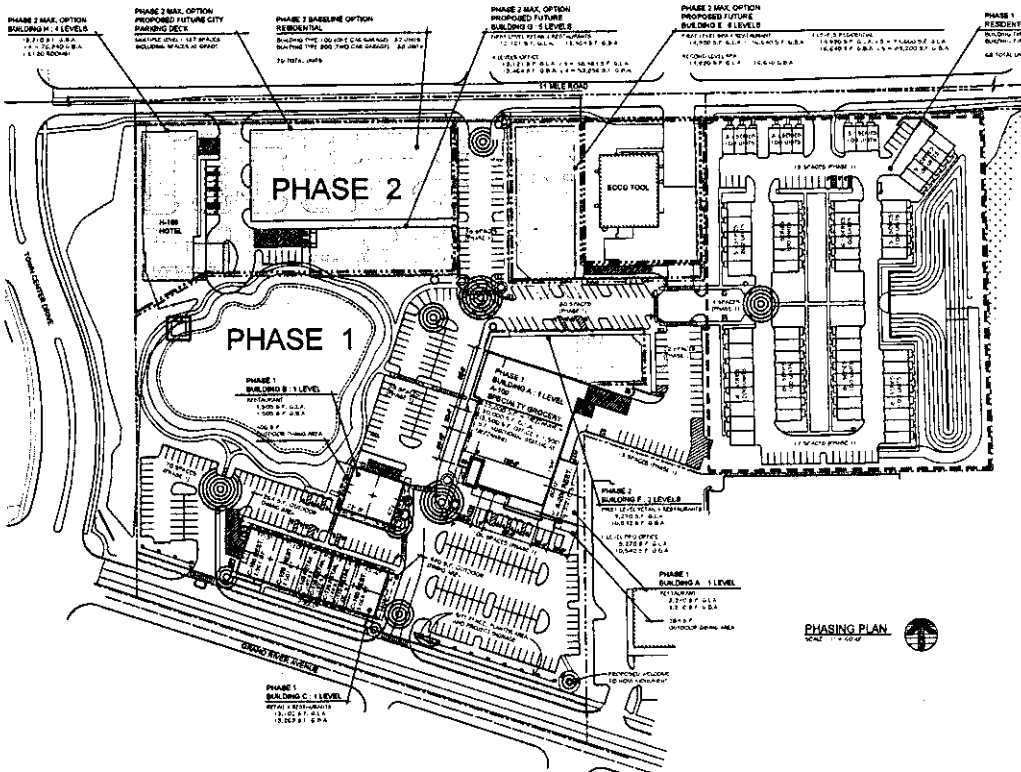
Thank you.

By: Paul M. Stoychoff
Paul M. Stoychoff, Personal Representative on behalf of the Estate of Eleanor Stoychoff

Subscribed and sworn to before me on October 24, 2019

Gabrielle Raeann Frey
Notary Public

GABRIELLE RAEANN FREY
NOTARY PUBLIC - STATE OF MICHIGAN
COUNTY OF OAKLAND
My Commission Expires September 04, 2025
Acting in the County of Oakland



TOTAL DEVELOPMENT SITE : 19 AC.

• PHASE 1	12.75 AC.
• PHASE 2	2.75 AC.
• PHASE 3	3.50 AC.
• ROBERTSON HOMES PARCEL (PHASE 1)	4.50 AC.
• ECCO PARCEL GRANDFATHER I-1 USE	0.90 AC.

**PHASES 1, 2, 3
MAX. DENSITY OPTION :
PROJECT CALCULATIONS**

PHASE 1: 30,000 S.F. MARKET (25,000 S.F. + 5,000 S.F. MEZZ. OFFICE) + 1,600 S.F. MEZZ. ADDITIONAL SEATING

PHASE 2: 5,000 S.F. RESTAURANT (GROUND FLOOR) + 25,000 S.F. SPA (GROUND FLOOR & 2ND FLOOR) + 48 RESIDENTIAL UNITS (FLOOR 3, 4, 5 & 6) (18 - 1 BEDROOM & 32 - 2 BEDROOM UNITS)

PHASE 3: 52 TOWNHOME APARTMENTS (50 - 1,184 S.F. & 12 - 1,541 S.F. UNITS) + 164 PARKING SPACES

- PHASE 1 USES :**
- 30,000 S.F. MARKET (25,000 S.F. + 5,000 S.F. MEZZ. OFFICE) + 1,600 S.F. MEZZ. ADDITIONAL SEATING
 - 5 RESTAURANTS
 - 4 RETAIL SPACE
 - 68 TOWNHOME APARTMENTS (50 - 1,184 S.F. & 12 - 1,541 S.F. UNITS) + 121 PARKING SPACES + 162 UNITS PER ACROSS
 - LIGHT INDUSTRIAL USE ECCO TOOL CO. PARCEL GRANDFATHERED IN

- PHASE 2 MAX. DENSITY OPTION
POTENTIAL PHASE 2 USES :**
- BUILDING E PODIUM: 5,000 S.F. RESTAURANT (GROUND FLOOR) + 25,000 S.F. SPA (GROUND FLOOR & 2ND FLOOR) + 48 RESIDENTIAL UNITS (FLOOR 3, 4, 5 & 6) (18 - 1 BEDROOM & 32 - 2 BEDROOM UNITS)
 - BUILDING F: 3,000 S.F. RESTAURANT (GROUND FLOOR) + 6,000 S.F. RETAIL (GROUND FLOOR) + 10,000 S.F. MULTI-TENANT OFFICE (2ND FLOOR)
 - BUILDING G: 2 - 3,000 S.F. RESTAURANTS (GROUND FLOOR) + 8,000 S.F. RETAIL (GROUND FLOOR) + 48,000 S.F. MULTI-TENANT OFFICE / PRO OFFICE (FLOOR 2, 3, 4 & 5)
 - BUILDING H: 120 ROOM HOTEL
 - PARKING DECK: 442 SPACES INCLUDING SPACES AT GRADE

- PHASE 2 BASELINE OPTION
RESIDENTIAL :**
- 70 TOWNHOME APARTMENTS (52 - 1,184 S.F. & 18 - 1,541 S.F. UNITS) + 148 PARKING SPACES
- PHASE 3 :**
- 52 TOWNHOME APARTMENTS (50 - 1,184 S.F. & 12 - 1,541 S.F. UNITS) + 164 PARKING SPACES

**PHASING PLAN
SAKURA • NOVI**

Robert B. Aikens & ASSOCIATES, L.L.C.
250 N. Oak Street, Suite 200
Birmingham, AL 35202-3001
Phone: 205-251-1000
Fax: 205-251-1001
www.rbaa.com

Wah Yee Associates
ARCHITECTS & PLANNERS
10000 RIVERCHASE BLVD., SUITE 100
BIRMINGHAM, AL 35244
Phone: 205-988-1111
www.wahyee.com

PRELIMINARY
NOT FOR CONSTRUCTION
DATE: 05/11/11
DRAWING NO.: PHASING PLAN PL000001

SAKURA • NOVI

NOVI, MICHIGAN

OWNER:

Robert B. Aikens & Associates, L.L.C.
350 N. Old Woodward Avenue, Suite 300
Birmingham, MI 48009 ph: 248-283-1071

ARCHITECTS & PLANNERS:

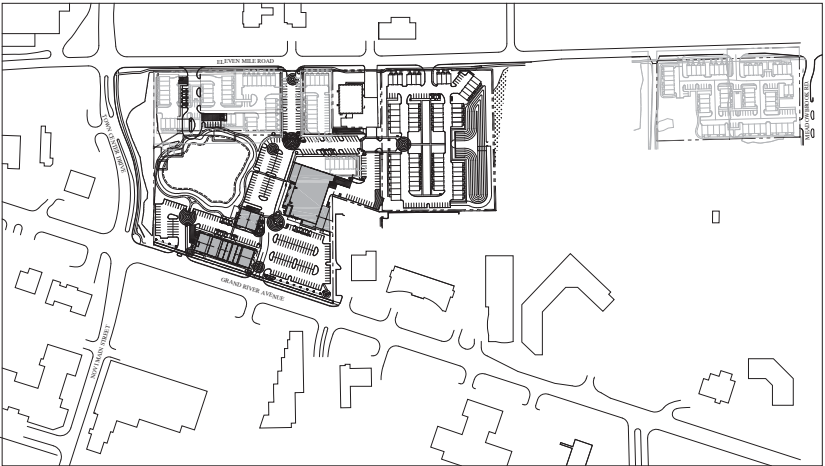
WAH YEE ASSOCIATES
ARCHITECTS & PLANNERS
42400 GRAND RIVER AVENUE, SUITE 200
NOVI, MICHIGAN 48075
PHONE 248.489.9160

CIVIL ENGINEERS:

PEA, Inc.
2430 Rochester Ct., Ste. 100
Troy, MI 48063-1872
T: 248.689.9090
F: 248.689.1044
www.peainc.com

LANDSCAPE ARCHITECTS:

GRISSIM METZ ASSOCIATES
ANDRIESE
Landscape Architecture
311 East Cady St., Suites A & B
Northville, MI 48167



VICINITY MAP
SCALE: NOT TO SCALE



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C-4.2	PRELIMINARY GRADING PLAN - EAST
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P4.2	BUILDINGS A ELEVATIONS
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P4.4	BUILDING C ELEVATIONS
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L202	LANDSCAPE ORDINANCE PLAN
L203	LANDSCAPE ORDINANCE PLAN
L204	OPEN SPACE, BICYCLE AND PEDESTRIAN PLAN, PHASE 1
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L302	LANDSCAPE PLANTING PLAN
L401	SITE DETAILS
L402	SITE DETAILS
L403	LANDSCAPE NOTE AND DETAILS
L404	PLANT LIST

PHOTOMETRICS	
1 OF 2	PHOTOMETRIC PLAN
2 OF 2	DETAILS AND FIXTURE CUT SHEETS

REVISED PRO SUBMITTAL

SAKURA • NOVI

NOVI, MICHIGAN

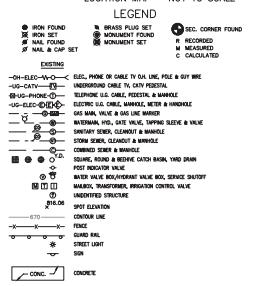
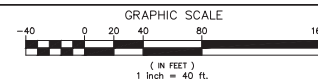
Robert B. Aikens & Associates, L.L.C.
350 N. Old Woodward Avenue, Suite 300
Birmingham, MI 48009 ph: 248-283-1071

WAH YEE ASSOCIATES
ARCHITECTS & PLANNERS
42400 GRAND RIVER AVENUE, SUITE 200
NOVI, MICHIGAN 48075
PHONE 248.489.9160
PROJECT NO. 5035

PRELIMINARY
NOT FOR CONSTRUCTION
P00.0

CAD DWG 5035 P00 10-2-19.DWG

ISSUED FOR
PRE-APP MEETING
MAY 8, 2019
PRO REZONING
JUNE 28, 2019
PRO REZONING
REVISED SUBMITTAL
OCTOBER 2, 2019



	ASPHALT
	GRAVEL DRAINAGE
	RETARD

REFERENCE DRAWINGS

WATER MAIN	CITY OF NEW GDS MAP, DATED 12-13-18
SEWAGE MAIN	CITY OF NEW GDS MAP, DATED 12-13-18
STORM SEWER	CITY OF NEW GDS MAP, DATED 12-13-18
GAS	CONSUMERS ENERGY MAP, 01-08-23-2, DATED 10-11-18
OTHER	FEA ALTA, DATED 11-14-18

FLOODPLAIN:
By graphical plotting, the subject parcel is in "Area determined to be outside of the 0.2% annual chance floodplain. (Zone X)" per FEMA Flood Insurance Rate Map Numbers 26125C-0626F & 0627F, Effective September 29, 2006.

BENCHMARKS

BM #1431
"X" ON NORTH RIM OF SANITARY MANHOLE LOCATED 25 FEET
NORTH BACK OF CURB OF 11 MILE ROAD, 25 FEET WEST OF
SOUTH 1/4 POST SECTION 14, AND IN FRONT OF BUILDING
#42500 11 MILE ROAD.

LEGAL DESCRIPTION (EAST PARCEL A)
(Per Amrock, Inc. Commitment File No. 64650648, effective date June 13, 2018)
Tax Id Number(s): 22-23-126-011, 22-23-226-007

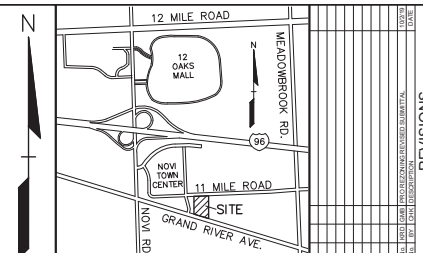
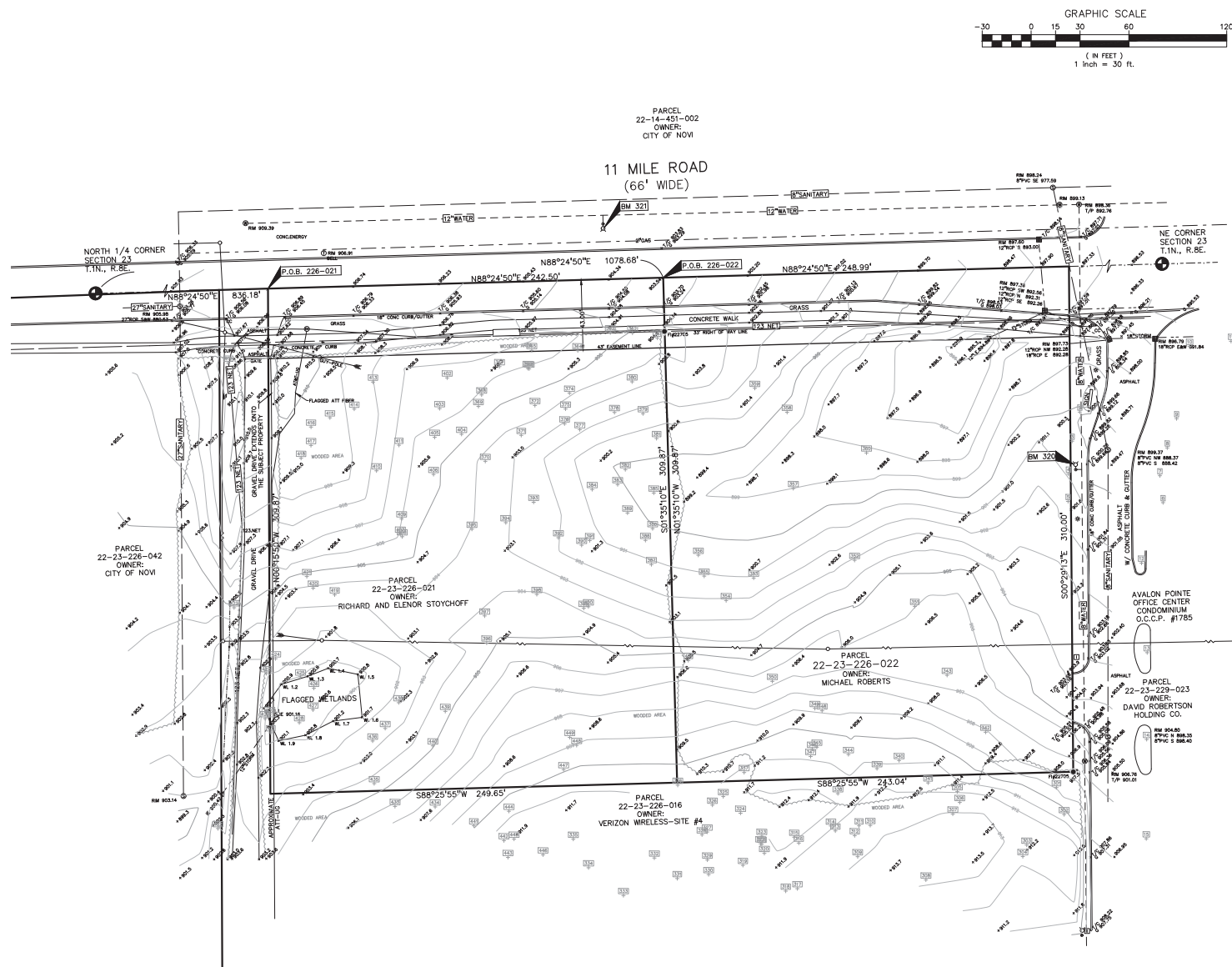
[illegible]

LEGAL DESCRIPTION (EAST PARCEL B)
(Per Amrock, Inc. Commitment File No. 65113081, effective date October 24, 2018)

Part of the Northeast 1/4 of Section 23, Town 1 North, Range 8 East, described as: Beginning at a point distant North 89 degrees 00 minutes East, 99.51 feet from the North 1/4 corner of Section 23, thence North 89 degrees 00 minutes East, 165.14 feet; thence South 0 degrees 44 minutes 20 seconds East, 527.55 feet; thence South 89 degrees 00 minutes West, 165.14 feet; thence North 0 degrees 44 minutes 20 seconds West, 527.55 feet to the point of beginning.

NOT FOR CONSTRUCTION XREF: R:\PROJECTS\2018\2018033\DWG\18033-TOPBASE.DWG
XREF: R:\PROJECTS\2018\2018033\DWG\SITE PLANS\X-BASE-18033.DWG
XREF: R:\PROJECTS\2018\2018033\DWG\SITE PLANS\X-TRUK-18033.DWG








[illegible]



LEGEND

● IRON FOUND	■ BRASS PLUG SET	● SEC. CORNER FOUND
■ IRON SET	● MONUMENT FOUND	R RECORDED
■ NAIL FOUND	■ MONUMENT SET	M MEASURED
■ NAIL & CAP SET		C CALCULATED

LEGEND	
—O—ELEC—VOLT	ELEC. PHONE OR CABLE TO GAS LINE, POLE & GUY WIRE
—O—ELEC—GND	UNDERGROUND CABLE TO GAS LINE
—O—GAS—PHONE	TELEPHONE LINE CABLE, FEEDLINE & MAINLINE
—O—GAS—ELEC	ELECTRIC LINE CABLE, MAINLINE, METER & MAINLINE GAS MARK VALVE & GAS LINE MARKER
—O—GAS—WATER	WATERMAIN, PIPE, GATE VALVE, TAPPING SLEEVE & VALVE
—O—GAS—SEWER	SEWERTY SEWER, CLEANOUT & MAINLINE
—O—GAS—SEWER	SEWER SEWER, CLEANOUT & MAINLINE
—O—GAS—SEWER	COMBINED SEWER & MAINLINE
—O—GAS—SEWER	SQUARE, ROUND & REDUCT. CATCH BASIN, DRAIN YARD
—O—GAS—SEWER	PIPE REGULATOR VALVE
—O—GAS—SEWER	WATER VALVE, STOP/ISOLATION VALVE BOX, SERVICE SHUTOFF
—O—GAS—SEWER	WATER, GAS, SEWER, IRRIGATION CONTROL VALVE
—O—GAS—SEWER	UNDERGROUND STRUCTURE

 SPOT ELEVATION
 CONTOUR LINE
 FENCE
 GUARD RAIL
 STREET LIGHT
 SIGN
 CONCRETE

ASPHALT

GRAVEL

WETLAND

REFERENCE DRAWINGS

WATER MAIN	CITY OF NOM GS MAP, DATED 12-13-18
SANITARY SEWER	CITY OF NOM GS MAP, DATED 12-13-18
STORM SEWER	CITY OF NOM GS MAP, DATED 12-13-18
GAS	CONSUMERS ENERGY MAP# 01-58-23-2, DATED 10-11-18
OTHER	PEA ALTA, DATED 11-14-18

***WE HAVE NOT ALL RECEIVED FRANCHISE UTILITY MAPS AS OF DECEMBER 17, 2018

CAUTION!!
THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE DRAWINGS ARE ONLY APPROXIMATE. NO GUARANTEE EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

THE DRAWINGS AND DESIGN ARE THE PROPERTY OF PEA, INC. AND ARE SUBMITTED ON THE CONDITION THAT THEY ARE NOT TO BE USED, REPRODUCED, OR COPIED, IN WHOLE OR IN PART, OR USED FOR PURPOSES OR INFORMATION TO OTHERS, WITHOUT THE PRIOR WRITTEN CONSENT OF PEA, INC. ALL COMBINED LAWFUL RIGHTS ARE HEREBY RESERVED. © 2018 PEA. ALL RIGHTS ARE SPECIFICALLY RESERVED.

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSURE SOLID AND COMPLETE RESPONSES FOR ALL SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO MAINTAIN INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT EXCEPTING LIABILITY

**3 FULL WORKING DAY
BEFORE YOU DIG CALL**

811



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(714) 482-7171



PEA, Inc.
2430 Rochester Ct., Ste. 100
Troy, MI 48063-1872
t: 248.689.9090
f: 248.689.1044
www.peainc.com

ROBERT B. AIKENS & ASSOCIATES, LLC
350 OLD BRIDGEWAY, SUITE 300
BIRMINGHAM, AL 35202

**TOPOGRAPHIC SURVEY - SAKURA EAST
SAKURA NOVI**
PART OF THE E 1/2 OF THE NW 1/4 OF SECTION 23, T.1N., R.8E.,
CITY OF NOVI, OKS AND COUNTY, MICHIGAN

DES.	GMB	DN	OKS	SUR	GWIC	P.M.	JPB
------	-----	----	-----	-----	------	------	-----

ORIGINAL ISSUE DATE:
JUNE 02, 2010

PEA JOB NO. 2018-033

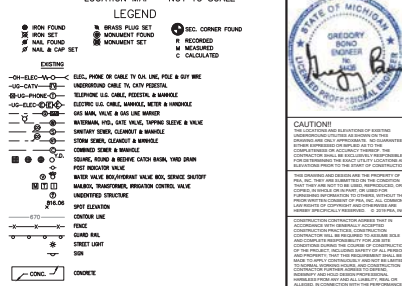
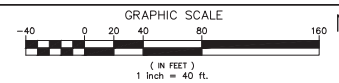
SCALE: 1" = 30'

DRAWING NUMBER:
010

C-1.3

NOT FOR CONSTRUCTION

C-1.3



	ASPHALT
	GRAVEL SHOULDER
	WELAND




REFERENCE DRAWINGS

WATER MAIN	CITY OF NEW GIG MAP, DATED 12-15-18
WETLAND SCENER	CITY OF NEW GIG MAP, DATED 12-15-18
STONE SCENER	CITY OF NEW GIG MAP, DATED 12-15-18
OTHER	CONDOMINIUMS EXIST MAP 20-09-23-2, DATED 10-11-18
	PEA AIA, DATED 11-14-18

FLOODPLAIN:
By graphical plotting, the subject parcel is in "Areas determined to be outside of the 0.2% annual chance floodplain. (Zone X)" per FEMA Flood Insurance Rate Map Numbers 26125C-0626F & 0627F, Effective September 29, 2006.

BENCHMARKS

BM #1431
"X" ON NORTH RIM OF SANITARY MANHOLE LOCATED 25 FEET
NORTH BACK OF CURB OF 11 MILE ROAD, 25 FEET WEST OF
SOUTH 1/4 POST SECTION 14, AND IN FRONT OF BUILDING
#42500 11 MILE ROAD.

LEGEND: NATURAL FEATURES SETBACK IMPACT  ADJ. PARCEL NATURAL FEATURES SETBACK IMPACT  WETLAND IMPACT 		243.0000 Troy, MI 48063-1872 t: 248.689.9090 f: 248.689.1044 www.pesinc.com
LLC	EAST	1E. 4PB

WETLAND NOTE:	
<u>NATURAL FEATURES SETBACK IMPACT:</u>	AREA
WETLAND 4:	0.59 AC
WETLAND ON ADJ. PARCEL:	0.25 AC
TOTAL:	0.84 AC
<u>WETLAND IMPACT:</u>	AREA
WETLAND 4:	0.90 AC
TOTAL:	0.90 AC

ROBERT B. AIKENS & ASSOCIATES, LLC
 350 OLD WOODWARD AVE., SUITE 200
 BIRMINGHAM, AL 35209

**NATURAL FEATURES IMPACT PLAN - EAST
 SAKURA NOVI**

PART OF THE E 1/2 OF THE NW 1/4 OF SECTION 23, T.1N., R.8E.,
 CITY OF NOVI, OAKLAND COUNTY, MICHIGAN

DES.	GMB	DN.	JKS	SUR.	GWG	P.M.	JPB
------	-----	-----	-----	------	-----	------	-----

ORIGINAL ISSUE DATE: JUNE 27, 2019
PEA JOB NO. 2018-033
SCALE: 1" = 40'
DRAWING NUMBER: C-1.5

NOT FOR CONSTRUCTION

ZONING CHANGE PROPOSED FROM
OSC TO TC-1
For more information call:
Novi Community Development Department
248-347-0475

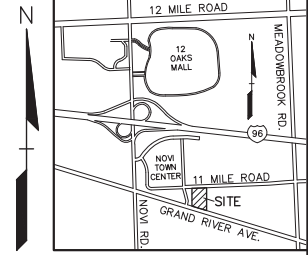
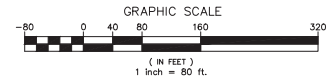
SIGN #1
N.E.L.

ZONING CHANGE PROPOSED FROM
I-1 TO TC-1
For more information call:
Novi Community Development Department
248-347-0475

SIGN #2
N.E.L.

ZONING CHANGE PROPOSED FROM
OS-1 TO TC-1
For more information call:
Novi Community Development Department
248-347-0475

SIGN #3
N.E.L.



LOCATION MAP - NOT TO SCALE

REVISIONS



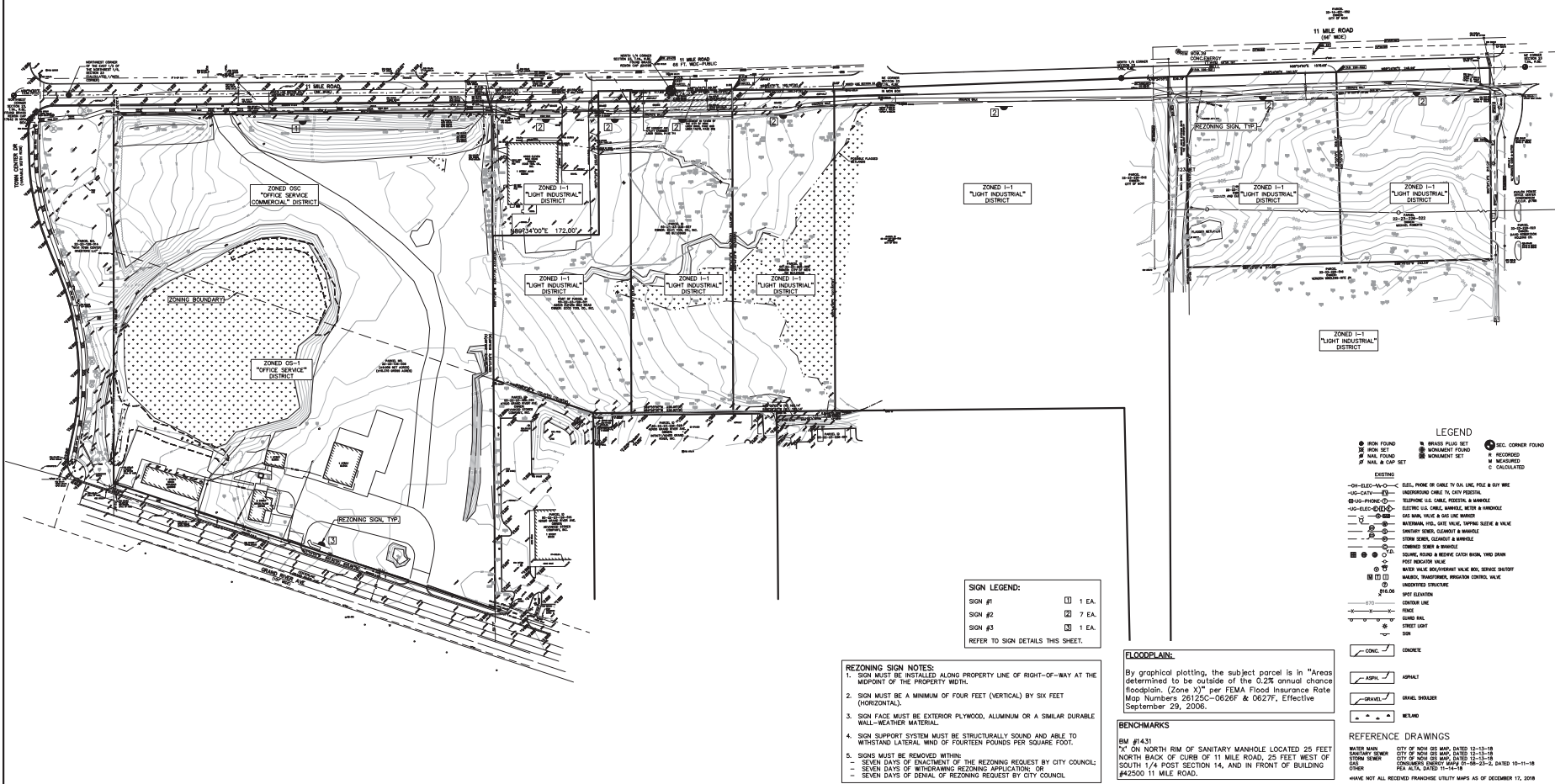
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1-800-482-7171 www.mssdig.org

PEA
PEA, Inc.
2430 Rochester Ct., Ste. 100
Troy, MI 48063-1872
T: 248.688.9090
F: 248.688.1044
www.peainc.com

ROBERT B. AKENS & ASSOCIATES, LLC
360 COLLEGE AVE., SUITE 200
BIRMINGHAM, AL 35203
REZONING SIGN LOCATION PLAN
SAKURA NOVI
PART OF THE E 1/4 OF THE NW 1/4 OF SECTION 23, T.1N., R.1E.,
CITY OF NOVI, OAKLAND COUNTY, MICHIGAN
DATE: 11-14-18
BY: [Signature]

ORIGINAL ISSUE DATE:
JUNE 27, 2019
PEA JOB NO. 2018-033
SCALE: 1" = 60'
DRAWING NUMBER:
C-1.6



SIGN LEGEND:

SIGN #1	1 EA.
SIGN #2	7 EA.
SIGN #3	1 EA.

REFER TO SIGN DETAILS THIS SHEET.

REZONING SIGN NOTES:

- SIGN MUST BE INSTALLED ALONG PROPERTY LINE OF RIGHT-OF-WAY AT THE MIDPOINT OF THE PROPERTY WIDTH.
- SIGN MUST BE A MINIMUM OF FOUR FEET (VERTICAL) BY SIX FEET (HORIZONTAL).
- SIGN FACE MUST BE EXTERIOR PLYWOOD, ALUMINUM OR A SIMILAR DURABLE WEATHER-RESISTANT MATERIAL.
- SIGN SUPPORT SYSTEM MUST BE STRUCTURALLY SOUND AND ABLE TO WITHSTAND LATERAL WIND OF FOURTEEN POUNDS PER SQUARE FOOT.
- SIGNS MUST BE REMOVED WITHIN:
- SEVEN DAYS OF ENACTMENT OF THE REZONING REQUEST BY CITY COUNCIL;
- SEVEN DAYS OF WITHDRAWING REZONING APPLICATION; OR
- SEVEN DAYS OF DENIAL OF REZONING REQUEST BY CITY COUNCIL.

FLOODPLAIN:

By graphical plotting, the subject parcel is in "Areas determined to be outside of the 0.2% annual chance floodplain. (Zone X)" per FEMA Flood Insurance Rate Map Numbers 26125C-0626F & 0627F, Effective September 29, 2006.

BENCHMARKS

BM #1431
2' ON NORTH RIM OF SANITARY MANHOLE LOCATED 25 FEET NORTH BACK OF CURB OF 11 MILE ROAD, 25 FEET WEST OF SOUTH 1/4 POST SECTION 14, AND IN FRONT OF BUILDING #42500 11 MILE ROAD.

REFERENCE DRAWINGS

WATER MAIN CITY OF NOVI GIS MAP, DATED 12-13-18
STORM SEWER CITY OF NOVI GIS MAP, DATED 12-13-18
STORM SEWER CITY OF NOVI GIS MAP, DATED 12-13-18
OTHER PEA DATA, DATED 11-14-18

NOTE: NOT ALL RECORDED FRANCHISE UTILITY MAPS AS OF DECEMBER 11, 2018

NOT FOR CONSTRUCTION

LEGAL DESCRIPTION (WEST PARCEL)

(Per Amrock, Inc. Commitment No. 64505972, Dated June 14, 2018, Revision #4)

Tax ID Number(s): 22-23-126-006

A parcel of land located in and being part of the east 1/2 of the northwest 1/4 of Section 23, T.1N., R.8E., City of Novi, Oakland County, Michigan, being more particularly described as follows:
Beginning at the North 1/4 Corner of said Section 23, thence proceeding N89°34'00"W 290.50' along the north line of said Section 23, and the centerline of Eleven Mile Road, thence S00°22'00"E 33.00' to the Point of Beginning; thence continuing S00°22'00"E 800.85', thence N77°44'00"W 651.60' along a line 50 feet north of and parallel to the centerline of Grand River Avenue (US-16); thence due North 156.00' to a point 33 feet south of the north line of said Section 23; thence N89°34'00"E 612.69' along a line 33 feet south of and parallel to the north line of said Section 23 to the point of beginning.

Client reference: 42750 Grand River Ave. Novi, MI 48375-1726

LEGAL DESCRIPTION (EAST PARCEL A)

(Per Amrock, Inc. Commitment File No. 64506648, effective date June 13, 2018)

Tax ID Number(s): 22-23-126-011, 22-23-226-007

Land situated in the City of Novi in the County of Oakland in the State of MI

A parcel of land situated in a part of the North 1/2 of Section 23, Town 01 North, Range 08 East, City of Novi, Oakland County, Michigan, being more particularly described as follows:
Beginning at the North 1/4 corner of Section 23, Town 01 North, Range 08 East, thence North 89 degrees 34 minutes 02 seconds East 99.53 feet along the centerline of 11 Mile Road (66 feet wide) and the North line of said Section 23, thence South 00 degrees 10 minutes 20 seconds East 527.55 feet; thence South 89 degrees 34 minutes 00 seconds West 238.08 feet; thence North 71 degrees 19 minutes 30 seconds West 170.41 feet; thence North 00 degrees 17 minutes 20 seconds West 233.00 feet to said centerline of 11 Mile Road and the North line of Section 23; thence along said North line North 89 degrees 34 minutes 00 seconds East 117.65 feet to the point of beginning. Containing 3.688 acres of land gross and 3.528 acres of land net of the 33-foot right-of-way.

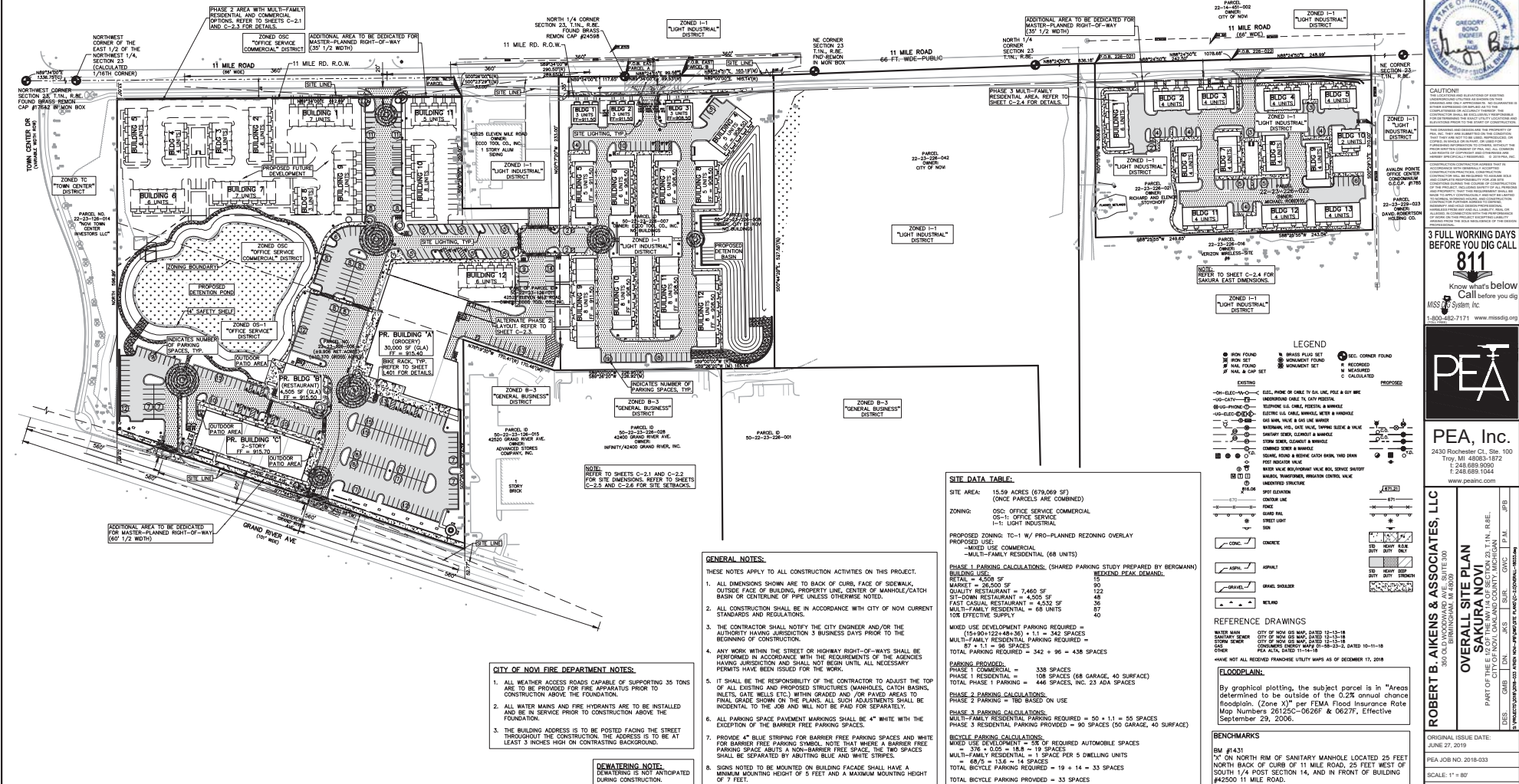
LEGAL DESCRIPTION (EAST PARCEL B)

(Per Amrock, Inc. Commitment File No. 65113081, effective date October 24, 2018)

Tax ID Number(s): 22-23-226-008

Land situated in the City of Novi in the County of Oakland in the State of MI

Part of the Northeast 1/4 of Section 23, Town 1 North, Range 8 East, described as: Beginning at a point distant North 89 degrees 00 minutes East, 99.53 feet from the North 1/4 corner of Section 23, thence North 89 degrees 00 minutes East, 165.14 feet; thence South 0 degrees 44 minutes 20 seconds East, 527.55 feet; thence South 89 degrees 00 minutes West, 165.14 feet; thence North 0 degrees 44 minutes 20 seconds West, 527.55 feet to the point of beginning.



NOT FOR CONSTRUCTION

ORIGINAL ISSUE DATE:

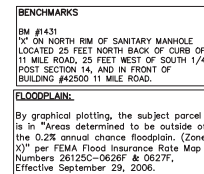
JUNE 29, 2018

PEA JOB NO. 2018-033

SCALE: 1" = 80'

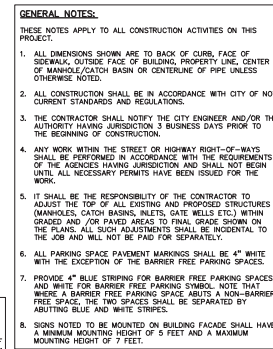
DRAWING NUMBER:

C-2.0



NOT FOR CONSTRUCTION

NOT FOR CONSTRUCTION



CITY OF NOVI FIRE DEPARTMENT NOTES:


1. ALL WEATHER ACCESS ROADS CAPABLE OF SUPPORTING 35 TONS ARE TO BE PROVIDED FOR FIRE APPARATUS PRIOR TO CONSTRUCTION ABOVE THE FOUNDATION.

2. ALL WATER MAINS AND FIRE HYDRANTS ARE TO BE INSTALLED AND BE IN SERVICE PRIOR TO CONSTRUCTION ABOVE THE

3. THE BUILDING ADDRESS IS TO BE POSTED FACING THE STREET

THROUGHOUT THE CONSTRUCTION, THE ADDRESS IS TO BE AT
LEAST 3 INCHES HIGH ON CONTRASTING BACKGROUND.

RUCTION XREF: S:\PROJECTS\2018\2018033\DWG\18033-TOPBASE.DWG
XREF: S:\PROJECTS\2018\2018033\DWG\SITE PLANS\X-RASE-18033.DWG



CAUTION!!
THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY AN INDICATION. VERIFICATION IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

THIS DRAWING AND DESIGN ARE THE PROPERTY OF PEA, INC. THEY ARE SUBMITTED ON THE CONDITION THAT THEY ARE NOT TO BE REPRODUCED, COPIED, IN WHOLE OR IN PART, OR USED FOR FURNISHING INFORMATION TO OTHERS, WITHOUT THE PRIOR WRITTEN CONSENT OF PEA, INC. ALL CONDITIONS OF CONTRACT AND SPECIFICATIONS ARE HEREBY SPECIFICALLY REFERENCED. © 2018 PEA, INC.

CONTRACTOR CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO GENERAL WORKING CONDITIONS; THAT THE CONTRACTOR FURTHER AGREES TO OBTAIN INDEMNIFY AND HOLD DESIGN PROFESSIONAL HOLDERS FREE FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT EXCEPT THE LIABILITY ARISING FROM THE NEGLIGENCE OR OTHER FAULT

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ROBERT
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PROJECTS

ORIGINAL ISSUE DATE:
JUNE 27, 2019

PEA JOB NO. 2018-033

SCALE: 1" = 40'

DRAWING NUMBER:

C-2.3

LEGAL DESCRIPTION

Parcel 22-23-226-021
(Per First American Title Insurance Company Commitment No. 849041, effective date May 08, 2019)

Land in the City of Novi, Oakland County, MI, described as follows:

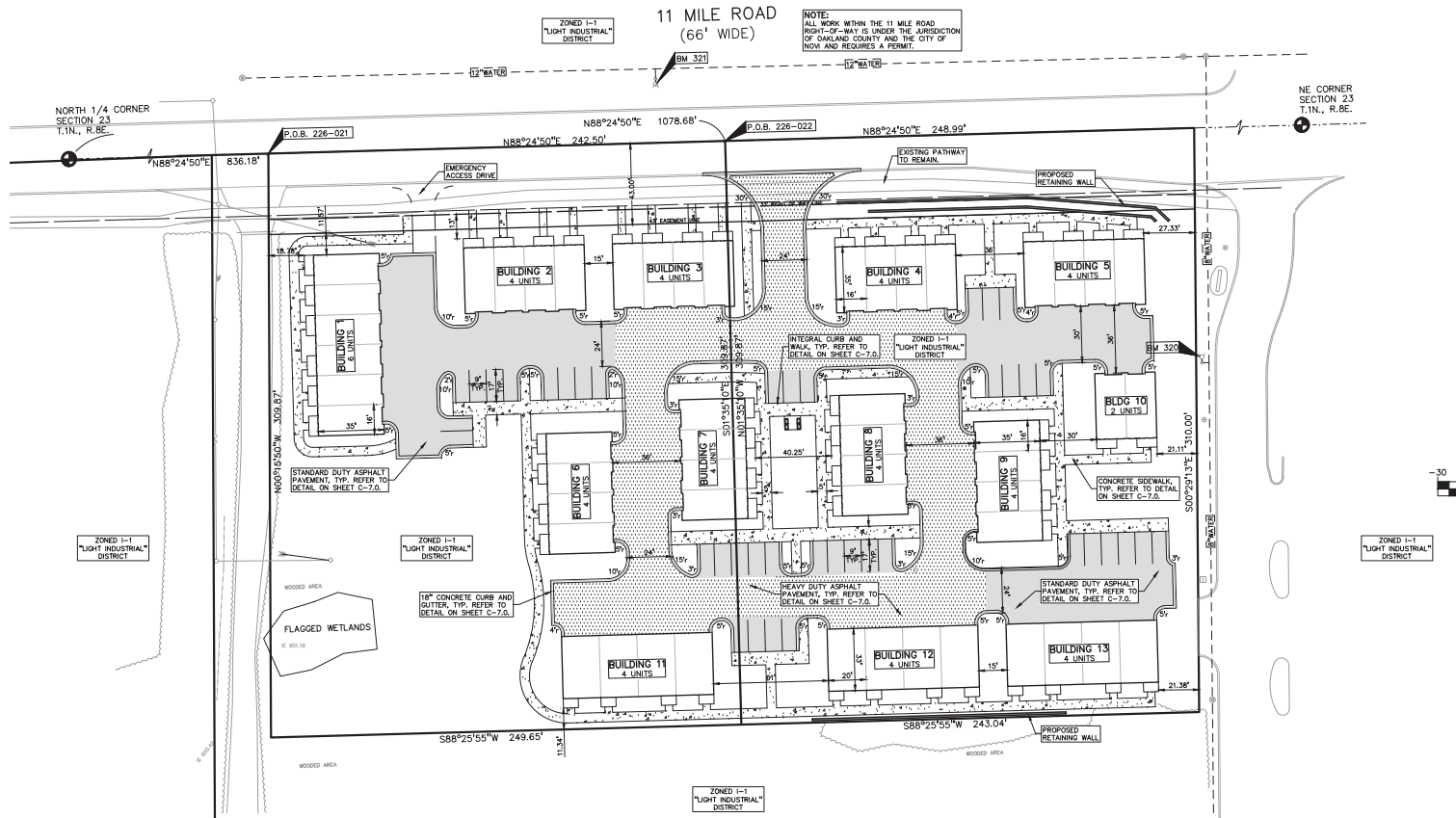
Part of the Northeast 1/4 of Section 23, Town 1 North, Range 8 East, City of Novi, Oakland County, Michigan, being more particularly described as beginning at a point North 88 degrees 24 minutes 50 seconds East, 836.18 feet along the North line of Section 23 from the North 1/4 corner of said Section 23; thence continuing North 88 degrees 24 minutes 50 seconds East, 242.50 feet; thence South 01 degrees 35 minutes 10 seconds East, 309.87 feet; thence South 88 degrees 25 minutes 55 seconds West, 249.65 feet; thence North 00 degrees 15 minutes 50 seconds West, 309.87 feet to the Point of Beginning.

LEGAL DESCRIPTION

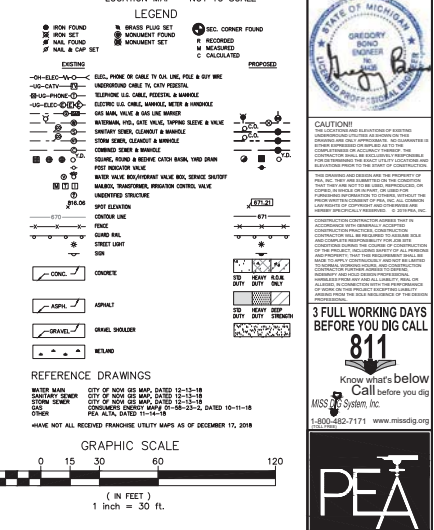
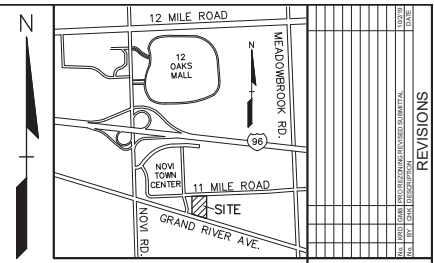
Parcel 22-23-226-022
(Per First American Title Insurance Company Commitment No. 849037, effective date May 03, 2019)

Land in the City of Novi, Oakland County, MI, described as follows:

Part of the Northeast 1/4 of Section 23, Town 1 North, Range 8 East, City of Novi, Oakland County, Michigan, being more particularly described as beginning at a point North 88 degrees 24 minutes 50 seconds East, 1078.68 feet along the North line of Section 23 from the North 1/4 corner of said Section 23; thence continuing North 88 degrees 24 minutes 50 seconds East, 249.65 feet; thence South 00 degrees 19 minutes 13 seconds East, 310.00 feet; thence South 88 degrees 25 minutes 55 seconds West, 243.04 feet; thence North 01 degrees 35 minutes 10 seconds West, 309.87 feet to the Point of Beginning.



NOTE:
ALL WORK WITHIN THE 11 MILE ROAD
RIGHT-OF-WAY IS UNDER THE JURISDICTION
OF OAKLAND COUNTY AND THE CITY OF
NOVI AND REQUIRES A PERMIT.



- ### GENERAL NOTES:
- THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT.
 - ALL DIMENSIONS SHOWN ARE TO BACK OF CURB, FACE OF SIDEWALK, OUTSIDE FACE OF BUILDING, PROPERTY LINE, CENTER OF MANHOLE/CATCH BASIN OR CENTERLINE OF PIPE UNLESS OTHERWISE NOTED.
 - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF NOVI CURRENT STANDARDS AND REGULATIONS.
 - THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER AND/OR THE AUTHORITY HAVING JURISDICTION 3 BUSINESS DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
 - ANY WORK WITHIN THE STREET OR HIGHWAY RIGHT-OF-WAYS SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AGENCIES HAVING JURISDICTION AND SHALL NOT BEGIN UNTIL ALL NECESSARY PERMITS HAVE BEEN ISSUED FOR THE PROJECT.
 - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ADJUST THE TOP OF ALL EXISTING AND PROPOSED STRUCTURES (MANHOLES, CATCH BASINS, INLETS, GATE WELLS ETC.) WITHIN GRADED AND /OR PAVED AREAS TO FINAL GRADE SHOWN ON THE PLANS. ALL SUCH ADJUSTMENTS SHALL BE INCIDENTAL TO THE JOB AND WILL NOT BE PAID FOR SEPARATELY.
 - ALL PARKING SPACE PAVEMENT MARKINGS SHALL BE 4" WHITE WITH THE EXCEPTION OF THE BARRIER FREE PARKING SPACES.
 - PROVIDE 4" BLUE STRIPING FOR BARRIER FREE PARKING SPACES AND WHITE FOR BARRIER FREE PARKING SPACES. NOTE THAT WHERE A BARRIER FREE PARKING SPACE ADJACENT TO A NON-BARRIER FREE SPACE, THE TWO SPACES SHALL BE SEPARATED BY PAINTING BLUE AND WHITE STRIPES.
 - DO NOT NOTED TO BE MOUNTED ON BUILDING FACADE SHALL HAVE A MINIMUM MOUNTING HEIGHT OF 5 FEET AND A MAXIMUM MOUNTING HEIGHT OF 7 FEET.
- ### CITY OF NOVI FIRE DEPARTMENT NOTES:
- ALL WEATHER ACCESS ROADS CAPABLE OF SUPPORTING 35 TONS ARE TO BE PROVIDED FOR FIRE APPARATUS PRIOR TO CONSTRUCTION ABOVE THE FOUNDATION.
 - ALL WATER MAINS AND FIRE HYDRANTS ARE TO BE INSTALLED AND IN SERVICE PRIOR TO CONSTRUCTION ABOVE THE FOUNDATION.
 - THE BUILDING ADDRESS IS TO BE POSTED FACING THE STREET THROUGHOUT THE CONSTRUCTION. THE ADDRESS IS TO BE AT LEAST 3 INCHES HIGH ON CONTRASTING BACKGROUND.

BENCHMARKS
(NAVD88 DATUM GPS DERIVED)

BM 321
Arrow on hydrant on the north side of 11 Mile Road, 325'± west of the driveway to Aviation Center.
Elevation 908.27

BM 320
Arrow on hydrant 90 feet south of the south curb of 11 Mile Road on the west line of Aviation Center.
Elevation 902.77

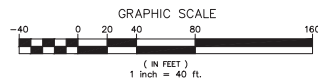
FLOODPLAIN:
By graphical plotting, the subject parcel is in "Areas determined to be outside of the 0.2% annual chance floodplain, (Zone X)" per FEMA Flood Insurance Rate Map Number 26125C-0627T, Effective September 23, 2005.

NOT FOR CONSTRUCTION

ROBERT B. AKENS & ASSOCIATES, LLC
3601 COLLETT DRIVE, SUITE 200
BIRMINGHAM, AL 35209
(205) 988-1111

SAKURA EAST DIMENSION PLAN
SAKURA EAST DIMENSION PLAN
PART OF THE E 1/2 OF THE NW 1/4 OF SECTION 23, T.1N., R.8E., CITY OF NOVI, OAKLAND COUNTY, MICHIGAN

ORIGINAL ISSUE DATE:
JUNE 27, 2019
PEA JOB NO. 2019-033
SCALE: 1" = 30'
DRAWING NUMBER:
C-2.4



BENCHMARKS

BM #1431
'X' ON NORTH RIM OF SANITARY MANHOLE
LOCATED 25 FEET NORTH BACK OF CURB OF
11 MILE ROAD, 25 FEET WEST OF SOUTH 1/4
POST SECTION 14, AND IN FRONT OF
BUILDING #42500 11 MILE ROAD.

FLOODPLAIN:

By graphical plotting, the subject parcel is in "Areas determined to be outside of the 0.2% annual chance floodplain. (Zone X)" per FEMA Flood Insurance Rate Map Numbers 26125C-0626F & 0627F, Effective September 29, 2006.

[illegible]

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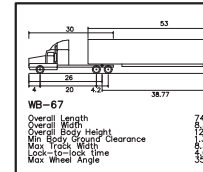
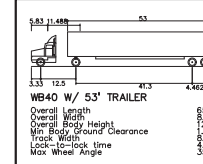
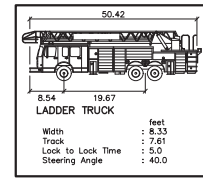
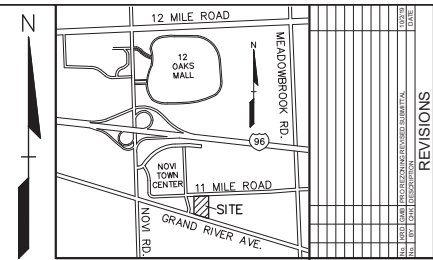
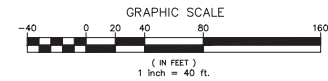
ROBIN

ORIGINAL ISSUE DATE:
JUNE 27, 2019

PEA JOB NO. 2018-033

DRAWING NUMBER:
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C-2.5

[illegible]

FLOODPLAIN:
By graphical projection, the subject parcel is in "Areas determined to be outside of the 0.2% annual chance floodplain. (Zone X)" per FEMA Flood Insurance Rate Map Numbers 26125C-0626F & 0627F, Effective September 29, 2006.

BENCHMARKS
BM #1431
ON NORTH RIM OF SANITARY MANHOLE LOCATED 25 FEET NORTH OF CURB OF 11 MILE ROAD, 25 FEET WEST OF SOUTH 1/4 POST SECTION 14, AND IN FRONT OF BUILDING #42500 11 MILE ROAD.

LEGAL DESCRIPTION (EAST PARCEL A)
(Per Amrock, Inc. Commitment File No. 64650648, effective date June 13, 2018)
Tax Id Number(s): 22-23-126-011, 22-23-226-007

A parcel of land alluited in a part of the North 1/2 of Section 23, Town 01 North, Range 08 East, City of Noy, Oakland County, Michigan, being more particularly described as follows:

Beginning at the North 1/4 corner of Section 23, Town 01 North, Range 08 East, thence North 34 minutes 34 seconds East 34 minutes 34 seconds to the centerline of the North 1/2 of Section 23, Town 01 North, Range 08 East (Road 66 feet wide) and the North line of said Section 23, thence South 00 degrees 10 minutes 20 seconds East 52.57 feet, thence South 89 degrees 34 minutes 00 seconds West 100 feet, thence North 00 degrees 10 minutes 20 seconds East 170.41 feet, thence North 00 degrees 17 minutes 00 seconds East 238.77 feet, thence North 00 degrees 17 minutes 00 seconds East 172.00 feet, thence North 00 degrees 17 minutes 20 seconds West 233.00 feet to said centerline of 11 Mile Road and the North line of said Section 23, thence North 00 degrees 17 minutes 20 seconds East 117.65 feet to the point of beginning. Containing 3.682 acres of land gross and 3.522 acres of land net of the 33-foot right-of-way.

LEGAL DESCRIPTION (EAST PARCEL B)
(Per Amrock, Inc. Commitment File No. 65113081, effective date October 24, 2018)

Tax Id Number(s): 22-23-226-008

Part of the Northeast 1/4 of Section 23, Town 1 North, Range 8 East, described as:
Beginning at a point distant North 89 degrees 00 minutes East, 99.53 feet from the North
1/4 corner of Section 23, thence North 89 degrees 00 minutes East, 165.14 feet; thence
South 0 degrees 44 minutes 20 seconds East, 527.55 feet; thence South 89 degrees 00
minutes West, 165.14 feet; thence North 0 degrees 44 minutes 20 seconds West, 527.55 feet
to the point of beginning.

NOT FOR CONSTRUCTION XREF: S:\PROJECTS\2018\2018033\DWG\18033-TOPBASE.DWG
XREF: S:\PROJECTS\2018\2018033\DWG\SITE PLANS\X-BASE-18033.DWG
XREF: S:\PROJECTS\2018\2018033\DWG\SITE PLANS\X-TRUCK-18033.DWG

CAUTION!
THE LOCATION AND ELEVATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN ON THIS DRAWING. CONTRACTOR SHALL VERIFY LOCATIONS. ANY ERRORS OR OMISSIONS ARE THE CONTRACTOR'S RESPONSIBILITY. CONTRACTOR SHALL BE EXACTLY UTILITY LOCATIONS AND BE RESPONSIBLE FOR THE LOCATION OF ALL UTILITIES. THIS DRAWING AND DESCRIPTION ARE THE PROPERTY OF P&A, INC. THEY ARE SUBMITTED ON THE CONDITION THAT THEY ARE NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART, OR USED FOR ANY OTHER PROJECT OR CONTRACT WITHOUT THE PRIOR WRITTEN CONSENT OF P&A, INC. ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. © 2016 P&A, INC.

CONSTRUCTION CONTRACTOR AGREES THAT IN CONNECTION WITH THE PROPOSED CONSTRUCTION PROJECT, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSURE SOILS AND WATER RESOURCES PROTECTION DURING THE COURSE OF CONSTRUCTION. CONSTRUCTION CONTRACTOR SHALL BE REQUIRED TO PROTECT AND PRESERVE THE SOILS AND PROPERTY THAT THIS REQUIREMENT SHALL BE REQUIRED TO MAINTAIN FURTHER PROTECTION TO NORMAL RESIDENTS, HOUSES, AND CONSTRUCTION MATERIALS. FURTHER, CONSTRUCTION CONTRACTOR SHALL BE REQUIRED TO REDEVELOP AND REEVALUATE PROFESSIONAL DESIGN, CONSTRUCTION, AND MAINTENANCE OF THE PROJECT. CONSTRUCTION CONTRACTOR SHALL BE REQUIRED TO MAINTAIN THE SOILS AND PROPERTY THAT THIS REQUIREMENT SHALL BE REQUIRED TO MAINTAIN FURTHER PROTECTION TO NORMAL RESIDENTS, HOUSES, AND CONSTRUCTION MATERIALS. FURTHER, CONSTRUCTION CONTRACTOR SHALL BE REQUIRED TO REDEVELOP AND REEVALUATE PROFESSIONAL DESIGN, CONSTRUCTION, AND MAINTENANCE OF THE PROJECT.

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 350 OLD WOODWARD AVE., SUITE 300
 BIRMINGHAM, AL 35209

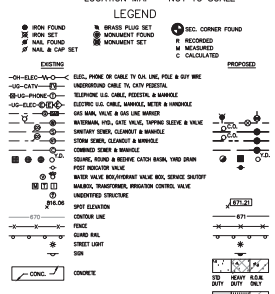
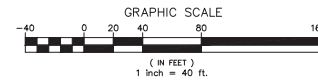
VEHICLE ACCESS PLAN - EAST

SAKURA NOVI
 PART OF THE E 1/2 OF THE NW 1/4 OF SECTION 23 T.1N. R.8E.,
 CITY OF NOVI, OAKLAND COUNTY, MICHIGAN

DES.	GMB	DN	J&S	SUR.	GW	P.M.	JPB
(A) VEHICLE DRIVE-THRU AREA AND DRIVEWAY (A) VEHICLE DRIVE-THRU AREA AND DRIVEWAY							

ORIGINAL ISSUE DATE: JUNE 27, 2019
PEA JOB NO. 2018-033
SCALE: 1" = 40'
DRAWING NUMBER: C-2.8

C-2.8



REFERENCE DRAWINGS

WATER MAIN	CITY OF NEW ORLEANS	DATED 12-15-18
SEWER MAIN	CITY OF NEW ORLEANS	DATED 12-15-18
STREET	CITY OF NEW ORLEANS	DATED 12-15-18
CONCRETE DRIVEWAY	CONCRETE DRIVEWAY	DATED 10-11-18
PEEL ACTS	PEEL ACTS	DATED 10-11-18

NO FLOODING FRANCHISE UTILITY MAPS AS OF DECEMBER 12, 2018

FLOODPLAIN:

By graphical plotting, the subject parcel is in "Areas determined to be outside of the 0.2% annual chance floodplain. (Zone 'X') per FEMA Flood Insurance Rate Map Numbers 28125C-0626F & 0627F, Effective September 29, 2006.

BENCHMARKS

BW #1431
ON NORTH RIM OF SANITARY MANHOLE LOCATED 25 FEET NORTH BACK OF CURB OF 11 MILE ROAD, 25 FEET WEST OF ROUTE 14 (POST SIGN) AND, IN FRONT OF BUILDING #42500 11 MILE ROAD.

LEGAL DESCRIPTION (EAST PARCEL A)
(Per Amrock, Inc. Commitment File No. 64650648, effective date 03/13, 2018)

Tract ID Number(s): 22-226-001, 22-226-007

Land situated in the City of Novl in the County of Oakland in the State of MI

A parcel of land situated in a part of the North 1/2 of Section 23, Town 01 North, Range 08 East, City of Novl, Oakland County, Michigan, being more particularly described as follows: Beginning at the North 1/4 corner of Section 23, Town 01 North, Range 08 East, thence North 89 degrees 34 minutes 00 seconds East 99.53 feet along the centerline of 11 Mile Road (66 feet wide) and the North line of said Section 23; thence South 00 degrees 10 minutes 20 seconds East 52.75 feet; thence South 89 degrees 34 minutes 00 seconds West 226.95 feet; thence North 71 degrees 19 minutes 30 seconds West 170.41 feet; thence North 00 degrees 17 minutes 00 seconds East 165.14 feet to the North line of Section 23; thence North 89 degrees 34 minutes 00 seconds East 172.00 feet; thence North 00 degrees 17 minutes 00 seconds East 165.14 feet along the centerline of 11 Mile Road and the North line of Section 23; thence along said North line North 89 degrees 34 minutes 00 seconds East 117.85 feet to the point of beginning. Containing 3.684 acres of land gross and 3.552+ acres of land net of the 33-foot right-of-way.

LEGAL DESCRIPTION (EAST PARCEL B)
(Per Amrock, Inc. Commitment File No. 65113081, effective date October 24, 2018)

Tract ID Number(s): 22-226-008

Land situated in the City of Novl in the County of Oakland in the State of MI

Part of the Northeast 1/4 of Section 23, Town 1 North, Range 8 East, described as: Beginning at a point distant North 89 degrees 00 minutes East, 99.53 feet from the North line of Section 23; thence North 89 degrees 00 minutes East, 165.14 feet; thence South 0 degrees 44 minutes 20 seconds East, 52.75 feet; thence South 89 degrees 00 minutes 10 seconds East, 170.41 feet; thence North 0 degrees 44 minutes 20 seconds West, 52.75 feet to the point of beginning.

NOT FOR CONSTRUCTION



CAUTION!!

The LOCATION AND RELATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS CONTRACT MAY BE INCOMPLETE OR INCORRECT. ANY EXPRESSION OR OPINION AS TO THE COMPLETENESS OR ACCURACY OF THESE DATA SHALL BE SOLELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS ARE THE CONTRACTOR'S.

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A CONTRACTOR CONTRACTING ADDRESS THAT IS ACCORDANCE WITH GENERALLY ASSIGNED CONSTRUCTION CONTRACTORS' OBLIGATIONS TO THE CONTRACTOR WILL BE REQUIRED TO OBTAIN 30% COMPLETE PERFORMANCE FOR JOB SITE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROJECT, INCLUDING SAFETY OF ALL PERSONNEL AND PROPERTY INVOLVED IN THE PROJECT. IT IS MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO ANY SPECIFIC SITUATION OR OCCASION. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN NECESSARY PERMITS FROM ANY AND ALL AGENCIES, REAL OR ALLEGED, AND TO MAINTAIN THE SAFETY OF WORKERS ON THIS PROJECT'S OPERATIONALITY.

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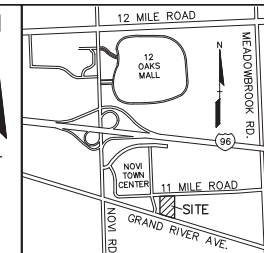
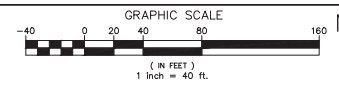
ROBERT B. AIKENS & ASSOCIATES, LLC
 300 OLD WOODWARD AVE. SUITE 300
 BIRMINGHAM, AL 35209

EASEMENT PLAN - EAST
SAKURA NOVI

PART OF THE E 1/2 OF THE NW 1/4 OF SECTION 23, T.1N. R.8E.
 CITY OF NOV. OKLAHOMA COUNTY, MICHIGAN

DEES	GAMB	DUN	SUR	OWC	1 P.M.	JPB
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ORIGINAL ISSUE DATE: JUNE 27, 2019
PEA JOB NO. 2018-033
SCALE: 1" = 40'
DRAWING NUMBER: C-3.2

[illegible]

REFERENCE DRAWINGS

WATER MAIN	CITY OF NOW GIS MAP, DATED 12-13-98
SEWANTARY SEWER	CITY OF NOW GIS MAP, DATED 12-13-98
STORM SEWER	CITY OF NOW GIS MAP, DATED 12-13-98
CAS	CONSUMERS ENERGY MAP, 09-58-23-2, DATED 10-11-98
OTHER	PEA ALTA, DATED 11-14-98

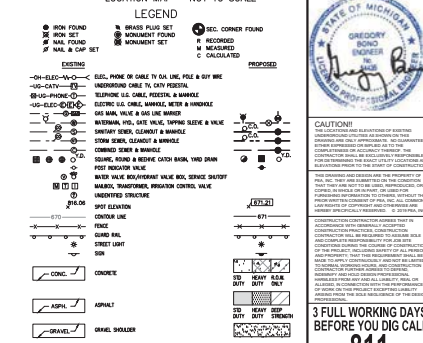
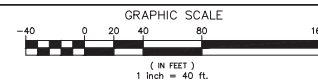
FLOODPLAIN:
By graphical plotting, the subject parcel is in "Areas determined to be outside of the 0.2% annual chance floodplain. (Zone X)" per FEMA Flood Insurance Rate Map Numbers 26125C-0626F & 0627F, Effective September 29, 2006.

BENCHMARKS

BM #1431
"X" ON NORTH RIM OF SANITARY MANHOLE LOCATED 25 FEET NORTH BACK OF CURB OF 11 MILE ROAD, 25 FEET WEST OF SOUTH 1/4 POST SECTION 14, AND IN FRONT OF BUILDING #42500 11 MILE ROAD.

[illegible]

NOT FOR CONSTRUCTION XREF: S:\PROJECTS\2018\2018033\DWG\18033-TOPOBASE.DWG
XREF: S:\PROJECTS\2018\2018033\DWG\SITE PLANS\X-BASE-18033.DWG
XREF: S:\PROJECTS\2018\2018033\DWG\SITE PLANS\X-TBLK-18033.DWG



	Average Flow (100 GPCFD)	507 People 50,700 G.P.D. 0.078 C.F.S. 0.051 M.G.D.
	P (100%)	3.567
	Peaking Factor (PF)	3.57
	PF = (10+sqrt(P))^(1/4)+sqrt(P)	204,335
	Peak Flow (G.D.P.)	3,312
	Peak Flow (C.F.S.)	
	8" Pipe Capacity Provided =	1.10 C.F.S.
	Ultimate REU	371.6
		1190 People
	Average Flow (100 GPCFD)	119,000 G.P.D. 0.184 C.F.S. 0.119 M.G.D.
	P (100%)	1.190
	Peaking Factor (PF)	3.75
	PF = (10+sqrt(P))^(1/4)+sqrt(P)	
	Peak Flow (G.D.P.)	446,252
	Peak Flow (C.F.S.)	0.690

TOTAL	Initial REU	(Bids A-D & MF Res.)	158.4
	Average Flow (150 GPD)		507 People 76,050 G P D 0.118 C F S 0.076 M G D
	Design Max. Flow = (2"arg)		152,190 G P D 9,235 C F S 0.152 M G D
	Building Type = Required Fire Flow =		various 1500 gpm for 2 hours
	Ultimate REU		371.8
	Average Flow (150 GPD)		1190 People 178,486 G P D 0.276 C F S 0.178 M G D
	Design Max. Flow = (2"arg)		256,972 G P D 0.552 C F S 0.257 M G D
	Building Type = Required Fire Flow =		various 1500 gpm for 2 hours

REFERENCE DRAWINGS

WATER MAIN	CITY OF NORA GIS MAP, DATED 12-13-58
SANITARY SEWER	CITY OF NORA GIS MAP, DATED 12-13-58
STORM SEWER	CITY OF NORA GIS MAP, DATED 12-13-58
CONSUMERS ENERGY MAP	01-58-23-2, DATED 10-11-58
CAS	PEA ALTA, DATED 11-14-58
OTHER	

FLOODPLAIN:
By graphical plotting, the subject parcel is in "Areas determined to be outside of the 0.2% annual chance floodplain, (Zone 'X') per FEMA Flood Insurance Rate Map Numbers 26125C-0626F & 0627F, Effective September 29, 2006.

BENCHMARKS
BM #1431
"X" ON NORTH RIM OF SANITARY MANHOLE LOCATED 25 FEET
NORTH BACK OF CURB OF 11 MILE ROAD, 25 FEET WEST OF
SOUTH 1/4 POST SECTION 14, AND IN FRONT OF BUILDING
#42500 11 MILE ROAD.

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f: 248.689.1044
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ROBERT B. AIKENS & ASSOCIATES, LLC 350 OLD WOODWARD AVE., SUITE 300 BOWLING GREEN, OH 43403									
PRELIMINARY UTILITY PLAN - EAST SAKURA NOVI PART OF THE E 1/4 OF SEC. 18, T. 1 N., R. 1 E. CITY OF NOVI, OAKLAND COUNTY, MICHIGAN									
DES	GMB	DN	JKS	SUR	GWC	P.F.I.	JPB		

ORIGINAL ISSUE DATE: JUNE 27, 2019
PEA JOB NO. 2018-033
SCALE: 1" = 40'
DRAWING NUMBER:

NOT FOR CONSTRUCTION XREF: S:\PROJECTS\2010\2010033\DWG\10033-TOPBASE.DWG
XREF: S:\PROJECTS\2010\2010033\DWG\SITE_PLANS\X-BASE-10033.DWG
XREF: S:\PROJECTS\2010\2010033\DWG\SITE_PLANS\X-TRUCK-10033.DWG

Tax ID Number(s): 22-23-126-006

Client reference: 42750 Grand River Ave. Novi, MI. 48375-1726

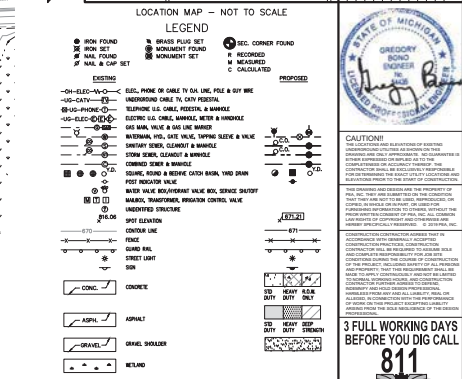
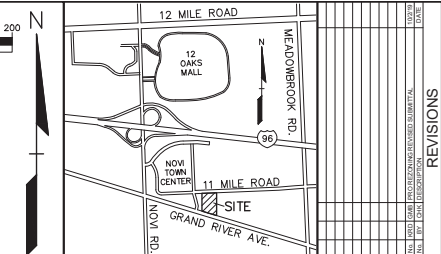
Tax Id Number(s): 22-23-126-011, 22-23-226-007

minutes 20 seconds east 233.00 feet to said centerline of 11 Mile Road and the North line of Section 23; thence along said North line North 89 degrees 34 minutes 00seconds East 117.65 feet to the point of beginning. Containing 3.68± acres of land gross and 3.52± acres of land net of the 33-foot right-of-way.

Tax Id Number(s): 22-23-226-008

NORTH 1/4 CORNER
SECTION 23, T.1N., R.1E.
FOUND GRASS
BROWN, CAL. 124608

11 MILE ROAD
66 FT. WIDE-PUBLIC



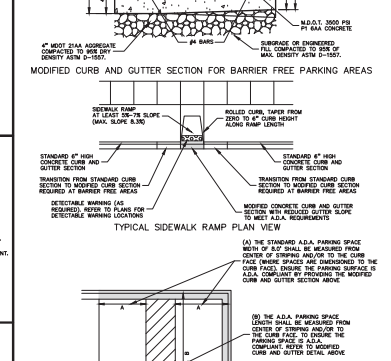
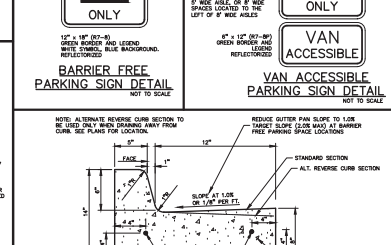
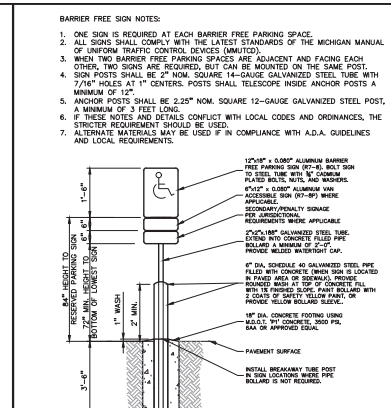
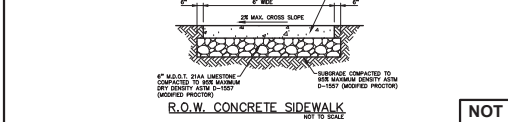
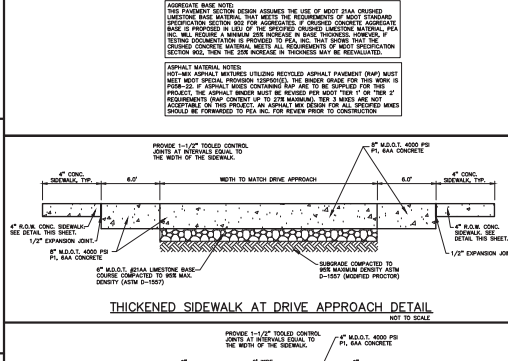
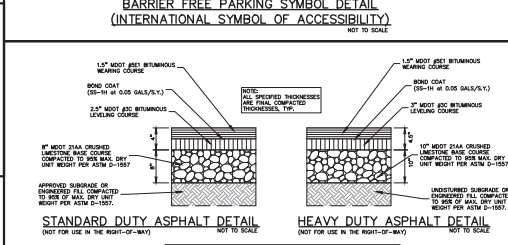
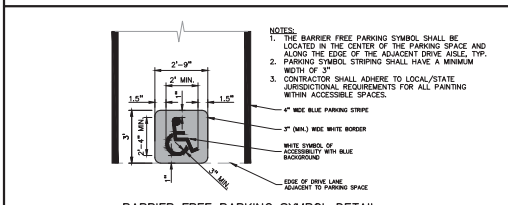
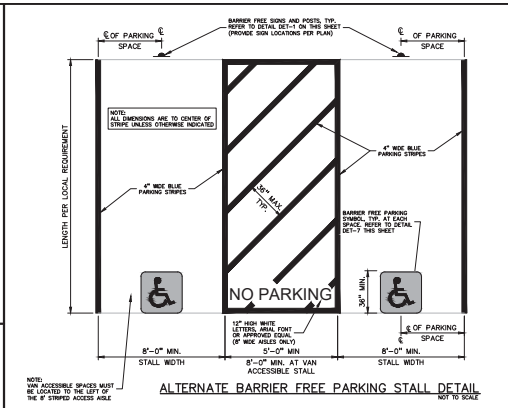
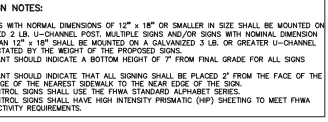
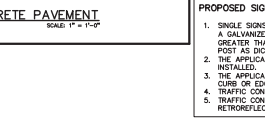
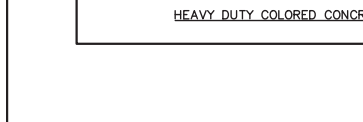
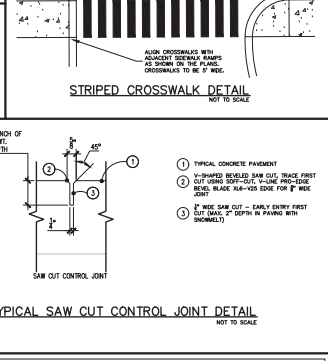
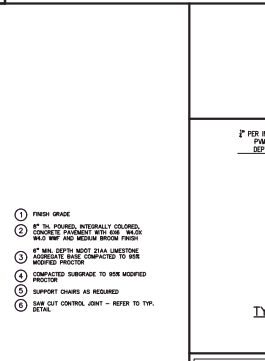
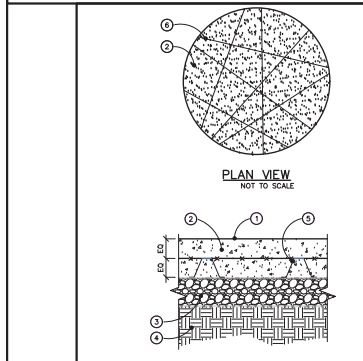
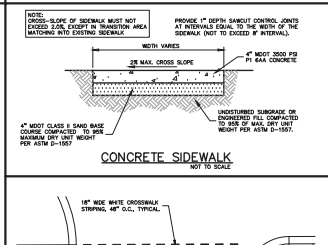
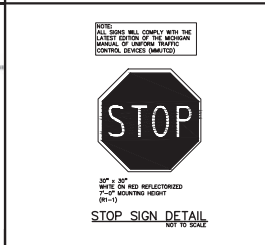
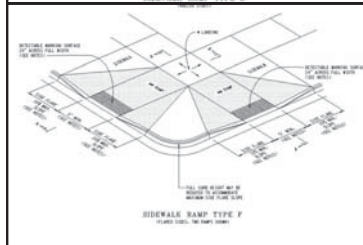
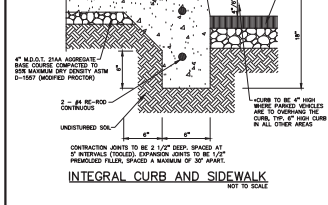
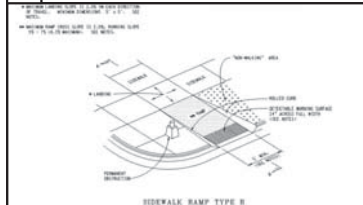
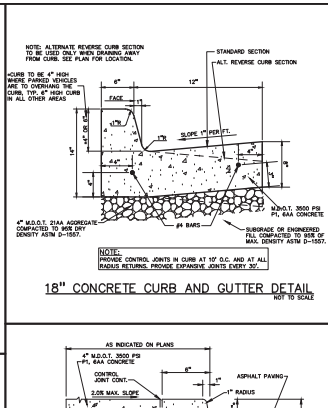
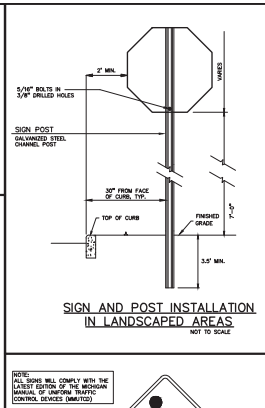
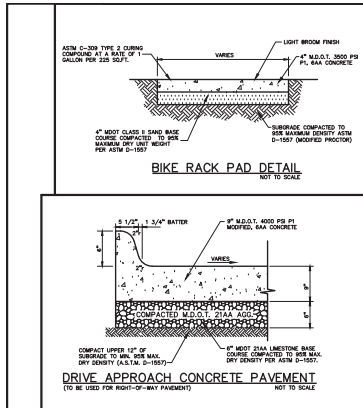
STORM DETENTION DESIGN (FOR NOI) DESIGN METHOD - EAST			
Site Drainage Data			
Contributing Area (A):		5.40 acres	
Absorptive Drainage (Aa):		0.61 ac (11.5%/average)	
Coefficient of Runoff (C):		0.85	
1-yr Design Storm Calculations for Sediment Basin Volume Requirement			
VF = 100(A-Ca)C		6308.78	
10-yr Design Storm Calculations			
2a = C(A-Ca)C		0.23 cfs/acre impervious	
T = 25 + (8650.5/VA) ^{0.04}		143.92 minutes	
Va = (10500(T+25) - 4000C)/VF		7.622 cfs/acre impervious	
VF = C(A-Ca)C		26.743	
100-yr Design Storm Calculations			
2a = C(A-Ca)C		0.23 cfs/acre impervious	
T = 25 + (10112.5/VA) ^{0.04}		186.75 minutes	
Va = (16000(T+25) - 4000C)/VF		12.634 cfs/acre impervious	
VF = C(A-Ca)C		46.034	
Storage Provided in Detention Basin			
Event ID	Area (ft ²)	Vol. (ft ³)	Total Vol. (ft ³)
901.0	2,375.0	0	0
902.0	7,868.0	5,441	5,441
903.0	12,159.0	8,542	13,983
			10,000

ROBERT B. AIKENS & ASSOCIATES, LLC
 350 OLD WOODWARD AVE., SUITE 300
 BIRMINGHAM, MI 48009

STORM WATER MAINTENANCE PLAN
SAKURA NOVI
 PART OF THE E 1/2 OF THE NW 1/4 OF SECTION 23, T.1N., R.8E.,
 CITY OF NOVI, OAKLAND COUNTY, MICHIGAN

DES.	GMB	DN	JKS	SUR	OWC	P.M.	JPB
15. PRELIMINARY PLAN FOR STORM WATER MAINTENANCE PLAN FOR THE PROJECT							

ORIGINAL ISSUE DATE: JUNE 27, 2019
PEA JOB NO. 2018-033
SCALE: 1" = 50'
DRAWING NUMBER: C 60



REVISIONS

NO.	DATE	DESCRIPTION
1	10/1/2019	ISSUED FOR BIDDING
2	10/1/2019	REVISIONS

STATE OF MICHIGAN
DEPARTMENT OF TRANSPORTATION
REGISTRY

CAUTION!

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ROBERT B. AKENS & ASSOCIATES, LLC

NOTES AND DETAILS

SAKURA DAIJI

PART OF THE E 1/2 OF THE NW 1/4 OF SECTION 23, T 1 N, R 1 E,
CITY OF NOVI, OAKLAND COUNTY, MICHIGAN

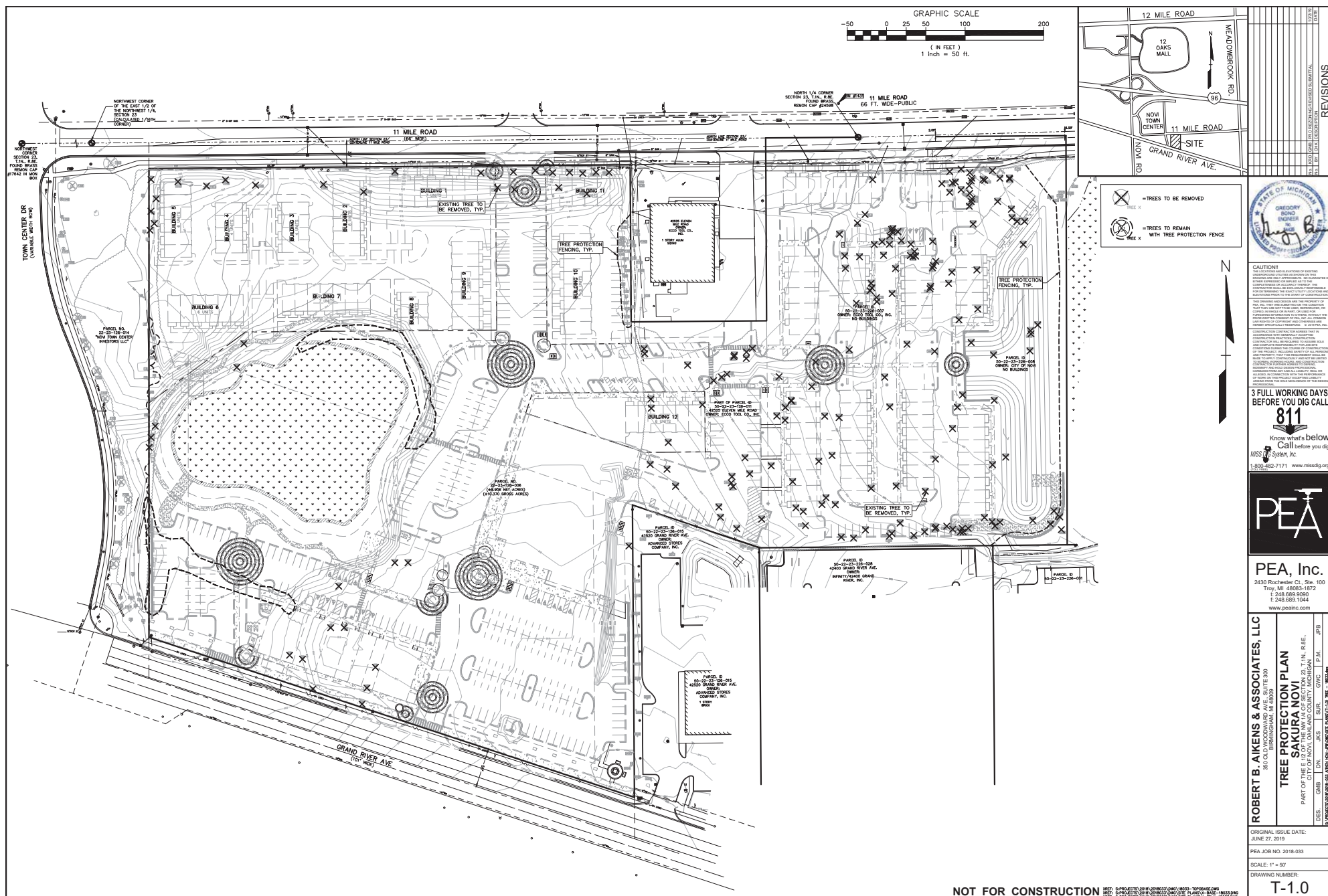
360 COLLEGE AVE., SUITE 200
BIRMINGHAM, AL 35203
205-988-8888 FAX 205-988-8889

ORIGINAL ISSUE DATE: June 27, 2019

PEA JOB NO. 2018-033

SCALE: N.T.S.

DRAWING NUMBER: **C-7.0**



NOT FOR CONSTRUCTION

ORIGINAL ISSUE DATE	JUNE 27, 2019
PEA JOB NO.	2018-033
SCALE:	1" = 50'
DRAWING NUMBER:	

ROBERT B. AIKENS & ASSOCIATES, LLC

TREE PROTECTION PLAN
SAKURA NOVI

PEA, Inc.
2430 Rochester Ct., Ste. 100
Troy, MI 48063-1872
t: 248.689.9090
f: 248.689.1044
www.peainc.com



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THE LOCATIONS AND ELEVATIONS OF EXISTING ADJACENT UTILITIES ARE SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS MADE BY THE CONTRACTOR AS TO THE ACCURACY, COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE LOCATION, DEPTH AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

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CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN SOLID EARTH RECORDS OF ALL EXISTING UTILITIES LOCATED DURING THE COURSE OF CONSTRUCTION. THESE RECORDS SHALL BE MAINTAINED AND PROPERTY THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO ANY SPECIFIC IMPROVING ACTION. THE CONTRACTOR FURTHER AGREES TO DEEPEN, REPAIR AND HOLD RECORDS OF ALL EXISTING UTILITIES PRIOR AND AFTER LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE ABOVE.



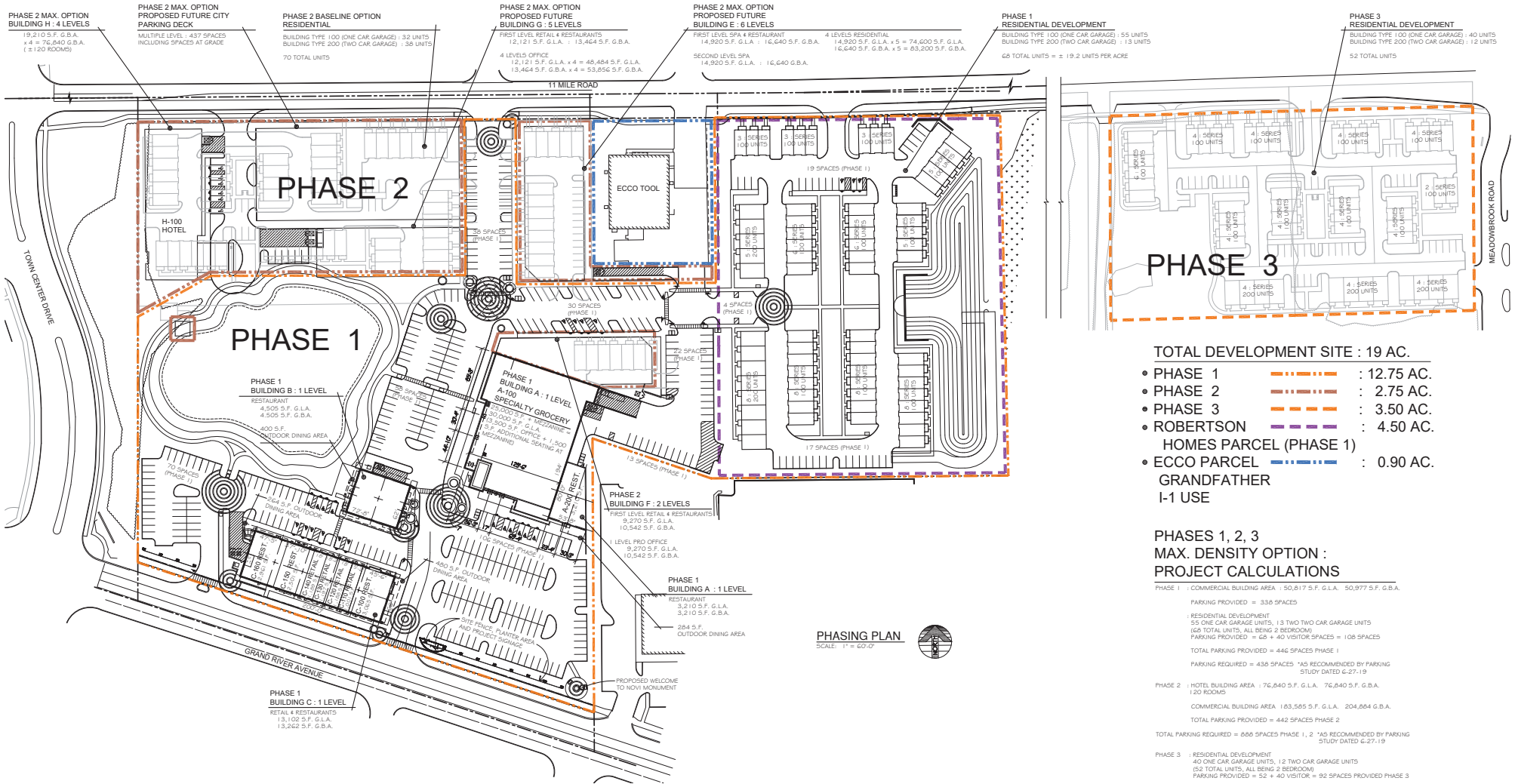
REVISIONS

[illegible]

NOT FOR CONSTRUCTION

DRAWING NUMBER:
T-1.1

1-1.1



TOTAL DEVELOPMENT SITE : 19 AC.

• PHASE 1	12.75 AC.
• PHASE 2	2.75 AC.
• PHASE 3	3.50 AC.
• ROBERTSON HOMES PARCEL (PHASE 1)	4.50 AC.
• ECCO PARCEL I-1 USE	0.90 AC.

PHASES 1, 2, 3 MAX. DENSITY OPTION : PROJECT CALCULATIONS

PHASE 1	COMMERCIAL BUILDING AREA : 50,817 S.F. G.L.A. 50,877 S.F. G.B.A.
PARKING PROVIDED	= 338 SPACES
RESIDENTIAL DEVELOPMENT	55 ONE CAR GARAGE UNITS, 13 TWO TWO CAR GARAGE UNITS (68 TOTAL UNITS, ALL BEING 2 BEDROOM)
PARKING PROVIDED	= 68 + 40 VISITOR SPACES = 108 SPACES
TOTAL PARKING PROVIDED	= 446 SPACES PHASE 1
PARKING REQUIRED	= 436 SPACES *AS RECOMMENDED BY PARKING STUDY DATED 6-27-19
PHASE 2	HOTEL BUILDING AREA : 76,840 S.F. G.L.A. 76,840 S.F. G.B.A. 120 ROOMS
COMMERCIAL BUILDING AREA	183,585 S.F. G.L.A. 204,884 G.B.A.
TOTAL PARKING PROVIDED	= 442 SPACES PHASE 2
TOTAL PARKING REQUIRED	= 886 SPACES PHASE 1, 2 *AS RECOMMENDED BY PARKING STUDY DATED 6-27-19
PHASE 3	RESIDENTIAL DEVELOPMENT 40 ONE CAR GARAGE UNITS, 12 TWO CAR GARAGE UNITS (52 TOTAL UNITS, ALL BEING 2 BEDROOM)
PARKING PROVIDED	= 52 + 40 VISITOR = 92 SPACES PHASE 3

PHASE 1 USES :

- 30,000 S.F. MARKET (25,000 S.F. + 3,500 S.F. MEZZ. OFFICE + 1,500 S.F. MEZZ. ADDITIONAL SEATING)
- 5 RESTAURANTS
- 4 RETAIL SPACE
- 68 TOWN-HOME APARTMENTS (55 - 1,184 S.F. & 13 - 1,541 S.F. UNITS)
121 PARKING SPACES
± 19.2 UNITS PER ACRE
- LIGHT INDUSTRIAL USE ECCO TOOL CO. PARCEL GRANDFATHERED IN

PHASE 2 MAX. DENSITY OPTION POTENTIAL PHASE 2 USES :

- BUILDING E PODIUM : 5,000 S.F. RESTAURANT (GROUND FLR.)
25,000 S.F. SPA (GROUND FLR. & 2ND FLR.)
48 RESIDENTIAL UNITS (FLR.S 3, 4, 5 & 6)
(16 - 1 BEDROOM & 32 - 2 BEDROOM UNITS)
- BUILDING F : 3,000 S.F. RESTAURANT (GROUND FLR.)
6,000 S.F. RETAIL (GROUND FLR.)
10,000 S.F. MULTI-TENANT PRO OFFICE (2ND FLR.)
- BUILDING G : 2 - 3,000 S.F. RESTAURANTS (GROUND FLR.)
6,000 S.F. RETAIL (GROUND FLR.)
48,000 S.F. MULTI-TENANT OFFICE / PRO OFFICE (FLR.S 2, 3, 4 & 5)
- BUILDING H : 120 ROOM HOTEL
- PARKING DECK : 442 SPACES INCLUDING SPACES AT GRADE

PHASE 2 BASELINE OPTION RESIDENTIAL :

- 70 TOWN-HOME APARTMENTS (32 - 1,184 S.F. & 38 - 1,541 S.F. UNITS)
148 PARKING SPACES

PHASE 3 :

- 52 TOWN-HOME APARTMENTS (40 - 1,184 S.F. & 12 - 1,541 S.F. UNITS)
104 PARKING SPACES

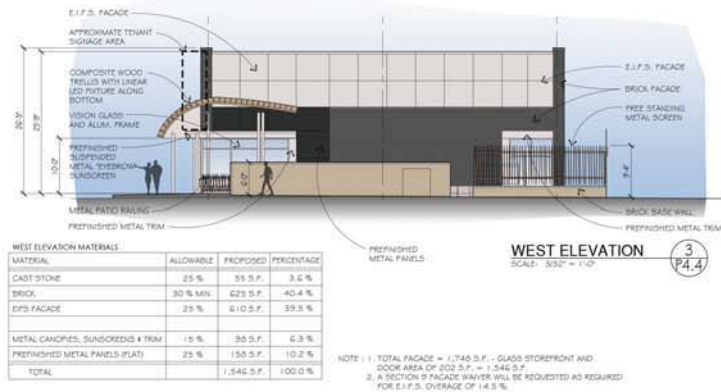
PHASING PLAN SAKURA • NOVI

Robert B. Aikens & ASSOCIATES, L.L.C.
350 N. Old Woodward Avenue, Suite 300
Birmingham, MI 48009 ph: 248-283-1071

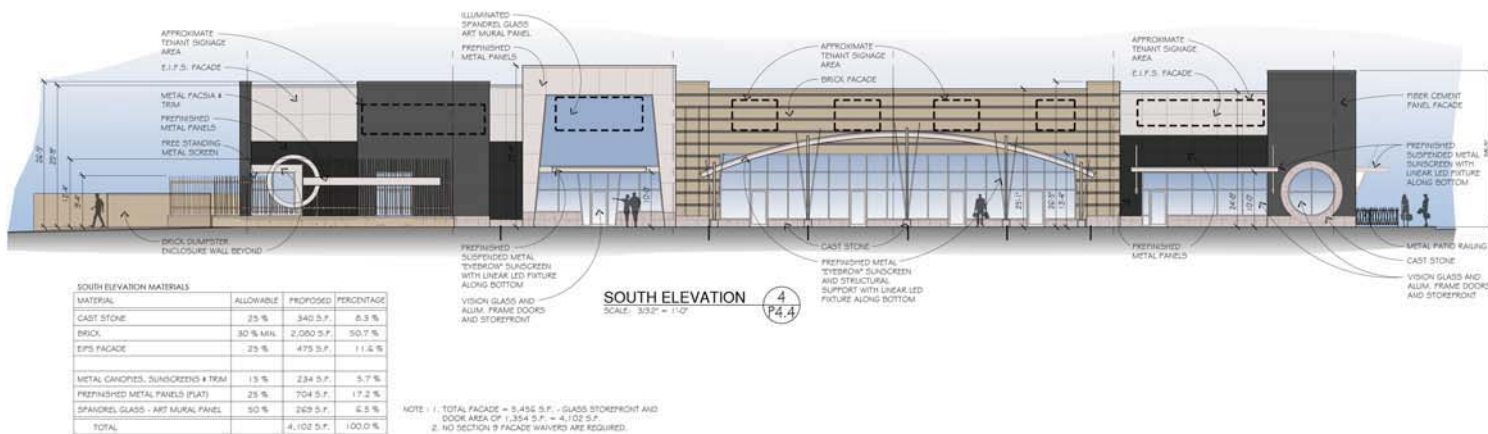
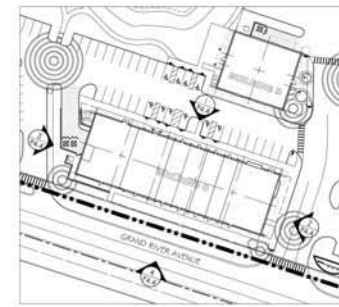
WAH YEE ASSOCIATES
ARCHITECTS & PLANNERS
42400 GRAND RIVER AVENUE, SUITE 200
NOVI, MICHIGAN 48045
PHONE 248.489.9160
PROJECT NO. 5035

PRELIMINARY
NOT FOR CONSTRUCTION
CAD DWG 5035 P11 PHASING PLAN REVISED 10.2.19 DWG

ISSUED FOR
CONCEPT MEETING
FEB. 27, 2019
PRE-APP. MEETING
MAY 8, 2019
PRO. REZONING
JUNE 28, 2019
PRO. REZONING
REVISED SUBMITTAL
OCTOBER 2, 2019



- GENERAL NOTES:
1. CANOPIES AND AWNINGS TO BE BY TENANTS SUBJECT TO CHANGE FOR INDIVIDUAL TENANT REQUIREMENTS.
 2. DOOR LOCATIONS SHOWN FOR CONCEPT ONLY SUBJECT TO CHANGE FOR INDIVIDUAL TENANT REQUIREMENTS.
 3. ROOF TOP MECHANICAL EQUIPMENT TO BE SCREENED BY BUILDING PARAPETS OR SCREEN ENCLOSURE OF SIMILAR MATERIAL AND CHARACTER AS THE BUILDING.
 4. ALL OUTDOOR PATIO / DINING AREAS SERVING ALCOHOL WILL BE ENCLOSED WITH A METAL RAISING SYSTEM.
 5. OUTDOOR SEATING SHALL BE PERMITTED BETWEEN MARCH 1ST AND NOVEMBER 30TH, WITH ALL FURNITURE AND FIXTURES INCLUDING, BUT NOT LIMITED TO, TABLES, CHAIRS AND WASTE RECEPTACLES REMOVED FROM THE EXTERIOR PREMISES BY NOVEMBER 30TH. OUTDOOR SEATING SHALL NOT BE THE PRIMARY SEATING OF THE RESTAURANT.
 6. SIGNAGE AREAS SHOWN FOR CONCEPT ONLY. ACTUAL SIGNAGE TO BE SUBMITTED ON A TENANT BY TENANT BASIS, IN CONFORMANCE WITH THE APPROVED PRE AGREEMENT.



BUILDING ELEVATIONS SAKURA NOVI

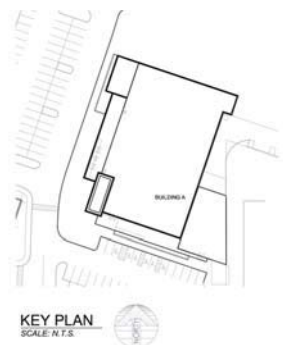
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**Wah Yee Associates
ARCHITECTS & PLANNERS**
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NOVI, MICHIGAN 48045
PHONE 248-489-9140
PROJECT NO. 3035

**PRELIMINARY
NOT FOR CONSTRUCTION**
(P4.4)

CAD DWG 5035.003X CONCEPT P4.4 30-19-2019

ISSUED FOR
CONCEPT MEETING
FEB. 27, 2019
PRE APP. MEETING
MAY 8, 2019
PRO REVISION
JUNE 28, 2019
PRO REVISIONS
REVISED SUBMITAL
SEPTEMBER 30, 2019



BR-1 Belden Gray Bricks Beacon Velour	FCP-1 Nichiha VintageWood Cedar EPC762F	EIFS-1 Dryvit Commercial Cement Plaster PPG Gray Palomino 521-3
MTL-1 Alpolic Alpolic/PE CLR Anodized Clear	GFRC-1 ConcreteWorks East GFRC Wall Panels Cumulus G	



WEST ELEVATION MATERIALS			
TAG	MATERIAL	ALLOWABLE	PROPOSED
BR-1	BRICK	100 %	1,000 S.F.
MTL-1	FLAT METAL PANEL	20 %	100 S.F.
FCP-1	FIBER CONCRETE PANELS/CLADDING	20 %	200 S.F.
GFRC-1	G.F.R.C. CLADDING SYSTEM	20 %	400 S.F.
EIFS-1	EIFS & Joints	20 %	1,140 S.F.
	AWARDING FABRIC OR MEMBRANE	10 %	110 S.F.
TOTAL			4,000 S.F.

A WEST ELEVATION
SCALE: 3/32" = 1'-0"



SOUTH ELEVATION MATERIALS			
TAG	MATERIAL	ALLOWABLE	PROPOSED
BR-1	BRICK	100 %	1,000 S.F.
MTL-1	FLAT METAL PANEL ALUMINUM/COMPOSITE (ALPOLICE)	20 %	200 S.F.
FCP-1	FIBER CONCRETE PANELS/CLADDING	20 %	1,100 S.F.
GFRC-1	G.F.R.C. CLADDING SYSTEM	20 %	400 S.F.
EIFS-1	EIFS & Joints	20 %	670 S.F.
	AWARDING FABRIC OR MEMBRANE	10 %	240 S.F.
TOTAL			3,610 S.F.

B SOUTH ELEVATION
SCALE: 3/32" = 1'-0"



SOUTH ELEVATION
SCALE: 3/32" = 1'-0"

SOUTH ELEVATION MATERIALS	ALLOWABLE	PROPOSED	PERCENTAGE
MATERIAL			
CAST STONE	25 %	0.5 S.F.	0.0 %
BRICK	30 % MIN.	544.5 S.F.	34.5 %
EPS	25 %	180.5 S.F.	12.6 %
METAL CANOPIES & SUNSCREENS	15 %	30.5 S.F.	3.2 %
PREFINISHED METAL PANELS (PLAT)	25 %	704.5 S.F.	49.7 %
TOTAL		1,576.5 S.F.	100.0 %

NOTE: 1. TOTAL FACADE = 1,774 S.F. - GLASS STOREFRONT AND DOOR AREA OF 180 S.F. = 1,576 S.F.
2. A SECTION 9 FACADE WAIVER WILL BE REQUESTED AS REQUIRED FOR PREFINISHED METAL PANEL COVERAGE OF 24.7%.

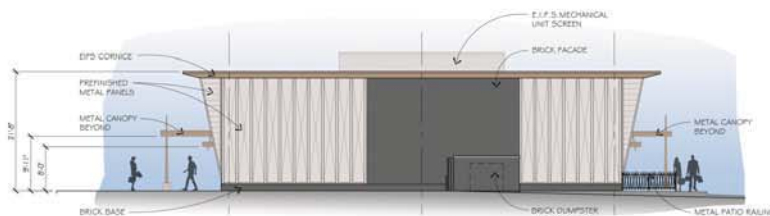


EAST ELEVATION
SCALE: 3/32" = 1'-0"

EAST ELEVATION MATERIALS	ALLOWABLE	PROPOSED	PERCENTAGE
MATERIAL			
CAST STONE	25 %	0.5 S.F.	0.0 %
BRICK	30 % MIN.	350.5 S.F.	26.7 %
EPS	25 %	207.5 S.F.	15.0 %
METAL CANOPIES & SUNSCREENS	15 %	65.5 S.F.	6.4 %
PREFINISHED METAL PANELS (PLAT)	25 %	670.5 S.F.	51.1 %
TOTAL		1,312.5 S.F.	100.0 %

NOTE: 1. TOTAL FACADE = 1,647 S.F. - GLASS STOREFRONT AND DOOR AREA OF 335 S.F. = 1,312 S.F.
2. A SECTION 9 FACADE WAIVER WILL BE REQUESTED AS REQUIRED FOR PREFINISHED METAL PANEL COVERAGE OF 26.1% AND BRICK SHORTAGE OF 3.3%.

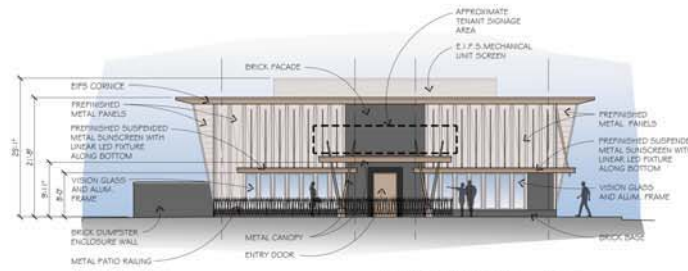
- GENERAL NOTES:
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 4. ALL OUTDOOR PATIO / DINING AREAS SERVING ALCOHOL WILL BE ENCLOSED WITH A METAL RAILING SYSTEM.
 5. OUTDOOR SEATING SHALL BE PERMITTED BETWEEN MARCH 1ST AND NOVEMBER 30TH, WITH ALL FURNITURE AND FIXTURES INCLUDING, BUT NOT LIMITED TO, TABLES, CHAIRS AND WASTE RECEPTACLES REMOVED FROM THE EXTERIOR TERRACES BY NOVEMBER 30TH. OUTDOOR SEATING SHALL NOT BE THE PRIMARY SEATING OF THE RESTAURANT.
 6. SIGNAGE AREAS SHOWN FOR CONCEPT ONLY. ACTUAL SIGNAGE TO BE SUBMITTED ON A TENANT BY TENANT BASIS, IN CONFORMANCE WITH THE APPROVED PRO AGREEMENT.



NORTH ELEVATION
SCALE: 3/32" = 1'-0"

NORTH ELEVATION MATERIALS	ALLOWABLE	PROPOSED	PERCENTAGE
MATERIAL			
CAST STONE	25 %	0.5 S.F.	0.0 %
BRICK	30 % MIN.	421.5 S.F.	35.1 %
EPS	25 %	198.5 S.F.	11.2 %
METAL CANOPIES & SUNSCREENS	15 %	0.5 S.F.	0.0 %
PREFINISHED METAL PANELS (PLAT)	25 %	950.5 S.F.	53.7 %
TOTAL		1,729.5 S.F.	100.0 %

NOTE: 1. TOTAL FACADE = 1,729 S.F. - GLASS STOREFRONT AND DOOR AREA OF 0 S.F. = 1,729 S.F.
2. A SECTION 9 FACADE WAIVER WILL BE REQUESTED AS REQUIRED FOR PREFINISHED METAL PANEL COVERAGE OF 25.7%.



WEST ELEVATION
SCALE: 3/32" = 1'-0"

WEST ELEVATION MATERIALS	ALLOWABLE	PROPOSED	PERCENTAGE
MATERIAL			
CAST STONE	25 %	0.5 S.F.	0.0 %
BRICK	30 % MIN.	418.5 S.F.	30.0 %
EPS CORNICE & FACADE	25 %	210.5 S.F.	16.1 %
METAL CANOPIES & SUNSCREENS	15 %	65.5 S.F.	6.1 %
PREFINISHED METAL PANELS (PLAT)	25 %	620.5 S.F.	46.8 %
TOTAL		1,335.5 S.F.	100.0 %

NOTE: 1. TOTAL FACADE = 1,664 S.F. - GLASS STOREFRONT AND DOOR AREA OF 271 S.F. = 1,393 S.F.
2. A SECTION 9 FACADE WAIVER WILL BE REQUESTED AS REQUIRED FOR PREFINISHED METAL PANEL COVERAGE OF 23.0%.



KEY PLAN
SCALE: N.T.S.

BUILDING B ELEVATIONS SAKURA NOVI

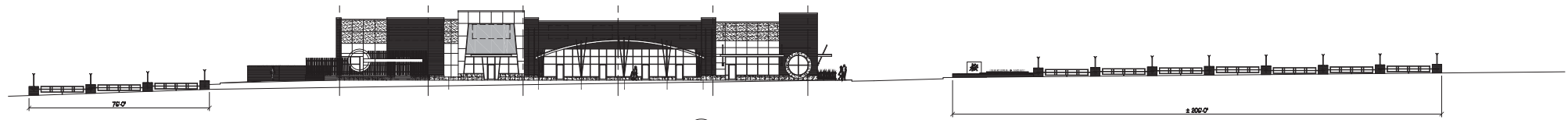
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42400 GRAND RIVER AVENUE, SUITE 300
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PHONE: 248-489-9140
PROJECT NO. 5035

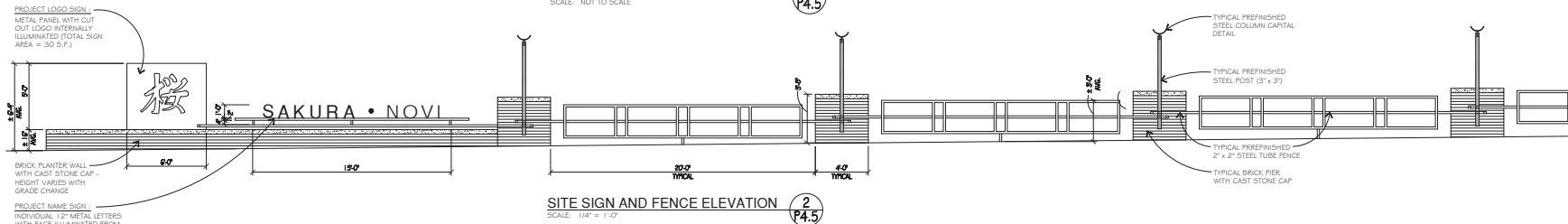
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P4.3

CAD DWG 5035 COLOR P4.3 30-19-DWG

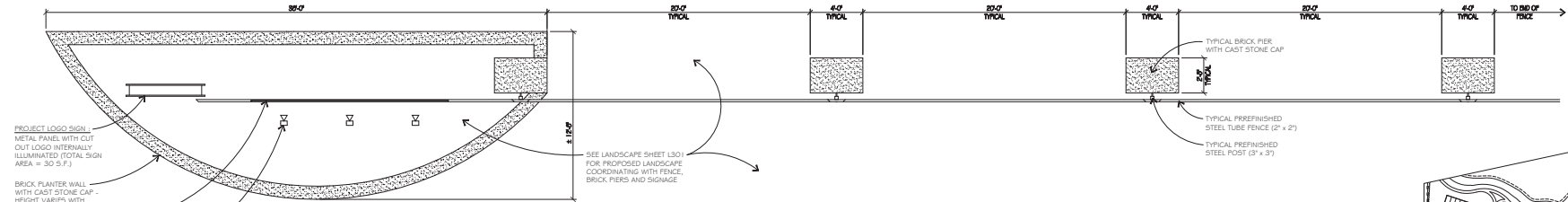
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CONCEPT MEETING
FEB. 27, 2019
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MAY 8, 2019
PRO REVISIONS
JUNE 26, 2019
PRO REVISIONS
REVISED SUBMITAL
SEPTEMBER 30, 2019



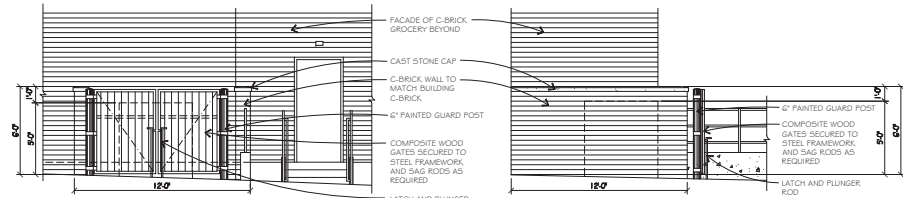
SITE SIGN AND FENCE ELEVATION
SCALE: NOT TO SCALE



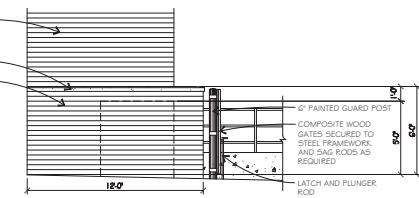
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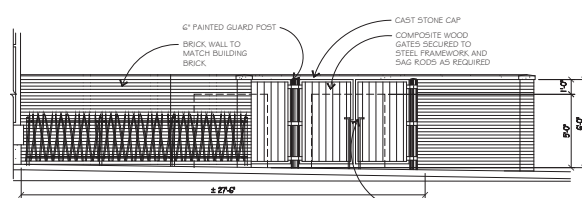
SITE SIGN AND FENCE PLAN
SCALE: 1/4\"/>



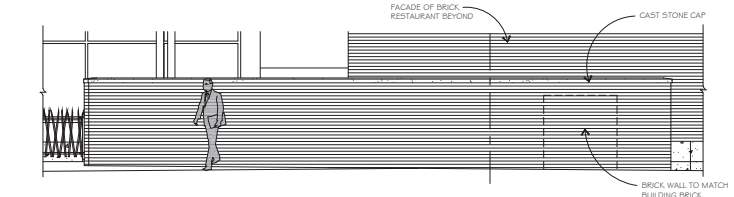
**BUILDING A RESTAURANT
DUMPSTER ENCLOSURE ELEVATION**
SCALE: 1/4\"/>



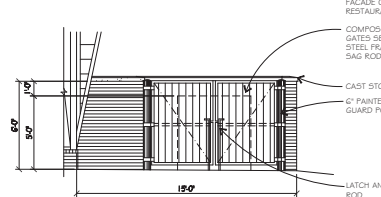
**BUILDING B
DUMPSTER ENCLOSURE ELEVATION**
SCALE: 1/4\"/>



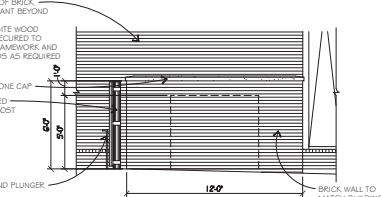
**BUILDING C
DUMPSTER ENCLOSURE ELEVATION**
SCALE: 1/4\"/>



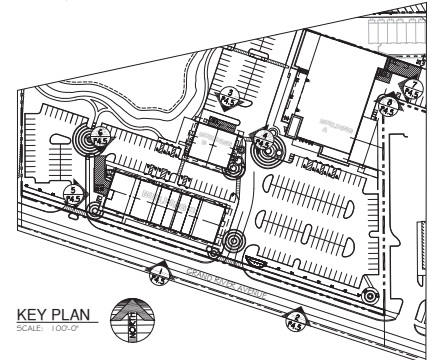
**BUILDING C
DUMPSTER ENCLOSURE ELEVATION**
SCALE: 1/4\"/>



**BUILDING B
DUMPSTER ENCLOSURE ELEVATION**
SCALE: 1/4\"/>



**BUILDING B
DUMPSTER ENCLOSURE ELEVATION**
SCALE: 1/4\"/>



KEY PLAN
SCALE: 100' = 1\"/>

GRAND RIVER AVENUE
SITE FENCE & SIGNAGE DETAILS
DUMPSTER ENCLOSURE DETAILS
SAKURA • NOVI
NOVI, MICHIGAN

**Robert B. Aikens
& ASSOCIATES, L.L.C.**
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WAH YEE ASSOCIATES
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PROJECT NO. 5035

ISSUED FOR
PRO REZONING
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OCTOBER 2, 2019

PRELIMINARY
NOT FOR CONSTRUCTION
P4.5

CAD DWG 5035 P42 10-2-19 DWG

MATERIAL	ALLOWABLE	PROPOSED	PERCENTAGE
BRICK	100%	531 SF	41%
SIDING	0%	344 SF	25.5%
SHINGLES	25%	308 SF	23.5%
TRIM	15%	124 SF	10%
TOTAL		1315 SF	100%

MATERIAL	ALLOWABLE	PROPOSED	PERCENTAGE
BRICK	100%	531 SF	41%
SIDING	0%	344 SF	25.5%
SHINGLES	25%	308 SF	23.5%
TRIM	15%	124 SF	10%
TOTAL		1315 SF	100%



MATERIAL	ALLOWABLE	PROPOSED	PERCENTAGE
BRICK	100%	431 SF	53%
SIDING	0%	490 SF	41%
SHINGLES	25%	0 SF	0%
TRIM	15%	48 SF	4%
TOTAL		189 SF	100%

MATERIAL	ALLOWABLE	PROPOSED	PERCENTAGE
BRICK	100%	431 SF	53%
SIDING	0%	490 SF	41%
SHINGLES	25%	0 SF	0%
TRIM	15%	48 SF	4%
TOTAL		189 SF	100%



MATERIAL	ALLOWABLE	PROPOSED	PERCENTAGE
BRICK	100%	514 SF	39%
SIDING	0%	310 SF	23%
SHINGLES	25%	214 SF	16%
TRIM	15%	284 SF	22%
TOTAL		1,324 SF	100%

MATERIAL	ALLOWABLE	PROPOSED	PERCENTAGE
BRICK	100%	514 SF	39%
SIDING	0%	310 SF	23%
SHINGLES	25%	214 SF	16%
TRIM	15%	284 SF	22%
TOTAL		1,324 SF	100%



BRIAN NEEPER ARCHITECTURE P.C.
DESIGN - PLANNING - INTERIORS
BLOOMFIELD HILLS, MICHIGAN
BRIANNEEPER.COM
248.258.1784

3 UNIT BUILDING ELEVATIONS

CLIENT / PROJECT

ROBERTSON HOMES
SAKURA NOVI
TOWNHOME UNITS - "100 SERIES"
NOVI, MICHIGAN

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9-27-19
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PERMITS
FINAL
REVISIONS
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JOB NUMBER
19011
DRAWN BY
BN / JF
CHECKED BY
SHEET NUMBER



R-1

REAR ELEVATION

MATERIAL	ALLOWABLE	PROPOSED	PERCENTAGE
BRICK	100%	843 SF	40%
SIDING	0%	5% SF	21%
SHINGLES	25%	512 SF	23%
TRIM	15%	213 SF	10%
TOTAL		2,184 SF	100%



REAR ELEVATION
5 UNIT BUILDING

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

LEFT/ RIGHT ELEVATION

MATERIAL	ALLOWABLE	PROPOSED	PERCENTAGE
BRICK	100%	431 SF	53%
SIDING	0%	490 SF	41%
SHINGLES	25%	0 SF	0%
TRIM	15%	48 SF	4%
TOTAL		1,184 SF	100%



LEFT SIDE ELEVATION

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

RIGHT SIDE ELEVATION

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

FRONT ELEVATION

MATERIAL	ALLOWABLE	PROPOSED	PERCENTAGE
BRICK	100%	850 SF	34%
SIDING	0%	513 SF	23%
SHINGLES	25%	374 SF	17%
TRIM	15%	442 SF	21%
TOTAL		2,201 SF	100%



ELEV. 'A' ELEV. 'B' ELEV. 'C' ELEV. 'B' ELEV. 'A'
FRONT ELEVATION
5 UNIT BUILDING

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



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DESIGN - PLANNING - INTERIORS
BLOOMFIELD HILLS, MICHIGAN
BRIANNEEPER.COM
248.259.1784

5 UNIT BUILDING
ELEVATIONS

ROBERTSON HOMES
SAKURA NOVI
TOWNHOME UNITS - '100 SERIES'
NOVI, MICHIGAN

CLIENT / PROJECT

PREPARED BY	9-27-18
DESIGNED BY	
REVISED BY	
REVISED BY	
REVISED BY	
DATE	10/01
DESIGNED BY	BN / JF
CHECKED BY	
SHEET NUMBER	



R-2

REAR ELEVATION

MATERIAL	ALLOWABLE	PROPOSED	PERCENTAGE
BRICK	100%	134 SF	38%
SIDING	0%	1,005 SF	29%
SHINGLES	25%	819 SF	23%
TRIM	15%	346 SF	10%
TOTAL		3,484 SF	100%



REAR ELEVATION
8 UNIT BUILDING

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

LEFT/ RIGHT ELEVATION

MATERIAL	ALLOWABLE	PROPOSED	PERCENTAGE
BRICK	100%	431 SF	53%
SIDING	0%	440 SF	41%
SHINGLES	25%	0 SF	0%
TRIM	15%	48 SF	4%
TOTAL		1,089 SF	100%



LEFT SIDE ELEVATION

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

RIGHT SIDE ELEVATION

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

FRONT ELEVATION

MATERIAL	ALLOWABLE	PROPOSED	PERCENTAGE
BRICK	100%	1,354 SF	38%
SIDING	0%	811 SF	23%
SHINGLES	25%	428 SF	18%
TRIM	15%	124 SF	21%
TOTAL		3,517 SF	100%



FRONT ELEVATION
8 UNIT BUILDING

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



BRIAR NEEP ARCHITECTURE P.C.
DESIGN - PLANNING - INTERIORS
BLOOMFIELD HILLS, MICHIGAN
BRIARNEEP.COM
248.259.1784

8 UNIT BUILDING
ELEVATIONS

ROBERTSON HOMES
SAKURA NOVI
TOWNHOME UNITS - '100 SERIES'
NOVI, MICHIGAN

CLIENT / PROJECT

PREPARED BY	9-27-18
DESIGNED BY	
DRAWN BY	
CHECKED BY	
DATE	10/11
PROJECT	
REVISIONS	
DATE	
BY	
DESCRIPTION	



R-4

REAR ELEVATION

MATERIAL	ALLOWABLE	PROPOSED	PERCENTAGE
BRICK	100%	342 SF	14%
SIDING	0%	1,010 SF	41%
SHINGLES	25%	444 SF	20%
TRIM	15%	313 SF	11%
TOTAL		2,311 SF	100%



REAR ELEVATION
5 UNIT BUILDING

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

LEFT/ RIGHT ELEVATION

MATERIAL	ALLOWABLE	PROPOSED	PERCENTAGE
BRICK	100%	314 SF	31%
SIDING	0%	417 SF	58%
SHINGLES	25%	0 SF	0%
TRIM	15%	49 SF	5%
TOTAL		1,040 SF	100%



LEFT SIDE ELEVATION

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

RIGHT SIDE ELEVATION

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

FRONT ELEVATION

MATERIAL	ALLOWABLE	PROPOSED	PERCENTAGE
BRICK	100%	111 SF	33%
SIDING	0%	437 SF	40%
SHINGLES	25%	317 SF	13.5%
TRIM	15%	313 SF	13.5%
TOTAL		2,344 SF	100%



FRONT ELEVATION
5 UNIT BUILDING

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



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BRIANNEEPER.COM
248.259.1784

5 UNIT BUILDING
ELEVATIONS

ROBERTSON HOMES
SAKURA NOVI
TOWNHOME UNITS - "200 SERIES"
NOVI, MICHIGAN

CLIENT / PROJECT

PREPARED BY	9-27-19
DESIGNED BY	
REVISED BY	
REVISIONS	
CHECKED BY	19011
DATE	09/27/2019
PROJECT	SAKURA NOVI TOWNHOME UNITS - "200 SERIES"
CLIENT	ROBERTSON HOMES
LOCATION	NOVI, MICHIGAN



R-5



BRIAN NEPPER ARCHITECTURE P.C.
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BRIANNEPER.COM
248.259.1784

8 UNIT BUILDING
ELEVATIONS

ROBERTSON HOMES
SAKURA NOVI
TOWNHOME UNITS - "200 SERIES"
NOVI, MICHIGAN

CLIENT / PROJECT

PREPARED BY	9-27-19
DESIGNED BY	
PROJECT NO.	
REVISIONS	
DATE	
BY	
FOR	
BY	
FOR	
DATE	
BY	
FOR	
DATE	
BY	
FOR	

R-6



REAR ELEVATION
8 UNIT BUILDING

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

REAR ELEVATION

MATERIAL	ALLOWABLE	PROPOSED	PERCENTAGE
BRICK	100%	561 SF	15.5%
SIDING	0%	1,148 SF	41.5%
SHINGLES	25%	145 SF	20%
TRIM	15%	429 SF	17%
TOTAL		3,411 SF	100%

LEFT/ RIGHT ELEVATION

MATERIAL	ALLOWABLE	PROPOSED	PERCENTAGE
BRICK	100%	394 SF	37%
SIDING	0%	411 SF	58%
SHINGLES	25%	0 SF	0%
TRIM	15%	49 SF	5%
TOTAL		1,040 SF	100%

FRONT ELEVATION

MATERIAL	ALLOWABLE	PROPOSED	PERCENTAGE
BRICK	100%	1,231 SF	33%
SIDING	0%	1,455 SF	39%
SHINGLES	25%	534 SF	14%
TRIM	15%	518 SF	14%
TOTAL		3,144 SF	100%



LEFT SIDE ELEVATION

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

RIGHT SIDE ELEVATION

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



FRONT ELEVATION
8 UNIT BUILDING

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





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BLOOMFIELD HILLS, MICHIGAN
BRIANNEEPER.COM
248.250.1784

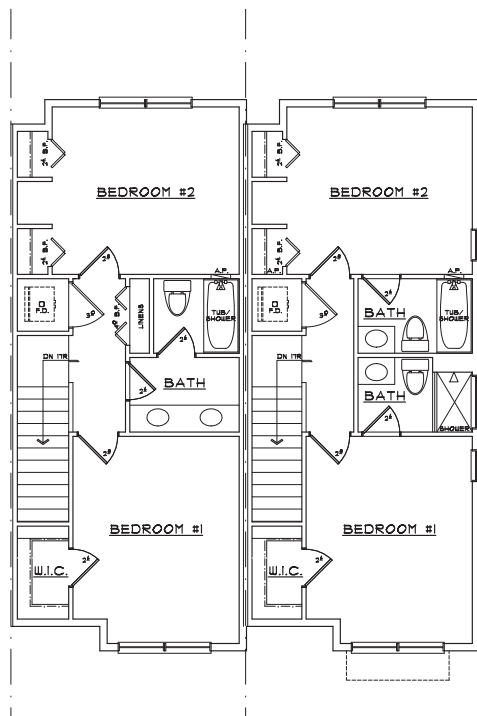
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CLIENT / PROJECT

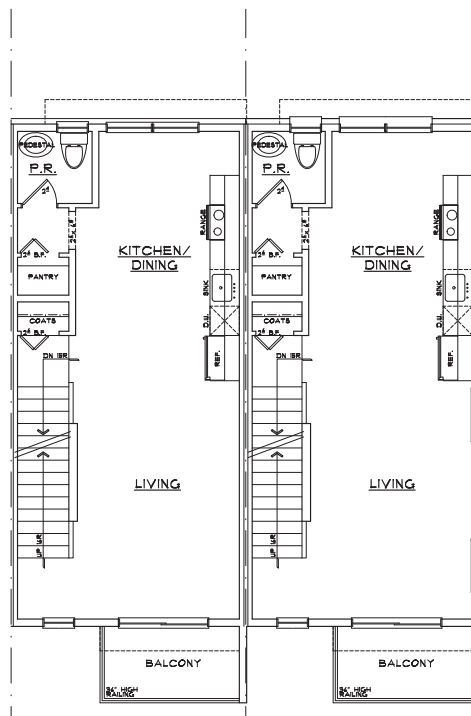
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SAKURA NOVI
TOWNHOME UNITS - "100 SERIES"
NOVI, MICHIGAN

PRELIMINARY	9-27-19
BIDS	
PERMITS	
FINAL	
REVISIONS	
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SQUARE FOOTAGE	
LOWER LEVEL	36 SQ FT
1ST FLOOR	548 SQ FT
2ND FLOOR	601 SQ FT
TOTAL	1184 SQ FT



"B / C" END UNIT - "A"
SECOND FLOOR PLAN
STANDARD INTERIOR LAYOUT

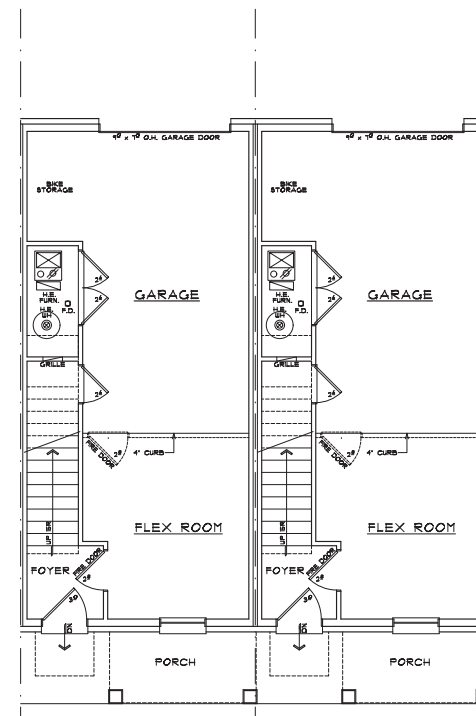


"B / C"
FIRST FLOOR PLAN

END UNIT - "A"

STANDARD INTERIOR LAYOUT

SCALE: 1/4" = 1'-0"



"B / C" END UNIT - "A"
GROUND FLOOR PLAN
STANDARD INTERIOR LAYOUT SCALE: 1/4" = 1'-0"





SQUARE FOOTAGE	
LOWER LEVEL	215 SQ FT
1ST FLOOR	484 SQ FT
2ND FLOOR	442 SQ FT
TOTAL	1,541 SQ FT

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DESIGN - PLANNING - INTERIORS
BLOOMFIELD HILLS, MICHIGAN
BRIANNEEPER.COM
248.250.1784

SHEET TITLE
UNIT PLANS

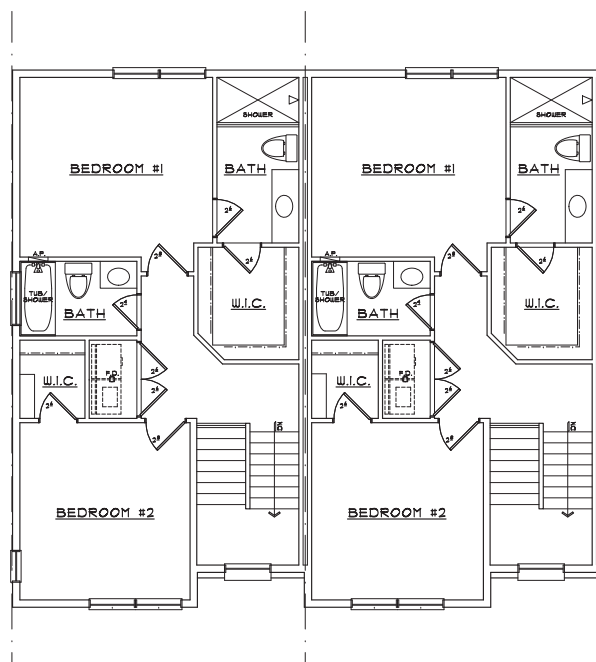
CLIENT / PROJECT

ROBERTSON HOMES
SAKURA NOVI
TOWNHOME UNITS - "200 SERIES"
NOVI, MICHIGAN

PRELIMINARY	9-27-19
BIDS	
PERMITS	
FINAL	
REVISIONS	

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ARCHITECTURE P.A.	
JOB NUMBER	190
DRAWN BY	BN
CHECKED BY	
SHEET NUMBER	

R-8

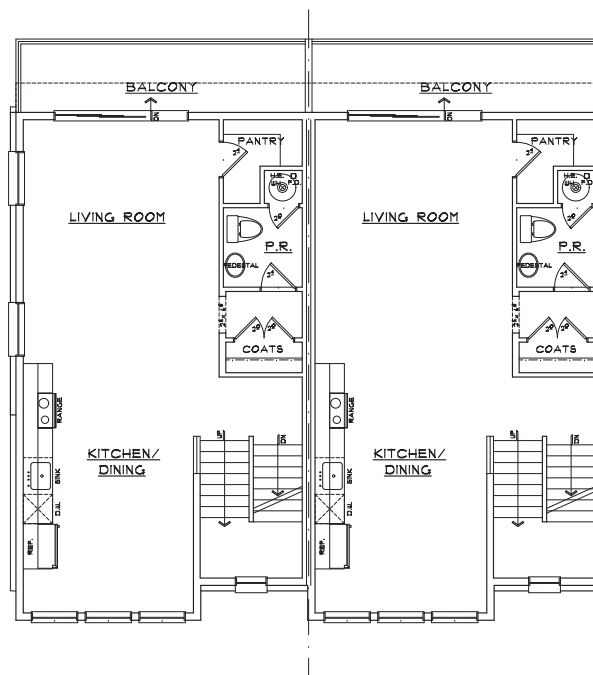


END UNIT - "A"
SECOND FLOOR PLAN

"B / C"

STANDARD INTERIOR LAYOUT

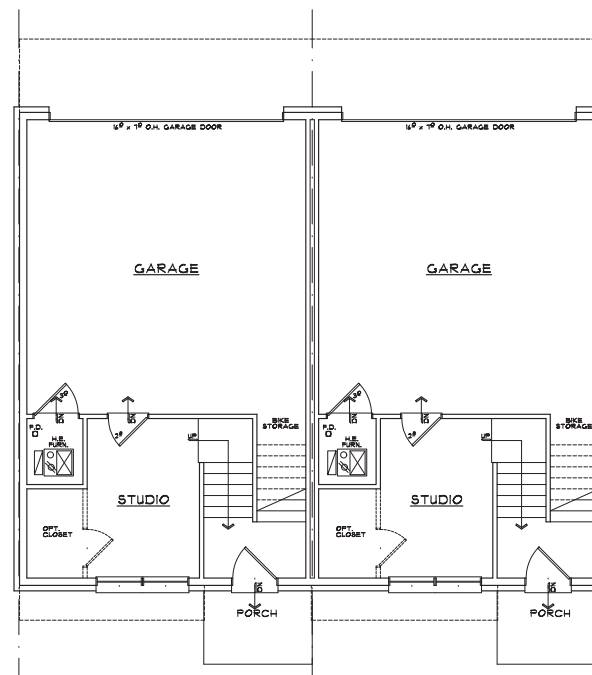
SCALE: 1/4" = 1' 00"



END UNIT - "A"
FIRST FLOOR PLAN

"B / C"

STANDARD INTERIOR LAYOUT

SCALE: $4/4^{\circ} = 41.0^{\circ}$ 

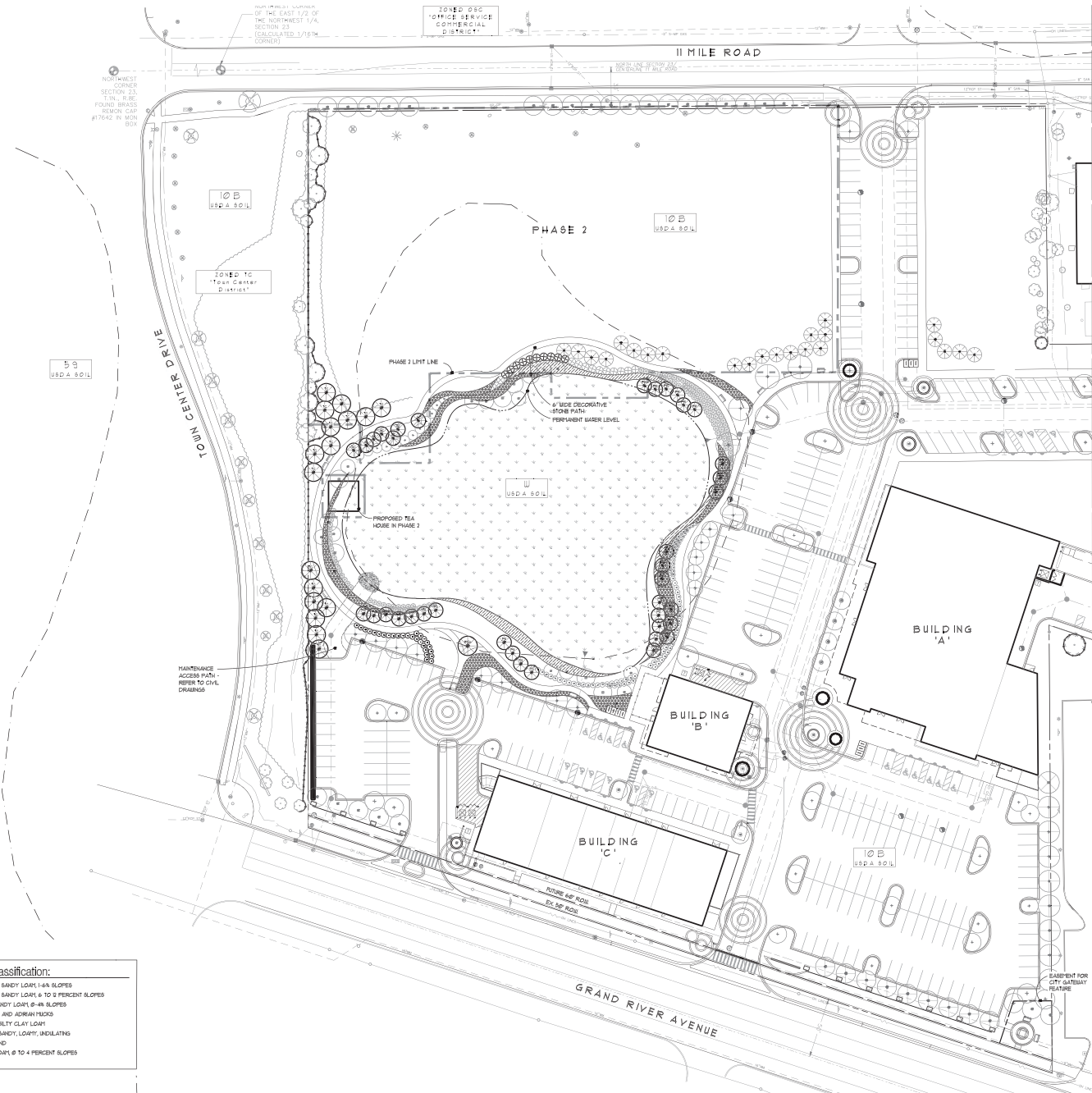
END UNIT - "A"
GROUND FLOOR PLAN

"B / C"

STANDARD INTERIOR LAYOUT

SCALE: 1/4" = 1'-0"

USDA Soils Classification:	
W8	FAIRLETT SANDY LOAM 1-4% SLOPES
W8C	FAIRLETT SANDY LOAM 6 TO 8 PERCENT SLOPES
IB	CAPAC SANDY LOAM 6-8% SLOPES
Z1	HOUGHTON AND ADRIAN TUCKS
33	LENAHIE SILTY CLAY LOAM
4B	ADRIAN SANDY LOAM 1% SLOPES
96	URBAN LAND
BH4B	BLOUNT LOAM 6 TO 4 PERCENT SLOPES
W	WATER



Ordinance Considerations: Woodland Tree Replacement Chart

REQUIREMENTS	
1. Replace specified trees within 5 City of Novi regulated woodlands by planting one 12" caliper sized deciduous trees for six of other regulated (see 9.1 for the City's Tree Rules) or a combination of both.	
2. Refer to Woodland Tree Replacement Chart below to quantify the number of replacement trees required.	

REMOVED	REPLACEMENT
12" DBH	12" DBH
18" DBH	18" DBH
24" DBH	24" DBH
30" DBH	30" DBH
36" DBH	36" DBH
42" DBH	42" DBH
48" DBH	48" DBH
54" DBH	54" DBH
60" DBH	60" DBH
66" DBH	66" DBH
72" DBH	72" DBH
78" DBH	78" DBH
84" DBH	84" DBH
90" DBH	90" DBH
96" DBH	96" DBH
102" DBH	102" DBH
108" DBH	108" DBH
114" DBH	114" DBH
120" DBH	120" DBH
126" DBH	126" DBH
132" DBH	132" DBH
138" DBH	138" DBH
144" DBH	144" DBH
150" DBH	150" DBH
156" DBH	156" DBH
162" DBH	162" DBH
168" DBH	168" DBH
174" DBH	174" DBH
180" DBH	180" DBH
186" DBH	186" DBH
192" DBH	192" DBH
198" DBH	198" DBH
204" DBH	204" DBH
210" DBH	210" DBH
216" DBH	216" DBH
222" DBH	222" DBH
228" DBH	228" DBH
234" DBH	234" DBH
240" DBH	240" DBH
246" DBH	246" DBH
252" DBH	252" DBH
258" DBH	258" DBH
264" DBH	264" DBH
270" DBH	270" DBH
276" DBH	276" DBH
282" DBH	282" DBH
288" DBH	288" DBH
294" DBH	294" DBH
300" DBH	300" DBH
306" DBH	306" DBH
312" DBH	312" DBH
318" DBH	318" DBH
324" DBH	324" DBH
330" DBH	330" DBH
336" DBH	336" DBH
342" DBH	342" DBH
348" DBH	348" DBH
354" DBH	354" DBH
360" DBH	360" DBH
366" DBH	366" DBH
372" DBH	372" DBH
378" DBH	378" DBH
384" DBH	384" DBH
390" DBH	390" DBH
396" DBH	396" DBH
402" DBH	402" DBH
408" DBH	408" DBH
414" DBH	414" DBH
420" DBH	420" DBH
426" DBH	426" DBH
432" DBH	432" DBH
438" DBH	438" DBH
444" DBH	444" DBH
450" DBH	450" DBH
456" DBH	456" DBH
462" DBH	462" DBH
468" DBH	468" DBH
474" DBH	474" DBH
480" DBH	480" DBH
486" DBH	486" DBH
492" DBH	492" DBH
498" DBH	498" DBH
504" DBH	504" DBH
510" DBH	510" DBH
516" DBH	516" DBH
522" DBH	522" DBH
528" DBH	528" DBH
534" DBH	534" DBH
540" DBH	540" DBH
546" DBH	546" DBH
552" DBH	552" DBH
558" DBH	558" DBH
564" DBH	564" DBH
570" DBH	570" DBH
576" DBH	576" DBH
582" DBH	582" DBH
588" DBH	588" DBH
594" DBH	594" DBH
600" DBH	600" DBH
606" DBH	606" DBH
612" DBH	612" DBH
618" DBH	618" DBH
624" DBH	624" DBH
630" DBH	630" DBH
636" DBH	636" DBH
642" DBH	642" DBH
648" DBH	648" DBH
654" DBH	654" DBH
660" DBH	660" DBH
666" DBH	666" DBH
672" DBH	672" DBH
678" DBH	678" DBH
684" DBH	684" DBH
690" DBH	690" DBH
696" DBH	696" DBH
702" DBH	702" DBH
708" DBH	708" DBH
714" DBH	714" DBH
720" DBH	720" DBH
726" DBH	726" DBH
732" DBH	732" DBH
738" DBH	738" DBH
744" DBH	744" DBH
750" DBH	750" DBH
756" DBH	756" DBH
762" DBH	762" DBH
768" DBH	768" DBH
774" DBH	774" DBH
780" DBH	780" DBH
786" DBH	786" DBH
792" DBH	792" DBH
798" DBH	798" DBH
804" DBH	804" DBH
810" DBH	810" DBH
816" DBH	816" DBH
822" DBH	822" DBH
828" DBH	828" DBH
834" DBH	834" DBH
840" DBH	840" DBH
846" DBH	846" DBH
852" DBH	852" DBH
858" DBH	858" DBH
864" DBH	864" DBH
870" DBH	870" DBH
876" DBH	876" DBH
882" DBH	882" DBH
888" DBH	888" DBH
894" DBH	894" DBH
900" DBH	900" DBH
906" DBH	906" DBH
912" DBH	912" DBH
918" DBH	918" DBH
924" DBH	924" DBH
930" DBH	930" DBH
936" DBH	936" DBH
942" DBH	942" DBH
948" DBH	948" DBH
954" DBH	954" DBH
960" DBH	960" DBH
966" DBH	966" DBH
972" DBH	972" DBH
978" DBH	978" DBH
984" DBH	984" DBH
990" DBH	990" DBH
996" DBH	996" DBH
1002" DBH	1002" DBH
1008" DBH	1008" DBH
1014" DBH	1014" DBH
1020" DBH	1020" DBH
1026" DBH	1026" DBH
1032" DBH	1032" DBH
1038" DBH	1038" DBH
1044" DBH	1044" DBH
1050" DBH	1050" DBH
1056" DBH	1056" DBH
1062" DBH	1062" DBH
1068" DBH	1068" DBH
1074" DBH	1074" DBH
1080" DBH	1080" DBH
1086" DBH	1086" DBH
1092" DBH	1092" DBH
1098" DBH	1098" DBH
1104" DBH	1104" DBH
1110" DBH	1110" DBH
1116" DBH	1116" DBH
1122" DBH	1122" DBH
1128" DBH	1128" DBH
1134" DBH	1134" DBH
1140" DBH	1140" DBH
1146" DBH	1146" DBH
1152" DBH	1152" DBH
1158" DBH	1158" DBH
1164" DBH	1164" DBH
1170" DBH	1170" DBH
1176" DBH	1176" DBH
1182" DBH	1182" DBH
1188" DBH	1188" DBH
1194" DBH	1194" DBH
1200" DBH	1200" DBH
1206" DBH	1206" DBH
1212" DBH	1212" DBH
1218" DBH	1218" DBH
1224" DBH	1224" DBH
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1278" DBH	1278" DBH
1284" DBH	1284" DBH
1290" DBH	1290" DBH
1296" DBH	1296" DBH
1302" DBH	1302" DBH
1308" DBH	1308" DBH
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1374" DBH	1374" DBH
1380" DBH	1380" DBH
1386" DBH	1386" DBH
1392" DBH	1392" DBH
1398" DBH	1398" DBH
1404" DBH	1404" DBH
1410" DBH	1410" DBH
1416" DBH	1416" DBH
1422" DBH	1422" DBH
1428" DBH	1428" DBH
1434" DBH	1434" DBH
1440" DBH	1440" DBH
1446" DBH	1446" DBH
1452" DBH	1452" DBH
1458" DBH	1458" DBH
1464" DBH	1464" DBH
1470" DBH	1470" DBH
1476" DBH	1476" DBH
1482" DBH	1482" DBH
1488" DBH	1488" DBH
1494" DBH	1494" DBH
1500" DBH	1500" DBH
1506" DBH	1506" DBH
1512" DBH	1512" DBH
1518" DBH	1518" DBH
1524" DBH	1524" DBH
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1602" DBH	1602" DBH
1608" DBH	1608" DBH
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1776" DBH	1776" DBH
1782" DBH	1782" DBH
1788" DBH	1788" DBH
1794" DBH	1794" DBH
1800" DBH	1800" DBH
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1896" DBH	1896" DBH
1902" DBH	1902" DBH
1908" DBH	1908" DBH
1914" DBH	1914" DBH
1920" DBH	1920" DBH
1926" DBH	1926" DBH
1932" DBH	1932" DBH
1938" DBH	1938" DBH
1944" DBH	1944" DBH
1950" DBH	1950" DBH
1956" DBH	1956" DBH
1962" DBH	1962" DBH
1968" DBH	1968" DBH
1974" DBH	1974" DBH
1980" DBH	1980" DBH
1986" DBH	1986" DBH
1992" DBH	1992" DBH
1998" DBH	1998" DBH
2004" DBH	2004" DBH
2010" DBH	2010" DBH
2016" DBH	2016" DBH
2022" DBH	2022" DBH
2028" DBH	2028" DBH
2034" DBH	2034" DBH
2040" DBH	2040" DBH
2046" DBH	2046" DBH
2052" DBH	2052" DBH
2058" DBH	2058" DBH
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2082" DBH	2082" DBH
2088" DBH	2088" DBH
2094" DBH	2094" DBH
2100" DBH	2100" DBH
2106" DBH	2106" DBH
2112" DBH	2112" DBH
2118" DBH	2118" DBH
2124" DBH	2124" DBH
2130" DBH	2130" DBH
2136" DBH	2136" DBH
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2148" DBH	2148" DBH
2154" DBH	2154" DBH
2160" DBH	2160" DBH
2166" DBH	2166" DBH
2172" DBH	2172" DBH
2178" DBH	2178" DBH
2184" DBH	2184" DBH
2190" DBH	2190" DBH
2196" DBH	2196" DBH
2202" DBH	2202" DBH
2208" DBH	2208" DBH
2214" DBH	2214" DBH
2220" DBH	2220" DBH
2226" DBH	2226" DBH
2232" DBH	2232" DBH
2238" DBH	2238" DBH
2244" DBH	2244" DBH
2250" DBH	2250" DBH
2256" DBH	2256" DBH
2262" DBH	2262" DBH
2268" DBH	2268" DBH
2274" DBH	2274" DBH
2280" DBH	2280" DBH
2286" DBH	2286" DBH
2292" DBH	2292" DBH
2298" DBH	2298" DBH
2304" DBH	2304" DBH
2310" DBH	2310" DBH
2316" DBH	2316" DBH
2322" DBH	2322" DBH
2328" DBH	2328" DBH
2334" DBH	2334" DBH
2340" DBH	2340" DBH
2346" DBH	2346" DBH
2352" DBH	2352" DBH
2358" DBH	2358" DBH
2364" DBH	2364" DBH
2370" DBH	2370" DBH
2376" DBH	2376" DBH
2382" DBH	2382" DBH
2388" DBH	2388" DBH
2394" DBH	2394" DBH
2400" DBH	2400" DBH
2406" DBH	2406" DBH
2412" DBH	2412" DBH

PLANT TAG - REFER TO LANDSCAPE PLANTING PLANS
AND PLANT LIST FOR SPECIFICATION AND QUANTITIES

- USDA Soils Classification:

- General Notes:

1. REFER TO COVER SHEET FOR DEVELOPER AND OWNER CONTACT INFORMATION
2. REFER TO CIVIL DRAWINGS FOR EXISTING TREE SURVEY, EXISTING PHRAGMITES TREE LIST, REMOVALS, WOODLAND IMPACTS AND PROTECTION
3. REFER TO CIVIL DRAWINGS FOR EXISTING SURVEY, PROPOSED SITE LAYOUT, AND DIMENSIONS
4. REFER TO LANDSCAPE PLANTING PLANS AND PLANT LIST FOR PROPOSED PLANT SPECIES, SPECIFICATION, AND QUANTITIES



Requirement 1 20' wide greenbelt along Grand River Ave and 11 Mile Rd wherever adjacent to parking. 0' wide greenbelt.

- West Property Line (Sec. 5.5.3.A.ii)

- South Property Line (Sec. 5.5.3.A.ii)

- | | |
|----------|--|
| Proposed | 1. Refer to section and deviation request. |
|----------|--|

Requirement L One street tree/35 LF of frontage (295 LF proposed).
26 street trees are required (295/35 = 37 trees)

- Parking Area Landscape (Sec. 5.5.3.C.ii)

Category I of Chart. Due to the location of driveway throughout the site, only the parking areas south of Building 1 and south of Building 4 have been

- Proposed 1. No exterior parking trees are proposed, as they are not required in the residential portion of the site.

Requirement	1. 1 Perimeter tree are required. One canopy tree/35 LF of parking lot boundary. $243 / 35 = 6.94$
Proposed	1. 7 Canopy trees provided for 243 LF of parking lot

- | | |
|-------------|--|
| Requirement | 1. 35% of building facades facing road/drives shall be landscaped with plantings other than lawn. |
| Proposed | 1. Planting beds have been added to all building facades facing internal drives, except where adjacent to driveway of the units - refer to drawing request |

Building Landscape (Sec. 5.5.3.F.ii)

- 204 trees are shown throughout the site that are intended to meet the Unit trees requirement. This figure includes all trees also intended to meet parking area parameter requirements.
- Verbal permission has been received from city to allow up to 35% of the required unit trees to be sub-canopy.

Requirement 1. A total of 10-25% of the east storm basin rim area is

- Woodland Tree Replacement Plan (Sec. 37)

Irrigation (LDM 1.A.(1)(e) and 2.S)

- L. A permanent, automatic irrigation system will be provided for planting and seeded lawn areas as required per the ordinance.



311 East Cady Street
Northville, MI 48167

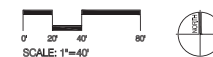
Project:
Sakura Novi
Novi, Michigan

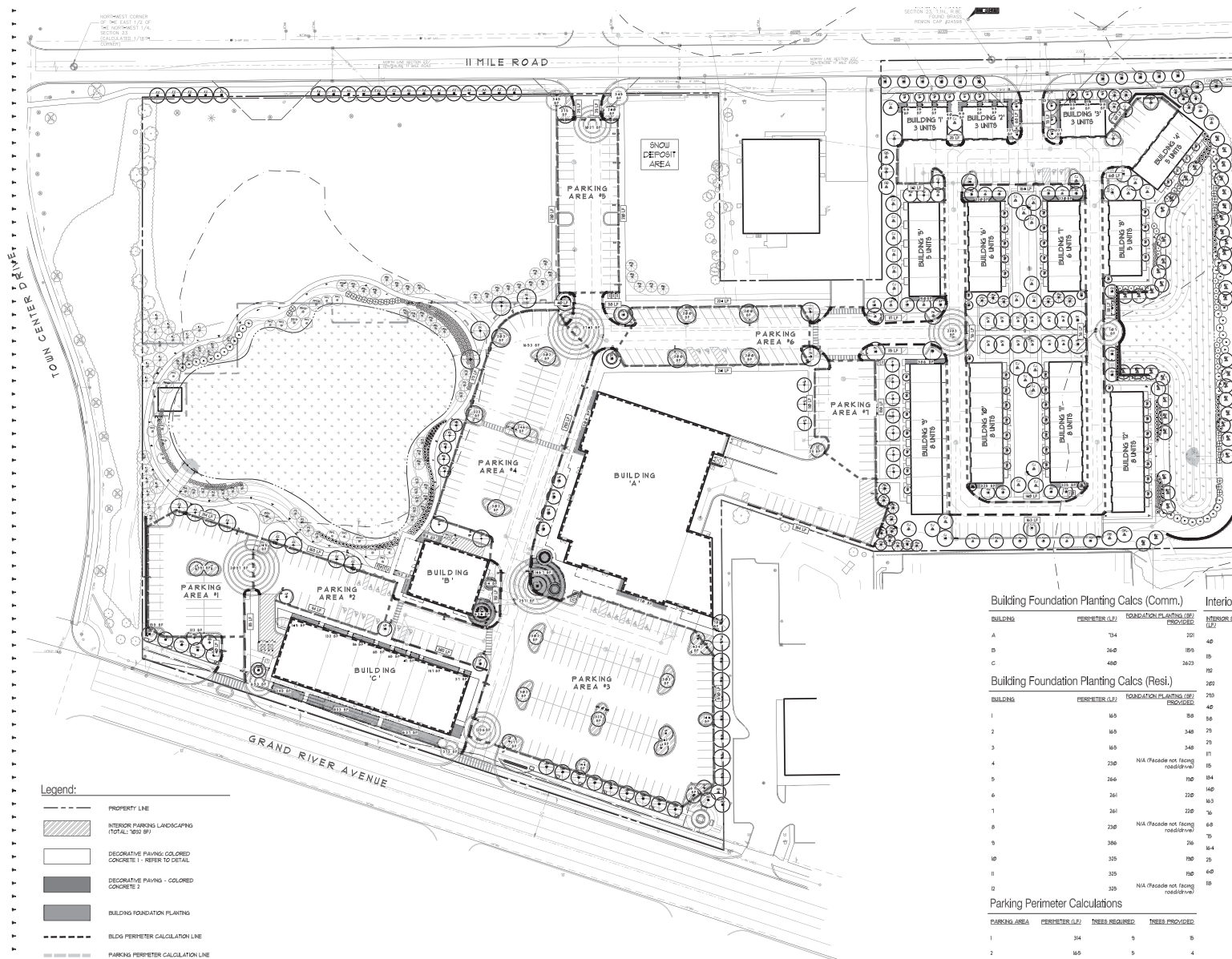
Landscape Ordinance Plan

Job Number:	A01-191
Drawn:	MS/EG/SE
Checked:	SG
Scale:	1"=40'

Date:	Issued for:
06.28.2019	Preliminary Site Plan Submission
10.02.2019	PRO Rezoning Revised Submittal

Sheet Number: **L202**





- Legend:**
- PROPERTY LINE
 - INTERIOR PARKING LANDSCAPING (TOTAL: 100 SF)
 - DECORATIVE PAVING - COLORED CONCRETE - REFER TO DETAIL
 - DECORATIVE PAVING - COLORED CONCRETE - 1
 - BUILDING FOUNDATION PLANTING
 - BUILD PERIMETER CALCULATION LINE
 - PARKING PERIMETER CALCULATION LINE (1 TREE/50 LF)
 - LENGTH DEDUCTED FROM PERIMETER CALCULATION
 - INTERIOR STREET PERIMETER CALCULATION LINE (1 TREE/50 LF)
 - RETAINING WALL
 - BKE RACS
8 TOTAL - 20 BIKES - COMMERCIAL
1 TOTAL - 4 BIKES - RESIDENTIAL

Parking Area Landscape (Sec. 5.5.3.c.ii)

1. Greenhouse parking lot area landscape for total square footage of Vehicle Use Area based upon Category 1 or Table 5.5.3.c.ii.
2. Provide parking lot canopy trees (8" landscape area / 1000' 1650'2000' - 35' (35'x50'))
3. Provide parking lot shade (1000' 1000' 8'x8')

Parking Area 1
A) 160 SF x 8'7" (134') = 640 SF
B) 8'x8' x 40' (160') = 640 SF REQ'D.

1. 3 canopy trees required (640 / 200 = 3 trees)
2. 640 SF parking island landscaping has been provided. 0 canopy interior trees have been provided.

Parking Area 2
A) 160 SF x 8'7" (134') = 640 SF
B) 8'x8' x 40' (160') = 640 SF REQ'D.

1. 3 canopy trees required (640 / 200 = 3 trees)
2. 640 SF parking island landscaping has been provided. 0 canopy interior trees have been provided. Refer to deviation request.

Parking Area 3
A) 160 SF x 8'7" (134') = 640 SF
B) 8'x8' x 40' (160') = 640 SF REQ'D.

1. 3 canopy trees required (640 / 200 = 3 trees)
2. 640 SF parking island landscaping has been provided. 0 canopy interior trees have been provided. Refer to deviation request.

Parking Area 4
A) 160 SF x 8'7" (134') = 640 SF
B) 8'x8' x 40' (160') = 640 SF REQ'D.

1. 3 canopy trees required (640 / 200 = 3 trees)
2. 640 SF parking island landscaping has been provided. 0 canopy interior trees have been provided. Refer to deviation request.

Parking Area 5
A) 160 SF x 8'7" (134') = 640 SF
B) 8'x8' x 40' (160') = 640 SF REQ'D.

1. 3 canopy trees required (640 / 200 = 3 trees)
2. 640 SF parking island landscaping has been provided. 0 canopy interior trees have been provided. Refer to deviation request.

Parking Area 6
A) 160 SF x 8'7" (134') = 640 SF
B) 8'x8' x 40' (160') = 640 SF REQ'D.

1. 3 canopy trees required (640 / 200 = 3 trees)
2. 640 SF parking island landscaping has been provided. 0 canopy interior trees have been provided. Refer to deviation request.

Parking Area 7
A) 160 SF x 8'7" (134') = 640 SF
B) 8'x8' x 40' (160') = 640 SF REQ'D.

1. 3 canopy trees required (640 / 200 = 3 trees)
2. 640 SF parking island landscaping has been provided. 0 canopy interior trees have been provided. Refer to deviation request.

Building Foundation Planting Calcs (Comm.)

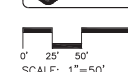
BUILDING	PERIMETER (LF)	FOUNDATION PLANTING (SF) PROVIDED	INTERIOR STREET LENGTH (LF)	TREES REQUIRED	TREES PROVIDED
A	134	201	40	1	0
B	240	189	185	3	0
C	400	2623	150	9	1

Building Foundation Planting Calcs (Resi.)

BUILDING	PERIMETER (LF)	FOUNDATION PLANTING (SF) PROVIDED	INTERIOR STREET LENGTH (LF)	TREES REQUIRED	TREES PROVIDED
1	165	80	50	2	1
2	165	340	25	1	0
3	165	340	171	3	3
4	230	N/A (Facade not facing road/driv)	15	3	2
5	246	190	184	5	0
6	261	220	140	4	4
7	261	220	163	5	5
8	230	N/A (Facade not facing road/driv)	16	2	2
9	236	150	75	2	2
10	325	190	25	1	1
11	325	190	60	2	2
12	325	N/A (Facade not facing road/driv)	18	3	4

Parking Perimeter Calculations

PARKING AREA	PERIMETER (LF)	TREES REQUIRED	TREES PROVIDED
1	314	5	0
2	165	5	4
	114	3	2
3	110	16	20
4	371	8	11
5	200	6	1
6	180	6	1
6	124	6	1
	241	1	1
7	180	3	3
	88	5	



Key Map
Scale: Not to Scale



**GRISSIM
METZ
ANDRIESE**
Associates
Landscape Architecture

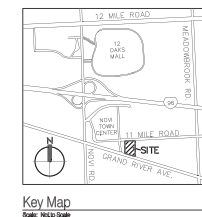
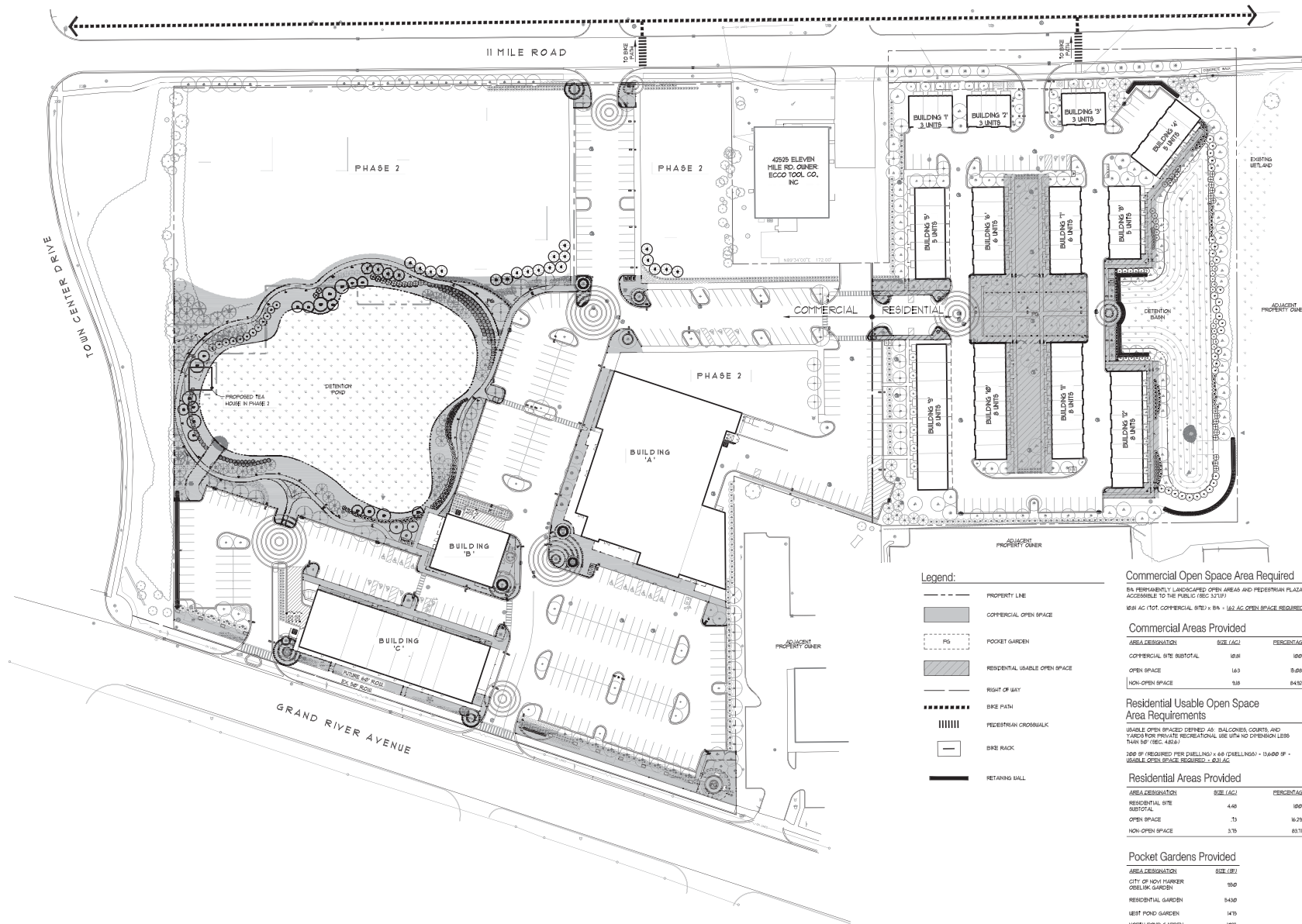
311 East Cady Street
Northville, MI 48167
Ph: 248-347-7010

Project:
Sakura Novi
New Michigan

Sheet:
Landscape Ordinance Plan

Date: 05.28.2019
10.02.2019
Issued for: Preliminary Site Plan Submission
PRO Revising Revised Submittal

Sheet Number:
L203
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GRISSIM METZ ANDRIESE

Landscape Architecture

311 East Cady Street
Northville, MI 48167

Ph: 248-347-7010

Project:
Sakura Novi
New, Michigan

Client:
Open Space, Bicycle, and Pedestrian Plan
Phase 1

Job Number: A01-191
 Drawn: MS/ES/SE
 Checked: SG
 Scale: 1"=50'

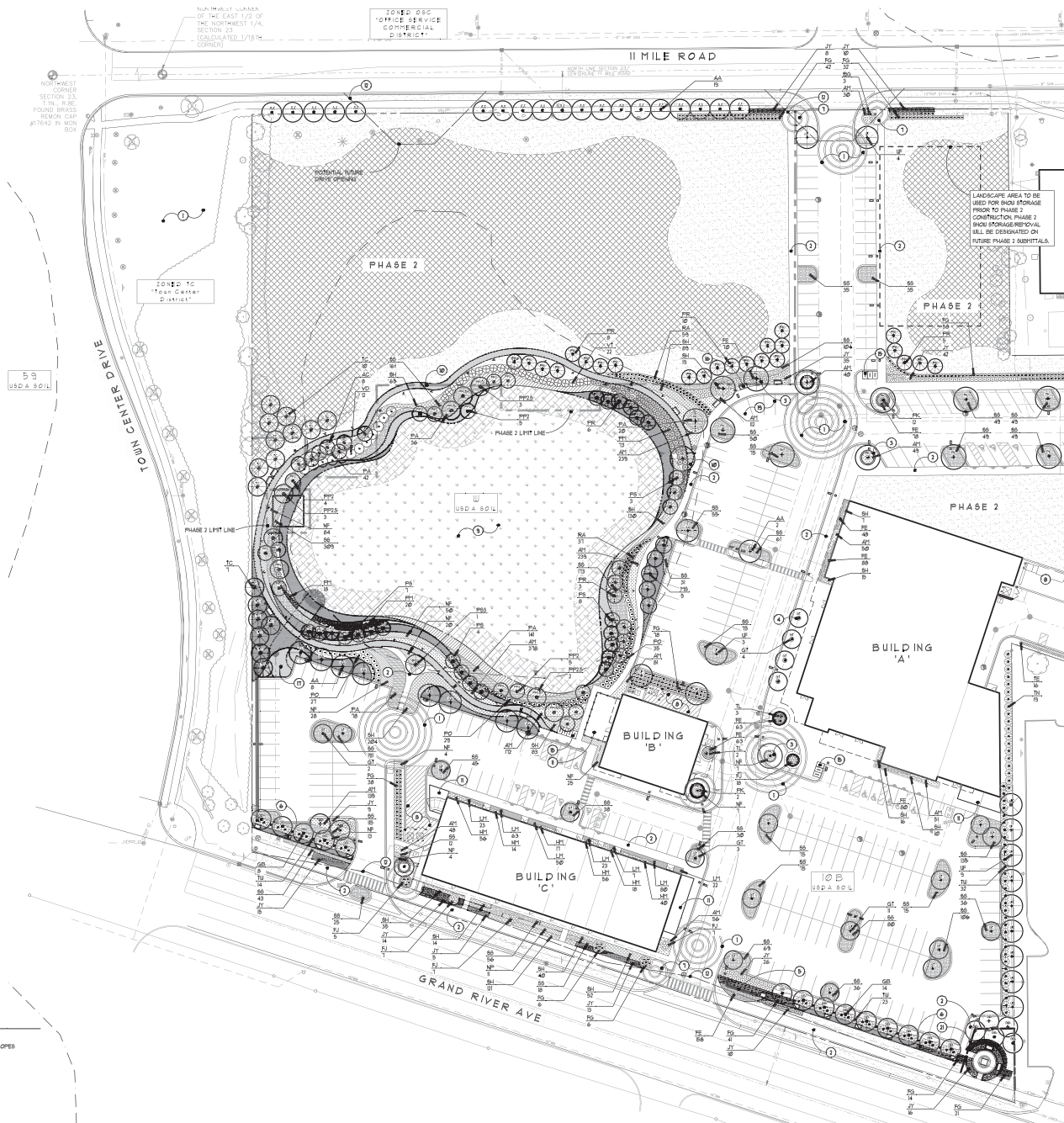
Date: 05.28.2019
 10.02.2019
 Based On: Preliminary Site Plan Submission
 PKO Revising Revised Submission

Sheet Number:
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L204

USDA Soils Classification:

58S	HAIRLETTE SANDY LOAM 1-4% SLOPES
58C	HAIRLETTE SANDY LOAM 6 TO 12 PERCENT SLOPES
58	CAPAC SANDY LOAM 2-4% SLOPES
71	HOUSTON AND JORDAN WOODS
33	LEWISVILLE SALTY CLAY LOAM
48B	AGENTS, SANDY, LOAMY, UNCONSOLIDATING
59	URBAN LAND
58a-00	SLOPEY LOAM 0 TO 4 PERCENT SLOPES
U	WATER



Landscape Planting Legend:

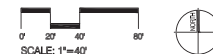
- PLANT TAG - REFER TO PLANT LIST FOR SPECIFICATION AND QUANTITIES ON L404
- GREENBELT CANOPY STREET TREES - SEE LANDSCAPE ORNAMENTAL PLANS
- ROAD / ARTERIALS / SUB-CANOPY STREET TREES - SEE LANDSCAPE ORNAMENTAL PLANS
- INTERIOR STREET TREES - SEE LANDSCAPE ORNAMENTAL PLANS
- PARKING LOT INTERIOR TREES - SEE LANDSCAPE ORNAMENTAL PLANS
- PARKING LOT PERIMETER TREES - DECIDUOUS AND EVERGREEN - SEE LANDSCAPE ORNAMENTAL PLANS
- RESIDENTIAL BUILDING UNIT TREES - DECIDUOUS AND EVERGREEN - SEE LANDSCAPE ORNAMENTAL PLANS
- MODULAR REPLACEMENT TREES - SEE LANDSCAPE ORNAMENTAL PLANS
- ADDITIONAL IDENTITY TREES
- FOUNDATION TREES
- EXISTING TREES TO REMAIN - PROTECT THROUGHOUT CONSTRUCTION
- BODDED LASH
- HEADQUARTERS LASH - TYPE 'A' ON 2" TOPSOIL
- STORMWATER SEED HYDRATE TYPE 'B' ON 2" TOPSOIL
- EMERGENT METAL BED HYDRATE TYPE 'C' - SEED TO EXISTING WATER LINE AT TIME OF CONSTRUCTION
- BIKE RACKS - SEE TYP. DETAIL
- BENCH - SEE TYP. DETAIL
- 4" DEPTH DECORATIVE STONE FILL TYPE 'A' OVER NON-SOFTEN FILTER FABRIC
- 4" DEPTH DECORATIVE STONE FILL TYPE 'B' OVER NON-SOFTEN FILTER FABRIC
- ORNBARK
- RETAINING WALL - REFER TO CIVIL DOCUMENTATION
- LIGHT POLES - REFER TO LIGHTING PLAN
- LIGHT BOLLARDS - REFER TO LIGHTING PLAN
- MAIL BOXES REFER TO DETAIL

Note Key:

- 1. HEAVY DUTY COLORED CONCRETE ACCENT PAVING, TYP. - REFER TO DETAIL AND CIVIL PLANS
- 2. CONCRETE WALK, TYP.
- 3. IN-GROUND PLANTING WITH ORNAMENTAL TREES OR PLANTINGS - REFER TO DETAIL
- 4. STREET TREES IN TREE GRATES
- 5. BARRICADE IDENTIFICATION SIGNAGE - REFER TO ARCHITECTURAL PLANS
- 6. MASONRY FENCES WITH ORNAMENTAL FENCING - REFER TO ARCHITECTURAL PLANS
- 7. FREESTANDING PLAZA WITH COLORED CONCRETE ACCENT PAVING AND ORNAMENTAL PLANTINGS
- 8. SERVICE/LOADING AREA WITH PLANTING SCREEN
- 9. DETENTION POND / WATER FEATURE WITH AERATING FOUNTAINS
- 10. 4" WIDE DECORATIVE STONE WALKWAY
- 11. OUTDOOR DINING
- 12. NIGHT VISION TRIANGLE
- 13. TERRACE OVERLOOK
- 14. RESIDENTIAL IDENTIFICATION SIGNAGE
- 15. BIKE RACK, TYP. - REFER TO DETAIL
- 16. BENCH, TYP. - REFER TO DETAIL
- 17. STONY BARRICADE MAINTENANCE ACCESS ROUTE - REFER TO CIVIL DRAWINGS
- 18. OPEN LASH GATE AREA
- 19. WIDE SHARING PICK UP / DROP OFF AREA
- 20. ORNAMENTAL POND GATE
- 21. EXISTENT FOR CITY GATEWAY FEATURE
- 22. DETENTION BASIN - REFER TO CIVIL DRAWINGS

General Notes:

- ALL PLANTS SHALL BE LOCATED TO PROVIDE THE MINIMUM REQUIRED SET BACK PROPORTIONS AND PROPORTION LINES. THE LANDSCAPE PLANTING PLANS IN THE FINAL SITE PLAN SUBMISSION SHALL PROVIDE DIMENSIONS TO THE UTILITIES AND PROPERTY LINES.
- THE LANDSCAPE IMPROVEMENTS ARE SCHEDULED FOR SPRING 2021.
- REFER TO SHEET L405 FOR ADDITIONAL LANDSCAPE NOTES AND DETAILS.
- WE ARE PROVIDING 11 BIKE RACKS TO ACCOMMODATE 34 BIKES TO BE INSTALLED IN LOCATIONS SHOWN IN PHASE 1. 10 BIKE RACKS ARE IN THE COMMERCIAL AREA AND 1 ARE IN THE RESIDENTIAL AREA. ADDITIONAL BIKE RACKS WILL BE ADDED IN PHASE 2 AND SUBSEQUENT.



Key Map
Scale: 1"=1 Mile



**GRISSIM
METZ
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Associates

Landscape Architecture
311 East Cady Street
Northville, MI 48167
Ph: 248-347-7010

Project:
Sakura Novi
New, Michigan

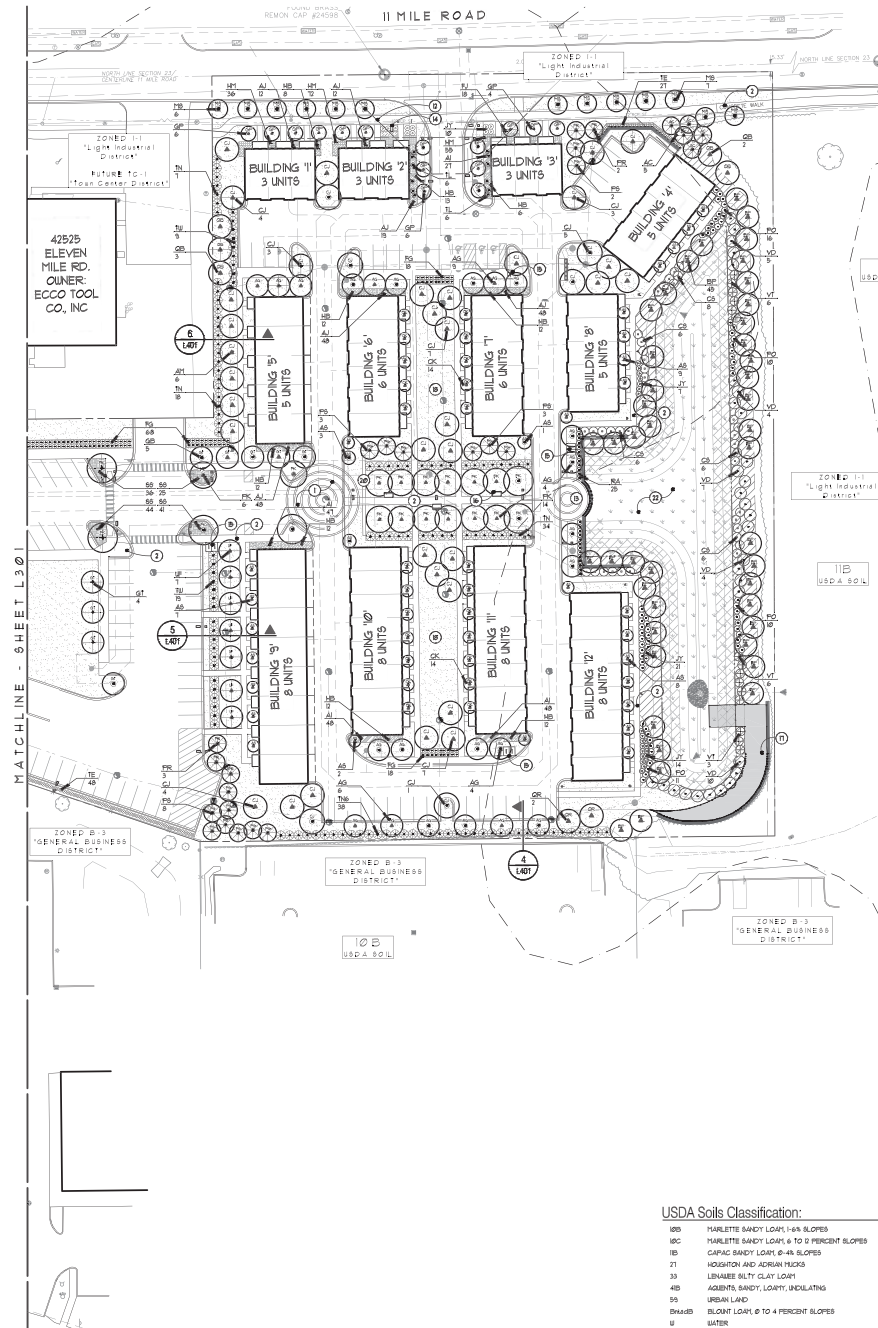
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Landscape Planting Plan

Job Number: A01-191
Drawn: MS/ES/SE
Checked: SC
Scale: 1"=40'

Date: 06.28.2019
10.02.2019
Issued for: Preliminary Site Plan Submission
PKO Receiving Revised Submittal

Sheet Number:
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L301



Landscape Planting Legend:

- PLANT TAG - REFER TO PLANT LIST FOR SPECIFICATION AND QUANTITIES ON L301
- GREENBELT CANOPY STREET TREES - SEE LANDSCAPE ORNAMENTAL PLANS
- ROCK / GARDENBELT CANOPY STREET TREES - SEE LANDSCAPE ORNAMENTAL PLANS
- INTERIOR STREET TREES - SEE LANDSCAPE ORNAMENTAL PLANS
- PARKING LOT INTERIOR TREES - SEE LANDSCAPE ORNAMENTAL PLANS
- PARKING LOT PERIMETER TREES - DECIDUOUS AND EVERGREEN - SEE LANDSCAPE ORNAMENTAL PLANS
- RESIDENTIAL BUILDING UNIT TREES - DECIDUOUS AND EVERGREEN - SEE LANDSCAPE ORNAMENTAL PLANS
- WOODLAND REPLACEMENT TREES - SEE WOODLAND REPLACEMENT PLANS
- ADDITIONAL IDENTITY TREES
- FOUNDATION TREE
- EXISTING TREES TO REMAIN - PROTECT THROUGHOUT CONSTRUCTION
- ROCKED LAWN
- HEADS/LAWN - TYPE 'A' ON 2" TOPSOIL
- STONEWATER SEED HYDRANGE TYPE 'B' ON 2" TOPSOIL
- EVERGREEN METLAND SEED HYDRANGE TYPE 'C' - SEED TO EXISTING WATER LINE AT TIME OF CONSTRUCTION
- BIKE RACKS - SEE TYP. DETAIL
- BENCH - SEE TYP. DETAIL
- 4" DEPTH DECORATIVE STONE MULCH TYPE 'A' OVER NON-WOVEN FILTER FABRIC
- 4" DEPTH DECORATIVE STONE MULCH TYPE 'B' OVER NON-WOVEN FILTER FABRIC
- CROSSWALK
- RETAINING WALL - REFER TO CIVIL DOCUMENTATION
- LIGHT POLES - REFER TO LIGHTING PLAN
- LIGHT BOLLARDS - REFER TO LIGHTING PLAN
- MAIL BOXES REFER TO DETAIL

Note Key:

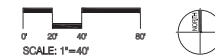
- HEAVY DUTY COLORED CONCRETE ACCENT PAVING, TYP. - REFER TO DETAIL AND CIVIL PLANS
- CONCRETE WALK, TYP.
- IN-GROUND PLANTING WITH ORNAMENTAL TREES OR PLANTINGS - REFER TO DETAILS
- STREET TREES IN TREE GRATES
- BARBURY NOVI IDENTIFICATION SIGNAGE - REFER TO ARCHITECTURAL PLANS
- BARBURY TREES WITH ORNAMENTAL FENCING - REFER TO ARCHITECTURAL PLANS
- FEDERTRAIL PLAZA WITH COLORED CONCRETE ACCENT PAVING AND ORNAMENTAL PLANTINGS
- PERIMETER FENCING AREA WITH PLANTING SCREEN
- DETENTION POND / WATER FEATURE WITH AERATING FOUNTAINS
- 4" WIDE DECORATIVE STONE WALKWAY
- OUTDOOR DINING
- SIGHT VISION TRIANGLE
- TERRACE OVERLOOK
- RESIDENTIAL IDENTIFICATION SIGNAGE
- BIKE RACK, TYP. - REFER TO DETAIL
- BENCH, TYP. - REFER TO DETAIL
- STORY BARN MAINTENANCE ACCESS ROUTE - REFER TO CIVIL DRAWINGS
- OPEN LAWN GATE AREA
- RIDE SHARING PICK UP / DROP OFF AREA
- ORNAMENTAL POND GATE
- EXHIBENT FOR CITY GATEWAY FEATURE
- DETENTION BASIN - REFER TO CIVIL DRAWINGS

General Notes:

- ALL PLANTS SHALL BE LOCATED TO PROVIDE THE MINIMUM REQUIRED SET BACK FROM UTILITIES AND PROPERTY LINES. THE LANDSCAPE PLANTING PLANS IN THE FINAL SITE PLAN SUBMISSION SHALL PROVIDE DIMENSIONS TO THE UTILITIES AND PROPERTY LINES.
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- WE ARE PREPARING 11 BIKE RACKS TO ACCOMMODATE 34 BIKES TO BE INSTALLED IN LOCATIONS SHOWN IN PHASE 1. 10 BIKE RACKS ARE IN THE COMMERCIAL AREA AND 1 ARE IN THE RESIDENTIAL AREA. ADDITIONAL BIKE RACKS WILL BE ADDED IN PHASE 2 AS REQUIRED.

USDA Soils Classification:

- 800 CHARLETTIE SANDY LOAM, 1-6% SLOPES
- 80C CHARLETTIE SANDY LOAM, 6 TO 12 PERCENT SLOPES
- 100 CAPAC SANDY LOAM, 0-4% SLOPES
- 21 HODGSON AND ADRIAN TUCKS
- 33 LEMAYEE SALTY CLAY LOAM
- 40S AGENTS, SANDY, LOAMY, UNCLAYING
- 95 URBAN LAID
- 95a/95b BLOUNT LOAM, 0 TO 4 PERCENT SLOPES
- W WATER



Key Map
Scale: Not to Scale



**GRISSIM
METZ
ANDRIESE**

Landscape Architecture

311 East Cady Street
Northville, MI 48167

Ph: 248-347-7010

Project:
Sakura Novi
New, Michigan

Sheet:
Landscape Planting Plan

Job Number: A01-191
Drawn: MS/ES/SE
Checked: SC
Scale: 1"=40'

Date: 06.28.2019
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Issued for: Preliminary Site Plan Submission
PNO Receiving Revised Submittal

Sheet Number:
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L302



Includes Pedestal

All Aluminum Construction

SALDORRY
A Division of THE SARGENT COMPANY

UNIT COLOR:	CLUSTER BOX UNIT
PAINT:	GALVALUME RECTIFIED
BRIDGE:	MANUAL DISC BRIDGE
MODEL:	336PLK-U
COLOR:	BLACK

5 Typical 16 Unit Mailbox
NOT TO SCALE



4 Typical Mailbox Layout Plan
SCALE: 1/4" = 1'-0"



Ph: 248-347-7010

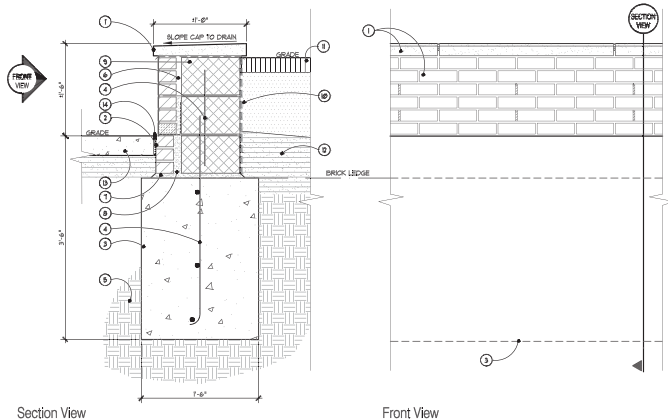
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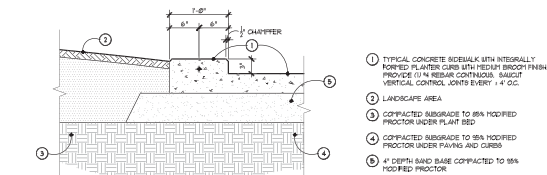


- ① U' SHAPED ORNAMENTAL BIKERACK
- ② CONCRETE SLAB - REFER TO CIVIL DOCUMENTS
- ③ BIKE PARKING SPACE, TYP.

1 Typical Bicycle Parking Layout Plan
SCALE: 1/4" = 1'-0"



2
L402 18" Masonry Seatwall
NOT TO SCALE



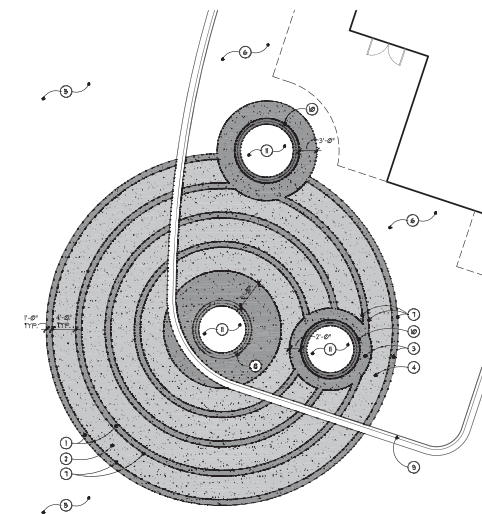
3
L402 Typical Concrete Planter Curb Detail
SCALE: 1" = 1'-0"

- 1 TYPICAL CONCRETE SIDEWALK WITH INTEGRALLY FORMED PLANTER CURB WITH MEDIUM BROOK FINISH. PROVIDE (1) 4" REBAR CONTROLS. SPACED VERTICAL CONTROL JOINTS EVERY 4'-0".
- 2 LANDSCAPE AREA
- 3 COMPACTED SUBGRADE TO 95% MODIFIED PROCTOR UNDER PLANT BED
- 4 COMPACTED SUBGRADE TO 95% MODIFIED PROCTOR UNDER PAVING AND CURB
- 5 4" DEPTH SAND BASE COMPACTED TO 95% MODIFIED PROCTOR

- 1 BRICK PLANTER WALL WITH CAST STONE CAP MATERIAL AND BRICK CORNERS PATTERN TO MATCH PLANTER WALL AT 20' FROM GRAND RIVER AVENUE - REFER TO ARCHITECTURAL DRAWINGS
- 2 (1) COURSE BELOW GRADE, TYP. DRAIN PROOF FACE OF ALL MASONRY BELOW GRADE, TYP.
- 3 CONCRETE FOUNDATION
- 4 VERT. BAR REINFORCING
- 5 COMPACTED SUBGRADE TO 95% MODIFIED PROCTOR
- 6 VOID SPACE
- 7 1" MORTAR SETTING BED
- 8 GROUT FILL FULL VOID SPACE BELOW FLASHING, TYP.
- 9 (1) CHS BACKUP - GROUT FILL FULL ALL CORNS AND VOID SPACES BETWEEN BLOCKS
- 10 DRAIN PROOF FACE OF CHS BLOCK WHERE ADJACENT TO BACKFILL
- 11 LANDSCAPE AREA - REFER TO LANDSCAPE PLANS AND DETAILS
- 12 ENGINEERED SAND BACKFILL COMPACTED TO 95% MODIFIED PROCTOR
- 13 TYPICAL INTEGRALLY COLORED CONCRETE SIDEWALK
- 14 EXPANSION JOINT WITH BACKER ROD AND SEALANT. SEALANT COLOR TO MATCH COLORED CONCRETE



Precedent Image



1
L402 Typical Decorative Paving Enlargement
SCALE: 1" = 10'-0"

Note Key:

- 1 HEAVY DUTY INTEGRALLY COLORED CONCRETE PAVING WITH RAKED FINISH COLOR A
- 2 HEAVY DUTY INTEGRALLY COLORED CONCRETE PAVING WITH RAKED FINISH COLOR B
- 3 LIGHT DUTY INTEGRALLY COLORED CONCRETE PAVING WITH RAKED FINISH COLOR A
- 4 LIGHT DUTY INTEGRALLY COLORED CONCRETE PAVING WITH RAKED FINISH COLOR B
- 5 ASPHALT PAVING
- 6 NON-COLORED LIGHT DUTY CONCRETE PAVING WITH MEDIUM BROOK FINISH
- 7 PROVIDE DOUBLED EXPANSION JOINTS WITH BACKER ROD AND SEALANT BETWEEN CONCRETE POIRS. SEALANT COLOR TO MATCH COLORED CONCRETE. BACKER RODS MUST BE APPROVED
- 8 CONCRETE PLANTER CURB POURED INTEGRALLY WITH COLORED CONCRETE PAVING COLOR A - REFER TO DETAIL
- 9 CONCRETE CURB AND GUTTER - REFER TO CIVIL DOCUMENTS
- 10 MASONRY SEATWALL - REFER TO DETAIL
- 11 PLANTED AREA - REFER TO LANDSCAPE PLANS

NOTE: REFER TO CIVIL DOCUMENTS FOR TYPICAL PAVING DETAILS

Colored Concrete:

MANUFACTURER: LVI ROOFIELD
COLOR A: CHROMIX C-34 DARK GRAY
COLOR B: CHROMIX C-38 COOL GRAY
GREENS: CHROMIX C-38 COOL GRAY
SEALANT: LITHOCHROME COLORWAY
SEALANT COLOR MATCH TO COLORED CONCRETE. APPLY (2) COATS, SPRAYED THEN ROLLED



**GRISSIM
METZ
ANDRIESE**
ASSOCIATES

Landscape Architecture

311 East Cady Street
Northville, MI 48167

Ph: 248-347-7010

Project:
Sakura Novi
New, Michigan

Sheet:
Site Details

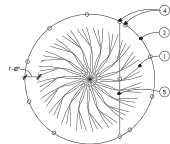
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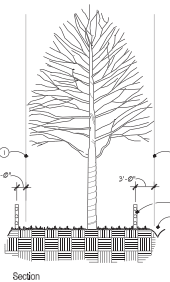
Revised for:
Preliminary Site Plan Submission
PRO Accounting Revised Submission

Sheet Number:
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L402



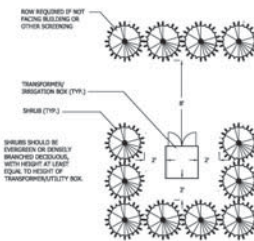
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Section

8 Tree Protection Detail

L403 NOT TO SCALE

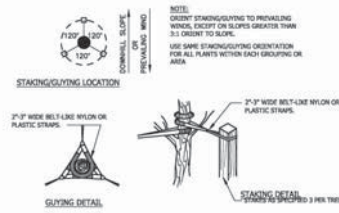


7 Transformer Screening Detail

L403 NOT TO SCALE

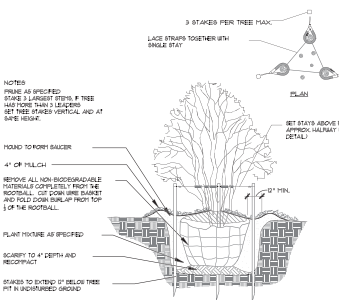
6 Tree Staking Detail

L403 NOT TO SCALE



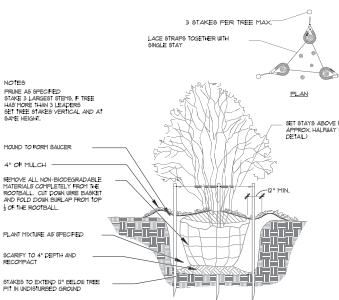
5 Groundcover / Perennial Planting Detail

L403 NOT TO SCALE



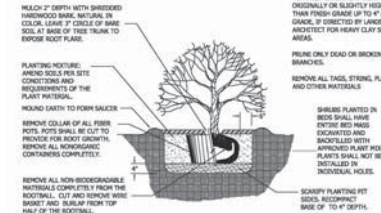
4 Multi-stem Tree Planting Detail

L403 NOT TO SCALE



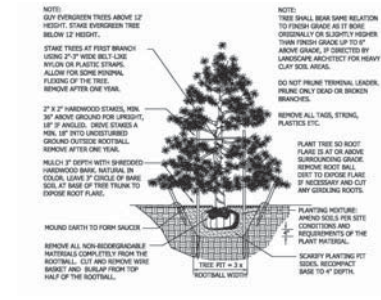
3 Shrub Planting Detail

L403 NOT TO SCALE



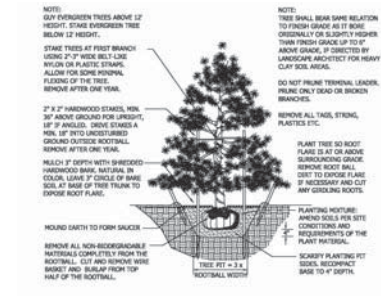
2 Deciduous Tree Planting Detail

L403 NOT TO SCALE



1 Evergreen Tree Planting Detail

L403 NOT TO SCALE



CITY OF NOVI LANDSCAPE NOTES:

1. ALL PLANT MATERIALS ARE TO BE INSTALLED IN A BOND, BONDABLE-LIKE FORMER AND IN ACCORDANCE WITH THE CURRENT CITY OF NOVI PLANTING REQUIREMENTS.
2. ALL PLANT MATERIALS ARE TO BE INSTALLED IN A BOND, BONDABLE-LIKE FORMER AND IN ACCORDANCE WITH THE CURRENT CITY OF NOVI PLANTING REQUIREMENTS. ALL PLANT MATERIALS SHALL CONFORM TO THE CURRENT CITY OF NOVI PLANTING REQUIREMENTS. ALL PLANT MATERIALS SHALL CONFORM TO THE CURRENT CITY OF NOVI PLANTING REQUIREMENTS. ALL PLANT MATERIALS SHALL CONFORM TO THE CURRENT CITY OF NOVI PLANTING REQUIREMENTS.
3. ALL TREES SHALL HAVE A CENTRAL LEADER AND A RADIAL BRANCHING STRUCTURE. PLANT GRACE TREES ARE NOT ACCEPTABLE. ALL TREES SHALL BE BALLED AND BURLAPPED TREES.
4. ANY DECIDUOUS CANOPY TREES WITH BRANCHES THAT TEND TO DROP LEAVES INTO VEHICULAR OR PEDESTRIAN AREAS SHALL BE SUBSTITUTED SO AS NOT TO BECOME DOPHANT BRANCHES.
5. TREES SHALL BE NATURAL COLOR WHEN PLANTED. WOODS AND GRASS SHALL BE REPLACED WITHIN ONE (1) YEAR OF THE NEXT APPROPRIATE PLANTING PERIOD. BARK COPIES MUST BE MAINTAINED.
6. ALL PLANT MATERIAL SHALL BE MAINTAINED FOR TWO (2) FULL YEARS AFTER DATE OF ACCEPTANCE BY THE CITY OF NOVI. ALL BURLAP AND GRASS MATERIAL SHALL BE REPLACED WITHIN ONE (1) YEAR OF THE NEXT APPROPRIATE PLANTING PERIOD. BARK COPIES MUST BE MAINTAINED.
7. ALL PLANT MATERIAL SHALL BE MAINTAINED IN A HEALTHY GROWING CONDITION. IRRIGATION MATERIALS, IRRIGATION LINE CONTROL, AND NO.10. BURLAP SHALL BE MAINTAINED DURING THE TWO-YEAR PERIOD.
8. A HISTORY OF ONE (1) YEAR GROWING CULTIVATION PERIOD OCCURRING IN JUNE, JULY, AND AUGUST SHALL BE PERFORMED DURING THE TWO-YEAR PERIOD.
9. ANY SUBSTITUTION OR DEVIATIONS FROM THE LANDSCAPE PLAN MUST BE APPROVED IN WRITING BY THE CITY OF NOVI PRIOR TO INSTALLATION.
10. ALL TREE BARK STAKES AND BARK MUST BE REPLACED BY JULY 1 FOLLOWING THE FIRST WINTER SEASON AFTER INSTALLATION.
11. ALL LANDSCAPE AREAS ARE TO BE MAINTAINED IN HEALTHY GROWING CONDITION. TREES OF GROWING AND BURLAP ARE IN CONFORMANCE WITH THE APPROVED LANDSCAPE PLAN.
12. ALL LANDSCAPE AREAS ARE TO BE MAINTAINED BY A RELIABLE IRRIGATION SYSTEM EXCEPT AROUND THE DETENTION POND WHICH SHALL HAVE DRAIN COPIES LOCATED 100' AWAY TO ACCESS FOR COPE LIFTING.
13. CONTRACTOR TO REMOVE ALL CONSTRUCTION DEBRIS AND EXCESS MATERIALS FROM THE SITE PRIOR TO FINAL ACCEPTANCE.
14. PLANT MATERIALS EXCEPT SOIL, GRASS, COVERS, AND CREEPING VINE TYPE PLANTING SHALL NOT BE LOCATED WITHIN FOUR (4) FEET OF THE PROPERTY LINE.
15. ALL PLANTING AREAS ARE TO BE GROUNDING ON THREE (3) FEET IN ACCORDANCE WITH THE CITY OF NOVI OVERLAP AND NO.10. BURLAP SHALL BE MAINTAINED DURING THE TWO-YEAR PERIOD.
16. ALL TREES MUST BE PLANTED WITH A COMBINATION OF TREES, BURLAP, LAM ON OTHER GROUND COVERS.
17. THE OWNER IS RESPONSIBLE FOR REPAIR OF FINAL INSPECTION AND ACCEPTANCE OF THE LANDSCAPE AT THE END OF THE 2-YEAR GUARANTEE PERIOD.
18. THE PROVIDER OF THE FINANCIAL GUARANTEE FOR THE LANDSCAPE INSTALLATION SHALL BE FULLY RESPONSIBLE FOR COMPLETION OF THE LANDSCAPE INSTALLATION AND MAINTENANCE FOR THE APPROVED LANDSCAPE PLAN AND APPLICABLE CITY ORDINANCES.
19. TREES DO NOT HAVE TO BE LOCATED ALL OVERGROUND BEFORE PLANTING BEGINS.
20. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL PLANT MATERIALS IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF NOVI PLANTING REQUIREMENTS.



Key Map
Scale: Not to Scale



**GRISSIM
METZ
ANDRIESE**
ASSOCIATES, INC.

Landscape Architecture

311 East Cody Street
Northville, MI 48167

Ph: 248-347-7010

Project:
Solara Novi
Rev: 04/2019

Sheet:
Landscape Notes & Details

Job Number: 401-111
Date: 04/16/2019
Owner: SG
Scale: N.T.S.

Date: 06/28/2019
10/02/2019
Prepared by: Preliminary Site Plan Submission
Reviewed by: PRO Reviewing Revised Schedule

Sheet Number:
02/28/2019
10/02/2019
Prepared by: Preliminary Site Plan Submission
Reviewed by: PRO Reviewing Revised Schedule

L403

Seed Mix Type 'A' - Low Maintenance, No-Mow Meadow Lawn

SCOTTISH NAME	LBWAC
ANEMONE RED PEGGIE	215
JO CHANGES PEGGIE	215
SCOTTISH LARD PEGGIE	215
MARCO POLO SHEEPS PEGGIE	215
TOTAL	810

PROPORTION = 10%
PERCENT PURITY = 10%
PERCENT GERMINATION = 80%

Seed Mix Type 'B' - Stormwater Seed Mix

SCIENTIFIC NAME	COTTON NAME	LBWAC
PERMANENT GRASSES/SEDGES/RUBBERS		
BOLBOBOCHENS FLUVIATILIS	RIVER BLUEGRASS	100
CAREX CRISTATELLA	CRESTED OVAL SEDGE	650
CAREX LURIDA	BOTTLEBRUSH SEDGE	300
CAREX VILLOSA	BROWN FOX SEDGE	200
ELLYS VIRGANCUS	VERGINA BILD RYE	2400
QUYERIA SPITALA	POLE PUNA GRASS	100
JACOB SPURUS	COTTON RUSH	100
LEONIA OXYODES	RICE CUT GRASS	100
PANICUM VIRGATUM	BUTCH GRASS	200
SCHONOPLECTIS TABERNAMONTANA	GREAT BLUEGRASS	100
SCRIBUS ATROVIRENS	DARK GREEN RUSH	200
SCRIBUS CYPERUS	MOOL GRASS	100
TOTAL		4300

TEMPORARY COVER	COTTON CAT	LBWAC
AVENA SATIVA	ANNUAL RYE	36000
LOLUM FLUTURUM		60000
TOTAL		40000

FORNS & BARKS	COTTON NAME	LBWAC
ALPINA INBORDGATH	COTTON WATER PLANTAIN	150
ACLEPTRAS INCARNATA	SWAMP PLEGGED	200
BONIA SPY	BONIA SPICES	100
BUTATONUM PERIOLATUM	COTTON ROSEBET	100
HELMINTH ADRIANALE	BREEDSED	200
IRIS VIRGINICA V. SIREVEI	BLUE FLAG	100
LITONIA AMERICANA	COTTON WATER HOREHOUND	500
PHILLIS RINGEN	MONKEY FLOWER	100
PHENACORP SEDICES	ITCHY STONECROP	650
PHENACORP SPY	PRIMROSE SPECIES	650
RUDECKIA DISTIPENTOSA	BEST BLACK EYED SUSAN	100
RUDECKIA TRILOBIA	BROWN EYED SUSAN	100
SANTIFABIA LATIFOLIA	COTTON ANKORSEED	100
SONIA REECARPIA	WILD BINA	100
STYPTHOTRICHUM LANCEOLATUM	PANICLED ASTER	650
STYPTHOTRICHUM NOVAE ANGUSAE	RED BULBUL ASTER	650
TUALICRUP DASYCARPUM	PURPLE HEADS RUE	200
TOTAL		2600

Seed Mix Type 'C' - Emergent Wetland Seed Mix

SCIENTIFIC NAME	COTTON NAME	LBWAC
PERMANENT GRASSES/SEDGES/RUBBERS		
BOLBOBOCHENS FLUVIATILIS	RIVER BLUEGRASS	100
CAREX COPPOLA	BROWNLY SEDGE	250
CAREX LASIOPUS	COTTON LAKE SEDGE	650
CAREX LURIDA	BOTTLEBRUSH SEDGE	400
CAREX SPITALA	BROWN FOX SEDGE	200
CAREX VILLOSA	BROWN FOX SEDGE	200
ELLYS VIRGANCUS	COTTON RUSH	100
JACOB SPURUS	RICE CUT GRASS	100
LEONIA OXYODES	HARD-STEMMED BLUEGRASS	100
SCHONOPLECTIS ACUTUS	CHAMPAGNE RUSH	100
SCHONOPLECTIS PANABAS	GREAT BLUEGRASS	600
SCHONOPLECTIS TABERNAMONTANA	GREAT BLUEGRASS	600
TOTAL		2600

TEMPORARY COVER	COTTON CAT	LBWAC
AVENA SATIVA	ANNUAL RYE	36000
LOLUM FLUTURUM		60000
TOTAL		40000

FORNS	COTTON NAME	LBWAC
ACORUS AMERICANS	BEST FLAG	100
ALPINA INBORDGATH	COTTON WATER PLANTAIN	100
ACLEPTRAS INCARNATA	SWAMP PLEGGED	200
BOHNERIA CYLINDRICA	VALE NETTLE	100
CEPHALANTHUS OCCIDENTALIS	BUTTERFLY	600
DECCON VERTICILLATUS	SWAMP LOOSESTRE	650
ETHIOCHLOA HAGLARI	SPOTTED JOE PEE SEED	650
HEBICUS SPY	ROSE HALLON SPECIES	400
IRIS VIRGINICA V. SIREVEI	BLUE FLAG	650
LOBELIA CARDINALIS	CARDINAL FLOWER	650
LOBELIA SPITALICA	GREAT BLUE LOBELIA	650
LITONIA AMERICANA	COTTON WATER HOREHOUND	500
PHILLIS RINGEN	MONKEY FLOWER	650
PHENACORP SPY	ITCHY STONECROP	650
PHENACORP SPY	PRIMROSE SPECIES	650
PONTERISMA CORDATA	PINKSEED	400
SANTIFABIA LATIFOLIA	COTTON ANKORSEED	100
STYPTHOTRICHUM LANCEOLATUM	COTTON BUN REED	650
VERGINA SATIVA	BLUE VERGINA	100
TOTAL		5600

Plant List - Woodland Replacement

Angiosperm Fls.	CODE	QTY.	DESCRIPTION	SIZE	COMMENTS
AC	7		Aster concolor	8" FL	800, unseeded 1.8 to ground
PR	11		Prunella Red Pine	8" FL	800, unseeded 1.8 to ground
PR	20		Prunella Eastern White Pine	8" FL	800, unseeded 1.8 to ground
PR	1		Prunella Eastern White Pine	12" FL	800, unseeded 1.8 to ground
TC	17		Taraxacum Canadian Yarrow	8" FL	800, unseeded 1.8 to ground
Shrubs					
CODE	QTY.	DESCRIPTION	SIZE	COMMENTS	
PD	10	Physocarpus opulifolius	30"	about 4' tall	100% H.C.
VT	27	Viburnum acerifolium	30"	about 4' tall	100% H.C.
Grasses					
CODE	QTY.	DESCRIPTION	SIZE	COMMENTS	
SH	400	Sporobolus tenuifolius	24" H.	about 24" tall	100% H.C.
SH	400	Sporobolus tenuifolius	24" H.	about 24" tall	100% H.C.
SS	600	Sporobolus tenuifolius (The Bear Lion Brand)	24" H.	about 24" tall	100% H.C.

Plant List

CODE	QTY.	DESCRIPTION	SIZE	COMMENTS
FE	600	Festuca ovina	10" H.	about 12" tall 100% H.C.
FE	200	Festuca ovina	10" H.	about 12" tall 100% H.C.
FE	200	Festuca ovina	10" H.	about 12" tall 100% H.C.
FE	200	Festuca ovina	10" H.	about 12" tall 100% H.C.
FE	200	Festuca ovina	10" H.	about 12" tall 100% H.C.
FE	200	Festuca ovina	10" H.	about 12" tall 100% H.C.
FE	200	Festuca ovina	10" H.	about 12" tall 100% H.C.
FE	200	Festuca ovina	10" H.	about 12" tall 100% H.C.
FE	200	Festuca ovina	10" H.	about 12" tall 100% H.C.
FE	200	Festuca ovina	10" H.	about 12" tall 100% H.C.

Plant List

CODE	QTY.	DESCRIPTION	SIZE	GENUS %	SPECIES %	COMMENTS
AD	20	Aster concolor	8" H.	100%	100%	800
AD	20	Aster concolor	8" H.	100%	100%	800
AD	20	Aster concolor	8" H.	100%	100%	800
AD	20	Aster concolor	8" H.	100%	100%	800
AD	20	Aster concolor	8" H.	100%	100%	800
AD	20	Aster concolor	8" H.	100%	100%	800
AD	20	Aster concolor	8" H.	100%	100%	800
AD	20	Aster concolor	8" H.	100%	100%	800
AD	20	Aster concolor	8" H.	100%	100%	800
AD	20	Aster concolor	8" H.	100%	100%	800

CODE	QTY.	DESCRIPTION	SIZE	GENUS %	SPECIES %	COMMENTS
AD	5	Aster concolor	8" H.	100%	100%	800, unseeded 1.8 to ground
PR	20	Prunella sp.	8" H.	100%	100%	800, unseeded 1.8 to ground
PR	10	Prunella sp.	8" H.	100%	100%	800, unseeded 1.8 to ground

CODE	QTY.	DESCRIPTION	SIZE	COMMENTS
SH	3	Shrub	10" H.	about 12" tall
SH	3	Shrub	10" H.	about 12" tall
SH	3	Shrub	10" H.	about 12" tall
SH	3	Shrub	10" H.	about 12" tall
SH	3	Shrub	10" H.	about 12" tall
SH	3	Shrub	10" H.	about 12" tall
SH	3	Shrub	10" H.	about 12" tall
SH	3	Shrub	10" H.	about 12" tall
SH	3	Shrub	10" H.	about 12" tall
SH	3	Shrub	10" H.	about 12" tall

CODE	QTY.	DESCRIPTION	SIZE	COMMENTS
AD	170	Aster concolor	8" H.	about 12" tall
AD	170	Aster concolor	8" H.	about 12" tall
AD	170	Aster concolor	8" H.	about 12" tall
AD	170	Aster concolor	8" H.	about 12" tall
AD	170	Aster concolor	8" H.	about 12" tall
AD	170	Aster concolor	8" H.	about 12" tall
AD	170	Aster concolor	8" H.	about 12" tall
AD	170	Aster concolor	8" H.	about 12" tall
AD	170	Aster concolor	8" H.	about 12" tall
AD	170	Aster concolor	8" H.	about 12" tall



**GRISSIM
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Project:
Sakura Novi
New, Michigan

Plant List

Job Number: A01-191
Drawn: MS/ES/SE
Checked: SG
Scale: N.T.S.

Date: 06.28.2019
Revised: 10.02.2019
Revised: 10.02.2019

Revised: 10.02.2019
Revised: 10.02.2019
Revised: 10.02.2019

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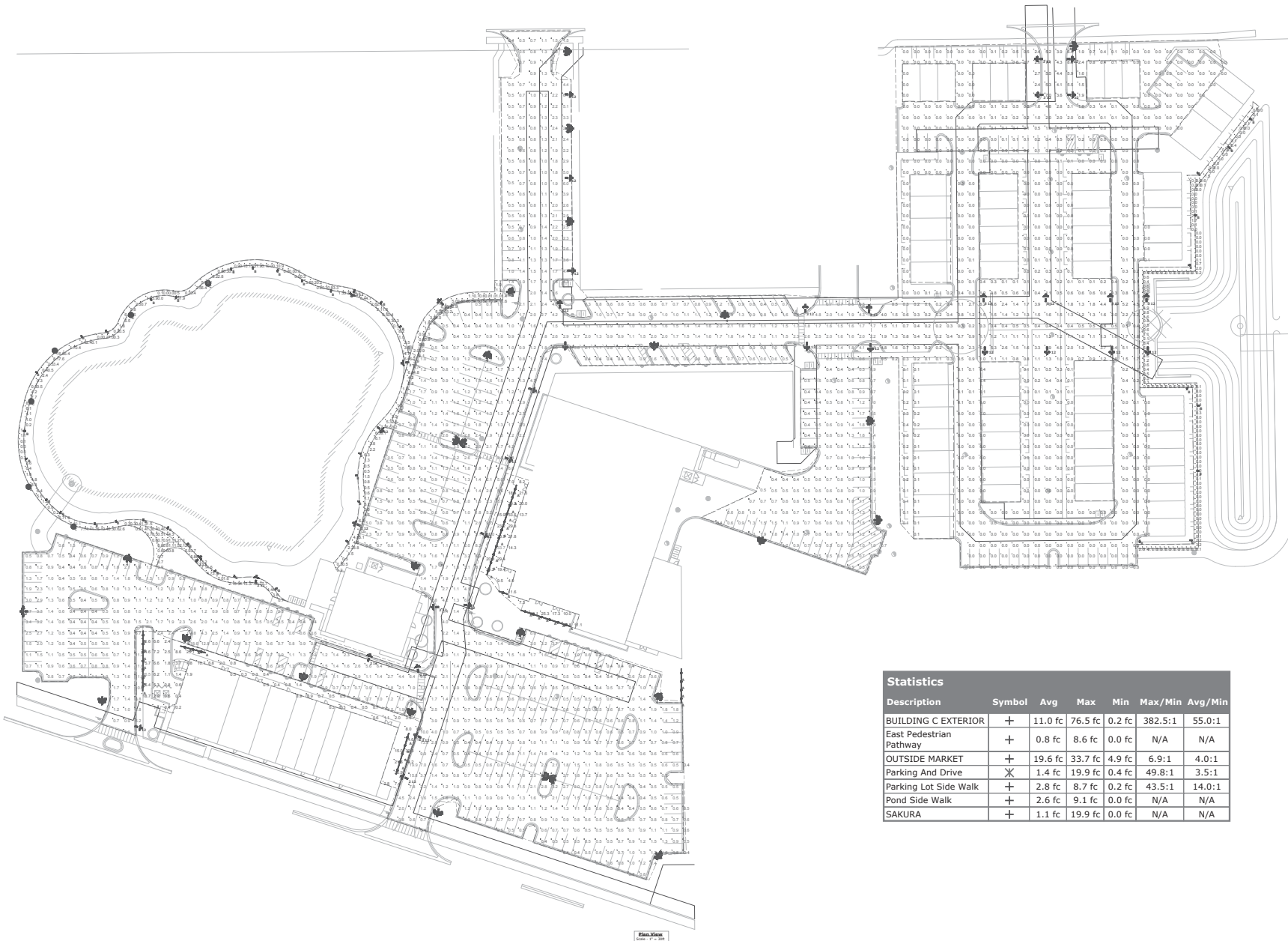
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Revised: 10.02.2019
Revised: 10.02.2019



Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
BUILDING C EXTERIOR	+	11.0 fc	76.5 fc	0.2 fc	382.5:1	55.0:1
East Pedestrian Pathway	+	0.8 fc	8.6 fc	0.0 fc	N/A	N/A
OUTSIDE MARKET	+	19.6 fc	33.7 fc	4.9 fc	6.9:1	4.0:1
Parking And Drive	X	1.4 fc	19.9 fc	0.4 fc	49.8:1	3.5:1
Parking Lot Side Walk	+	2.8 fc	8.7 fc	0.2 fc	43.5:1	14.0:1
Pond Side Walk	+	2.6 fc	9.1 fc	0.0 fc	N/A	N/A
SAKURA	+	1.1 fc	19.9 fc	0.0 fc	N/A	N/A

Exterior Packages - Proposed The Residences at Sakura Novi

	<i>Siding - Horizontal</i>	<i>Roof (tamko or equal)</i>	<i>Brick - Queen Size</i>	<i>Trim and corners</i>	<i>Garage Door</i>	<i>Front Door</i>
<i>Package</i>	Wolverine American Legend 4" Clapboard - Colonial White (CertainTeed or equal)	Weathered Wood	Grey Ash (Glengery Queen Sized)	White	White	Turkish Coffee - SW6076

CertainTeed Wolverine Vinyl Siding - Colonial White

SW 6076

Turkish Coffee

Interior / Exterior

Locator Number: 277-C3

**Weathered Wood -
Tamko**

Grey Ash - Glengery



SAKURA • NOVI



350 N. 90 Westwood Avenue, Suite 300
Birmingham, AL 35209 | 205-353-1071



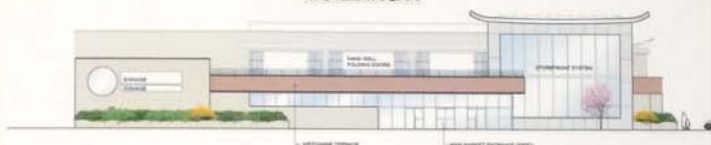
WAH YEE ASSOCIATES
ARCHITECTS & PLANNERS
4545 DENHAM AVENUE, SUITE 200
MONTICELLO, ALABAMA 36053
PHONE: 205-489-5140
PROJECT NO. 3008

PRELIMINARY
NOT FOR CONSTRUCTION

COLOR LEGEND

TNO	MANUFACTURE	COLOR
BRICK-1	BELOW	BROWN GRAY (SLURRY/ACQUILA)
BRICK-2	BELOW	GREEN GRAY (SLURRY/ACQUILA)
CAST STONE	SHOULDER	DOVER (SP/ST/ST)
METAL PANEL, CANOPIES-1	ALPOLIC	BURN BLACK
METAL PANEL, CANOPIES-2	ALPOLIC	CLEAR ANODIZED
METAL CANOPIES-3	BEKKING	MEDIUM BRONZE
FIBER CEMENT PANEL	WICKING	CEMENT PORTLAND
GFRC CLADDING	CONCRETEWORKS EAST	CONCRETE
EIFS	DRIFT	TO MATCH PPG - GRAY PAINTING, 501-3
STOREFRONT ALUM.		CLEAR ANODIZED

BUILDING A



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



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

GFRC CLADDING

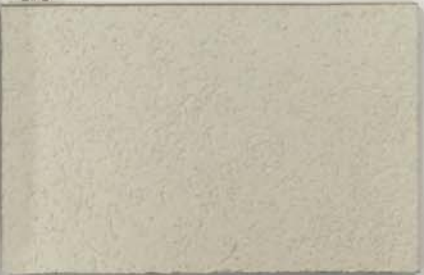
FIBER CEMENT PANEL

BRICK-1

METAL CANOPIES-3



EIFS



STOREFRONT ALUM.



CAST STONE

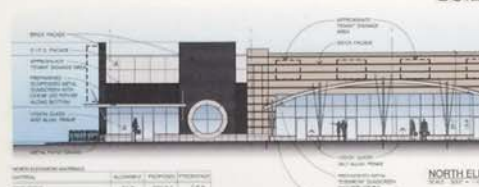


BUILDING B



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

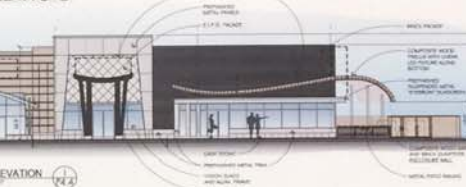
BUILDING C



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



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



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

METAL PANEL, CANOPIES-2



METAL PANEL, CANOPIES-1



BRICK-2







