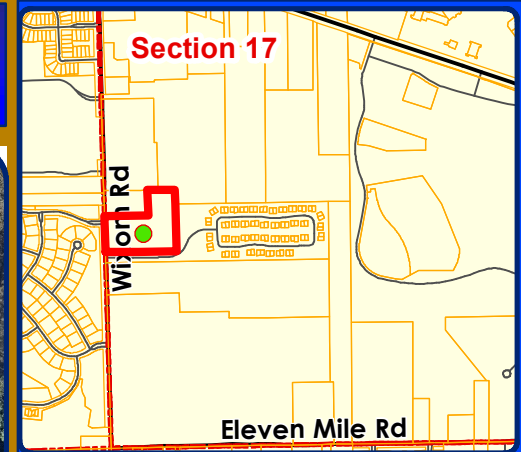


MAPS
Location
Zoning
Future Land Use
Natural Features

JSP25-02 CAMELOT PARC TOWNHOMES

LOCATION



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: 9/4/25
Project: CAMELOT PARC
Version #: 1

0 65 130 260 390 Feet
1 inch = 292 feet

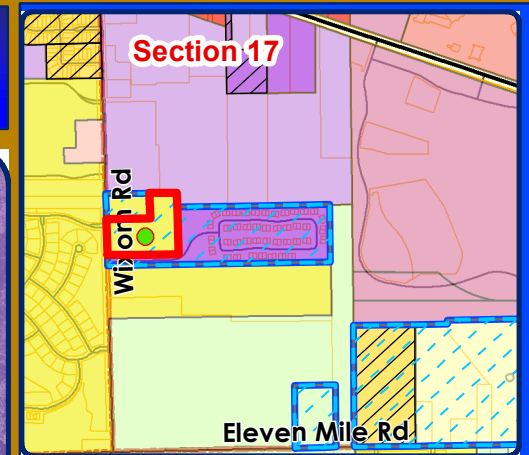
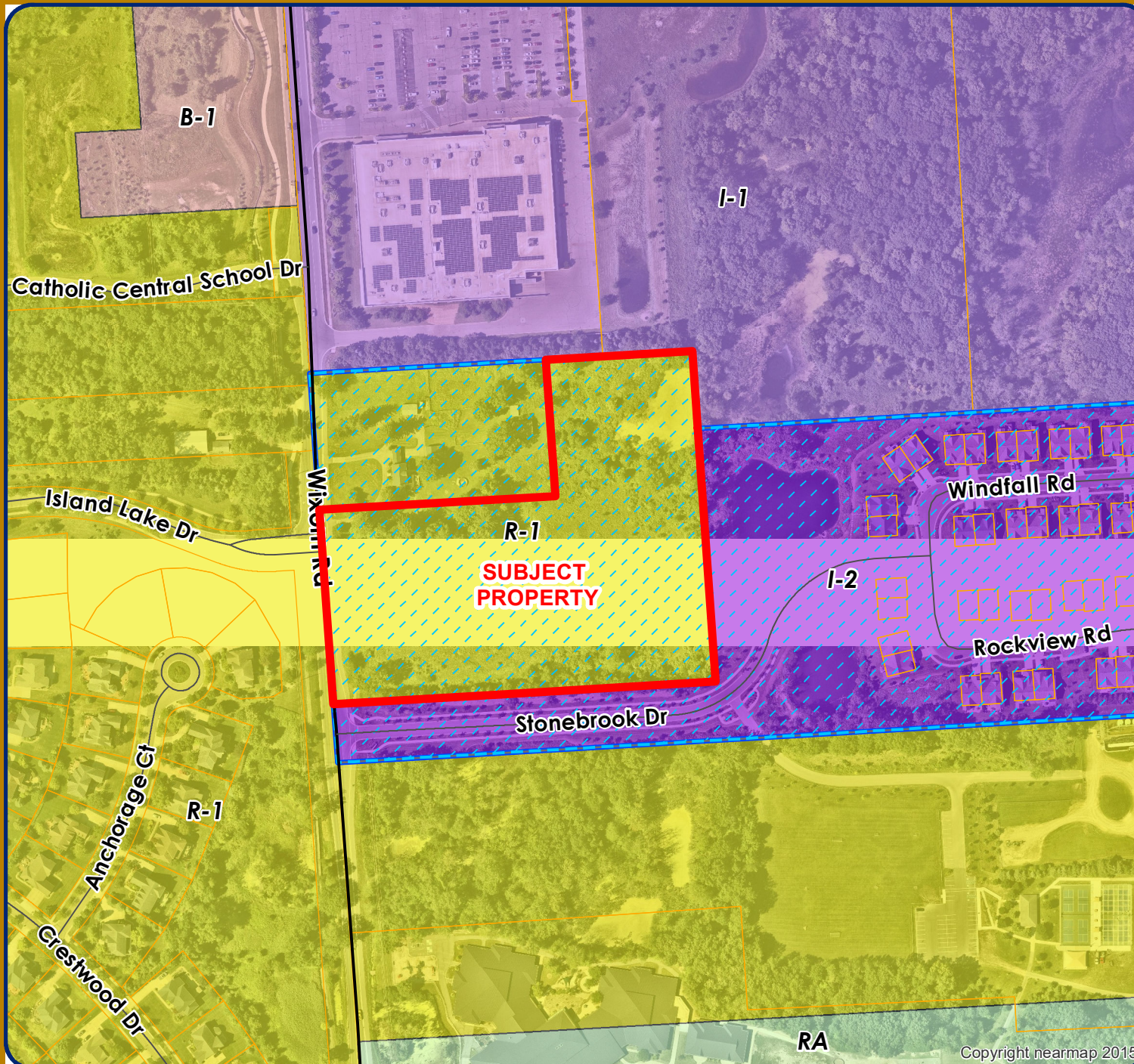


MAP INTERPRETATION NOTICE

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.

Copyright nearmap 2015

JSP25-02 CAMELOT PARC TOWNHOMES ZONING



Legend

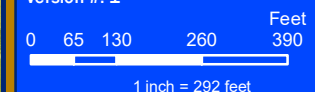
- R-A: Residential Acreage
- R-1: One-Family Residential District
- R-3: One-Family Residential District
- R-4: One-Family Residential District
- RM-1: Low-Density Multiple Family
- B-1: Local Business District
- B-2: Community Business District
- B-3: General Business District
- I-1: Light Industrial District
- I-2: General Industrial District
- OSC: Office Service Commercial
- Planned Suburban Low-Rise (PSLR)
- Planned Rezoning (PRO)



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: 9/4/25
Project: CAMELOT PARC
Version #: 1

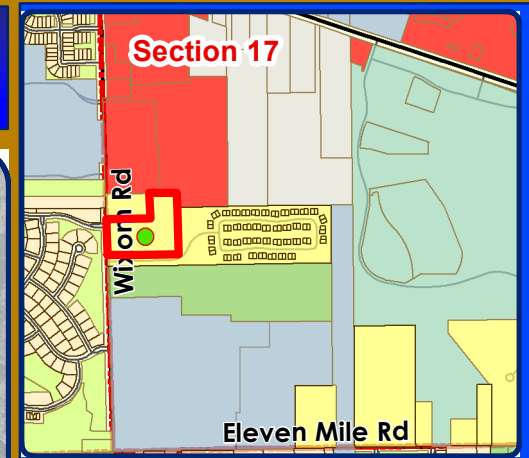
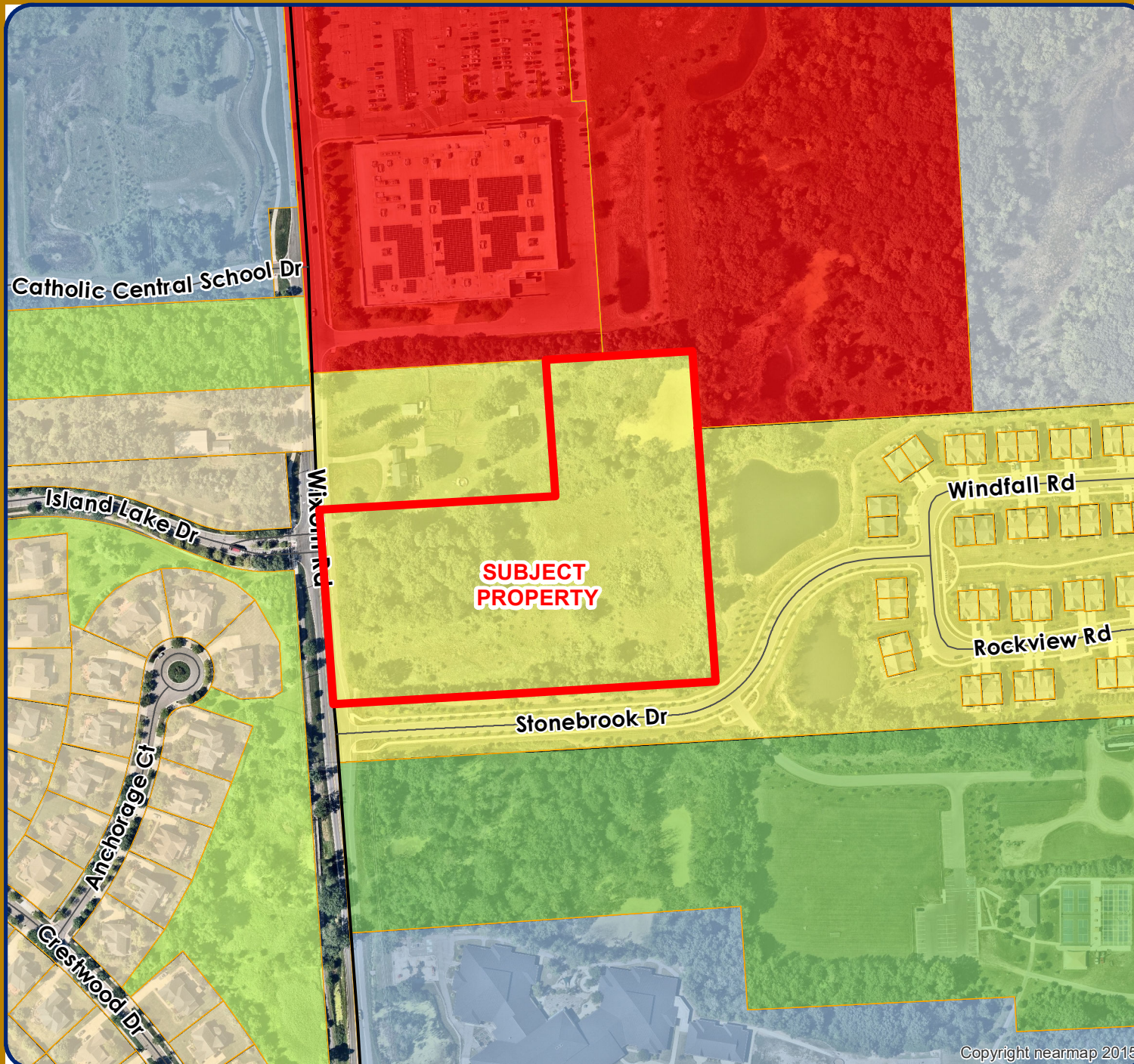


MAP INTERPRETATION NOTICE

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.

JSP25-02 CAMELOT PARC TOWNHOMES

FUTURE LAND USE



Legend

Land Use Code

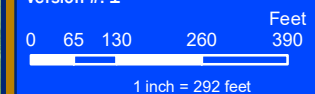
- COMMUNITY COMMERCIAL
- INDUSTRIAL OFFICE
- OFFICE SERVICE COMM
- PUBLIC/QUASI PUB
- PUBLIC PARK
- PRIVATE PARK
- SINGLE FAMILY
- SUBURBAN LOW RISE



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: 9/4/25
Project: CAMELOT PARC
Version #: 1

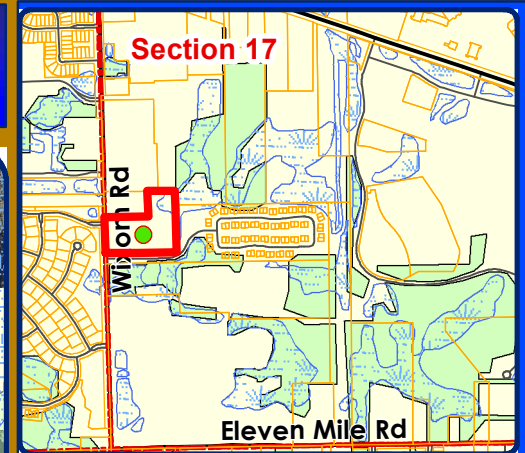
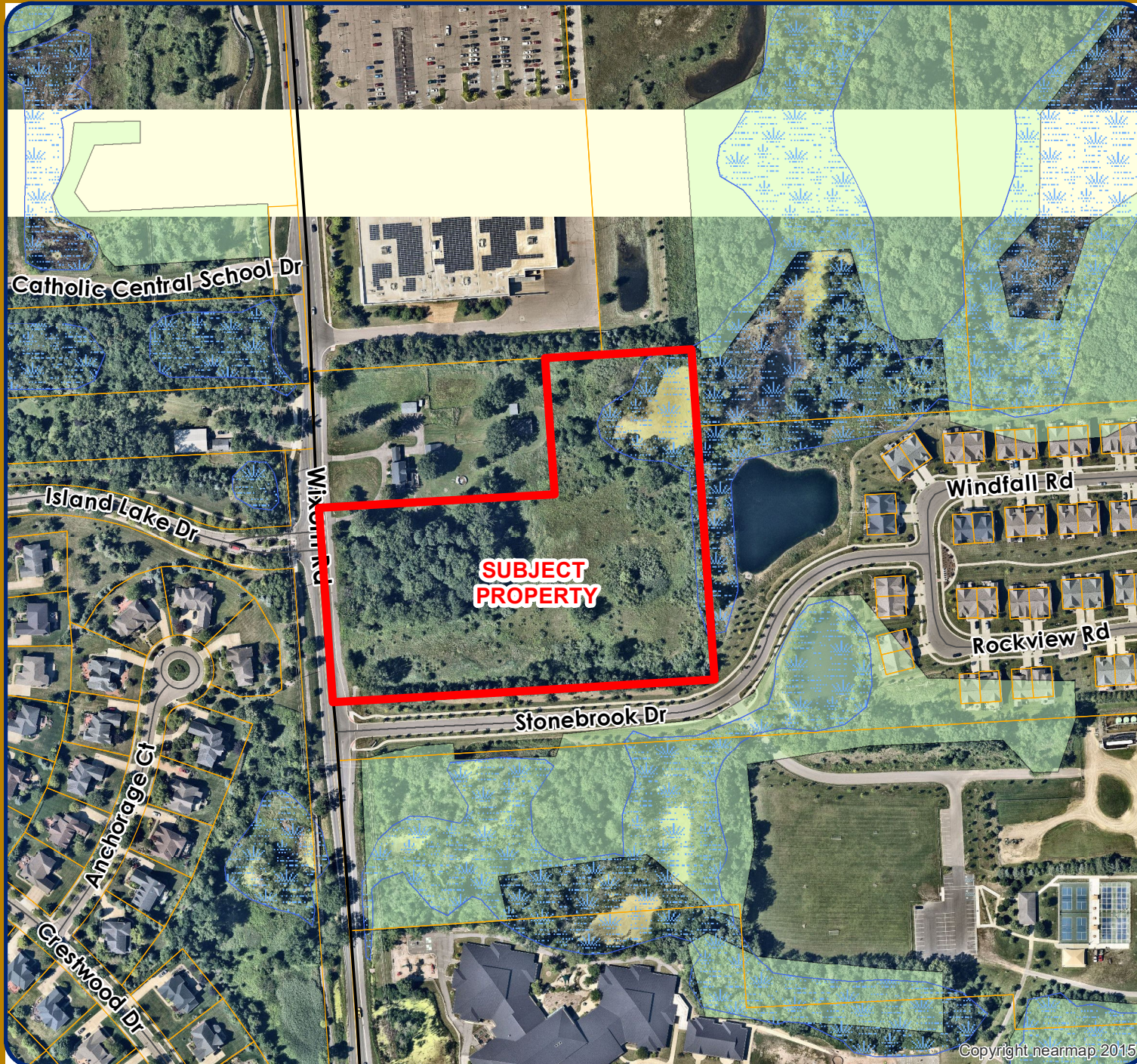


MAP INTERPRETATION NOTICE

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.

JSP25-02 CAMELOT PARC TOWNHOMES

NATURAL FEATURES



Legend

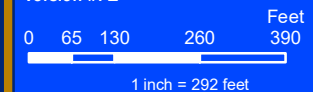
-  WETLANDS
-  WOODLANDS
-  Subject Property



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: 9/4/25
Project: CAMELOT PARC
Version #: 1



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.

Copyright nearmap 2015

PSLR ENHANCEMENTS LETTER

AVALON INVESTMENT GROUP, LLC

14955 Technology Dr.
Shelby Township, MI 48315
586-944-8660 - jpolyzois@yahoo.com

November 17, 2025

City of Novi
Lindsay Bell
Community Development/Planning Division
45175 Ten Mile Rd
Novi, MI 48375

Re: Camelot Parc Townhomes

Dear Mrs. Bell:

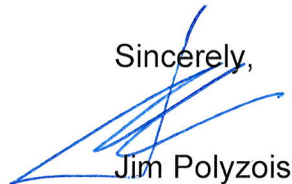
Please allow this letter to serve as an explanation of the public benefits provided by the proposed Camelot Parc Townhomes in connection with our PSLR request. The proposed development is a 22-unit residential development featuring two-story townhomes located on 8.78 acres on the east side of Wixom Road between West 11 Mile Road and Grand River Avenue. The site is currently vacant with both wetland and woodland present. Public benefits are as follows:

1. Shared access location on to Wixom Rd (rather than a separate private entrance) reducing the number of conflict points and congestion along Wixom Rd. thereby improving vehicular safety along this busy corridor.
2. The townhome product serves the often referred to "missing" middle market providing an attractive for-sale home for young professionals in the transitional period of their lives who may not be ready to settle into a larger family home.
3. Natural features preservation – The development proposes a conservation easement over the existing and proposed wetlands and woodlands located on the property to support the community goals of preservation.
4. Habitat enhancement – As part of the development of the property, the developer proposes to enhance the habitat of the preserved natural features within the property which includes:
 - Removal of invasive species (phragmites)

- Native seeding to promote new growth
 - Place new habitat structures within the existing emergent wetland areas
 - Planting of additional trees within the proposed wetland mitigation areas to create higher quality wetlands and reduce the number of trees to be mitigated through payment to the tree fund.
5. \$30,000 contribution toward the desired public improvements for the Wildlife Woods Park pavilion and restrooms along with 2 steel picnic tables. This donation acknowledges the expected impact of our development near the park, which will likely be regularly utilized by our residents. The donation would occur upon final approval to commence construction of the Camelot Parc Townhomes.

If you have any questions, please do not hesitate to contact my office.

Sincerely,



Jim Polyzois

PSLR NARRATIVE



ONE COMPANY.
INFINITE SOLUTIONS.

June 17, 2025

Lindsay Bell, AICP, Senior Planner
City of Novi
45175 W. Ten Mile
Novi, MI 48375

Re: Camelot Parc – PSLR Overlay Deviation Request

Dear Ms. Bell:

Camelot Parc is a 22-unit residential development featuring two-story townhomes located on 8.78 acres on the east side of Wixom Road between West 11 Mile Road and Grand River Avenue. The site is currently vacant with both wetland and woodland present. A berm was built along the south side to screen from the previous driveway for an industrial use to the east that has since been replaced with a residential development. The northern portion of the site contains an existing shed and a pond within one of the wetlands.

While the current zoning and future land use designation is R1, the parcel has an existing PSLR overlay associated with it. This overlay allows for low-rise multiple-family residential as a special land use. Residential developments are located to the east (Stonebrook) and to the west (Island Lake).

With 2.69 acres of open space, the development contains a walking path that embraces a park like setting. The development will be serviced by public utilities and an entrance to Stonebrook Drive (private). There is an existing access easement for this parcel from Stonebrook Drive.

This proposed development offers the following community benefits:

- 2.69 acres of open space contiguous to surrounding area
- walking paths and park features
- lower density than allowable
- no new curb cuts on Wixom Road

As part of the approval process for the PSLR overlay development, deviations from the standards of the zoning ordinance may be authorized by the City Council with features deemed beneficial to the City for purposes of achieving the objective of the district. Below we have addressed each of the identified deviations.



ONE COMPANY.
INFINITE SOLUTIONS.

1. To allow development to front on approved private roadway, which does not conform to the City standards with respect to 60' ROW, as the road was previously approved for the Villas at Stonebrook development with planned access to the development parcel to reduce the number of curb cuts on Wixom Road (Sec. 3.21.2.A.i).

The connection to the private roadway was previously planned for in order to reduce curb cuts along Wixom Road. A public ingress/egress easement exists over this private roadway and a separate access easement and agreement has been executed specific to the new proposed development.

2. A Waiver to the requirement of a stub street to the property boundary at intervals not to exceed 1,300-feet along the perimeter. No secondary access street is being provided (ZO SEC 4.04).

Providing additional stub roads would require impacts to woodland trees and wetlands and there are no logical connection points. Due to the site's existing natural features, expansion of the proposed development and/or connection to adjacent properties is not feasible.

3. Reduction in required parking distance from the buildings (15 feet required) from the facade down to 8 feet diagonally from units 5/6 and 11 feet diagonally from units 14, 15, & 19 (Sec. 3.21.2.A.iii.c).

These angular dimensions to supplemental parking spaces are the only locations where the separation distance deviates from the ordinance standard. Additional separation could only be achieved by either removing the parking or shifting the layout north which would increase wetland impacts north of the drive. The minor reduction will have no noticeable impact on the development and allow for greater preservation of the site's natural features. Additionally, the driveway of each unit provides closer proximity of parking to the buildings than these supplemental spaces.

4. A waiver for less than 200 square feet of open space per unit (Sec 3.21.2.A.v).

Some private open space is provided for each unit via private patios/balconies; however, the available space is deficient from the ordinance criteria (approximately 125 sf covered porch per unit). Revising the layout to provide this private open space adjacent to each unit would require increased wetland impacts by expanding the developed area to the north. Additionally, achieving private open space is difficult in a 2-story townhome development



ONE COMPANY.
INFINITE SOLUTIONS.

with limited space for private patios and balconies. To compensate, a significant portion of the property is being preserved as natural open space with an added walking trail through the woodlands and wetlands.

5. A waiver for the requirement of active recreation areas shall comprise at least 50% of the open space provided (Sec 3.21.2.A.v).

Due to the extensive natural features and wetland mitigation areas onsite, meeting the 50% requirement for active open space is not feasible. Walking trails have been provided where possible to maximize the use around the natural features areas.

6. A waiver for greater than 10% of the total site area as active open space (Sec 3.21.2.A.v).

Due to the extensive natural features and wetland mitigation areas onsite, meeting the 10% of total site area requirement for active open space is not feasible. Walking trails have been provided where possible to maximize the use around the natural features areas.

7. A waiver for the requirement of all buildings, parking lots and loading areas to be separated from section line road rights-of-way by a 50 ft. landscape buffer containing an undulating 3-5 ft. tall, landscaped berm for the area north of the emergency access drive (Sec. 3.21.2.A.iii and Sec. 5.5.3).

The area north of the emergency access drive is proposed to remain in its natural state to preserve the existing woodland trees and wetlands. Providing a berm in this location would be detrimental to these natural features. Additionally, there are no proposed improvements adjacent to this area that would require this screening. In the area along Stonebrook Drive, the existing preserved landscape berm satisfies this requirement.

8. A waiver for the landscape requirements along Wixom Road and Stonebrook Drive of 1 deciduous canopy or evergreen tree per 40 LF, 1 deciduous sub-canopy tree per 25 LF, and 1 deciduous canopy tree per 35 LF between the area of the sidewalk and curb. After preserving the existing trees and vegetation in these areas and having separation from existing utilities the requirement can not be met. (Sec. 5.5.3.B.ii)

With preserving the wooded wetland area along Wixom road and the existing vegetation along Stonebrook Drive while also having separation from existing utilities, the landscape requirement can not be met.



ONE COMPANY.
INFINITE SOLUTIONS.

9. A waiver to allow the two western-most buildings to be 25-feet apart in lieu of the required minimum 30-feet. (Sec. 3.21.2.A.ii)

Due to the natural features constraints of the site and all other buildings exceeding the requirement a waiver is being requested.

10. A waiver to the requirement for minor drives are not to exceed 600-feet. (Sec. 5.10.1.B.ii)

Due to the existing wetlands which constrain development to the southern area of the site the waiver is being requested. A wider road width is unnecessary for the small site and would cause greater impacts to the natural features. Additionally, this minor drive is accessed in the middle, meaning the length in each direction from the access intersection is less than the length requirement.

11. A waiver to allow sidewalks to be at the back of curb in lieu of the requirement for the outside edge of the sidewalk is a minimum of 15-feet from back of curb. (Design and construction standards)

In this case, locating the sidewalk further from the roadway would cause additional impacts to wetland areas. The traffic volume is expected to be low enough for this small development that the safety of pedestrians would not be at risk with the current sidewalk locations.

12. A waiver to allow sidewalks to be only on part of the north side of Avalon Drive in lieu of the requirement to have 5-foot sidewalks on both sides of the private roadways. (CO. Sec. 11-256)

The areas without sidewalk are not near buildings, and installing them would require greater impacts to the wetlands.

13. A waiver to the 25-foot wetland buffer north of Avalon Drive. (Sec. 3.6.2.M)

Due to the natural features constraining the development to the southern area of the site a waiver is being requested. Wetland protection area signage has been provided around the building within the buffer and along the drive and pathways stating "Wetland Protection Area Do Not Mow" to provide a visual reminder to help protect the wetland area.



ONE COMPANY.
INFINITE SOLUTIONS.

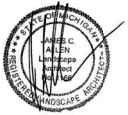
Sincerely,
ATWELL, LLC

Jared M. Kime, PE
Project Manager

PSLR CONCEPT PLAN



Seal: _____



Title: _____
Site Plan

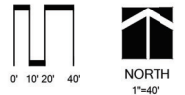
Project: _____
Camelot Parc
Novi, Michigan

Prepared for: _____
 Avalon Park Development, LLC
 14955 Technology Drive
 Shelby Township, Michigan 48315
 248.890.5897

Revision: _____ Issued: _____
 Submission January 24, 2025
 Revised June 16, 2025

Job Number: _____
 25-006

Drawn By: _____ Checked By: _____
 jca jca



Sheet No. _____

LANDSCAPE ARCHITECT
ALLEN DESIGN
557 CARPENTER
NORTHVILLE, MI 48167
PHONE: (248) 467-4668
CONTACT: JIM ALLEN

1. TO ALLOW DEVELOPMENT TO FRONT ON APPROVED PRIVATE ROADWAY, WHICH DOES NOT CONFORM TO THE CITY STANDARDS WITH RESPECT TO M/R, AS WELL AS TO PROVIDE ACCESS/ EGRESS FROM THE VILLAS AT STONEBROOK DEVELOPMENT WITH PLANNED ACCESS TO THE DEVELOPMENT PATTERN, TO REDUCE THE NUMBER OF CURB CUTS ON WIXOM ROAD (SEC 3.2.2.A.I).
2. A WAIVER TO THE REQUIREMENT OF A STUB STREET TO THE PROPERTY TO BE LOCATED AT INTERVALS NOT TO EXCEED 1,300 FEET ALONG THE PERMETER. NO SECONDARY ACCESS STREET IS BEING PROVIDED (ZO SEC. 4.B).
3. REDUCTION IN REQUIRED PARKING DISTANCE FROM THE BUILDINGS (15' REQUIRED) FROM THE FACADE DOWN TO 8 FEET DIAGONALLY FROM UNITS 56 AND 11 FEET DIAGONALLY FROM UNITS 14, 15, & 19 (SEC 3.2.2.A.II).
4. A WAIVER FOR LESS THAN 200 SQUARE FEET OF OPEN SPACE PER UNIT (SEC 3.2.2.A.V).
5. A WAIVER FOR THE REQUIREMENT OF AN OPEN SPACE AREAS SHALL COMPRISE AT LEAST 35% OF THE OPEN SPACE PROVIDED (SEC 3.2.2.A.VI).
6. A WAIVER FOR GREATER THAN 10% OF THE TOTAL SITE AREA AS ACTIVE OPEN SPACE (SEC 3.2.2.A.VII).
7. A WAIVER FOR THE REQUIREMENT OF ALL BUILDINGS, PARKING LOTS AND LOADING AREAS TO BE SEPARATED FROM SECTION LINE ROAD RIGHT-OF-WAY BY A 50 FT. LANDSCAPE BUFFER CONTAINING AN UNDULATING 3-5 FT. TALL, LANDSCAPED BERM FOR THE AREA NORTH OF THE EMERGENCY ACCESS DRIVE. (SEC 3.2.2.A.VIII).
8. A WAIVER FOR THE LANDSCAPE REQUIREMENTS ALONG WIXOM ROAD AND STONEBROOK DRIVE OF 1 DECIDUOUS CANOPY OR EVERGREEN TREE PER 40 L.F. 1 DECIDUOUS SUB-CANOPY TREE PER 2 L.F. AND 1 DECIDUOUS CANOPY TREE PER 10 L.F. OF THE SIDES OF THE DRIVEWAYS, AND CURB, AND PRESERVING THE EXISTING TREES AND VEGETATION IN THESE AREAS AND HAVING SEPARATION FROM EXISTING UTILITIES THE REQUIREMENT CAN NOT BE MET. (SEC 3.2.2.A.IX).
9. A WAIVER TO ALLOW THE TWO WESTERNMOST BUILDINGS TO BE 25 FEET APART IN LIEU OF THE REQUIRED MINIMUM 30 FEET (SEC 3.2.2.A.X).
10. A WAIVER TO THE REQUIREMENT FOR MINOR DRIVEWAYS ARE NOT TO EXCEED 600 FEET. (SEC 5.0110.B.3)
11. A WAIVER TO ALLOW SIDEWALKS TO BE AT THE BACK OF CURB IN LIEU OF THE REQUIREMENT FOR THE OUTSIDE EDGE OF THE SIDEWALK IS A MINIMUM OF 15 FEET FROM BACK OF CURB. (DESIGN & CONSTRUCTION STANDARDS)
12. A WAIVER TO ALLOW SIDEWALKS TO BE ONLY ON PART OF THE NORTH SIDE OF AVENUE DRIVE IN LIEU OF THE REQUIREMENT TO HAVE 5-FOOT SIDEWALKS ON BOTH SIDES OF PRIVATE DRIVEWAYS. (C.D. SEC 5.0110.B.4)
13. A WAIVER TO ALLOW SIDEWALKS TO BE ONLY ON THE NORTH SIDE OF AVENUE DRIVE IN LIEU OF THE REQUIREMENT TO HAVE SIDEWALKS ON BOTH SIDES OF PRIVATE DRIVEWAYS. (C.D. SEC 5.0110.B.4)

1. ALL WORK SHALL CONFORM TO THE CITY OF NOVIS CURRENT STANDARDS AND SPECIFICATIONS, UNLESS OTHERWISE APPROVED IN THE PRO AGREEMENT.
2. THE CONTRACTOR MUST OBTAIN A PERMIT FROM THE CITY OF NOVI FOR ANY WORK WITHIN THE WIXOM ROAD RIGHT-OF-WAY.
3. ALL PAVEMENT MARKINGS, TRAFFIC CONTROL SIGNS, AND PARKING SIGNS SHALL COMPLY WITH THE DESIGN AND PLACEMENT REQUIREMENTS OF THE 2011 MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
4. EMERGENCY ACCESS LOCATION TO BE USED AS CONSTRUCTION ENTRANCE.

1. ALL FIRE HYDRANTS AND WATER MAINS SHALL BE INSTALLED AND SERVICE PRIOR TO ABOVE FOUNDATION BUILDING CONSTRUCTION AS EACH PHASE IS BUILT.
2. ALL ROADS SHALL BE PAVED AND CAPABLE OF SUPPORTING 35 TONS PRIOR TO CONSTRUCTION ABOVE FOUNDATION.
3. BUILDING ADDRESSES SHALL BE POSTED FACING THE STREET DURING ALL PHASES OF CONSTRUCTION. ADDRESSES SHALL BE A MINIMUM OF THREE INCHES IN HEIGHT ON A CONTRASTING BACKGROUND.
4. PROVIDE 4"-6" DIAMETER OF CONCRETE FILLED STEEL POST 48" ABOVE FINISH GRADE AT EACH HYDRANT AS REQUIRED.
5. FIRE LANES SHALL BE POSTED WITH "FIRE LANE - NO PARKING" SIGNS IN ACCORDANCE WITH ORDINANCE .085.99.02.

A PLANNED SUBURBAN LOW-RISE (PSLR)
OVERLAY RESIDENTIAL COMMUNITY
CITY OF NOVI, OAKLAND COUNTY, MICHIGAN
PSLR OVERLAY PRELIMINARY PLAN



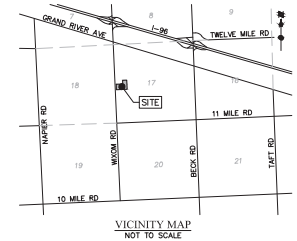
SCALE 1"=60'

CAMELOT PARC TOWNHOMES IS A RESIDENTIAL DEVELOPMENT FEATURING 22 TWO-STORY TOWNHOMES LOCATED ON 8.78 ACRES ON THE EAST SIDE OF WIXOM ROAD BETWEEN WEST 11 MILE ROAD AND GRAND RIVER AVENUE. THE SITE IS CURRENTLY VACANT WITH BOTH WETLAND AND WOODLAND PRESENT. A BERM WAS BUILT ALONG THE SOUTH SIDE TO SCREEN FROM THE PREVIOUS DRIVEWAY FOR AN INDUSTRIAL USE TO THE EAST THAT HAS SINCE BEEN REPLACED WITH A RESIDENTIAL DEVELOPMENT. THE NORTHERN PORTION OF THE SITE CONTAINS AN EXISTING SHED AND A POND WITHIN ONE OF THE WETLANDS.

WHILE THE CURRENT ZONING AND FUTURE LAND USE DESIGNATION IS R1, THE PARCEL HAS AN EXISTING PSLR OVERLAY ASSOCIATED WITH IT. THIS OVERLAY ALLOWS FOR LOW-RISE MULTI-FAMILY RESIDENTIAL AS A SPECIAL LAND USE. RESIDENTIAL DEVELOPMENTS ARE LOCATED TO THE EAST (STONEBROOK) AND TO THE WEST (ISLAND LAKE). WITH 2.69 ACRES OF OPEN SPACE, THE DEVELOPMENT CONTAINS A WALKING PATH THAT EMBRACES A PARK LIKE SETTING. THE DEVELOPMENT WILL BE SERVICED BY PUBLIC UTILITIES AND AN ENTRANCE TO STONEBROOK DRIVE (PRIVATE). THERE IS AN EXISTING ACCESSION EASEMENT FOR THIS PARCEL FROM STONEBROOK DRIVE.

THIS PROPOSED PSLR OVERLAY DEVELOPMENT OFFERS THE FOLLOWING COMMUNITY BENEFITS:

- 2.69 ACRES OF OPEN SPACE CONTIGUOUS TO SURROUNDING AREA
- WALKING PATHS AND PARK FEATURES
- LOWER DENSITY THAN ALLOWABLE
- NO NEW CURB CUTS ON WIXOM ROAD



SH #	Sheet Title
1	COVER SHEET
2	EXISTING CONDITIONS
3	REMOVAL PLAN
4	LAYOUT PLAN
5	UTILITY PLAN
6	STONE FACTOR MANAGEMENT AND GRADING PLAN
7	WETLAND MITIGATION PLAN
8	FIRE PROTECTION PLAN
9	DETAIL SHEET
10	TREE LIST
11	STONEBRIDGE DRIVE MAINTENANCE PLAN
12	EXTERIOR PHOTOMETRIC PLAN
13	EXTERIOR PHOTOMETRIC PLAN

SH #	Sheet Title
L-1	CONCEPTUAL LANDSCAPE PLAN
L-2	GREENBELT PLAN
L-3	LANDSCAPE DETAILS

SH #	Sheet Title
1 OF 12	FIRST FLOOR PLANS
2 OF 12	SECOND FLOOR PLANS
3 OF 12	LOWER LEVEL PLANS
4 OF 12	3 PLEX - FRONT ELEVATION CONCEPT
5 OF 12	3 PLEX - REAR ELEVATION CONCEPT
6 OF 12	3 PLEX - RIGHT ELEVATION CONCEPT
7 OF 12	4 PLEX - FRONT ELEVATION CONCEPT
8 OF 12	4 PLEX - REAR ELEVATION CONCEPT
9 OF 12	4 PLEX - RIGHT ELEVATION CONCEPT
10 OF 12	5 PLEX - FRONT ELEVATION CONCEPT
11 OF 12	5 PLEX - REAR ELEVATION CONCEPT
12 OF 12	5 PLEX - RIGHT ELEVATION CONCEPT

GROSS SITE AREA	8.78 AC
R.O.W. AREA	0.54 AC
NET SITE AREA	8.24 AC
WETLANDS AREA (PRESERVED)	2.30 AC
WETLAND AREA (MITIGATION)	0.66 AC

ZONING:	
EXISTING	R-1
PROPOSED	R-1 WITH PSLR OVERLAY

PROPOSED UNITS	22 UNITS (5 BUILDINGS)
BUILDING SIZES	59.5' x 133.8' (5 UNITS) - 2 7,961 SF*
	59.5' x 107.2' (4 UNITS) - 3 6,378 SF*

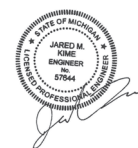
*BUILDING SF BASED ON FIRST STORY FOOTPRINT
BUILDING LOT COVERAGE 9.17%

ALLOWABLE UNIT DENSITY	6.5 DU/ACRE
DENSITY - PROPOSED (GROSS)	2.5 DU/ACRE
DENSITY - PROPOSED (NET)	2.7 DU/ACRE

SETBACKS:
FRONT: 30' (50' LANDSCAPE)
REAR: 30'
SIDE: 30'

PARKING REQUIRED (2 PER UNIT): 44 SPACES
 PARKING PROVIDED: 104 SPACES
 4 PER UNIT + 16 SURFACE SPACES

JSP25-0002
NOT FOR CONSTRUCTION



Call before you dig

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE MANNER ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE BEGINNING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY DAMAGE WHICH MIGHT BE INCURRED BY THE CONTRACTOR DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE:

CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

RIGHT © 2025 ATWELL LLC NO
PRODUCTION SHALL BE MADE
WITHOUT THE PRIOR WRITTEN
CONSENT OF ATWELL LLC

ATWELL
1-800-450-ATWELL
TWO TOWNE SQUARE, SUITE 700
SOUTHFIELD, MI 48076
248.447.2000



TOWN 1 NORTH, RANGE 8 EAST
CITY OF NOVI
OAKLAND COUNTY, MICHIGAN

CAMELOT PARC TOWNHOMES
USLR OVERLAY CONCEPT PLAN
COVER SHEET

JAN 24, 2025
025-06-17 PER CITY

REVISIONS

0 30 60
SCALE: 1" = 60 FEET

CHECKED BY: JK
20004113
CODE: -
ET NO. 1

\\20004113\DWG\PLAN SETS\PSLR\20004113C-01-CV.DWG 6/18/2025 11:00 AM KEVIN SULLIVAN

_____ W
_____ ▷
_____ ◁
_____ ONE

BOUNDARY LINE	()	EXIST. CULVERT
EXIST. EASEMENT	○	EXIST. CATCH BASIN/INLET
EXIST. HYDRANT	○	EXIST. VALVE
EXIST. CONTOUR	○	EXIST. SANITARY SEWER
PROPOSED	○	EXIST. MISAPPROPRIATE UTILITY
EXIST. CURB AND GUTTER	○	EXIST. SIGN
EXIST. BUILDING	○	EXIST. PLANT POLE
EXIST. SOL. BOUNDARY	○	EXIST. UTILITY POLE
EXIST. SOLS. TYPE	○	
EXIST. TREE	○	EXIST. WETLAND
EXIST. TREE DEMO	○	EXIST. GAS
EXIST. PHARMACIES	○	EXIST. UNDERGROUND UTILITY
EXIST. WATER MAIN	○	EXIST. WOODLAND
EXIST. SANITARY	○	CLEANING LINES
EXIST. STORM	○	PHARMACIES
EXIST. OVERHEAD ELEC. LINE	○	

SYMBOL	NAME	SLOPE	HSG
10B	CAPAC SANDY LOAM	0-6%	C
10B	MARLETTE SANDY LOAM	1-6%	B
12	BROOKSTON & COLWOOD LOAMS		D/B
27	HOUSTON & ADRIAN MUCKS		D/A
51	URBAN LAND		NA

WETLAND NOTES

1. WETLAND DELINEATION PERFORMED ON APRIL 30, 2025 BY ASTI. REFER DELINEATION AND JURISDICTIONAL ASSESSMENT REPORT DATED MAY 2, 2025.
2. REMOVE ALL PHRAGMITES OR JAPANESE KNOTWEED IN ALL WETLAND AREA.
3. JAPANESE KNOTWEED WAS NOT OBSERVED DURING INVASIVE SPECIES ASSESSMENT.

1. WETLAND DELINEATION PERFORMED ON APRIL 30, 2025 BY ASTL. REFER TO THE WETLAND DELINEATION AND JURISDICTIONAL ASSESSMENT REPORT DATED MAY 2, 2025.
2. REMOVE ALL PHRAGMITES OR JAPANESE KNOTWEED IN ALL WETLAND AREA.
3. JAPANESE KNOTWEED WAS NOT OBSERVED DURING INVASIVE SPECIES ASSESSMENT.

1. BEARINGS ARE BASED ON MICHIGAN STATE PLANE COORDINATES (NAD83), SOUTH ZONE, GROUND DISTANCES, INTERNATIONAL FEET, MEASURED BEARINGS AS SHOWN DIFFER FROM RECORD TITLE BEARINGS. VERTICAL DATUM IS BASED ON NAVD83.

2. THE SITE SHOWN HEREON IS LOCATED WITHIN ZONE X (AREAS DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN) ACCORDING TO MAP NUMBER 26125006F OF THE FLOOD INSURANCE RATE MAP, EFFECTIVE DATE SEPTEMBER 29, 2006.

3. WATER MAIN, STORM SEWER, SANITARY SEWER AND FRANCHISE UTILITY STRUCTURES HAVE BEEN FIELD LOCATED WHERE VISIBLE. UTILITY AND AS-BUILT MAPS HAVE BEEN REQUESTED AND SOME MAPS HAVE BEEN RECEIVED AT DATE OF THIS SURVEY. FRANCHISE UTILITY MAPS HAVE BEEN REQUESTED FROM THE APPROPRIATE FRANCHISE COMPANIES, BUT NOT ALL MAPS HAVE BEEN RECEIVED AT DATE OF SURVEY.

NOTE: THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITY SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED.

NOTE TO THE CLIENT -- SOURCE INFORMATION FROM PLANS AND MARKINGS WILL BE COMBINED WITH OBSERVED EVIDENCE OF UTILITIES TO DEVELOP A VIEW OF UNDERGROUND UTILITIES. LACKING EXCAVATION RECORDS, THE LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY, AND RELIABLY DEPICTED. IN ADDITION, IN SOME JURISDICTIONS, 811 OR OTHER SIMILAR UTILITY LOCATE REQUESTS FROM SURVEYORS MAY BE IGNORED OR RESULT IN AN INCOMPLETE RESPONSE, IN WHICH CASE THE SURVEYOR SHALL NOTE ON THE PLAT OR MAP HOW THIS AFFECTED THE SURVEYOR'S ASSESSMENT OF THE LOCATION OF THE UTILITIES. ADDITIONAL INFORMATION, IF MORE DETAILED INFORMATION IS REQUIRED, THE CLIENT IS ADVISED THAT EXCAVATION AND/OR A PRIVATE UTILITY LOCATE REQUEST MAY BE NECESSARY.

4. THERE WERE NO PARKING STALLS OBSERVED AT THE DATE OF THE FIELD WORK.
5. NO PARTY WALLS WERE DESIGNATED BY THE CLIENT OR OBSERVED AT THE DATE OF THE FIELD WORK.
6. THE SUBJECT PROPERTY IS LOCATED 2100± NORTH OF THE INTERSECTION OF WIXOM ROAD AND 11 MILE ROAD, ON WIXOM ROAD.
7. THERE WAS NO EVIDENCE OF RECENT EARTH MOVING WORK, BUILDING CONSTRUCTION OR BUILDING ADDITIONS OBSERVED IN THE PROCESS OF CONDUCTING THE FIELD WORK.

8. THERE WAS NO EVIDENCE OF RECENT STREET OR SIDEWALK CONSTRUCTION OR REPAIRS OBSERVED IN THE PROCESS OF CONDUCTING THE FIELD WORK.

9. TREE PROTECTION FENCE TO EXTEND TO DRIPLINE OF TREES TO BE PROTECTED

DESCRIPTION OF TAX PARCEL 50-22-17-300-019 PER PROPERTY
STATUS REPORT BY VANGUARD TITLE COMPANY, REFERENCE NO.:
VGA303463, CERTIFIED TO: SEPTEMBER 8, 2021:

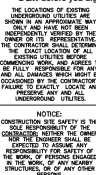
LAND SITUATED IN THE CITY OF NOV, COUNTY OF OAKLAND, STATE OF
MICHIGAN, MORE PARTICULARLY DESCRIBED AS:

A PART OF THE NORTHWEST 1/4 AND SOUTHWEST 1/4 OF SECTION 17, TOWN 1 NORTH, RANGE 8 EAST, CITY OF NEW ORLEANS, COUNTY OF ORLEANS, STATE OF LOUISIANA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCING AT THE WEST 1/4 CORNER OF SAID SECTION 17; THENCE SOUTH 89 DEGREES 19 MINUTES 00 SECONDS EAST 100.00 FEET TO THE WEST LINE OF THE EAST 1/2 OF SAID SECTION 17; THENCE SOUTHWEST ALONG THE WEST LINE OF SAID SECTION 17 AND THE CENTERLINE OF BROAD RIVER ROAD TO THE POINT OF BEGINNING, BEING 34.41 MINUTES 00 SECONDS EAST 47.20 FEET; THENCE NORTH 00 DEGREES 00 MINUTES 00 SECONDS WEST 100.00 FEET TO THE WEST LINE OF SAID SECTION 17; THENCE NORTH 00 DEGREES 00 MINUTES 00 SECONDS WEST 284.77 FEET; THENCE SOUTH 00 DEGREES 00 MINUTES 00 SECONDS EAST 100.00 FEET TO THE EAST AND WEST 1/4 LINE OF SAID SECTION 17; (SAID POINT BEING NORTH 00 DEGREES 00 MINUTES 00 SECONDS WEST 100.00 FEET FROM THE CENTER OF SAID SECTION 17); THENCE SOUTH 00 DEGREES 19 MINUTES 14 SECONDS EAST, 510.00 FEET; THENCE NORTH 00 DEGREES 00 MINUTES 00 SECONDS WEST 100.00 FEET TO THE WEST LINE OF SAID SECTION 17 AND THE CENTERLINE OF SAID BROAD ROAD; (SAID POINT BEING NORTH 00 DEGREES 00 MINUTES 00 SECONDS WEST 212.81 FEET FROM THE SOUTHWEST CORNER OF SAID SECTION 17); THENCE NORTH 00 DEGREES 19 MINUTES 14 SECONDS EAST, 510.00 FEET; THENCE SOUTHWEST ALONG THE WEST LINE OF SAID SECTION 17 AND THE CENTERLINE OF BROAD ROAD TO THE POINT OF BEGINNING, BEING 34.41 MINUTES 00 SECONDS EAST 47.20 FEET.

BENCHMARK ID 1733: "X" ON NORTH
NORTHWEST FLANGE BOLT OF FIRE HYDRANT
ELEVATION: 960.59 (NAVD88)

SITE BENCHMARKS:
BENCHMARK #1: ARROW ON FIRE HYDRANT

BENCHMARK #2: ARROW ON FIRE HYDRANT
ELEVATION: 971.45 (NAVD88)



COPYRIGHT © 2025 ATNELL LLC. NO
 REPRODUCTION SHALL BE MADE
 WITHOUT THE PRIOR WRITTEN
 CONSENT OF ATNELL LLC.

TELL
E., SUITE 700
48076
000

W E. SQUARE
HFIELD, M.
148.447.2



ACTIVE LIVING BY DESIGN

EAST			
IGAN			

SECTION 17
1 NORTH, RANGE 8
CITY OF NOVI
AND COUNTY, MICH

JAMES PLAN	TOWN	OAK
---------------	------	-----

DEVELOPMENT OF A COMMONHOOD CONCEPT FOR CITIES

**LOT PARC T
OVERLAY CON
EXISTING CON**

AVALON	
CAME	
PSLR	

DATE
JAN 24, 2025
2025-06-17 PER CITY

REVISIONS

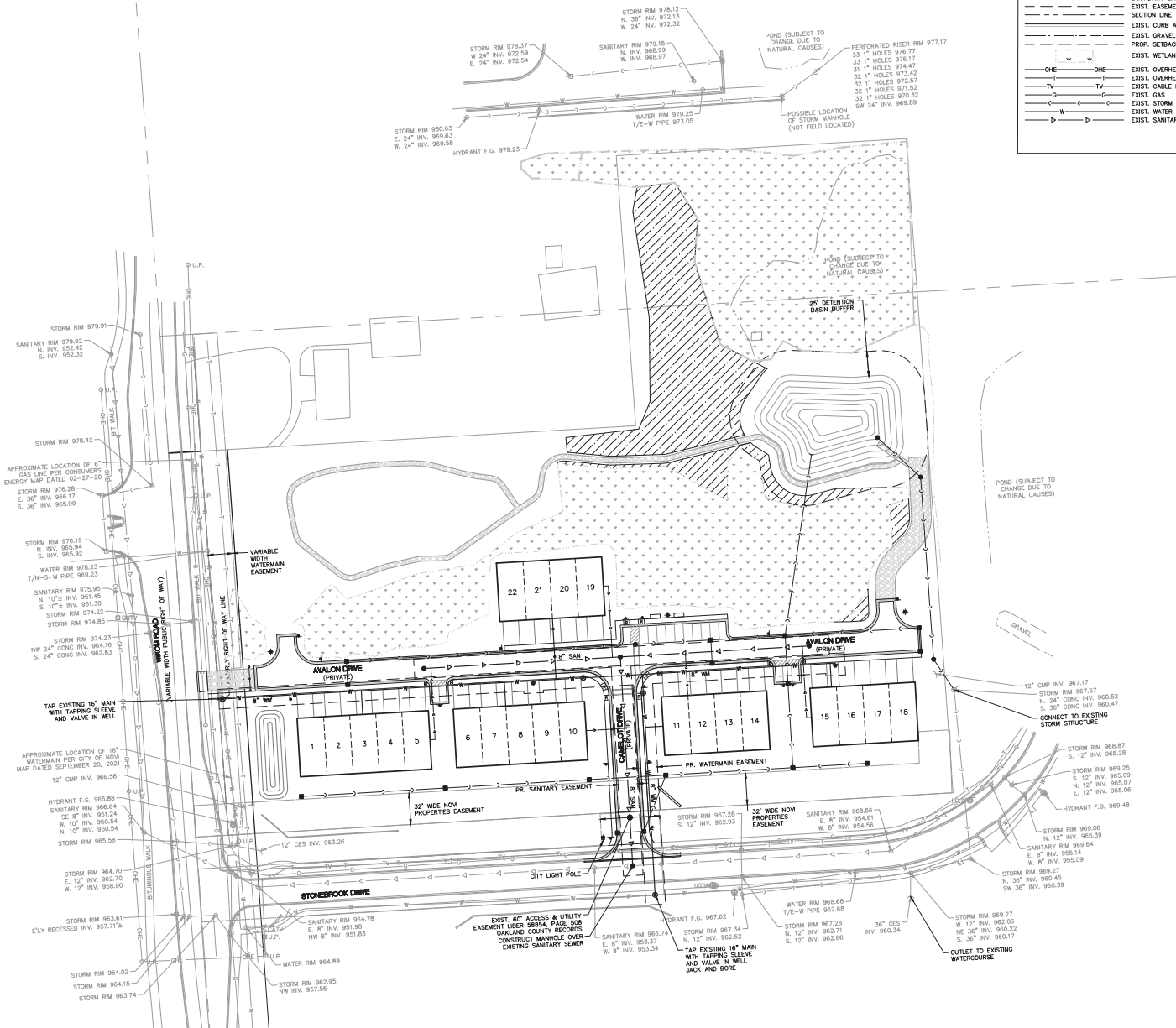
DRAWN BY: MM
CHECKED BY: JK
P.M.: JKIME
JOB # 20004113

FILE CODE: -

SHEET NO. 2

NOT FOR CONSTRUCTION

\\MS0001\DATA\200404113\DWG\PLAN SET\PSR\AVL\200404113-04-ULDW 8/19/2005 10:38 AM KEVIN BULLIVANT



LEGEND

---	BOUNDARY LINE
---	EXIST. EASEMENT
---	SECTION LINE
---	EXIST. CURB AND GUTTER
---	EXIST. GRAVEL
---	PROPR. SETBACK
---	EXIST. WETLAND
---	EXIST. OVERHEAD ELEC. LINE
---	EXIST. OVERHEAD TELE. LINE
---	EXIST. CABLE LINE
---	EXIST. GAS
---	EXIST. STORM
---	EXIST. WATER MAIN
---	EXIST. SANITARY

○	EXIST. CULVERT
○	EXIST. CATCH BASIN/INLET
○	EXIST. HYDRANT
○	EXIST. VALVE
○	EXIST. SANITARY SEWER
○	PROPR. WETLAND BUFFER
○	PROPR. BACK OF CURB
○	PROPR. EASEMENT
○	PROPR. STORM SEWER
○	PROPR. SANITARY
○	PROPR. WATER MAIN
○	PROPR. END SECTION
○	PROPR. CATCH BASIN/INLET
○	PROPR. WATER VALVE
○	PROPR. FIRE HYDRANT
○	PROPR. MANHOLE
○	PROPR. LIGHT POLE

SANITARY SEWER BASIS OF DESIGN

No. of Units	22 Units
No. of Users per Unit	3.2 Persons
Total Expected Population Served	70 Persons
Average Daily Flow (per capita):	100 G.P.D.
Peaking Factor:	4.00
Average Flow:	POP * 100 = 7,040 G.P.D. = 4.9 G.P.M. = 0.011 C.F.S.
Peak Flow:	7,040 * 4 = 28,160 G.P.D. = 19.6 G.P.M. = 0.044 C.F.S.
Pipe Capacity:	8 in. diameter 0.40% slope 0.013 Manning's 'n'
Manning's Capacity =	0.766 C.F.S.
Velocity Flowing Full =	2.20 F.P.S.

UTILITY NOTES

- ALL SANITARY SEWER ON SITE SHALL BE 8" PVC SDR 26.
- ALL SANITARY LEADS SHALL BE 6" PVC SDR 23.5 AND ARE TO BE BURIED AT LEAST 5' DEEP WHERE UNDER INFLUENCE OF PAVEMENT.
- ALL WATER MAIN TO BE DIP CL-54.
- ALL WATER SERVICES TO BE 2" TYPE "K" COPPER FOR DOMESTIC SERVICE, 4" DUCTILE IRON FOR FIRE SERVICE.
- HYDRANT LEADS MUST BE 8" DIAMETER IF LENGTH EXCEEDS 25 LF.
- COMPACTED SAND BACKFILL (MOT SAND CLASS II) SHALL BE PROVIDED FOR ALL UTILITIES WITHIN THE INFLUENCE OF PAVED AREAS.



Know what's below.
Call before you dig.

THE LOCATION OF UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF UTILITIES AND FOR THE PROTECTION OF UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF UTILITIES AND FOR THE PROTECTION OF UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF UTILITIES AND FOR THE PROTECTION OF UTILITIES.

CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF UTILITIES AND FOR THE PROTECTION OF UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF UTILITIES AND FOR THE PROTECTION OF UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF UTILITIES AND FOR THE PROTECTION OF UTILITIES.

ATWELL
CONSULTING ENGINEERS
248.47.2000
248.47.2000



SECTION 17
TOWN 1 NORTH, RANGE 8 EAST
CITY OF NOVI
OAKLAND COUNTY, MICHIGAN

AVALON PARK DEVELOPMENT, LLC
CAMELOT PARC TOWNHOMES
PSR OVERLAY CONCEPT PLAN
UTILITY PLAN

DATE
JAN 24, 2025

2025-06-17 PER CITY

REVISIONS

SCALE: 1" = 50 FEET

DRAWN BY: JMK
CHECKED BY: JMK

JOB # 200404113
FILE CODE: -
SHEET NO. 5

NOT FOR CONSTRUCTION

GRADING AND SESC NOTES

1. ALL EROSION AND SEDIMENTATION CONTROL WORK SHALL CONFORM TO THE CURRENT STANDARDS AND SPECIFICATION OF THE OAKLAND COUNTY WATER RESOURCES COMMISSIONER AND CITY OF NOV.
2. SOIL EROSION AND SEDIMENTATION BEST MANAGEMENT PRACTICE (BMP) MEASURES SHALL BE INSTALLED PRIOR TO START OF ANY CONSTRUCTION OR EARTH DISRUPTION ACTIVITIES AND SHALL BE MAINTAINED AT ALL TIMES UNTIL CONSTRUCTION HAS BEEN COMPLETED, INCLUDING ALL GRASS BEING WELL ESTABLISHED AND/OR PERMANENT EROSION AND SEDIMENTATION BMP MEASURES ARE IN PLACE. OAKLAND COUNTY WATER RESOURCES COMMISSIONER MAY REQUIRE WORK TO BE STOPPED AND THE STORM DRAINAGE OUTLET TO BE PLUGGED, IF CONDITIONS BECOME UNSATISFACTORY.
3. CONTRACTOR IS TO DESIGNATE A SITE DUMP/WASH AREA PRIOR TO STARTING CONSTRUCTION FOR SUCH PURPOSES AS WASHING OUT CONCRETE TRUCKS AND DUMPING NON-HAZARDOUS WASTE MATERIALS, SUBJECT TO THE SUPERVISION OF THE OAKLAND COUNTY WATER RESOURCES COMMISSIONER. DUMPING OR DISCHARGE OF ANY WASTE MATERIALS TO ANY TOWNSHIP OR COUNTY SEWER IS PROHIBITED. HAZARDOUS WASTES ARE TO BE REMOVED OFF-SITE AND PROPERLY DISPOSED OF CONSISTENT WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.
4. DEVELOPER SHALL SUBMIT A DETAILED EROSION CONTROL PLAN, COMPLETED APPLICATION AND CHECKLIST FORMS, PAY ALL FEES AND POST AN EROSION CONTROL PERFORMANCE BOND, AS REQUIRED, PRIOR TO ANY EARTH CHANGE.
5. SEDIMENT AND EROSION CONTROLS MUST BE INSPECTED WITHIN 24 HOURS OF 0.50" OR GREATER RAINFALL. A WRITTEN LOG OF THESE INSPECTIONS MUST BECOME PART OF THE STORMWATER POLLUTION PROTECTION PLAN AND INDICATE THE DATE OF INSPECTION, NAME OF INSPECTOR, WEATHER CONDITIONS, OBSERVATIONS, AND ACTIONS TAKEN TO CORRECT ANY PROBLEMS AND THE DATE.
6. SEDIMENT TRAPS, INLET FILTERS, AND PERMIETTER CONTROLS SHALL BE IMPLEMENTED AS A FIRST STEP OF GRADING AND WITHIN 7 DAYS FROM THE START OF GRUBBING AND SHALL CONTINUE TO FUNCTION UNTIL UPLAND AREAS ARE STABILIZED.
7. INLET FILTERS SHOULD BE DESIGNED FOR BUILD-UP OF SILT AND OTHER DEBRIS. THIS IS EVENT IF GEOTEXTILE/STONE STRUCTURE IS CAUSING FLOWING. MAINTENANCE WOULD CONSIST OF REMOVING OF SEDIMENTS WITH A STIFF BRISTLE BROOM OR SQUARE POINT SHOVEL, IF INLET FILTER IS BEYOND THIS LEVEL OF REPAIR IT MAY BE NECESSARY TO REPLACE BOTH THE STONE AND GEOTEXTILE FILTER.
8. EROSION AND ANY SEDIMENTATION FROM WORK ON THIS SITE SHALL BE CONTAINED ON THE SITE AND NOT ALLOWED TO COLLECT ON ANY OFF-SITE AREAS OR IN WATERWAYS. WATERWAYS INCLUDE BOTH NATURAL AND MAN-MADE OPEN DITCHES, STREAMS, STORM DRAINS, LAKES, AND PONDS.
9. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO, OR AS THE FIRST STEP IN, CONSTRUCTION. SEDIMENT CONTROL PRACTICES WILL BE APPLIED AS A PERMITTER DEFENSE AGAINST ANY TRANSPORTING OF SILT OFF THE SITE.
10. CONTRACTOR SHALL APPLY TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED AND AS DIRECTED ON THESE PLANS. HE SHALL REMOVE TEMPORARY MEASURES AS SOON AS PERMANENT STABILIZATION OF SLOPES, DITCHES, AND OTHER EARTH CHANGES HAS BEEN ACCOMPLISHED.
11. STOCK PILES WILL BE SEEDED AND MULCHED AND RE-SEED IF SEEDING DOES NOT TAKE.
12. PERMANENT SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN 5 CALENDAR DAYS AFTER FINAL GRADING OR THE FINAL EARTH CHANGE HAS BEEN COMPLETED. WHEN IT IS NOT POSSIBLE TO PERMANENTLY STABILIZE A DISTURBED AREA AFTER AN EARTH CHANGE HAS BEEN COMPLETED OR WHERE SIGNIFICANT EARTH CHANGE ACTIVITY CEASES, TEMPORARY SOIL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED WITHIN 30 CALENDAR DAYS. ALL TEMPORARY SOIL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED. ALL PERMANENT SOIL EROSION CONTROL MEASURES WILL BE IMPLEMENTED AND ESTABLISHED BEFORE A CERTIFICATE OF COMPLIANCE IS ISSUED.
13. ALL MUD/DIRT TRACKED ONTO EXISTING ROADS FROM THIS SITE, DUE TO CONSTRUCTION, SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR/BUILDER.
14. CLEANUP WILL BE DONE IN A MANNER TO ENSURE THAT EROSION CONTROL MEASURES ARE NOT DISTURBED.
15. DUST CONTROL WILL BE EXERCISED AT ALL TIMES WITHIN THE PROJECT BY THE CONTRACTOR. SPRINKLING TANK TRUCKS WILL BE AVAILABLE AT ALL TIMES TO BE USED ON HAUL ROUTES OR OTHER PLACES WHERE DUST BECOMES A PROBLEM.
16. NO SOLID OR LIQUID WASTE SHALL BE DISCHARGED INTO STORM WATER RUNOFF.
17. EXCESS DIRT/FILL IS NOT TO BE PLACED WITHIN THE PROPOSED BUILDING LIMITS OR ON ANY AREAS ON OR ADJACENT TO THE SITE BEYOND THE LIMITS OF DISTURBANCE SHOWN ON THE SOIL EROSION PLANS UNLESS WRITTEN AUTHORIZATION IS PROVIDED BY THE ACCEPTING LAND OWNER.
18. STAGING THE WORK WILL BE DONE BY THE LANDOWNER OR LANDOWNER'S REPRESENTATIVE AS DIRECTED IN THESE PLANS AND AS REQUIRED TO ENSURE PROGRESSIVE STABILIZATION OF DISTURBED EARTH CHANGE.
19. TOP SOIL REPLACEMENT: SUFFICIENT TOP SOIL SHALL BE STOCKPILED ON THE SITE SO THAT AREAS MAY BE RECOVERED WITH A MINIMUM OF THREE INCHES OF TOP SOIL. ALL REPLACED TOP SOIL SHALL IMMEDIATELY BE PLANTED WITH GRASS OR OTHER PLANT MATERIAL ACCEPTABLE TO THE TOWNSHIP SO AS TO PREVENT EROSION.

MAINTENANCE SCHEDULE AND NOTES

EMERGENCY ACCESS PATH AND MAINTENANCE ACCESS PATH SHALL BE MINIMUM 10' WIDE. MAXIMUM RUNNING SLOPE OF 1% MAX. MAXIMUM CROSS SLOPE OF 3% AND ABLE TO WITHSTAND THE PASSAGE OF HEAVY EQUIPMENT

THE PROPERTY OWNER IS RESPONSIBLE FOR THE MAINTENANCE OF THE DETENTION BASIN. MAINTENANCE SHOULD BE PERFORMED FOLLOWING ANY STORM AND SHOULD INCLUDE:

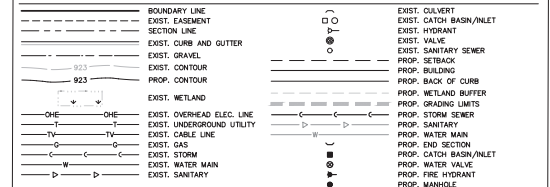
1. CHECKING THE DEPTH OF SEDIMENT DEPOSIT TO ENSURE THE CAPACITY OF THE BASIN IS ADEQUATE FOR STORM WATER AND SEDIMENT DEPOSITION, AND FOR THE REMOVING OF SEDIMENT.
2. CHECKING THE BASIN FOR PIPING, SEEPAGE OR OTHER MECHANICAL DAMAGE.

3. CHECKING FOR THE PRESENCE OF ANY SOIL CARVING, WHICH WOULD PREVENT PROPER DRAINAGE FROM THE BASIN.
4. CHECKING THE OUTFALL TO ENSURE DRAINAGE IS NOT CAUSING ANY CORROSIVE VELOCITIES AND TO ENSURE THE OUTLET IS NOT CLOGGED.
5. ANY PROBLEM DISCOVERED DURING THE MAINTENANCE CHECKS SHOULD BE ADDRESSED IMMEDIATELY.
6. SEDIMENT REMOVED DURING CLEANING SHOULD BE PLACED AT AN UPLAND AREA AND STABILIZED SO THAT IT DOES NOT RE-ENTER THE DRAINAGE COURSE.

DRAINAGE NARRATIVE

THE SITE IS CURRENTLY PART OF THE WIXOM ROAD DRAINAGE DISTRICT. THE AVAILON PARK DEVELOPMENT RUNOFF WILL BE CAPTURED, DETAINED, AND RELEASED SOUTH INTO THE WIXOM ROAD DRAINAGE DISTRICT. THE PROPOSED PLAN REDUCES THE RUNOFF RATE TO THE WIXOM ROAD DRAINAGE DISTRICT BY DETAINING ON SITE. OFFSITE DRAINAGE FROM ADJACENT PROPERTIES DRAIN INTO EXISTING WETLANDS.

LEGEND



Pre-Post Runoff - Rational Method

Pre-Development Condition
Onsite flow to downstream outlet
A 6.16 ac
C 0.35
H100 5.41 in/hr
B 20 mm
P 100 yr
Qdirect 5.5 cfs

Post-Development Condition
Direct flow to downstream outlet
A direct 2.88 ac
C 0.35
H100 5.41 in/hr
Tc 20 min
P 100 yr
Qdirect 5.5 cfs

Peak Basin Outflow (See Basin Calc)
Q100p = 3.3 cfs
Qpost = 8.8 cfs < Qpre... OK
* Note this value is conservative. The basin peak outflow will occur at a later time from the peak direct runoff.

PRELIMINARY STORM WATER CALCULATIONS

Drainage Area and Runoff Coefficient	Unit	Area, ft ²	A, ac	C	CA
Impervious	100%	12,500	0.29	1.0	0.287
Permeable	-	9,937	0.23	0.05	0.012
Total	-	14,537	0.51	NA	0.296

Time of Concentration, Tc (found to nearest min.)	Unit	Value
Design Detention Area, A	ac	3.38 ac
Runoff Coefficient, C	-	0.24
Time of Concentration, Tc	min	20.0 min

1. Design Detention Volume
Design Detention Volume, Vd = 3.38 ac
Runoff Coefficient, C = 0.24
Time of Concentration, Tc = 20.0 min
Vd = 3.38 ac * 0.24 * 20.0 min = 16,280 cu ft

2. Channel Protection Rate Control Extended Detention
Vd = 16,280 cu ft
Vd = 16,280 cu ft * 0.24 = 3,907 cu ft

3. Channel Protection Rate Control Extended Detention
Vd = 3,907 cu ft
Vd = 3,907 cu ft * 0.24 = 949 cu ft

4. Water Quality Control (Detention)
Vd = 949 cu ft
Vd = 949 cu ft * 0.24 = 228 cu ft

5. Detention and Flood Control
Vd = 228 cu ft
Vd = 228 cu ft * 0.24 = 55 cu ft

6. Variable Release Rate Calculations
Q100p is the allowable 100-year peak post-development peak flow rate in cfs
Q100p is the allowable 100-year peak post-development peak flow rate in cfs

Q100p = 8.8 cfs	Q100p = 8.8 cfs
Q100p = 8.8 cfs	Q100p = 8.8 cfs
Q100p = 8.8 cfs	Q100p = 8.8 cfs
Q100p = 8.8 cfs	Q100p = 8.8 cfs
Q100p = 8.8 cfs	Q100p = 8.8 cfs

7. Storage Curve Factor
Vd = 16,280 cu ft
Vd = 16,280 cu ft * 0.24 = 3,907 cu ft

8. Storage Curve Factor
Vd = 3,907 cu ft
Vd = 3,907 cu ft * 0.24 = 949 cu ft

9. Storage Curve Factor
Vd = 949 cu ft
Vd = 949 cu ft * 0.24 = 228 cu ft

10. Storage Curve Factor
Vd = 228 cu ft
Vd = 228 cu ft * 0.24 = 55 cu ft

11. Storage Curve Factor
Vd = 55 cu ft
Vd = 55 cu ft * 0.24 = 13 cu ft

12. Storage Curve Factor
Vd = 13 cu ft
Vd = 13 cu ft * 0.24 = 3 cu ft

13. Storage Curve Factor
Vd = 3 cu ft
Vd = 3 cu ft * 0.24 = 0.7 cu ft

14. Storage Curve Factor
Vd = 0.7 cu ft
Vd = 0.7 cu ft * 0.24 = 0.17 cu ft

15. Storage Curve Factor
Vd = 0.17 cu ft
Vd = 0.17 cu ft * 0.24 = 0.04 cu ft

16. Storage Curve Factor
Vd = 0.04 cu ft
Vd = 0.04 cu ft * 0.24 = 0.01 cu ft

17. Storage Curve Factor
Vd = 0.01 cu ft
Vd = 0.01 cu ft * 0.24 = 0.002 cu ft

18. Storage Curve Factor
Vd = 0.002 cu ft
Vd = 0.002 cu ft * 0.24 = 0.0005 cu ft

19. Storage Curve Factor
Vd = 0.0005 cu ft
Vd = 0.0005 cu ft * 0.24 = 0.0001 cu ft

20. Storage Curve Factor
Vd = 0.0001 cu ft
Vd = 0.0001 cu ft * 0.24 = 0.00002 cu ft

21. Storage Curve Factor
Vd = 0.00002 cu ft
Vd = 0.00002 cu ft * 0.24 = 0.000005 cu ft

22. Storage Curve Factor
Vd = 0.000005 cu ft
Vd = 0.000005 cu ft * 0.24 = 0.000001 cu ft

23. Storage Curve Factor
Vd = 0.000001 cu ft
Vd = 0.000001 cu ft * 0.24 = 0.0000002 cu ft

24. Storage Curve Factor
Vd = 0.0000002 cu ft
Vd = 0.0000002 cu ft * 0.24 = 0.00000005 cu ft

25. Storage Curve Factor
Vd = 0.00000005 cu ft
Vd = 0.00000005 cu ft * 0.24 = 0.00000001 cu ft

ATWELL
248.447.2000
248.447.2000

SECTION 17
TOWN OF NORTH, RANGE 8 EAST
CITY OF NOV
OAKLAND COUNTY, MICHIGAN

DATE: JAN 24, 2025
2025-06-17 PER CITY

REVISIONS

0 25 50
SCALE: 1" = 50 FEET

CHECKED BY: JK
P.L.M. JKJME
JOB # 20004113
FILE CODE: -
SHEET NO. 6

NOT FOR CONSTRUCTION



Know what's below.

Call before you dig.
The location of sewer, water, gas, and other underground utilities is shown on this map. It is the responsibility of the person digging to verify the location of these utilities before digging. If you are unsure of the location of these utilities, call 311.

NOTICE:
CONSTRUCTION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR PROTECTING ALL UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR PROTECTING ALL UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR PROTECTING ALL UTILITIES.

CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR PROTECTING ALL UTILITIES.

ATWELL
248.447.2000
248.447.2000



SECTION 17
TOWN 1 NORTH, RANGE 8 EAST
CITY OF NOVI
OAKLAND COUNTY, MICHIGAN

AVAILON PARK DEVELOPMENT, LLC
CAMELOT PARK TOWNHOMES
PSR OVERLAY CONCEPT PLAN
WETLAND MITIGATION PLAN

DATE
JAN 24, 2025

2025-06-17 PER CITY

REVISIONS

SCALE: 1" = 50 FEET
DRAWN BY: MK
CHECKED BY: JK
JOB #: 20004113
FILE CODE: -
SHEET NO: 7

LEGEND	
BOUNDARY LINE	---
EXIST. EASEMENT	---
SECTION LINE	---
EXISTING RIGHT OF WAY	---
EXIST. CURB AND GUTTER	---
PROP. DETENTION BASIN BUFFER	---
PROP. SETBACK	---
PROP. BUILDING	---
PROP. BACK OF CURB	---
EXIST. WETLAND	---
EXIST. WETLAND DEMO	---
PROP. WETLAND BUFFER DEMO	---
PROP. WETLAND MITIGATION	---

WETLAND IMPACTS

Wetland	EGLE Regulated	City Regulated	Wetland Area (AC)	Wetland Impact Area (AC)	Wetland Impact Area (AC)	Buffer Impact Area (AC)	Buffer Impact Area (AC)	Wetland Impact Area (AC)	Temporary Impact Area (AC)	Temporary Impact Area (AC)	Mitigation Ratio	Mitigation Area (AC)
WOODED	Yes	Yes	0.33	4.483	0.10	8.108	0.10	170	0.00	0.00	2.00	0.21
NON WOODED	Yes	Yes	3.15	11.612	0.77	73.000	0.33	760	2.417	0.06	REQUIRED	0.61
TOTAL (EGLE)			16.095	0.37	31.758	0.72	433	2,417			MITIGATION PROVIDED	0.61

NOTES

- SEE LANDSCAPE SHEETS FOR TREE REPLACEMENT QUANTITIES.
- MITIGATION NOT PROPOSED FOR TEMPORARY WETLAND IMPACT
- FOR TEMPORARY WETLAND DISTURBANCE USE EMERGENT SEED MIX.
- FOR BUFFER DISTURBANCE USE THE CRP POLLINATOR MIX

TEMPORARY WETLAND RESTORATION

- INSTALL GEOTEXTILE SILT FENCE AND ANY OTHER SOIL EROSION CONTROL STRUCTURES AS INDICATED ON DRAWINGS AND/OR SOIL EROSION CONTROL PERMIT.
- CLEAR AND GRUB AREA IF INDICATED ON DRAWINGS.
- EXCAVATE TRENCH FROM TRENCH SHALL BE SIDE CAST ON A GEOTEXTILE MAT WITHIN THE WETLAND. THE FIRST ONE (1) FOOT OF TOPSOIL SHALL BE SAVED AND RESTORED TO THE ORIGINAL EXCAVATED AREA.
- IF NECESSARY, PROVIDE LOCALIZED PUMPING TO DENATER THE TRENCH. SILT BAGS SHALL BE USED TO MINIMIZE SILT AT POINT OF DISCHARGE.
- INSTALL PIPE AND FITTINGS.
- BACKFILL TRENCHES ACCORDING TO THE DETAILS PROVIDED IN THE DRAWINGS.
- GRADE CONSTRUCTION AREA TO MEET EXISTING CONTOURS. ALL EXCESS MATERIAL MUST BE REMOVED OUTSIDE WETLAND AREAS.
- SEED DISTURBED AREA WITH A WETLAND SEED MIX USING ONLY SPECIES NATIVE TO MICHIGAN.

CRP POLLINATOR SEED MIX

GRASSES	PLS. OZ./ACRE	SEEDS/50 FT
ANDROPOGON GERARDI	10.00	2.30
ELMIUS CANADENSIS	14.00	2.67
SCHIZACHYRIUM SCOPARIUM	24.00	6.36
SORGHASTRUM NUTANS	16.00	4.61
TOTAL GRASSES	64.00	16.64
FORBS	PLS. OZ./ACRE	SEEDS/50 FT
ACHILLEA MILLEFOLIUM	1.75	0.83
ASCLEPIAS SYRIACA	0.75	0.07
ASCLEPIAS TUBEROSA	0.75	0.07
ASTER NOVAE-ANGLIAE	0.25	0.38
CASSIA FASCICULATA (CHAMAECRISTA F.)	4.75	0.29
CORDEPS LANCEOLATA	4.85	2.23
ECHEINACEA PURPUREA	4.75	0.72
HELIOPSIS SCHEUCHZERI	4.00	0.58
MONARDA FISTULOSA	0.25	0.40
PETALOSTEMUM PURPUREUM (DALEA P.)	3.00	1.24
RATIBIDA Pinnata	0.25	2.07
RUBRODIA HYPERICUM	2.80	0.13
SOLIDAGO RIGIDA	0.25	0.24
Zizia aurea	0.50	20.35
TOTAL FORBS	32.35	20.35

EMERGENT WETLAND MIX

GRASSES, SEDGES & RUSHES	PLS. OZ./ACRE	SEEDS/50 FT
CAREX COMPA	3.50	2.07
CAREX CRINITA	3.00	1.58
CAREX HYSTEROCHNA	4.25	1.10
CAREX STIPATA	1.50	1.17
CAREX VALLISPAUCIS	0.25	0.18
ELEOCHARIS PALUSTRIS	0.25	0.29
GLYCERIA CANADENSIS	2.25	1.40
GLYCERIA GRANDIS	4.00	7.35
JUNCUS EFFUSUS	0.25	0.74
JUNCUS TORREYI	0.25	0.18
LEERSIA ORYZOIDES	1.00	1.56
SCORPUS ACUTUS (SCOENOPLECTUS A.)	1.00	0.46
SCORPUS ATROVIRENS	2.00	2.13
SCORPUS CYPERINUS	0.25	9.76
SCORPUS FLAVIVENTRIS (SCORPUS CYPERINUS F.)	4.00	0.46
SCORPUS VAGINOSUS (S. TABERNAMONTANI)	4.00	9.85
TOTAL GRASSES	40.00	36.20
FORBS	PLS. OZ./ACRE	SEEDS/50 FT
ACHILLEA MILLEFOLIUM	4.00	0.83
ADONIS AEMULANS	4.00	0.51
ALISMA SUBCORDATUM	2.00	0.58
ASCLEPIAS INCARNATA	0.50	0.82
ASTER FURCATUS	0.25	0.46
BOERHAAVIA HETEROPHYLLA	0.25	0.59
CICUTA MACULATA	0.75	0.21
EUPATORIUM MACULATUM	0.25	0.21
EUPATORIUM PERFOLIATUM	0.25	0.92
IRS VIRGINICA (S. VIRGINICA)	2.00	0.59
LOBELIA CARDINALIS	0.15	1.38
LOBELIA SPHELICA	0.15	1.72
MAMMILLARIA RINGENS	0.25	13.20
PETALOSTEMUM PURPUREUM	8.00	0.80
PENTHORIA SEDOIDES	0.50	14.92
POLYDRUM PENTHORICUM (PENTHORIA P.)	3.00	0.90
PONTEDERIA CORDATA	8.00	0.23
RUMEX CRUCIATUS	0.25	0.02
SAGITTARIA LATIFOLIA	0.25	0.30
SPARGANGLIA ERECTA	7.00	0.58
VERBENA HASTATA	1.45	3.10
TOTAL FORBS	44.50	45.40
TEMPORARY GRASS COVER	PLS. OZ./ACRE	SEEDS/50 FT
ANNUAL RYEGRASS	100.00	50.00
SEED OATS	100.00	7.35
TOTAL TEMP GRASSES	420.00	58.34

NOT FOR CONSTRUCTION

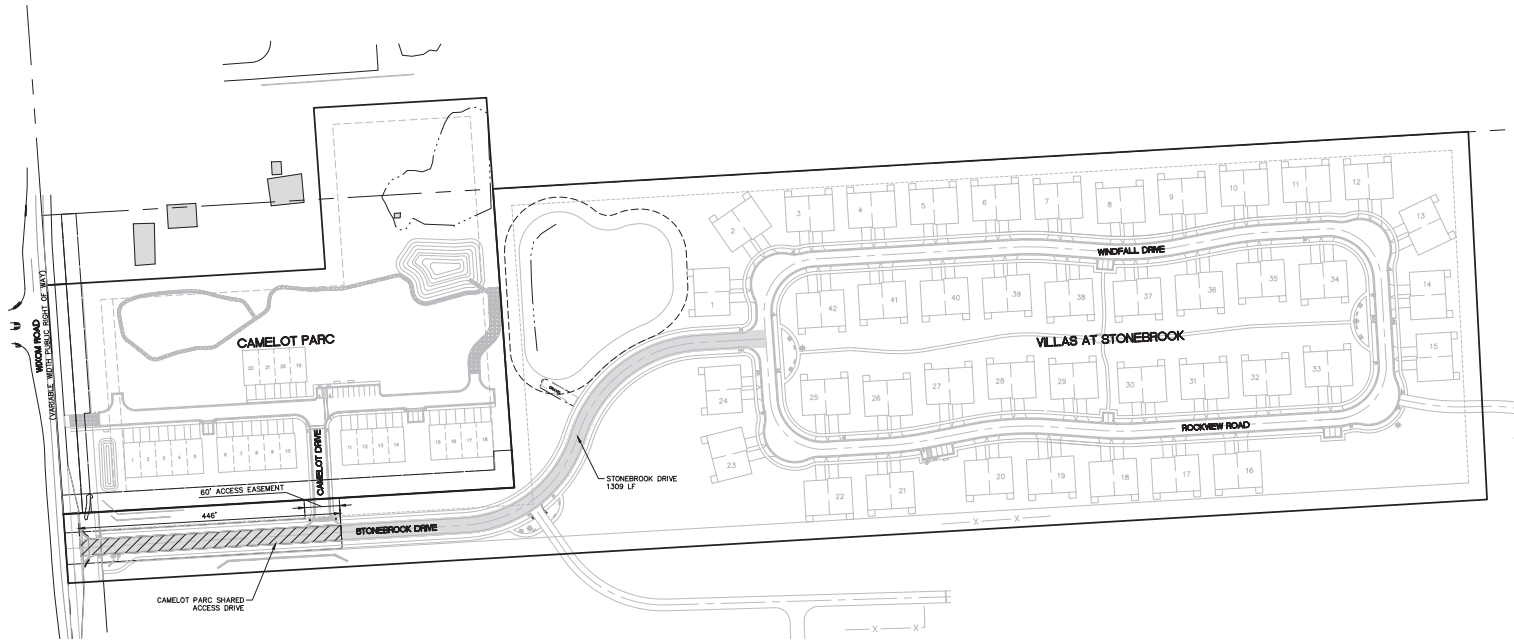
Tree Tag #	Scientific Name	Common Name	DBH (inches)	Condition	Regulated Woodland	To Be Removed	CRITICAL ROOT ZONE
9618	<i>Picea abies</i>	Norway Spruce	29.5	Good			
9619	<i>Acer saccharum</i>	Silver Maple	14.5	Good			
9620	<i>Acer saccharum</i>	Silver Maple	10	Good			
9621	<i>Acer saccharum</i>	Sugar Maple	13	Good			
9622	<i>Acer saccharum</i>	Sugar Maple	17	Good			
9623	<i>Acer saccharum</i>	Sugar Maple	9.5	Good			
9624	<i>Acer saccharum</i>	Sugar Maple	15.5	Good			
9626	<i>Picea glauca</i>	White Spruce	13	Good			
9628	<i>Ulmus rubra</i>	Slippery Elm	18	Good			
9629	<i>Ulmus rubra</i>	Slippery Elm	9.5	Good			
9630	<i>Acer saccharum</i>	Blue Spruce	15	Good			
9631	<i>Picea pungens</i>	Blue Spruce	24	Good			
9632	<i>Ulmus americana</i>	American Elm	11.5	Good			
9633	<i>Ulmus rubra</i>	Slippery Elm	17	Dead			
9634	<i>Acer saccharinum</i>	Silver Maple	9	Good			
9635	<i>Acer saccharum</i>	Silver Maple	11	Good			
9636	<i>Ulmus rubra</i>	Slippery Elm	13.5	Good			
9637	<i>Acer saccharum</i>	Sugar Maple	14.5	Good			
9639	<i>Acer saccharum</i>	Silver Maple	16	Good			
9640	<i>Acer saccharum</i>	Silver Maple	11	Good			
9641	<i>Ulmus americana</i>	American Elm	10	Good			
9642	<i>Ulmus rubra</i>	Slippery Elm	15.5	Poor			
9643	<i>Acer saccharum</i>	Sugar Maple	11	Good			
9644	<i>Ulmus americana</i>	American Elm	15	Good			
9645	<i>Acer saccharum</i>	Sugar Maple	14	Good			
9646	<i>Acer saccharum</i>	Silver Maple	8.5	Good			
9647	<i>Acer saccharum</i>	Silver Maple	21	Good			
9648	<i>Acer saccharum</i>	Silver Maple	16	Good			
9649	<i>Acer saccharum</i>	Silver Maple	15	Good			
9650	<i>Ulmus americana</i>	American Elm	9.5	Good			
9651	<i>Ulmus americana</i>	American Elm	5.5	Good			
9652	<i>Carya cordiformis</i>	Bittersweet Hickory	18.5	Good			
9653	<i>Acer saccharum</i>	Silver Maple	15.5	Good			
9654	<i>Ulmus americana</i>	American Elm	10.5	Good			
9655	<i>Acer saccharum</i>	Silver Maple	17	Good			
9656	<i>Quercus bicolor</i>	Swamp White Oak	11.5	Good			
9657	<i>Quercus bicolor</i>	Swamp White Oak	17	Good			
9658	<i>Ulmus rubra</i>	Slippery Elm	20	Good			
9659	<i>Acer saccharum</i>	Silver Maple	20.5	Good			
9660	<i>Acer saccharum</i>	Silver Maple	51	Fair			
9661	<i>Carya cordiformis</i>	Bittersweet Hickory	9	Good			
9662	<i>Carya cordiformis</i>	Bittersweet Hickory	10.5	Good			
9663	<i>Ulmus americana</i>	American Elm	8.5	Good			
9664	<i>Ulmus americana</i>	American Elm	12	Good			
9666	<i>Carya cordiformis</i>	Bittersweet Hickory	9	Good			
9667	<i>Ulmus americana</i>	American Elm	17.5	Good			
9668	<i>Ulmus americana</i>	American Elm	8	Good			
9669	<i>Ulmus americana</i>	American Elm	8.5	Good			
9670	<i>Ulmus americana</i>	American Elm	16	Good			
9671	<i>Acer saccharum</i>	Silver Maple	9.5	Good			
9672	<i>Quercus bicolor</i>	Swamp White Oak	22.5	Good			
9673	<i>Acer saccharum</i>	Silver Maple	11.5	Good			
9674	<i>Ulmus americana</i>	American Elm	9.5	Good			
9675	<i>Acer saccharum</i>	Silver Maple	13	Good	Y	Y	Y
9676	<i>Acer saccharum</i>	Silver Maple	16.5	Good			Y
9679	<i>Acer saccharum</i>	Silver Maple	9	Good	Y	Y	
9680	<i>Acer saccharum</i>	Silver Maple	27	Good	Y	Y	
9681	<i>Acer saccharum</i>	Silver Maple	35	Good	Y	Y	
9682	<i>Acer saccharum</i>	Silver Maple	13	Good	Y	Y	
9683	<i>Ulmus americana</i>	American Elm	10.5	Good	Y	Y	
9684	<i>Acer saccharum</i>	Silver Maple	9.5	Good	Y	Y	
9685	<i>Acer saccharum</i>	Silver Maple	10	Good	Y	Y	
9686	<i>Ulmus americana</i>	American Elm	14	Dead	Y	Y	
9687	<i>Acer saccharum</i>	Silver Maple	33	Dead			
9688	<i>Acer saccharum</i>	Silver Maple	33	Good			Y
9689	<i>Quercus bicolor</i>	Swamp White Oak	10	Good			Y
9690	<i>Ulmus rubra</i>	Slippery Elm	14.5	Good		Y	
9691	<i>Populus deltoides</i>	Cottonwood	25.5	Good			
9692	<i>Populus deltoides</i>	Cottonwood	21	Good			
9693	<i>Pinus resinosa</i>	Red Pine	14	Good		Y	
9694	<i>Pinus resinosa</i>	Red Pine	8	Good			
9695	<i>Pinus resinosa</i>	Red Pine	11	Good			
9696	<i>Pinus resinosa</i>	Red Pine	13	Good			
9697	<i>Pinus resinosa</i>	Red Pine	11.5	Good			
9698	<i>Pinus resinosa</i>	Red Pine	16	Good			
9699	<i>Pinus resinosa</i>	Red Pine	12	Good			
9700	<i>Pinus resinosa</i>	Red Pine	11	Good			
9701	<i>Pinus resinosa</i>	Red Pine	12	Good			
9702	<i>Picea pungens</i>	Blue Spruce	11	Good			
9703	<i>Picea pungens</i>	Blue Spruce	13.5	Good			
9704	<i>Picea pungens</i>	Blue Spruce	10	Good			
9705	<i>Picea pungens</i>	Blue Spruce	13.5	Good			
9706	<i>Picea pungens</i>	Blue Spruce	11	Good			
9707	<i>Picea pungens</i>	Blue Spruce	9	Good			
9708	<i>Picea pungens</i>	Blue Spruce	10.5	Good			
9709	<i>Picea pungens</i>	Blue Spruce	8	Good			
9710	<i>Picea pungens</i>	Blue Spruce	11	Good			
9711	<i>Picea pungens</i>	Blue Spruce	9.5	Fair			
9712	<i>Picea pungens</i>	Blue Spruce	10	Good			
9713	<i>Picea pungens</i>	Blue Spruce	9	Good			
9714	<i>Picea pungens</i>	Blue Spruce	10	Good			
9715	<i>Picea pungens</i>	Blue Spruce	10.5	Good			
9716	<i>Picea pungens</i>	Blue Spruce	10.5	Good			
9717	<i>Picea pungens</i>	Blue Spruce	8.5	Good			
9718	<i>Tilia americana</i>	Basistwood	10.5	Good			
9719	<i>Pinus resinosa</i>	Red Pine	14.5	Good			
9720	<i>Pinus resinosa</i>	Red Pine	13.5	Good			
9721	<i>Pinus resinosa</i>	Red Pine	8	Dead			
9722	<i>Pinus resinosa</i>	Red Pine	12	Good			

Total Trees Removed	56
Total Regulated Woodland Trees Removed	20
Trees 8" < 11" Removed	7
Trees 11" < 20" Removed	12
Trees 20" < 29" Removed	12
Trees >30" Removed	12
Total Replacement Trees Required	43

NO TREES OVER 36" D.B.H. ARE BEING REMOVED. TREE REPLACEMENT BASED ON WOODLANDS TABLE IN SECTION 37-8 OF THE WOODLANDS PROTECTION NOMI CODE OF ORDINANCES.

ALL REPLACEMENT TREES SHALL BE TWO AND ONE-HALF (2 1/2) INCHES CALIPER OR GREATER. ALL REPLACEMENT TREES SHALL SATISFY AMERICAN ASSOCIATION OF NURSERYMAN STANDARDS.

ET NO. 10



STONEBROOK DRIVE MAINTENANCE CONTRIBUTION CALCULATION

Stonebrook Drive	1,309 LF
Shared Length of Stonebrook Drive	446 LF
Percentage of shared Roadway by Camelot Parc	34.07%
Percentage of Units	
Village of Stonebrook Condo Units	84 79.25%
Camelot Parc Townhome Units	22 20.75%
Total Number of Units	106 100%
Percentage of Roadway Maintenance contribution by Camelot Parc	
$34.07\% \times 20.75\% = 7.07\%$	

MAINTENANCE CONTRIBUTION NARRATIVE

CAMELOT PARC TOWNHOMES REQUIRES SHARED ACCESS FROM STONEBROOK DR WHICH CURRENTLY SERVES THE VILLAS AT STONEBROOK. STONEBROOK DR IS 1,309 LINEAL FT AND THE LENGTH OF THE PROPOSED STONEBROOK DR SHARED ACCESS UTILIZED BY BOTH CAMELOT PARC AND VILLAS AT STONEBROOK IS 446 LINEAL FT REPRESENTING 34.07% OF STONEBROOK DR.

THE VILLAS AT STONEBROOK CONSIST OF 84 UNITS AND CAMELOT PARC TOWNHOMES IS PROPOSING 22 UNITS FOR A TOTAL OF 106 UNITS. CAMELOT PARC TOWNHOMES REPRESENTS 20.75% OF THE TOTAL UNITS.

THEREFORE, CAMELOT PARC TOWNHOMES IS PROPOSING TO CONTRIBUTE 7.07% (34.07% X 20.75%) TOWARDS THE COST OF SNOW REMOVAL AND ROAD MAINTENANCE FOR THE STONEBROOK DR SHARED ACCESS.

Know what's below.
Call before you dig.

BE AWARE OF THE LOCATION OF UTILITIES. UNDEGROUND UTILITIES ARE NOT ALWAYS EASY TO LOCATE. ANY WORK IN AN UNDERGROUND MAY BE AFFECTED BY THE LOCATION OF UTILITIES. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UTILITIES.

NOTICE: CONSTRUCTION OF THIS PROJECT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UTILITIES.

CONSTRUCTION SHALL BE MADE WITHOUT THE PROOF OF THE CONTRACTOR OF ATWELL LLC.

ATWELL
248.447.2000
TWO DUTY
TWO DUTY

SECTION 17
TOWN 1 NORTH, RANGE 8 EAST
CITY OF NOVI
OAKLAND COUNTY, MICHIGAN

AVALON PARK DEVELOPMENT, LLC
CAMELOT PARC TOWNHOMES
PSIR OVERLAY CONCEPT PLAN
STONEBROOK DRIVE
MAINTENANCE PLAN

DATE
JAN 24, 2025
2025-06-17 PER CITY

REVISIONS

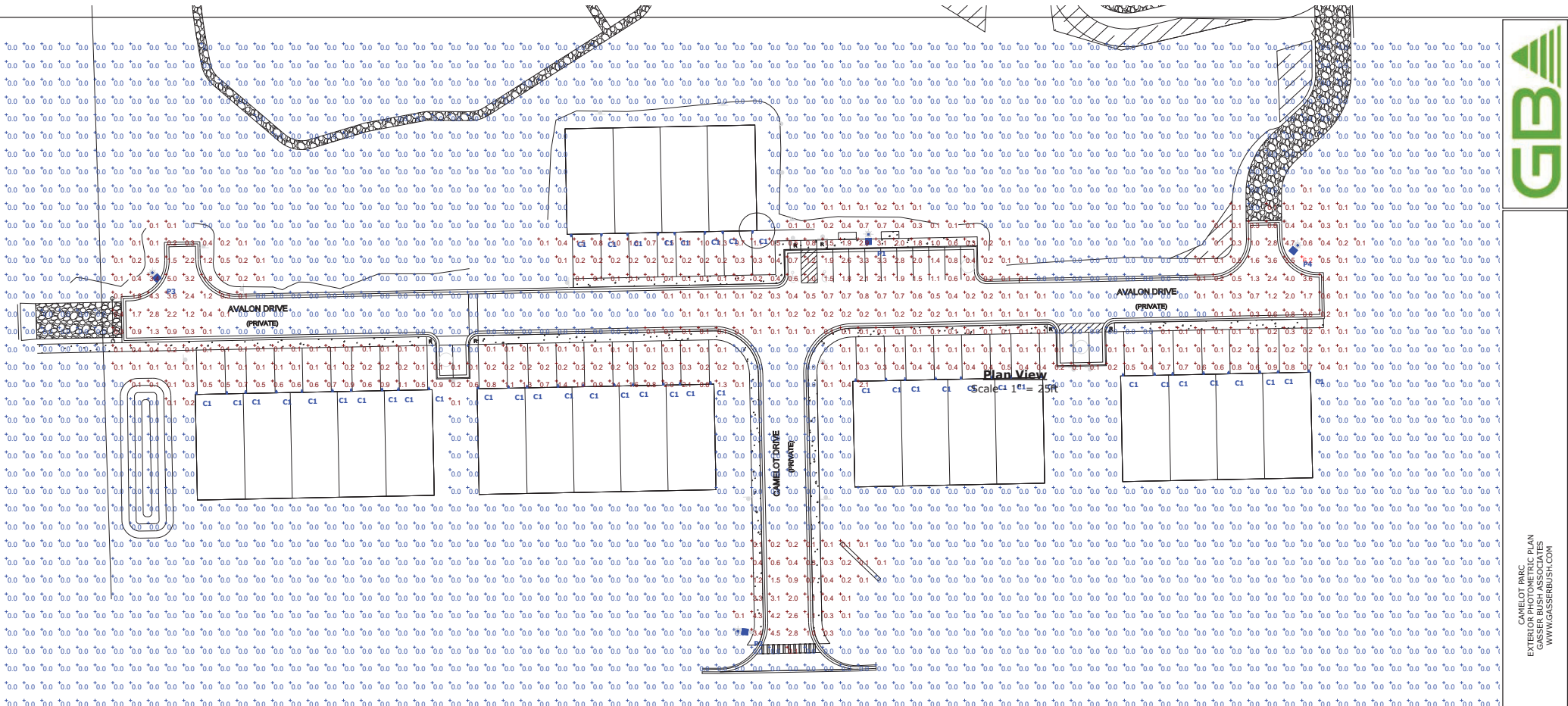
0 50 100
SCALE: 1" = 100 FEET
DRAWN BY: JKM
CHECKED BY: JKM
JOB #: 20004113
FILE CODE: -
SHEET NO. 11

NOT FOR CONSTRUCTION



CAMELOT PARK
EXTERIOR PHOTOMETRIC PLAN
GASSER BUSH ASSOCIATES
WWW.GASSERBUSH.COM

Designer
BK
Date
06/16/2025
Scale
Not to Scale
Drawing No.
#22-81512 VS



General Note
1. SEE SCHEDULE FOR LUMINAIRE MOUNTING HEIGHT.
2. SEE LUMINAIRE SCHEDULE FOR LIGHT LOSS FACTOR.
3. CALCULATIONS ARE SHOWN IN FOOTCANDLES AT: GRADE

THE ENGINEER AND/OR ARCHITECT MUST DETERMINE APPLICABILITY OF THE LAYOUT TO EXISTING / FUTURE FIELD CONDITIONS. THIS LIGHTING LAYOUT REPRESENTS ILLUMINATION LEVELS CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY APPROVED METHODS. ACTUAL PERFORMANCE OF ANY MANUFACTURER'S LUMINAIRE MAY VARY DUE TO VARIATION IN ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, AND OTHER VARIABLE FIELD CONDITIONS. MOUNTING HEIGHTS INDICATED ARE FROM GRADE AND/OR FLOOR UP.

THESE LIGHTING CALCULATIONS ARE NOT A SUBSTITUTE FOR INDEPENDENT ENGINEERING ANALYSIS OF LIGHTING SYSTEM SUITABILITY AND SAFETY. THE ENGINEER AND/OR ARCHITECT IS RESPONSIBLE TO REVIEW FOR MICHIGAN ENERGY CODE AND LIGHTING QUALITY COMPLIANCE.

UNLESS EXEMPT, PROJECT MUST COMPLY WITH LIGHTING COMPLIANCE REQUIREMENTS DEFINED IN ASHRAE 90.1 2013. FOR SPECIFIC INFORMATION CONTACT GBA CONTROLS GROUP AT CONTROLS@GASSERBUSH.COM OR 734-266-6705.

Alternates Note
THE USE OF FIXTURE ALTERNATES MUST BE RESUBMITTED TO THE CITY FOR APPROVAL.

Ordering Note
FOR INQUIRIES CONTACT GASSER BUSH AT QUOTES@GASSERBUSH.COM OR 734-266-6705.

Drawing Note
THIS DRAWING WAS GENERATED FROM AN ELECTRONIC IMAGE FOR ESTIMATION PURPOSE ONLY. LAYOUT TO BE VERIFIED IN FIELD BY OTHERS.

Mounting Height Note
MOUNTING HEIGHT IS MEASURED FROM GRADE TO FACE OF FIXTURE. POLE HEIGHT SHOULD BE CALCULATED AS THE MOUNTING HEIGHT LESS BASE HEIGHT.

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Overall/Grade	+	0.1 fc	6.2 fc	0.0 fc	N/A	N/A

Schedule

Symbol	Label	QTY	Manufacturer	Catalog	Description	Lamp Output	LLF	Input Power
	P1	1	Lithonia Lighting	DSX1 LED P2 40K 80CRI T2M HS	D-Series Size 1 Area Luminaire P2 Performance Package 4000K CCT 80 CRI Type 2 Medium Houseside Shield	7683	0.9	67.7927
	P2	1	Lithonia Lighting	DSX1 LED P1 40K 80CRI RCCO EGS	D-Series Size 1 Area Luminaire P1 Performance Package 4000K CCT 80 CRI Right Corner Cutoff Extreme Backlight Control External Glare Shield	5070	0.9	50.9
	P3	1	Lithonia Lighting	DSX1 LED P1 40K 80CRI T3LG EGS	D-Series Size 1 Area Luminaire P1 Performance Package 4000K CCT 80 CRI Type 3 Low G Rating External Glare Shield	5758	0.9	50.9
	P4	1	Lithonia Lighting	DSX1 LED P1 40K 80CRI T4LG	D-Series Size 1 Area Luminaire P1 Performance Package 4000K CCT 80 CRI Type 4 Low G Rating	6432	0.9	50.9
	C1	44	Generation Lighting	8338701-12	Small One Light Downlight	616	0.9	5.7



D-Series Size 1 LED Area Luminaire

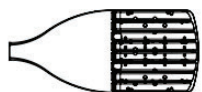


Canopy Number	
Notes	
Type	

For the full range of options visit the page to view all associated accessories.

Specifications

EPA: 0.69 ft²
(0.06 m²)
Length: 32.71"
(83.1 cm)
Width: 14.26"
(36.2 cm)
Height H1: 7.88"
(20.0 cm)
Height H2: 2.73"
(6.9 cm)
Weight: 34 lbs
(15.4 kg)



Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: DSX1 LED P7 40K 70CRI T3M MVOLT SPA NLTAR2 PIRHN DBXD

DSX1 LED						
Series	LEDs	Color temperature ¹	Color Rendering Index ²	Distribution		Voltage
DSX1 LED	Forward optics	(this section 70CRI only)		AFR	Automotive front row	TMVLT (120V-277V) ^{1,2}
	P1	30K 3000K	70CRI	T1S	Type I short	HVOLT (347V-480V) ^{1,2}
	P6	40K 4000K	70CRI	T2M	Type II medium	XVOLT (277V-480V) ^{1,2}
	P3	50K 5000K	70CRI	T3M	Type III medium	
	P4	P9		T3LG	Type III low glare ³	120 ^{1,2,3}
	P5			T4M	Type IV medium	208 ^{1,2,3}
	Rotated optics	(this section 80CRI only, extended lead times apply)		T4LG	Type IV low glare ³	240 ^{1,2,3}
	P10 ¹	27K 2700K	80CRI	TFTM	Forward throw medium	277 ^{1,2,3}
	P12 ¹	30K 3000K	80CRI			347 ^{1,2,3}
	P11 ¹	35K 3500K	80CRI			480 ^{1,2,3}
	P13 ¹	40K 4000K	80CRI			
		50K 5000K	80CRI			

Control options	Other options	Finish required
Shipped installed NLTAR2 PIRHN nLight AIR gen 2 enabled with bi-level motion / ambient sensor, 8-40' mounting height, ambient sensor enabled at 26" ^{1,2,3,21}	PER7 Seven-pin receptacle only (controls ordered separately) ^{1,2,3} FAO Field adjustable output ^{1,2,3} BL30 Bi-level switched dimming, 30% ^{1,2,3} BL50 Bi-level switched dimming, 50% ^{1,2,3} DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) ^{1,2} DS Dual switching ^{1,2,3}	DSX1 LED SPD20KV 20KV surge protection HS Housecode shield (black finish standard) ² L90 Left rotated optics ¹ R90 Right rotated optics ¹ CCE Central Construction ²¹ HA 50°C ambient operation ²⁴ BAA Buy America(s) Act Compliant SF Single fuse (120, 277, 347V) ²⁴ DF Double fuse (208, 240, 480V) ²⁴ Shipped separately EGSR External Glare Shield (reversible, field install required, matches housing finish) BSDB Bird Spikes (field install required)



One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.lithonia.com
© 2011-2023 Acuity Brands Lighting, Inc. All rights reserved.

DSX1 LED
Rev. 09/05/23
Page 1 of 10

GENERATION LIGHTING

8338701-12: Small One Light Downlight Outdoor Wall Lantern



Dimensions:

Width: 6 1/2"
Height: 12 1/2"
Weight: 2.2 lbs.
Extends: 7 3/4"
Wire: 6 1/2" (color/Black/White)
Mounting Proc.: Cap Nuts
Connection: Mounted To Box

Bulbs:

1 - Medium A19 100w Max. 120v - Not included

Features:

- Clear bulb(s) recommended for this fixture
- Easily converts to LED with optional replacement lamps
- Meets Title 24 energy efficiency standards
- Title 24 compliant if used with Joint Appendix (JAB) approved light bulbs listed in the California Energy Commission Appliance database.

Material List:

1 Body - Die Cast Aluminum - Black

Safety Listing:

Safety Listed for Wet Locations

Instruction Sheets:

English (990W83387_1-SEV)

Collection: Sevier

Supplied with 6.5-inches of wire

For an eco-friendly lighting design, convert to LED bulbs to offer savings and reduce energy

Designed for damp and wet environments allowing for direct water contact

1-year manufacturer warranty

Meets Title 24 energy efficiency standards

UPC #:785652027550

Finish: Black (12)

Shade / Glass / Diffuser Details:

Part	Material	Finish	Quantity	Item Number	Length	Width	Height	Diameter	Fitter Diameter	Shade Top Length	Shade Top Width	Shade Top Diameter
Panel	Glass	Clear	6			2 1/8	6					

Backplate / Canopy Details:

Type	Height / Length	Width	Depth	Diameter	Outlet Box Up	Outlet Box Down
Back Plate	5 3/8	4 1/2	7/8		2 3/4	9 3/4

Shipping Information:

Package Type	Product #	Quantity	UPC	Length	Width	Height	Cube	Weight	Frt. Class	UPS Ship
Individual	8338701-12	1	785652027550	16	10.25	9.25	0.878	3.3	250	Yes
NJ Pallet		96		48	40	77	85.556	316.8		No
NV Pallet		96		48	40	77	85.556	316.8		No

Generation Lighting reserves the right to revise the design of components of any product due to parts availability or change in safety listing standards without assuming any obligation or liability to modify any products previously manufactured and without notice. This literature depicts a product design that is the sole and exclusive property of Generation Lighting. In compliance with U.S. copyright and patent requirements, notification is hereby presented in this form that this literature, or the product it depicts, is not to be copied, altered or used in any manner without the express written consent of, or contrary to the best interests of Generation Lighting, a Visual Comfort & Co brand.



CAMELOT PARC
EXTERIOR PHOTOMETRIC PLAN
GASSER BUSH ASSOCIATES
WWW.GASSERBUSH.COM

Designer
BK
Date
06/16/2025
Scale
Not to Scale
Drawing No.
#22-81512 VS



Street Trees		1,642.1f.
Street Frontage		
Less Drives	352.1f.	
Net Frontage		1,290.1f.
Trees Required		36.8 Trees (1,290 / 35)
Trees Provided		37 Trees
Multi-Family Trees		
Total Units		22 Units
Trees Required		66 Trees (22 x 3)
Trees Provided		66 Trees
Woodland Replacement		
Replacement Required		59 Trees
Total Trees Provided		0 Trees
Trees to be Paid into Fund		59 Trees
Detention Pond Plantings		
10' Low-Water Elevation		324.1f.
Required Planting		227.1f. (70%)
Planting Provided		245.1f. (75.6%)
Pond Frontage for Trees		190'
Trees Required		5.4 Trees (190 / 35)
Trees Provided		8 Trees

- Soils Information is Shown on Sheet 2.
- Trees Shall be Planted 10' from Sanitary Sewer, Utility Structures Including Hydrants and 5' from Utility Lines.
- Tree Shall not be Planted within 4' of Property Lines.
- Snow Shall be Deposited Adjacent to Drives and within the Curb Lane. Any Damaged Trees Shall be Replaced as Needed.
- All Utility Boxes Shall be Screen per Detail on Sheet L-3. Approximately 8-12 Shrubs will be Required per Box.
- No Overhead Lines Exist.
- See Sheet 3 for Prunings Locations and Removal. Japanese Knotweed is not Present on this Site.
- An Irrigation Plan will be Provided for Stamping Sets.

1. Landscape Waiver from Sec. 5.5.3.B.ii for Deficiency of Required Wixom Road Street Lawn Trees Due to Preservation of Existing Woodland.
2. Landscape Waiver from Sec. 5.5.3.B.i.f for Deficiency of Wixom Road and Stonebrook Drive Greenbelt Plantings Due to Preservation of Existing Vegetation.

Native Concretions

Architects • Interiors • Landscapes • Urban Design

10000 Boulevard de la Vallée
Montreal, Québec H3T 1Y4
Canada

Tel: 514 392-1111
Fax: 514 392-1112
www.nativeconcretions.com

Statement of Work

An agreement with specific design objectives is essential to the success of any high quality sustainable construction project. The following Statement of Work (SOW) is intended to define the project goals and objectives, the project team, the project schedule, the project budget, the project risks, and the project deliverables. This SOW is intended to be used as a reference for the project team and the client throughout the project.

Project Name: [Blank] **Project Location:** [Blank] **Project Start Date:** [Blank] **Project End Date:** [Blank]

Client: [Blank] **Project Manager:** [Blank] **Project Sponsor:** [Blank] **Project Stakeholders:** [Blank]

Project Description: [Blank]

Project Objectives: [Blank]

Project Scope: [Blank]

Project Budget: [Blank]

Project Risks: [Blank]

Project Deliverables: [Blank]

Project Schedule: [Blank]

Project Team: [Blank]

Project Communication: [Blank]

Project Change Management: [Blank]

Project Closeout: [Blank]

Project Approval: [Blank]

Project Sign-off: [Blank]

Project Review: [Blank]

Project Feedback: [Blank]

Project Lessons Learned: [Blank]

Project Summary: [Blank]

Project Conclusion: [Blank]

Project Acknowledgment: [Blank]

Project Signature: [Blank]

Project Date: [Blank]

Project Version: [Blank]

Project Status: [Blank]

Project Progress: [Blank]

Project Completion: [Blank]

Project Success: [Blank]

Project Satisfaction: [Blank]

Project Quality: [Blank]

Project Cost: [Blank]

Project Time: [Blank]

Project Resources: [Blank]

Project Tools: [Blank]

Project Methods: [Blank]

Project Procedures: [Blank]

Project Policies: [Blank]

Project Standards: [Blank]

Project Guidelines: [Blank]

Project Best Practices: [Blank]

Project Innovation: [Blank]

Project Creativity: [Blank]

Project Collaboration: [Blank]

Project Teamwork: [Blank]

Project Communication: [Blank]

Project Change Management: [Blank]

Project Closeout: [Blank]

Project Sign-off: [Blank]

Project Review: [Blank]

Project Feedback: [Blank]

Project Lessons Learned: [Blank]

Project Summary: [Blank]

Project Conclusion: [Blank]

Project Acknowledgment: [Blank]

Project Signature: [Blank]

Project Date: [Blank]

Project Version: [Blank]

Project Status: [Blank]

Project Progress: [Blank]

Project Completion: [Blank]

Project Success: [Blank]

Project Satisfaction: [Blank]

Project Quality: [Blank]

Project Cost: [Blank]

Project Time: [Blank]

Project Resources: [Blank]

Project Tools: [Blank]

Project Methods: [Blank]

Project Procedures: [Blank]

Project Policies: [Blank]

Project Standards: [Blank]

Project Guidelines: [Blank]

Project Best Practices: [Blank]

Project Innovation: [Blank]

Project Creativity: [Blank]

Project Collaboration: [Blank]

Project Teamwork: [Blank]

Project Communication: [Blank]

Project Change Management: [Blank]

Project Closeout: [Blank]

Project Sign-off: [Blank]

Project Review: [Blank]

Project Feedback: [Blank]

Project Lessons Learned: [Blank]

Project Summary: [Blank]

Project Conclusion: [Blank]

Project Acknowledgment: [Blank]

Project Signature: [Blank]

Project Date: [Blank]

Project Version: [Blank]

Project Status: [Blank]

Project Progress: [Blank]

Project Completion: [Blank]

Project Success: [Blank]

Project Satisfaction: [Blank]

Project Quality: [Blank]

Project Cost: [Blank]

Project Time: [Blank]

Project Resources: [Blank]

Project Tools: [Blank]

Project Methods: [Blank]

Project Procedures: [Blank]

Project Policies: [Blank]

Project Standards: [Blank]

Project Guidelines: [Blank]

Project Best Practices: [Blank]

Project Innovation: [Blank]

Project Creativity: [Blank]

Project Collaboration: [Blank]

Project Teamwork: [Blank]

Project Communication: [Blank]

Project Change Management: [Blank]

Project Closeout: [Blank]

Project Sign-off: [Blank]

Project Review: [Blank]

Project Feedback: [Blank]

Project Lessons Learned: [Blank]

Project Summary: [Blank]

Project Conclusion: [Blank]

Project Acknowledgment: [Blank]

Project Signature: [Blank]

Project Date: [Blank]

Project Version: [Blank]

Project Status: [Blank]

Project Progress: [Blank]

Project Completion: [Blank]

Project Success: [Blank]

Project Satisfaction: [Blank]

Project Quality: [Blank]

Project Cost: [Blank]

Project Time: [Blank]

Project Resources: [Blank]

Project Tools: [Blank]

Project Methods: [Blank]

Project Procedures: [Blank]

Project Policies: [Blank]

Project Standards: [Blank]

Project Guidelines: [Blank]

Project Best Practices: [Blank]

Project Innovation: [Blank]

Project Creativity: [Blank]

Project Collaboration: [Blank]

Project Teamwork: [Blank]

Project Communication: [Blank]

Project Change Management: [Blank]

Project Closeout: [Blank]

Project Sign-off: [Blank]

Project Review: [Blank]

Project Feedback: [Blank]

Project Lessons Learned: [Blank]

Project Summary: [Blank]

Project Conclusion: [Blank]

Project Acknowledgment: [Blank]

Project Signature: [Blank]

Project Date: [Blank]

Project Version: [Blank]

Project Status: [Blank]

Project Progress: [Blank]

Project Completion: [Blank]

Project Success: [Blank]

Project Satisfaction: [Blank]

Project Quality: [Blank]

Project Cost: [Blank]

Project Time: [Blank]

Project Resources: [Blank]

Project Tools: [Blank]

Project Methods: [Blank]

Project Procedures: [Blank]

Project Policies: [Blank]

Project Standards: [Blank]

Project Guidelines: [Blank]

Project Best Practices: [Blank]

Project Innovation: [Blank]

Project Creativity: [Blank]

Project Collaboration: [Blank]

Project Teamwork: [Blank]

Project Communication: [Blank]

Project Change Management: [Blank]

Project Closeout: [Blank]

Project Sign-off: [Blank]

Project Review: [Blank]

Project Feedback: [Blank]

Project Lessons Learned: [Blank]

Project Summary: [Blank]

Project Conclusion: [Blank]

Project Acknowledgment: [Blank]

Project Signature: [Blank]

Project Date: [Blank]

Project Version: [Blank]

Project Status: [Blank]

Project Progress: [Blank]

Project Completion: [Blank]

Project Success: [Blank]

Project Satisfaction: [Blank]

Project Quality: [Blank]

Project Cost: [Blank]

Project Time: [Blank]

Project Resources: [Blank]

Project Tools: [Blank]

Project Methods: [Blank]

Project Procedures: [Blank]

Project Policies: [Blank]

Project Standards: [Blank]

Project Guidelines: [Blank]

Project Best Practices: [Blank]

Project Innovation: [Blank]

Project Creativity: [Blank]

Project Collaboration: [Blank]

Project Teamwork: [Blank]

Project Communication: [Blank]

Project Change Management: [Blank]

Project Closeout: [Blank]

Project Sign-off: [Blank]

Project Review: [Blank]

Project Feedback: [Blank]

Project Lessons Learned: [Blank]

Project Summary: [Blank]

Project Conclusion: [Blank]

Project Acknowledgment: [Blank]

Project Signature: [Blank]

Project Date: [Blank]

Project Version: [Blank]

Project Status: [Blank]

Project Progress: [Blank]

Project Completion: [Blank]

Project Success: [Blank]

Project Satisfaction: [Blank]

Project Quality: [Blank]

Project Cost: [Blank]

Project Time: [Blank]

Project Resources: [Blank]

Project Tools: [Blank]

Project Methods: [Blank]

Project Procedures: [Blank]

Project Policies: [Blank]

Project Standards: [Blank]

Project Guidelines: [Blank]

Project Best Practices: [Blank]

Project Innovation: [Blank]

Project Creativity: [Blank]

Project Collaboration: [Blank]

6,118 s.f. Total Area
34.2 lbs. per Acre Application Rate
4.8 lbs. of Detention Seed Mix Required
3"-6" of Topsoil with 20%-30% Compost Shall be
Placed in this Area.

Note:
Contractor Shall Provide Proof of Seed to be Used in the Form of an Invoice or Photo of the Seed Bag to rmeader@cityofnovi.org for Approval Prior to Installation. If an Unacceptable Seed Mix is Used, the City Reserves the Right to Destroy the Plants and Re-seed with and Acceptable Mix at the Developer's Expense.

ALLEN DESIGN
LAND PLANNING / LANDSCAPE ARCHITECTURE
557 Carpenter
Northville, Michigan 48167
e. jca@wideopenwest.com
t. 248.467.4668

Project:

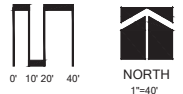
Prepared for:

Avalon Park Development, LLC
14955 Technology Drive
Shelby Township, Michigan 48315
248.890.5897

Revision:	Issued:
Submission	January 24, 2025
Revised	June 16, 2025

Job Number:

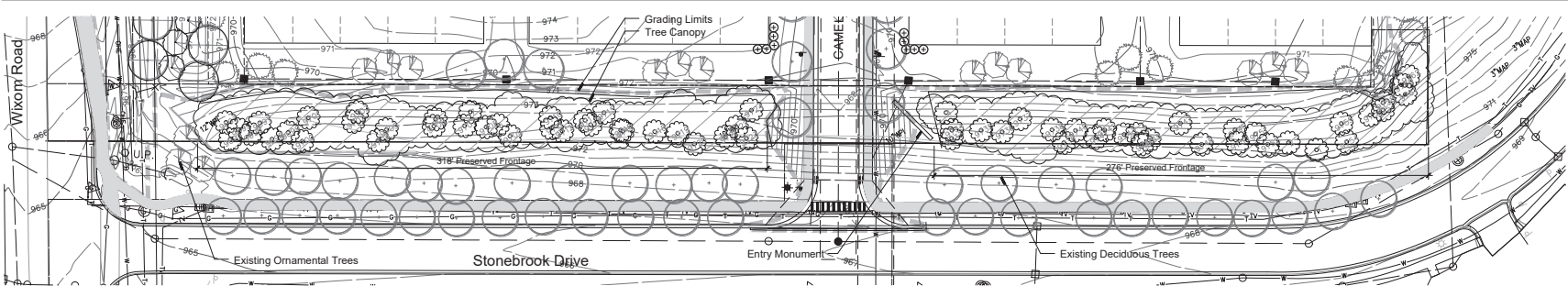
Drawn By: _____ Checked By: _____
jca jca



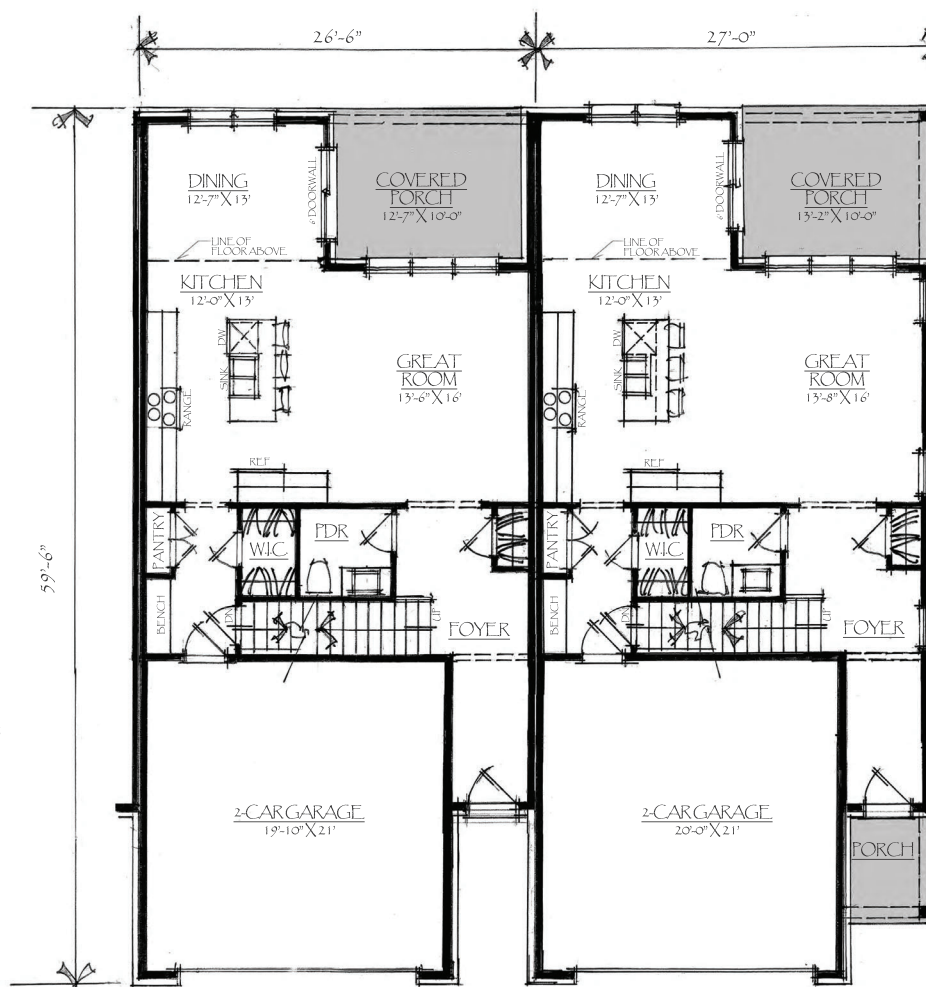
Know what's below.
Call before you dig.

L-1

Stonebrook Drive Greenbelt



Camelot Park



INTERIOR UNIT FIRST FLOOR
SCALE: 1/4" = 1'-0"

FIRST FLOOR: 947 SQ. FT.
SECOND FLOOR: 1,002 SQ. FT.
TOTAL: 1,949 SQ. FT.

END UNIT FIRST FLOOR
SCALE: 1/4" = 1'-0"

FIRST FLOOR: 961 SQ. FT.
SECOND FLOOR: 1,011 SQ. FT.
TOTAL: 1,972 SQ. FT.



Camelot Park

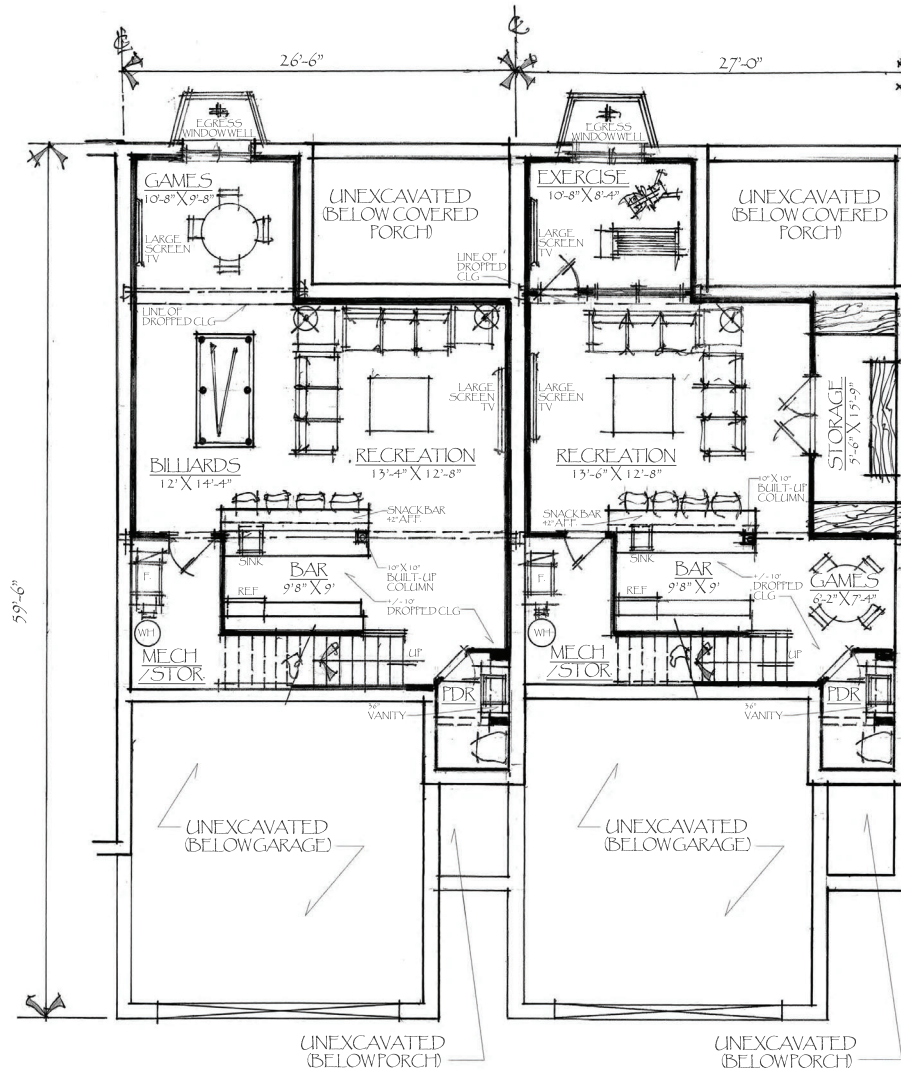


INTERIOR UNIT SECOND FLOOR
SCALE: 1/4" = 1'-0"

END UNIT SECOND FLOOR
SCALE: 1/4" = 1'-0"



Camelot Park



INTERIOR UNIT LOWER LEVEL
SCALE: 1/4" = 1'-0"

END UNIT LOWER LEVEL
SCALE: 1/4" = 1'-0"

Camelot Park



4,254 SQ FT. = 100%
 3,518 SQ FT / 4,254 SQ FT =
 83% BRICK
 736 SQ FT / 4,254 SQ FT =
 17% SIDING

3 PLEX - FRONT ELEVATION CONCEPT
 SCALE: 1/4" = 1'-0"

TR DESIGN
 GROUP

© 2025 TR Design Group, LLC

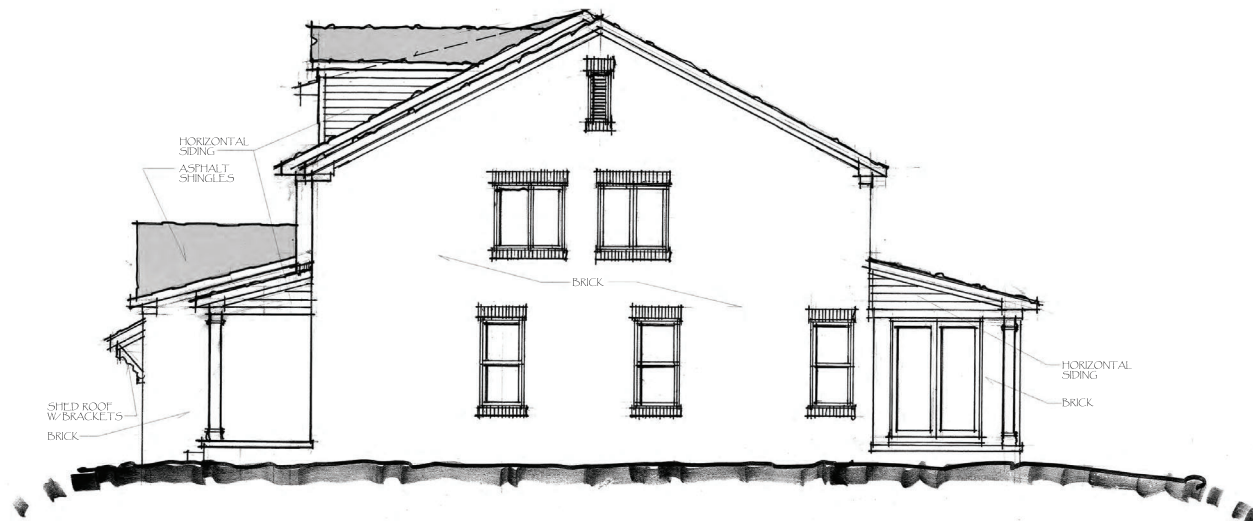
Artist renderings and floor plans are for illustration purposes only and are subject to change. These plans are not to be reproduced, changed, or copied in any form or manner whatsoever. Nor are they to be assigned to any third party without first obtaining the express written permission and consent of TR Design Group, LLC.

Camelot Park



3 PLEX - REAR ELEVATION CONCEPT
SCALE: 1/4" = 1'-0"

Camelot Park



3 PLEX - RIGHT ELEVATION CONCEPT
SCALE: 1/4" = 1'-0"

Camelot Park



4 PLEX - FRONT ELEVATION CONCEPT
SCALE: 1/4" = 1'-0"

5,202 SQ FT. = 100%
4,256 SQ FT / 5,202 SQ FT =
82% BRICK
946 SQ FT / 5,202 SQ FT =
18% SIDING



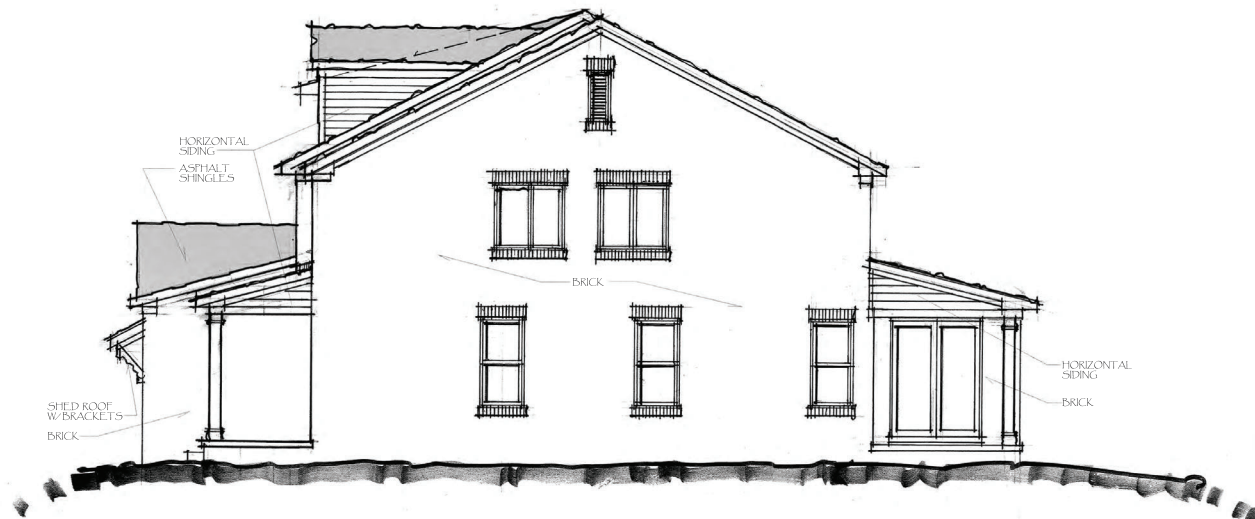
Camelot Park



4 PLEX - REAR ELEVATION CONCEPT
SCALE: 1/4" = 1'-0"



Camelot Park



4 PLEX - RIGHT ELEVATION CONCEPT
SCALE: 1/4" = 1'-0"

Camelot Park



5 PLEX - FRONT ELEVATION CONCEPT
SCALE: 1/4" = 1'-0"

6,189 SQ FT = 100%
5,088 SQ FT / 6,198 SQ FT =
82% BRICK
1,110 SQ FT / 6,198 SQ FT =
18% SIDING

TR DESIGN
GROUP

© 2025 TR Design Group, LLC

Artist renderings and floor plans are for illustration purposes only and are subject to change. These plans are not to be reproduced, changed, or copied in any form or manner whatsoever. Nor are they to be assigned to any third party without first obtaining the express written permission and consent of TR Design Group, LLC.

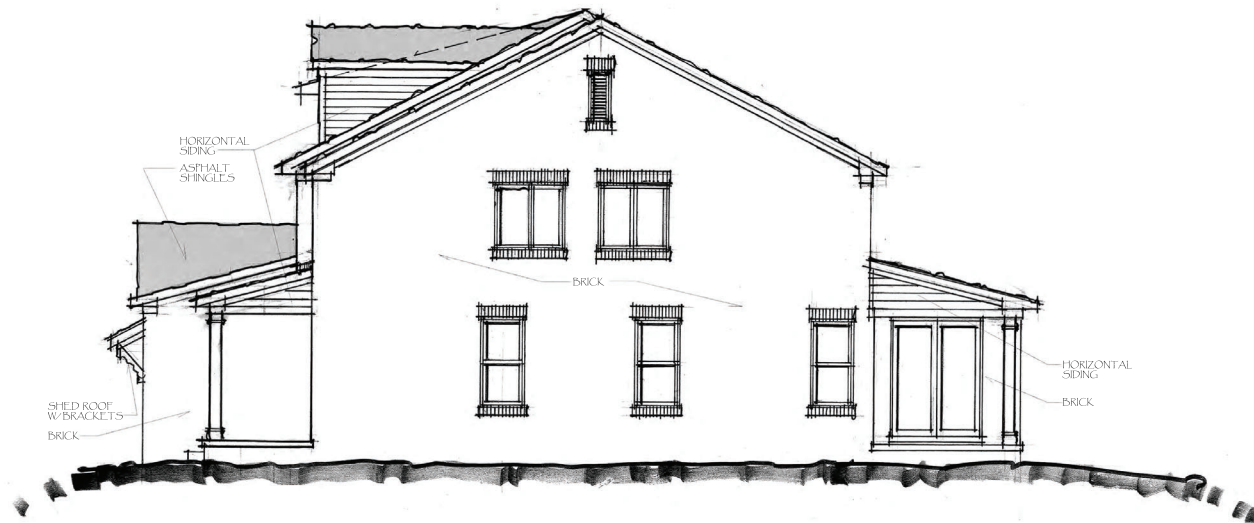
Camelot Park



5 PLEX - REAR ELEVATION CONCEPT
SCALE: 1/4" = 1'-0"



Camelot Park



5 PLEX - RIGHT ELEVATION CONCEPT
SCALE: 1/4" = 1'-0"

PLANNING REVIEW



PLAN REVIEW CENTER REPORT

July 10, 2025

Planning Review

Camelot Parc Townhomes

JSP25-02

PETITIONER

Avalon Park Development, LLC

REVIEW TYPE

Revised PSLR Concept Plan

PROPERTY CHARACTERISTICS

Section	17	
Site Location	East side of Wixom Road, north of Eleven Mile Road; 22-17-300-019	
Site School District	Novi Community School District	
Site Zoning	R-1 One Family Residential with Planned Suburban Low-Rise Overlay (PSLR)	
Adjoining Zoning	North	I-1 Light Industrial & R-1: One-Family Residential with PSLR overlay
	East	I-2: General Industrial with PSLR overlay
	West	R-1: One-Family Residential
	South	I-2: General Industrial with PSLR overlay
Current Site Use	Vacant	
Adjoining Uses	North	Single family home, Retail shopping center (Novi Promenade)
	East	Two-family attached residential (Villas at Stonebrook)
	West	Island Lake residential subdivision
	South	Private road, Public park (Wildlife Woods Park)
Site Size	8.78 acres (Gross); 8.24 (Net)	
Plan Date	June 17, 2025	

PROJECT SUMMARY

The subject property is approximately 8.75 acres and undeveloped. It is zoned R-1, with an overlay of Planned Suburban Low Rise (PSLR). The applicant is proposing 22 attached housing units in five townhome buildings (2-stories). The concept plan indicates the main entrance to the development off Stonebrook Drive, with secondary gated emergency access provided on the west side connecting directly to Wixom Road. The applicant is proposing a trail for residents through the open space areas, and proposes wetland preservation and mitigation. Low rise multiple family is considered a Special Land Use in the PSLR overlay.

RECOMMENDATION

The PSLR Concept Plan is recommended for conditional approval, if Planning Commission and City Council find the PSLR standards for approval have been met. Please see detailed comments in this and other review letters and provide a response letter prior to the Planning Commission public hearing.

It is also recommended that the applicant meet with the Villas at Stonebrook HOA to discuss proposed road maintenance agreement with them as they are the owners of Stonebrook Drive.

PSLR OVERLAY STANDARDS AND PROCEDURES

The PSLR Overlay District requires approval of a PSLR Overlay Development Agreement and Concept

Plan by the City Council following a public hearing and recommendation from the Planning Commission.

In making its recommendation to the City Council, the Planning Commission shall consider the following: *(Staff comments are provided in italics and bracketed.)*

- a. The PSLR Overlay Development Agreement and PSLR Overlay Concept Plan will result in a recognizable and substantial benefit to the ultimate users of the project and to the community. *[The applicant proposes a walking trail through an 0.77 acre area of woodland to be preserved, which is 0.05 acre short of the 10% of site area requirement. There is also a requirement for 200 square feet of private open space per unit that does not appear to be provided. There are no enhancements of the common open spaces shown besides the walking trail, although the Ordinance recommends play structures, furniture and landscaping be provided. Since so much of the property is wetland area to be preserved and wetland mitigation, it is difficult to achieve some of the "active" open space requirements.]*
- b. In relation to the underlying zoning or the potential uses contemplated in the City of Novi Master Plan, the proposed type and density of use(s) will not result in an unreasonable increase in the use of public services, facilities and utilities, and will not place an unreasonable burden upon the subject property, surrounding land, nearby property owners and occupants, or the natural environment. *[The number of daily vehicle trips projected to be generated is 132, which is less than the threshold for a Traffic Study (750 trips). Peak hour trips also do not reach the thresholds. The proposed use is expected to have minimal impacts on the use of public services, facilities and utilities over what the underlying zoning would allow. The proposed concept plan impacts about 0.37 acres of existing 2.3 acres of wetlands and proposes removal of approximately 20 of the regulated woodland trees. The plan indicates appropriate mitigation measures on-site for the wetland and payment into the Tree Fund for 43 replacement credits.]*
- c. In relation to the underlying zoning or the potential uses contemplated in the City of Novi Master Plan, the proposed development will not cause a negative impact upon surrounding properties. *[The proposed buildings are buffered by landscaping and preserved natural features. The multi-family residential use can serve as a transition from the two-family and one-family developments to the west, east and south and the commercial shopping center to the north.]*
- d. The proposed development will be consistent with the goals and objectives of the City of Novi Master Plan, and will be consistent with the requirements of this Article [Article 3.1.27]. *[The proposed development could help provide for missing middle housing needs that are walkable to the commercial areas to the north, which is recommended in the City's Master Plan for Land Use.]*

The City Council, after review of the Planning Commission's recommendation, consideration of the input received at the public hearing, and review of other information relative to the PSLR Overlay Development Agreement Application and PSLR Overlay Concept Plan, may indicate its tentative approval of the PSLR Overlay Development Agreement Application and PSLR Overlay Concept Plan, and direct the City Administration and City Attorney to prepare, for review and approval by the City Council, a PSLR Overlay Development Agreement or deny the proposed PSLR Overlay Concept Plan.

If tentative approval is offered, following preparation of a proposed PSLR Overlay Development Agreement, the City Council shall make a final determination regarding the PSLR Overlay Concept Plan and Agreement.

After approval of the PSLR Overlay Concept Plan and Agreement, site plans shall be reviewed in accordance with the requirements of Section 6.1 and Section 3.21 of the Ordinance and for general compliance with the approved PSLR Overlay Development Agreement and PSLR Overlay Concept Plan.

SPECIAL LAND USE CONSIDERATIONS

The concept plan is proposing low-rise multiple family residential in the PSLR district which requires a Special Land Use Permit. This must be approved by the Planning Commission in accordance with the

requirements of Section 6.1.2.C for Special Land Uses and subject to the public hearing requirements set forth and regulated in Section 6.2.

Section 6.1.2.C of the Zoning Ordinance outlines specific factors the Planning Commission shall consider in the review of any Special Land Use:

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

ORDINANCE DEVIATIONS

Section 3.21.1.D permits deviations from the strict interpretation of the Zoning Ordinance within a PSLR Overlay agreement. These deviations can be granted by the City Council on the condition that *"there are specific, identified features or planning mechanisms deemed beneficial to the City by the City Council which are designed into the project for the purpose of achieving the objectives for the District."* **The applicant shall provide substitute safeguards for each item that does not meet the strict requirements of the Zoning Ordinance.**

The concept plan submitted with an application for a PSLR Overlay is not required to contain the same level of detail as a preliminary site plan, but the applicant has provided enough detail for the staff to identify the deviations from the Zoning Ordinance are currently shown. The following are deviations from the Zoning Ordinance and other applicable ordinances shown on the concept plan:

1. Buildings are required to be separated by a minimum of 30 feet. The two western-most buildings are 25-feet apart, which requires a deviation of 5 feet. ***This is a relatively minor deviation supported by staff because of the natural features constraints of the site and all other buildings exceed the requirements. (Sec. 3.21.2.A.ii)***
2. A stub street to the property boundary at intervals not to exceed 1,300 feet along the perimeter is required by ordinance. ***A waiver of this requirement is supported by staff since providing additional stub roads would require impacts to woodland trees and wetlands, and there are no logical connection points. (Subdivision Ordinance, Sec. 4.04)***
3. Minor drives are not to exceed 600 feet. ***The proposed Avalon Drive would be considered a minor drive, with a width of 26 feet. It has small bays of off-street visitor parking proposed in a few areas. The drive is greater than 600 feet in length, which requires a deviation. This deviation is***

supported by staff due to the existing wetlands which constrain development to the southern area of the site. A wider road width is unnecessary for the small site and would cause greater impacts to the natural features. (Sec. 5.10.1.B.ii)

4. Parking and/or access aisles are located within 8 feet of the buildings in some locations. **The visitor parking locations are no closer than the unit driveway aprons, where parking is also permitted. Staff supports the deviation. (ZO Sec. 3.21.2.A.iv)**
5. Sidewalks along private roadways should be located such that the outside edge of the sidewalk is a minimum of 15 feet from back of curb. **In this case, locating the sidewalk further from the roadway would cause additional impacts to wetland areas or removing more of the berm. The traffic volume is expected to be low enough for this small development that the safety of pedestrians would not be at risk with the sidewalk locations shown. (Design & Construction Standards)**
6. Five-foot sidewalks are required along both sides of local streets and private roadways. **The proposed plans show 5-foot sidewalks on both sides of Camelot Drive, and along the full south side of Avalon Drive. However, sidewalks are shown on only part of the north side of Avalon Drive. This requires a deviation, which is supported by staff as the areas without sidewalk are not near buildings, and installing them would require greater impacts to the wetlands. (CO, Sec. 11-256)**
7. A minimum of 200 square feet of private open space per unit is required, but the applicant indicates 127-130 square feet per unit is proposed. **The applicant includes the justification that providing larger spaces would result in greater impacts to the wetlands, and is difficult to achieve in the townhouse development. (ZO Sec. 3.21.2.A.v)**
8. Active recreation areas shall comprise at least 50% of the open space provided. **Staff acknowledge that this is difficult to achieve on this site because so much of the property is wetland or wetland mitigation areas. In addition, the project is a short walking distance from the City's Wildlife Woods park, which contains active recreation and a link to the ITC trail. (ZO Sec. 3.21.2.A.v)**
9. For permanent lighting installations, the maximum Correlated Color Temperature shall be 3000 Kelvin. The lighting plan shows proposed fixtures are 4000K. **The applicant should specify 3000K fixtures, or request a deviation with sufficient justification. (ZO Sec. 5.7.3.F)**
10. Deficiency in street trees along Wixom Road. **It appears that there is not room for trees with the new sidewalk and existing utilities along the road, so this would be supported by staff. (ZO Sec 5.5.3.B(10))**
11. All buildings, parking lots and loading areas shall be separated from section line road rights-of-way by a 50-foot landscape buffer containing an undulating 3-5 foot-tall, landscaped berm. **A four-foot tall landscaped berm is provided along Wixom Road, but it is not undulating due to the area's size. In addition, there is no berm or greenbelt trees proposed north of the emergency access drive. This is supported by staff since providing the berm would require additional impacts to existing woodland trees and wetlands, and there are no buildings proposed in that area. (Zoning Sec. 5.5.3.B.ii, iii)**
12. Lack of a 25-foot wetland buffer north of Avalon Drive. **This is conditionally supported by staff as the applicant has proposed signage as visual protection for the wetland between Avalon Drive and the buildings is proposed. Wetland buffers are meant to remain in a natural, un-mowed state in order to protect the wetland from surface water run-off and pollutants. The applicant should also propose plantings in this wetland buffer, such as bushes, that would discourage mowing. See Wetland Review for more specific comments. (Sec. 3.6.2.M)**

ADDITIONAL REVIEW COMMENTS

This project was reviewed for conformance with the Zoning Ordinance with respect to Article 3 (Zoning Districts), Article 4 (Use Standards), Article 5 (Site Standards), and any other applicable provisions of the Zoning Ordinance.

Please see the attached chart for information pertaining to ordinance requirements. Items in **bold** below must be addressed and incorporated as part of the revised PSLR Concept Plan submittal:

1. **Missing middle housing:** The proposed plan provides low-rise for-sale units, which can be considered one of the recommended housing types in our 2016 City of Novi Master Plan. It fills the gap between single family units and mid-rise apartments. In Chapter 4, Market Assessment, in our Master plan, there is an example that illustrates how smaller units, clustered together, could potentially be added in well-chosen locations in the City. Walkability is a key to capturing this market segment. The concept plan includes a sidewalk connection to Stonebrook Drive, which would give residents access to the City's main trail system. The Novi Promenade shopping center would also be within walking distance, with a sidewalk proposed to connect to the existing pathway that was recently built by the City along Wixom Road. Other characteristics include medium density that can be perceived as a lower density, smaller, well-designed units, and blended densities.
2. **Unit size:** Per the City's 2016 Master Plan, missing middle housing types are expected to be smaller units than or typically found in Novi, with small or zero setback lots. The current concept plan is proposing unit sizes of 1,950-1,975 square feet. **These units are consistent with other development projects proposed to meet RM-1 and RM-2 standards, but are larger than the adjacent Villas at Stonebrook units (max. 1700 square feet).**
3. **Housing Style:** Conceptual elevations and floor plans provided indicate 2-story townhouses, with 3-, 4-, and 5-unit buildings. Each unit has its own exterior door and contains three bedrooms. Each home has a two-car attached garage.
4. **Density:** Section 4.70 of the Zoning Ordinance states, "In the PSLR district, low-rise multiple-family residential uses are permitted as a special land use up to a maximum of 6.5 dwelling units per net acre, excluding existing road rights-of-way." **The current concept plan proposes 2.7 units/net acre (ROW is excluded from the gross parcel size), which is less than what is allowed under PSLR zoning requirements.**
5. **Traffic Impacts:** As indicated in the Traffic Review letter, the proposed development is estimated to generate 5 peak hour trips in the morning, 10 peak-hour trips in the evening, and approximately 132 daily trips. These levels do not meet the City's threshold to require either a Traffic Impact Study or a Traffic Assessment, as described in the City's Site Plan and Development Manual. In addition, no new access drive is proposed to be added onto Wixom Road.
6. **Stonebrook Drive:** The applicant has included a proposed Road Maintenance Plan on Sheet 11 for Stonebrook Drive. The plan calculates a contribution for the proposed Camelot Parc toward Stonebrook Drive maintenance costs based on the length of the road, percentage of road used to access Camelot Drive, and the total number of units for each development. **As Stonebrook Drive is a private road owned by Villas at Stonebrook HOA, the applicant should meet with them to discuss proposed road maintenance agreement with them. Any cost sharing agreement would be a private agreement between the two entities.**
7. **Connection to neighboring properties:** Full time access drives shall be connected only to non-section line roads. New roads should provide public access connections to neighboring properties at location(s) acceptable to the City and the neighboring property. **The proposed development has a full-time access drive off of Stonebrook Drive, a private road belonging to the Villas at Stonebrook development. There is an ingress-egress agreement to allow this access. Wixom Road is considered a Section line road. A gated emergency access only drive is provided to Wixom Road. The only neighboring property available to connect to is the property to the north, which also has the ability to develop under the PSLR standards. Providing a connection to that parcel would mean impacting regulated wetland and woodland areas. Therefore, staff does not recommend that connection.**

8. **Open Space:** The applicant has not met requirements for several conditions related to providing open space on the property, and is requesting deviations for these conditions. While nearly 30% of the site is proposed to remain open space, it is largely existing wetland areas to be preserved and therefore not suitable for the type of open space the PSLR Overlay requires to be provided. These requirements are:

- a. *Each dwelling unit shall have a minimum of two-hundred (200) square feet of private open space adjacent to and accessible directly from the dwelling unit. This open space may include covered porches, patios, and balconies. **(Covered porches of about 125 sf are proposed)***
- b. *All residential developments shall provide common open space areas, enhanced with play structures, furniture, and landscaping as central to the project as possible.*
- c. *Active recreation areas shall be provided in all residential developments, with at least fifty percent of the open space area provided to be designed for active recreation.*
- d. *Active recreation area shall consist of a minimum of ten percent of the site area.*

Staff supports the deviations requested related to open space as it is in the interest of preserving wetland and woodlands. The applicant has worked to redesign the site to minimize impacts to these features compared to earlier concept plans. The result is 32% of the overall site area will be open space, although it is mostly passive since wetland areas do not afford active recreation. In addition, the sidewalks proposed will provide linkage to the nearby Wildlife Woods Park, which provides active recreation opportunities, and a direct connection to the City's ITC trail and the campus trail network at Henry Ford Providence Novi.

9. **Plan Review Chart:** Please refer to Planning Review Chart for other comments that need to be included on the Site plan.

SUMMARY OF OTHER REVIEWS

- a. Engineering Review: Additional comments to be addressed with Preliminary Site Plan. **Engineering recommends approval.**
- b. Landscape Review: **Landscape recommends conditional approval if additional protections for wetland buffers are provided.**
- c. Wetland Review: An EGLE Wetland Permit and a City of Novi Wetland Non-Minor Use Permit are likely required, as well as a City of Novi Authorization to Encroach the 25-Foot Natural Features Setback. Wetland mitigation is proposed (0.61 acre) on-site to compensate for wetland impacts of 0.37 acre. **Approval is recommended with the condition that environmental enhancement within the southern wetland buffer is provided to prevent mowing and disturbance.**
- d. Woodland Review: A Woodland Permit from the City of Novi would be required for 20 regulated woodland tree removals. Additional comments to be addressed in the Site Plan. **Woodlands recommends approval of the PSLR Concept Plan.**
- e. Traffic Review: Additional comments to be addressed with Preliminary Site Plan. **Traffic recommends approval of the PSLR Concept.**
- f. Facade Review: **Façade recommends approval.** The design is in compliance with the Façade ordinance standards and specific PSLR Ordinance design standards.
- g. Fire Review: Conformance with fire safety standards will be further reviewed with Site Plan submittal. **Fire recommends conditional approval of the PSLR, with comments to be addressed in the Site Plan submittals.**

NEXT STEP: PLANNING COMMISSION MEETING

This PSLR Concept Plan will be scheduled to go before the Planning Commission for public hearing and a recommendation to City Council on August 20, 2025, at 7:00 p.m. Please provide the following via email by August 13th at noon:

1. Site Plan submittal in PDF format (maximum of 10MB). **This has been received.**

2. A response letter addressing ALL the comments from ALL the review letters and a request for waivers/variances as you see fit, including justification for such waivers.
3. A color rendering of the Site Plan.

CITY COUNCIL

Following the Planning Commission meeting, the PSLR Concept Plan will be scheduled for City Council consideration. If the City Council grants tentative approval at that time, the next steps would be to develop the PSLR Agreement. Following final approval of the PSLR Plan and Agreement, the applicant would then begin the site plan approval process.

STREET AND PROJECT NAME

This project has applied for Project Naming Committee approval. **Please see letter from Stacey Choi (248-347-0483)** in the Community Development Department for information. If any further changes are proposed, the application can be found by clicking on this [link](#).

CHAPTER 26.5

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

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



Lindsay Bell, AICP – Senior Planner



PLANNING REVIEW CHART: PSLR Planned Suburban Low-Rise Overlay

Review Date: July 10, 2025
Review Type: Revised PSLR Concept Plan
Project Name: **JSP25-02 Camelot Parc Townhomes**
 Parcel 22-17-300-019
Prepared by: Lindsay Bell, AICP, Senior Planner
Contact: **E-mail:** lbell@cityofnovi.org; **Phone:** (248) 347-0484

Items in **Bold** need to be addressed by the applicant with PSLR Concept Plan. Underlined items need to be addressed prior to the approval of the Site Plan

Item	Required Code	Proposed	Meets Code	Comments
Zoning and Use Requirements				
Master Plan (adopted July 27, 2017)	Suburban Low-Rise	Suburban Low-Rise	Yes	
Area Study	The site does not fall under any special category	NA	Yes	
Zoning (Effective January 8, 2015)	R-1 One Family Residential with PSLR (Planned Suburban Low-Rise) overlay	R-1 with PSLR overlay	Yes	PSLR Agreement and Concept Plan must be approved by City Council after recommendation by Planning Commission.
Uses Permitted (Sec 3.1.27.B & C)	Sec 3.1.27.B Principal Uses Permitted. Sec 3.1.27.C Special Land Uses	22 dwelling units – low rise multiple family (2-story)	Yes	Special Land Use Permit required.
Next Steps	1. Planning Commission review, public hearing and recommendation to City Council 2. City Council review and consideration of concept plan and PSLR Agreement 3. Review and approval of site plans per section 6.1.			
Low-Rise Multiple-Family Residential Uses In The PSLR District (Sec. 4.70)				
Low-rise multiple-family residential uses	- In the PSLR district, low-rise multiple-family residential uses are permitted as a special land use up to a maximum of 6.5 dwelling units per net acre, excluding existing road rights-of way.	22 Units on 8.24 net acres = 2.7 Dwelling units per acre	Yes	
3.21 PSLR Required Conditions				
Narrative (Sec. 3.32.3.A)	Explain how the development exceeds the standards of this ordinance	Narrative provided	Yes	
PSLR Overlay Concept Plan:	i. Legal description and dimensions	Provided	Yes	

Item	Required Code	Proposed	Meets Code	Comments
Required Items (Sec. 3.21.1.A)	ii. Existing zoning of site/adjacent properties	Provided	Yes	
	iii. Existing natural features such as wetlands and proposed impacts	Wetlands exist on site with an open body of water in the NE	Yes	See Woodland-Wetland Review
	iv. Existing woodlands and proposed impacts	Tree survey provided	Yes	
	v. Existing and proposed rights-of-way and road layout	60 feet ROW along Wixom Road frontage is indicated to be dedicated. The current site plan indicates private roads within the development	Yes	
	vi. Bicycle/pedestrian plan	Sidewalks, walking trail shown	Yes	
	vii. Conceptual storm water management plan	Provided	Yes	
	viii. Conceptual utility plan	Provided	Yes	
	ix. Building, Parking and Wetland Setback requirements	Min. 30 feet setback lines on all four sides indicated on the plans. 10-foot setback around wetland areas.	No	Building north of the drive will be within remaining wetland buffer
	x. Conceptual layout	Provided	Yes	
	xi. Conceptual open space/recreation plan	Information provided on sheet 9; walking path shown	Yes	
	xii. Conceptual streetscape landscape plan	Provided	Yes	Refer to Landscape review for more details
PSLR Overlay Concept Plan: Optional Items (Sec. 3.21.1.A)	xiii. Parking plan	Provided	Yes	Refer to Traffic review letter for additional comments
	xiv. Detailed layout plan	Provided	Yes	
	xv. Residential density calculations and type of units	2.7 DUA proposed	Yes	
	xvi. Detailed open space/recreation	Walking path (gravel), benches	Yes	
	xvii. Detailed streetscape landscape plan	Provided	Yes	Refer to Landscape review for more details
	xviii. Graphic description of each deviation from the applicable	Written description provided in the narrative	Yes?	

Item	Required Code	Proposed	Meets Code	Comments
	ordinance requested			
	xix. Phasing plan	Phasing not indicated	NA	
Community Impact Statement (Sec. 3.21.1.B)	- All non-residential projects over 30 acres for permitted use - All non-residential over 10 acres for special land use - Residential over 150 units - Mixed use, staff determines - Requirements within study (include: social impacts, environmental factors)	Total project area is 8.78 Acres or 8.24 Net after ROW dedication, units 22	NA	<i>Does not meet threshold for CIS</i>
Traffic Impact Study (Sec. 3.21.1.C)	Study as required by the City of Novi Site Plan and Development Manual	Does not meet requirements for study	NA	
Proposed Ordinance Deviations (Sec. 3.21.1.D)	List all proposed ordinance deviations with supporting narrative.	Deviations listed in applicant narrative.	Yes	See charts and letters for all deviations
City Council may approve deviations from the Ordinance standards as part of a PSLR Overlay Development Agreement provided there are specific, identified features or planning mechanisms deemed beneficial to the City which are designed into the project for the purpose of achieving the objectives for the District. Safeguards shall be provided for each regulation where there is noncompliance on the PSLR Overlay Concept Plan.				
Required PSLR Overlay Use Standards/ Conditions for special land uses (Sec. 3.21.2)				
Site Standards (Sec. 3.21.2.A)				
Building Frontage (Sec. 3.21.2.A.i)	Buildings shall front on a dedicated non-section line public street or an approved private drive	Site fronts on Section line public road and will have access via Stonebrook Drive to proposed private minor drives	Yes	
Building Setbacks (Sec. 3.21.2.A.ii) & (Sec 3.1.27.D) *** The maximum front and exterior side yard setback requirement when adjacent to roads and drives (other than planned or	Minimum front yard setback: 30 ft*** Maximum front yard setback: 75 ft.	30 ft. from units to private dr.	Yes	
	Minimum rear yard setback: 30 ft	30 feet	Yes	
	Exterior side yard adjacent to roads and drives 30 ft***	55 feet to South property line	Yes	
	Exterior side yard adjacent to planned or existing section line road ROW 50 ft	50 feet from Wixom Road	Yes	

Item	Required Code	Proposed	Meets Code	Comments
existing section line road right-of-way) is 75 feet.	Interior side yard 30 ft	130 ft	Yes	<u>2 Western-most buildings are 25-feet apart, which would require a deviation</u>
	Building to building 30 ft	25 ft	No	
	Building Corner to corner: 15 ft		NA	
Landscape Buffer (Sec. 3.21.2.A.iii) and Berms (Sec. 5.5.3)	All buildings, parking lots and loading areas shall be separated from section line road rights-of-way by a 50 ft. landscape buffer containing an undulating 3-5 ft. tall landscaped berm.	landscape buffer provided with berm near building, waiver requested where no buildings and existing woodlands are present	No	Refer to planning and landscape review for more details – <u>Deviation Requested</u>
Parking spaces for all uses in the district (except for townhouse style multiple-family dwellings that provide private garages for each dwelling unit) (Sec. 3.21.2.A.iv)	Located only in the rear yard or interior side yard	A few Interior parking shown for visitor spaces	Yes	
	Screened by 3-5 ft. undulating berm from adjacent streets per Section 5.5.3.	Berms present	Yes	
	All parking and access aisles shall be Min. 15 ft. from all buildings	8-11.6 feet in some locations	No	<u>Deviation requested to allow visitor parking to be located 8- to 11.5-ft from buildings</u>
Parking Setbacks (Sec. 3.21.2.A.iv.d) * except that parking spaces for townhouse developments shall be permitted in the front yard setback when the parking area is also a driveway access to a parking garage contained within the unit.	Front yard parking is not permitted*	None proposed	Yes	
	Exterior side yard adjacent to a section line road - 50 ft. min		NA	
	Exterior side yard adjacent to a local street – 30 ft. min	120 ft	Yes	
	Interior side yards adjacent to single family residential districts - 30 ft. min	120 ft	Yes	
	Interior side yards not adjacent to a single family residential district – 15 ft. min		NA	
Open Space Recreation requirements for Multi-Family Residential Developments	Minimum of 200 square feet per dwelling unit of private open space accessible to building (includes covered porches, balconies and	Some private open space indicated – appears 2,750 square feet is proposed in balcony/patio areas (125 sf per unit average)	No	<u>Deviation requested for deficiency of 75 sf per unit</u>

Item	Required Code	Proposed	Meets Code	Comments
(Sec. 3.21.2.A.v)	patios)			
	Common open space areas as central to project as possible	Most of the open space in the northern area of the site – existing wetlands and proposed mitigation areas	Yes	
	Active recreation areas shall be provided with at least 50 % of the open spaces dedicated to active recreation	Total open spaces: 2.65 acres Active open space: 0.77 acres (walking trail area)	No	<u>Deviation requested for less than 50% as active, 29% proposed</u>
	Active recreation shall consist 10% of total site area. (0.82 acre)	Active open space 0.77	No	<u>Deviation requested for deficiency of 0.05 acre</u>
Other Applicable Zoning Ordinances (Sec. 3.21.2.A.vi, vii and ix)	Loading and Unloading per Section 5.4	Loading spaces are not required	NA	
	Off-street Parking per Section 5.2 and 5.3: 2 spaces per dwelling unit with 2 bedrooms	22 x 2 = 44 required 104 spaces provided	Yes	Two-car garages, 2 apron spaces per unit, and 16 visitor spaces
	Landscaping per Section 5.5, All sites shall include streetscape amenities such as but not limited to benches, pedestrian plazas, etc.	One bench, residential-style wall lights	Yes	Suggest additional benches around the walking path
Building Length (Sec. 3.21.2.A.viii)	Maximum building length as described in Sec 3.21.3.A.vii shall not exceed 180 ft.	Does not exceed. 134 ft max	Yes	
	City Council may modify the minimum length up to a maximum of 360 ft. if: a) Building includes recreation space for min. 50 people b) Building is setback 1 ft. for every 3 ft. in excess of 180 ft. from all residential districts.	Not applicable	NA	
Outdoor Lighting (Sec. 3.21.2.A.x)	Maximum height of light fixtures: 20 ft.	15 ft	Yes	
	Cut-off angle of 90 degrees or less	Provided	Yes	
	No direct light source shall be visible at any property line abutting a section line road right-of-way at ground level.	Light fixture at western end of access aisle may be visible, but it is shielded	Yes	
	Maximum Illumination at property line: 0.5fc	Max proposed 0.5 fc except for entrance	Yes	

Item	Required Code	Proposed	Meets Code	Comments
		drive on Stonebrook Dr.		
Circulation Standards (Sec. 3.21.2.B)				
Full Time Access (Sec. 3.21.2.B)	Full-time access drives shall be connected only to non-section line roads	Full time access drives are connected to a proposed private drive	Yes	
Emergency Access (Sec. 3.21.2.B)	Emergency access with access gate may be connected to section line roads when no other practical location is available	Emergency access is proposed	Yes	
Connection to Neighboring Properties (Sec. 3.21.2.B.i)	New roads should provide public access connections to neighboring properties at location(s) acceptable to the City and the neighboring property	Connections to neighboring parcels are proposed via previous public access easement (Villas at Stonebrook)	Yes	
New Roads (Sec. 3.21.2.B.ii.a)	New roads shall be designed as pedestrian/bicycle focused corridors as identified in the Active Mobility Plan	Drive aisles are not new streets		
Non-Motorized Facilities (Sec. 3.21.2.B.ii.b)	Facilities shall be connected to the existing pedestrian network	Sidewalks are proposed within the site and connected to Wixom Road and Stonebrook Dr	Yes	
Proposed Non-Motorized Facilities (Sec. 3.21.2.B.ii.c)	Where existing non-motorized facilities do not exist on adjacent neighboring properties, facilities shall be stubbed to the property line.	Pathway existing on Wixom Road	NA	
Building Design Standards (Sec. 3.21.2.C)				
Building Height (Sec. 3.21.2.C.i)	35 ft. or 2 ½ stories	2-story shown, 25.5'	Yes	
Building Design (Sec. 3.21.2.C.ii)	Buildings must be designed with a "single-family residential character"	Residential style shown	Yes	See previous Façade Review for comments
Building Design (Sec. 3.21.2.C.ii)	Front and rear elevations have ground floor pedestrian entrances spaces no more than 60 ft	Pedestrian entrances on front and rear, for each unit	Yes	
Maximum % of Lot Area Covered	25%	9.17%	Yes	

Item	Required Code	Proposed	Meets Code	Comments
(Sec. 3.1.27.D)				
Note To District Standards (Sec 3.6.2)				
Off-Street Parking in Front Yard (Sec 3.6.2.E)		No front yard parking proposed	NA	
Parking setback screening (Sec 3.6.2.P)	Required parking setback area shall be landscaped per sec 5.5.3.	Parking lots are screened by berm/buildings	Yes	
Modification of parking setback requirements (Sec 3.6.2.Q)	Refer to Sec 3.6.2 for more details	Modifications are not requested	NA	
Additional Road Design, Building Setback, And Parking Setback Requirements, Multiple-Family Uses (Sec. 5.10)				
Road standards (Sec. 5.10)	A private drive network within a cluster, two - family, multiple-family, or non-residential uses and developments shall be built to City of Novi Design and Construction Standards for local street standards (28 feet back-to-back width)	Camelot Dr - 28 feet wide Avalon Dr – 26 feet	Yes	
Major Drives	Width: 28 feet	Stonebrook Dr would be the Major Drive - existing	Yes	
Minor Drive	- Cannot exceed 600 feet - Width: 24 feet with no on-street parking - Width: 28 feet with parking on one side - Parking on two sides is not allowed - Needs turn-around if longer than 150 feet	Avalon Drive exceeds 600 ft length 26-foot wide Parking bays on 1 side Turn-arounds provided	No Yes	<u>Deviation required for minor drive in excess of 600 ft</u>
Parking on Major and Minor Drives	- Angled and perpendicular parking, permitted on minor drive, but not from a major drive; - minimum centerline radius: 100 feet - Adjacent parking and on-street parking shall be limited near curves with less than two-hundred thirty (230) feet of centerline radius	Perpendicular parking proposed on minor drive Parking setback is required to be 15 ft in PSLR standards (see previous note)	Yes	

Item	Required Code	Proposed	Meets Code	Comments
	- Minimum building setback from the end of a parking stall shall be 25 feet in residential districts.			
Parking, Loading and Dumpster Requirements				
Number of Parking Spaces	Two for each dwelling unit	104 spaces	Yes	
Multiple Family (Sec. 5.2.12.A)	For 22 units, 44 spaces			
Parking Space Dimensions and Maneuvering Lanes (Sec. 5.3.2)	<u>90° parking layout:</u> 9' x 19' parking space dimensions and 24' wide drives	26' access aisle	Yes	
	9' x 17' if overhang on 7' wide interior sidewalk or landscaped area as long as detail indicates 4' curb	9' x 19' proposed	Yes	
Parking stall located adjacent to a parking lot entrance (public or private) (Sec. 5.3.13)	- shall not be located closer than twenty-five (25) feet from the street right-of-way (ROW) line, street easement or sidewalk, whichever is closer	Complies	Yes	
End Islands (Sec. 5.3.12)	- End Islands with landscaping and raised curbs are required at the end of all parking bays that abut traffic circulation aisles. - The end islands shall generally be at least 8 feet wide, have an outside radius of 15 feet, and be constructed 3' shorter than the adjacent parking stall as illustrated in the Zoning Ordinance		NA	See Traffic Review for detailed comments
Barrier Free Spaces Barrier Free Code	1 barrier free parking spaces (for total 26 to 50) & 1 van barrier free parking space	2 barrier free proposed		See Traffic Review
Barrier Free Space Dimensions Barrier Free Code	- 8' wide with an 8' wide access aisle for van accessible spaces - 8' wide with a 5' wide access aisle for regular accessible spaces	9' wide, 9' access aisle – appears to comply	Yes?	Could reduce spaces to 8' each with 8' access to recover a couple feet of pavement

Item	Required Code	Proposed	Meets Code	Comments
Barrier Free Signs <i>Barrier Free Code</i>	One sign for each accessible parking space.			See Traffic Review
Minimum number of Bicycle Parking <i>(Sec. 5.16.1)</i>	One (1) space for each five (5) dwelling units: 5 spaces required	5 spaces shown	Yes	Provide required bike parking
Bicycle Parking General requirements <i>(Sec. 5.16)</i>	- 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		TBD	Will be reviewed in Final Site Plan submittal
Bicycle Parking Lot layout <i>(Sec 5.16.6)</i>	Parking space width: 7 ft. One tier width: 11 ft. Two tier width: 18 ft. Maneuvering lane width: 4 ft. Parking space depth: 32 in		TBD	Will be reviewed in Site Plan submittals
Dumpster <i>(Sec 4.19.2.F)</i>	- Located in rear yard or interior side yard in case of double frontage - Attached to the building or - No closer than 10 ft. from building if not attached - Not located in parking setback - If no setback, then it cannot be any closer than 10 ft. from property line. - Away from Barrier free Spaces	Not proposed – individual trash pick up	NA	
Dumpster Enclosure <i>(Sec. 21-145.(c) City code of Ordinances)</i>	- Screened from public view - A wall or fence 1 ft. higher than height of refuse bin - And no less than 5 ft.		NA	

Item	Required Code	Proposed	Meets Code	Comments
	- on three sides - Posts or bumpers to protect the screening - Hard surface pad. - Screening Materials: Masonry, wood or evergreen shrubbery			
Sidewalk Requirements				
ARTICLE XI. OFF-ROAD NON-MOTORIZED FACILITIES Sec. 11-256. <i>Requirement.</i> (c) & Sub. Ord. Sec. 4.05,	- In the case of new streets and roadways to be constructed as part of the project, a sidewalk shall be provided on both sides of the proposed street or roadway. - Sidewalks along arterials and collectors shall be 6 feet or 8 feet wide as designated by the "Bicycle and Pedestrian Plan," but not along industrial service streets per Subdivision Ordinance - Whereas sidewalks along local streets and private roadways shall be five (5) feet wide.	Existing pathway shown on Wixom Road 5-ft sidewalks both sides of Camelot Dr, 5-ft sidewalk on Avalon Dr for most part	Yes No	<u>Deviation required for absence of sidewalk on portion of north side of Avalon Drive</u>
Pedestrian Connectivity	- Whether the traffic circulation features within the site and parking areas are designed to assure safety and convenience of both vehicular and pedestrian traffic both within the site and in relation to access streets - Building exits must be connected to sidewalk system or parking lot.		No	
Active Mobility Plan	- Pathway gap on Wixom Road		NA	This gap was constructed by the City in 2024
City Code and Other Requirements				
Woodlands (City Code Ch.	Replacement of removed trees		TBD	See Planning and Woodland Reviews

Item	Required Code	Proposed	Meets Code	Comments
37)				
Wetlands (City Code Ch. 12, Art. V)	Mitigation of removed wetlands at ratio of 1.5:1 emergent wetland, 2:1 for forested wetlands	Mitigation shown to be constructed on-site	Yes	See Wetland Review.
Design and Construction Standards Manual	Land description, Sidwell number (metes and bounds for acreage parcel, lot number(s), Liber, and page for subdivisions).		Yes	
General layout and dimension of proposed physical improvements	Location of all existing and proposed buildings, proposed building heights, building layouts, (floor area in square feet), location of proposed parking and parking layout, streets and drives, and indicate square footage of pavement area (indicate public or private).	Mostly provided. Some dimensions are required to provide more clarity.	Yes	Refer to all review letters for comments
Economic Impact	- Total cost of the proposed building & site improvements Number of anticipated jobs created (during construction & after building is occupied, if known)	Investment of \$8.5M 50-70 trade and construction jobs	Yes	
Legal Documents	PSLR Development Agreement is required if approved. Conservation Easements for wetlands/woodlands areas; ROW dedication with Final Site Plan review	PSLR Agreement Conservation Easements Master Deed	TBD	<u>A PSLR agreement would be required if City Council approves the Concept Plan</u>
Development and Street Names	Development and street names must be approved by the Street Naming Committee before Preliminary Site Plan approval	Application received	Yes	The project requires a project and street naming approval.
Development/ Business Sign	- Signage if proposed requires a permit. - Signage is not regulated by the Planning Division or Planning Commission.	Will need to apply for sign permit		<i>Contact Ordinance Enforcement at 248.735.5678, for sign ordinance questions.</i>

Item	Required Code	Proposed	Meets Code	Comments
Lighting and Photometric Plan (Sec. 5.7)				
Intent (Sec. 5.7.1)	- Establish appropriate minimum levels, prevent unnecessary glare, reduce spillover onto adjacent properties & reduce unnecessary transmission of light into the night sky		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	Provided	Yes	
Building Lighting (Sec. 5.7.2.A.iii)	- Relevant building elevation drawings showing all fixtures, the portions of the walls to be illuminated, illuminance levels of walls and the aiming points of any remote fixtures.	Provided	Yes	
Lighting Specifications (Sec. 5.7.A.2.ii)	- Specifications for all proposed & existing lighting fixtures	Shown	Yes	
	- Photometric data	Shown	Yes	
	- Fixture height	Shown	Yes	
	- Mounting & design	Shown	Yes	
	Glare control devices - (Also see Sec. 5.7.3.D)	Shown	Yes	
	Type & color rendition of lamps	4000K	No	<u>Change to 3000K fixtures or seek a variance with justification (Note – Response letter states these are now 3000K, however photometric sheet shows 40K)</u>
	Hours of operation	24 hrs/day	Yes	
Max Height (Sec. 5.7.3.A)	Height not to exceed 25feet <i>Superseded by Sec. 3.21.2.A.x (20-ft max)</i>	Not shown	No	Mounting height not found on photometric plan
Standard Notes (Sec. 5.7.3.B)	- Electrical service to light fixtures shall be placed underground - Flashing light shall not be permitted	Notes not found	TBD	

Item	Required Code	Proposed	Meets Code	Comments
	- Only necessary lighting for security purposes & limited operations shall be permitted after a site's hours of operation			
Indoor Lighting (Sec. 5.7.3.H)	- Indoor lighting shall not be the source of exterior glare or spillover		NA	
Security Lighting (Sec. 5.7.3.I) Lighting for security purposes shall be directed only onto the area to be secured.	- All fixtures shall be located, shielded and aimed at the areas to be secured. - Fixtures mounted on the building and designed to illuminate the facade are preferred		NA	
Color Spectrum Management (Sec. 5.7.3.F)	Non-Res and Multifamily: - For all permanent lighting installations - minimum Color Rendering Index of 70 and Correlated Color Temperature of no greater than 3000 Kelvin	Fixtures are 4000K	No	Provide information to verify compliance in fixture chart for each type <u>Deviation required for fixtures over 3000K</u>
Parking Lot Lighting (Sec. 5.7.3.J)	- Provide the minimum illumination necessary to ensure adequate vision and comfort. - Full cut-off fixtures shall be used to prevent glare and spillover.		NA	
Min. Illumination (Sec. 5.7.3.L)	- Parking areas: 0.2 fc min			
	- Loading & unloading areas: 0.4 fc min			
	- Walkways: 0.2 fc min			
	- Building entrances, frequent use: 1.0 fc min			
	- Building entrances, infrequent use: 0.2 min			
Average Light Level (Sec. 5.7.3.L)	- Average light level of the surface being lit to the lowest light of the surface being lit shall not exceed 4:1			
Max. Illumination adjacent to	- When site abuts a non-residential district, maximum illumination		NA	

Item	Required Code	Proposed	Meets Code	Comments
Non-Residential (Sec. 5.7.3.L)	at the property line shall not exceed 1 foot candle			
Max. Illumination adjacent to Residential (Sec. 5.7.3.M)	- Fixture height not to exceed 25 feet - Cut off angle of 90 degrees or less - No direct light source shall be visible at the property line adjacent to residential at ground level - Maximum illumination at the prop line not to exceed 0.5 fc.	Fixture height not noticed Property lines 0.0 except for entrance on Stonebrook Dr	No Yes	
Residential Developments (Sec. 5.7.3.O)	- Provide sufficient illumination (0.2 fc min) at each entrance from major thoroughfare - Residential projects may deviate from the min. illumination levels and uniformity requirements of 5.7.3.L so long as site lighting for parking lots, property lines and security lighting is provided	Lighting at entrances exceeds min	Yes	<i>Lighting is appropriate for residential area</i>

NOTES:

1. This table is a working summary chart and not intended to substitute for any Ordinance or City of Novi requirements or standards.
2. The section of the applicable ordinance or standard is indicated in parenthesis. Please refer to those sections in Article 3, 4 and 5 of the zoning ordinance for further details.
3. Please include a written response to any points requiring clarification or for any corresponding site plan modifications to the City of Novi Planning Department with future submittals.

ENGINEERING REVIEW



PLAN REVIEW CENTER REPORT

07/09/2025

Engineering Review

Camelot Parc Townhomes
JSP25-0002

APPLICANT

Avalon Park Development, LLC

REVIEW TYPE

PSLR Concept Plan

PROPERTY CHARACTERISTICS

- Site Location: Located on the west side of Wixom Road north of Stonebrook Drive in section 17 of the City of Novi
- Site Size: 8.78 acres
- Plan Date: 6-17-2025
- Design Engineer: Atwell Engineering

PROJECT SUMMARY

- Construction of 5 residential buildings with 22 townhome units. Site access will be provided via Stonebrook Drive.
- Water service would be provided by an 8-inch extension from the existing 16-inch water main along the west side of Wixom Road, and loop to connect to the existing 16-inch water main on the south side of Stonebrook Drive. Along with 2 additional hydrants.
- Sanitary sewer service would be provided by an extension from the existing 8-inch sanitary sewer along the north side of Stonebrook Drive.
- Storm water would (continue to) be collected by a single storm sewer collection system and discharged to an on-site detention basin.

RECOMMENDATION

Approval of the PSLR Concept Plan is **recommended** at this time, Engineering has no concerns with the concept plan at this time. The following items shall be addressed at the time of Preliminary Site Plan submittal:

COMMENTS

1. Reference city benchmark 1823, located on the west side of Wixom Road. [City of Novi Survey Benchmarks Arch Map](#).
2. **Only at the time of the printed Stamping Set submittal**, provide the City's standard detail sheets for water main (5 sheets), sanitary sewer (3 sheets), storm sewer (2 sheets), paving (2 sheets). The most updated details can be found on the City's website under [Engineering Standards and Construction Details](#).
3. A [Right-of-Way Permit](#) will be required from the City of Novi.
4. Provide sight distance measurements for the Stonebrook Drive entrance in accordance with Figure VIII-E of the [Design and Construction Standards, Chapter 11 of the City of Novi Code of Ordinances](#).
5. Provide a traffic control sign table listing the quantities of each **permanent** sign type proposed for the development. Provide a note along with the table stating all traffic signage will comply with the current MMUTCD standards. Check pole detail for any right-of-way poles.
6. Provide a construction materials table on the utility plan listing the quantity and material type for each utility (water, sanitary and storm) being proposed.
7. Provide a utility crossing table indicating that at least 18-inch vertical clearance will be provided, or that additional bedding measures will be utilized at points of conflict where adequate clearance cannot be maintained.
8. Provide a note stating if dewatering is anticipated or encountered during construction, then a dewatering plan must be submitted to the Engineering Division for review.
9. Generally, all proposed trees shall remain outside utility easements. Where proposed trees are required within a utility easement, add a note stating the distance between the proposed water main and the street trees.

WATER MAIN

10. All public water main easements shall be 20-feet wide. Show 20-foot wide proposed easement.
11. Provide a water main basis of design for the development on the utility plan sheet.
12. Water Systems must have the ability to serve at least three thousand (3,000) gallons per minute in apartment, cluster residential and similar complexes, institutional and school areas.
13. Provide a profile for all proposed public water main 8-inch or larger.
14. In the general notes and on the profile, add the following note: "Per the Ten States Standards Article 8.8.3, one full 20-foot pipe length of water main shall be used whenever storm sewer or sanitary sewer is crossed, and the pipe shall be centered on the crossing, in order to ensure 10-foot separation between water main and sewers." Additionally, show the 20-foot pipe lengths on the profile.
15. EGLE permit applications take at least 3 months for review, it is recommended that the applicant submit the draft EGLE application with preliminary site plan to Engineering Division.

16. A sealed set of utility plans along with the [Michigan Department of Environment, Great Lakes & Energy \(EGLE\) permit application](#) for water main construction, the [Streamlined Water Main Permit Checklist](#), [Contaminated Site Evaluation Checklist](#), [Basis of Design](#), and an electronic version of the utility plan 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.

IRRIGATION

17. Provide irrigation plans for site as part of the preliminary site plan submittal.

SANITARY SEWER

18. All public sanitary sewer shall be within a dedicated sanitary sewer easement unless proposed in the right-of-way. Show proposed 20-foot wide sanitary sewer easement.
19. Provide a note on the Utility Plan and sanitary profile stating the sanitary leads will be buried at least 5 feet deep where under the influence of pavement.
20. Illustrate all pipes intersecting with manholes on the sanitary profiles.
21. Three (3) sealed sets of revised utility plans along with the [Michigan Department of Environment, Great Lakes & Energy \(EGLE\) permit application](#), electronic utility plan for sanitary sewer construction, and the Streamlined Sanitary Sewer Permit Certification 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. It should be indicated with the application if an expedited EGLE review is requested. EGLE will charge a fee that can be paid directly to the State.

STORM SEWER

22. Off-Site storm drainage easement or temporary construction easement is not required, applicant has proposed to connect to storm sewer located within an existing City of Novi easement, L13319 P126.
23. A minimum cover depth of 3 feet shall be maintained over all proposed storm sewer. Currently, a few pipe sections do not meet this standard. Grades shall be elevated, and minimum pipe slopes shall be used to maximize the cover depth. In situations where the minimum cover cannot be achieved, Class V pipe must be used with an absolute minimum cover depth of 2 feet. An explanation shall be provided where the cover depth cannot be provided.
24. Storm manholes with differences in invert elevations exceeding two feet shall contain a 2-foot-deep plunge pool.
25. Provide a four-foot-deep sump and an oil/gas separator in the last storm structure prior to discharge to the storm water basin.
26. Provide profiles for all storm sewer 12-inch and larger. All storm pipes accepting surface drainage shall be 12-inch or larger.
27. Label the 10-year HGL on the storm sewer profiles and ensure the HGL remains at least 1-foot below the rim of each structure.

28. Illustrate all pipes intersecting storm structures on the storm profiles.
29. Provide a schedule listing the casting type, rim elevation, diameter, and invert sizes/elevations for each proposed, adjusted, or modified storm structure on the utility plan. Round castings shall be provided on all catch basins except curb inlet structures.
30. Show and label all roof conductors and show where they tie into the storm sewer.
31. Provide Storm sewer basis of design table, with preliminary site plan submittal.

STORM WATER MANAGEMENT PLAN

32. The Storm Water Management Plan (SWMP) for this development shall be designed in accordance with the Storm Water Ordinance and Chapter 5 of the **Engineering Design Manual (updated Jan 31, 2024)**
33. The hydrological soil type should be used to determine the C value for the natural greenspace; engineering design manual has c values for each soil type. The C factor for soil type c is .25 not .35, updated calculations for C factor.
34. As part of the Storm Drainage Facility Maintenance Easement Agreement, provide an access easement for maintenance over the storm water detention system. Also, include an access easement to the detention area from the public road right-of-way.
35. Outlet control structure has 18 3-inch holes proposed for the outlet, but the allowable release rate is less than the actual discharge rate. The allowable peak discharge rate is 2.76 cfs, the proposed outlet with 17 3-inch holes will exceed the allowable discharge rate.
36. Provide a soil boring in the vicinity of the storm water basin to determine soil conditions and to establish the high-water elevation of the groundwater table. Note the bottom of the detention facility must be a minimum of **three (3) feet** above the groundwater elevation.

PAVING & GRADING

37. Provide a construction materials table on the Paving Plan listing the quantity and material type for each pavement cross-section being proposed.
38. Engineering does not oppose the request for waiver to have sidewalks next to the proposed roadway.
39. Provide a minimum of 6 spot elevations where the pathway crosses each driveway (one at each corner and two in the center of the driveway on each side of the pathway). Spot elevations shall be provided to demonstrate a level landing adjacent to each side of the pathway crossing.
40. Provide spot elevations at the intersection of the proposed pathway with the existing pathway.
41. Provide a note on the plan stating that the emergency access gate is to be installed and closed prior to the issuance of the first building permit in the subdivision.

42. Provide existing and proposed contours on the Grading Plan at the time of the Final Site Plan submittal.
43. Indicate curb height where parking spaces are proposed, 6-inch curb should be provided where 19-foot stalls are proposed.
44. Provide at least 3-foot buffer distance between the sidewalk and any fixed objects, including hydrants and irrigation backflow devices. Include a note on the plan where the 3-foot separation cannot be provided.
45. Site grading shall be limited to 1V:4H (25-percent), excluding landscaping berms.
46. Revise the on-site road cross-section to 1.5 inches of MDOT 5E1 on 2.5 inches of MDOT 3C on 8 inches of 21AA [limestone only if within 100 feet of a watercourse] aggregate base.
47. Sidewalk on site may have a 4" compacted class II sand base, all proposed sidewalk in the right-of-way must have 21 AA aggregate base.
48. Provide top of curb/walk and pavement/gutter grades to indicate height of curb adjacent to parking stalls or drive areas.
49. Soil borings along the proposed road will be required at 500-foot intervals per Section 11-195(d) of the Design and Construction Standards.
50. Per Section 26.5-35(c), a statement is required on any plan containing a private street with the following language: "City of Novi has no responsibility to improve or maintain the private streets contained within or private streets providing access to the property described in this [plan/plat]".

SOIL EROSION & SEDIMENT CONTROL

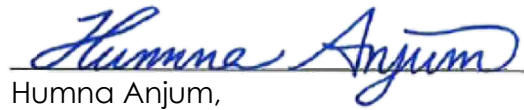
51. A SESC permit is required (link to [Soil Erosion Permit Application](#)). A review will be done when a completed packet is submitted to Sarah Marchioni at Community Development.
52. Application should be submitted at time of Final Site Plan submittal.

THE FOLLOWING MUST BE SUBMITTED WITH THE NEXT SUBMITTAL:

53. A letter from either the applicant or the applicant's engineer must be submitted with the Stamping Set highlighting the changes made to the plans addressing each of the comments listed above and indicating the revised sheets involved. **Additionally, a statement must be provided stating that all changes to the plan have been discussed in the applicant's response letter.**

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 Humna Anjum at (248) 735-5632 or email at hanjum@cityofnovi.org with any questions.



Humna Anjum,
Project Engineer

cc: Lindsay Bell, Community Development
Milad Alesmail, Engineering
Kate Purpura, Engineering
Ben Croy, City Engineer

LANDSCAPE REVIEW



PLAN REVIEW CENTER REPORT

July 3, 2025

Camelot Parc Townhomes

Revised PSLR Concept Plan - Landscaping

Review Type

Revised PSLR Concept Plan Landscape Review

Job

JSP25-0002

Property Characteristics

- Site Location: Wixom Road
- Site Acreage: 8.78 ac
- Site Zoning: R-1
- Adjacent Zoning: North: I-1 & R-1, East: I-1 & I-2, South: I-2, West: R-1
- Plan Date: 6/16/2025

Ordinance Considerations

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

Recommendations:

This project is **recommended for approval for the concept plan**. Please revise the landscaping to remove the unsupported deviations noted below. The remaining additions/corrections can be made on the revised Preliminary or Final Site Plans.

LANDSCAPE DEVIATIONS REQUIRED FOR THE PROPOSED LAYOUT:

- No berm or greenbelt landscaping is proposed north of the emergency access drive along Wixom Road – *supported by staff to preserve the existing vegetation*
- No street trees are proposed along Wixom Road north of the emergency access drive – *this would be supported by staff to preserve the existing vegetation.*
- Deficiency in wetland buffers provided – *not supported by staff unless alternative, visual protections for the wetland between the interior drive and buildings is proposed*

Ordinance Considerations

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

1. Provided
2. Please show the tree numbers on the trees to remain on the landscape plan.
3. A 25-foot wetland buffer is not provided in many cases as is required. **This requires a landscape deviation.** It would not be supported by staff unless additional protection is provided for the wetlands. Please add signage along the curbs and behind the building to protect the wetland.
4. **Please also add a line of large wetland shrubs such as chokeberry along the edge of the wetland behind and along the sides of the building with units 19-22 to provide a better buffer for the wetland.**

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

A long continuous berm on the adjacent property fulfills this requirement for the east and south boundaries.

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

1. The required berm is provided between Wixom Road and the west building but not north of the T-turnaround. **A landscape deviation for the lack of berm there is requested.** *The waiver is supported as building a berm would damage existing trees to be preserved.*
2. The required landscaping is proposed along the southern frontage. *As noted above, a deviation to not provide the required greenbelt landscaping in the preserved area north of the access drive is requested and is supported by staff.*
3. No street trees are proposed north of the emergency access drive due to a lack of space between the walk and the road, and the preservation of the existing vegetation behind the walk. **This requires a landscape deviation that is supported by staff.**

Multi-family Residential Landscaping (Zoning Sec. 5.5.3.f.iii.)

1. Multi-family Unit Trees: 66 trees are required and are provided.
2. Interior Roadway: All of the required trees are provided. Some multifamily unit trees are also along the roadway in addition to those required. This is acceptable.
3. Building Foundation Landscaping:
 - a. Greater than 35% of the frontages facing Avalon Drive is shown as being landscaped.
 - b. As the berm is heavily landscaped and screens the west side of Unit 1, foundation landscaping along that side of the unit is not required.
 - c. Additional shrubs have been added to the sides of Units 10 and 11 to improve the attractiveness of the entry to the development.

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

1. No parking lots are proposed, only parking bays along the drive.
2. Multifamily unit trees are used along the perimeter of the parking bays.

Plant List (LDM 4, 10)

1. No plant list is provided.
2. Please provide a complete plant list no later than the Final Site Plans.

Planting Notations and Details (LDM 10)

Provided

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

Required trees and shrubs are provided.

Irrigation (LDM 10)

1. Please provide plans for providing sufficient water to all plantings for their establishment and long-term survival.
2. If an irrigation system will be used, plans for it must be provided in the Final Site Plans.

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@cityofnovi.org.



LANDSCAPE REVIEW SUMMARY CHART – Revised PSLR Concept Plan

Review Date: July 2, 2025
Project Name: JSP25-0002: Camelot Parc Townhomes
Plan Date: June 16, 2025
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 before approval of the Preliminary Site Plan can be recommended. Underlined items need to be addressed on the Final Site Plans.

LANDSCAPE DEVIATIONS THAT ARE REQUIRED FOR THE PROPOSED LAYOUT:

- No berm or greenbelt landscaping is proposed north of the emergency access drive along Wixom Road – *supported by staff to preserve the existing vegetation*
- No street trees are provided along Wixom Road north of the emergency access drive – *supported by staff to preserve the existing vegetation.*
- Deficiency in wetland buffers provided – *not supported by staff unless some permanent, visible protection for the wetland is proposed*

Item	Required	Proposed	Meets Code	Comments
Landscape Plan Requirements – Basic Information (LDM (2))				
Landscape Plan (Zoning Sec 5.5.2, LDM 10)	• New commercial or residential developments • Addition to existing building greater than 25% increase in overall footage or 400 SF whichever is less. • 1"-20' minimum with proper North. Variations from this scale can be approved by LA	• Overall Scale 1" = 40' • Foundation planting scale: 1"=30'	Yes	
Owner/Developer Contact Information (LDM 10)	Name, address and telephone number of the owner and developer or association	On Title Block	Yes	
Project Information (LDM 10)	Name and Address	Location map on Sheet L-1	Yes	
Survey information (LDM 10)	Legal description or boundary line survey	Survey and description on Sheet 2	Yes	
Landscape Architect contact information (LDM 10)	Name, Address and telephone number of RLA/PLA/LLA who created the plan	Jim Allen – Allen Design	Yes	
Sealed by LA. (LDM 10)	Requires original signature	Copy of seal and signature	Yes	
Miss Dig Note (800)482-7171	Show on all plan sheets	On Title Block	Yes	

Item	Required	Proposed	Meets Code	Comments
(LDM10)				
EXISTING CONDITIONS				
Existing plant material Existing woodlands or wetlands (LDM 10.h)	• Show location type and size. • Label to be saved or removed. • Plan shall state if none exists.	• Existing Trees are shown on Sheets 1 and 2 • Tree Chart on Sheet 10 • Removals are indicated on the chart and the Removals Plan • Replacement credits required are shown on Chart but that figure (43) doesn't agree with what is shown on L-1 (59) • No woodland replacement trees will be planted on the site. • Wetlands on site are delineated, mitigation is required and shown on Sheet 7.	• Yes • Yes • Yes • No • Yes • Yes	1. See the Mannik & Smith & DRG letters for complete reviews of woodlands and wetlands 2. The lack of a 25-foot wetland buffer between the interior drive/parking and Units 19-22 requires a deviation. This is especially concerning along the drive where road salt could negatively impact the wetland. <i>It would not be supported by staff as currently shown.</i> 3. See below for suggestions on how to improve the situation.
Natural Features protection		The plans do not show silt fencing or other protection for the wetlands.		1. <u>Please add protective fencing for the wetlands to the removal plans.</u> 2. <u>Please add signs such as the example shown below to protect the wetlands from encroachment and unsupported activities. They should be placed every 100 feet behind the curbs and building.</u> 3. <u>Please plant a border of large wetland shrubs such as chokeberry along the edge of the wetland as a buffer between the building and the</u>

Item	Required	Proposed	Meets Code	Comments
				wetland. 4. Please use a native seed mix on the slopes between the curb and wetland.
Soil type (LDM 10)	As determined by Soils survey of Oakland county	Soils Legend is on Sheet 2 but not soils boundaries	No	Please add soils boundaries and symbols to Sheet 2.
Zoning (LDM 10)	Site: R-1 Proposed: PSLR North: I-1 & R-1, East: I-1 & I-2, South: I-2, West: R-1	Zoning is shown on the Location Map on Sheet L-1	Yes	
PROPOSED IMPROVEMENTS (LDM 10)				
Existing and proposed improvements	Existing and proposed buildings, easements, parking spaces, vehicular use areas, and R.O.W	- All site elements are shown on L-1. - Dimensions on Sheet 4	Yes	
Existing and proposed utilities	- Overhead and underground utilities, including hydrants - Proposed light posts	- Proposed utilities are shown on the Landscape Plan and sufficient spacing between trees and utility lines and structures appears to be provided. - Proposed light posts are shown - Notes regarding spacing are provided on Sheet L-1	- Yes - Yes - Yes	
Proposed topography - 2' contour minimum	Provide proposed contours at 2' interval	Sheet 6	Yes	
Clear Zones	25 ft. corner clearance required. Refer to Zoning Sec 5.5.9	Yes	No	Please move the clear vision zone for the Stonebrook Drive entrance back per the illustration below (it should be at the ROW line, not the back of curb.
LANDSCAPING REQUIREMENTS				
Berms and ROW Planting				
- 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 with 6" of topsoil.				
Residential Adjacent to Non-residential (Sec 5.5.3.A) & (LDM 1.a)				

Item	Required	Proposed	Meets Code	Comments
Berm requirements (Zoning Sec 5.5.3.A)	<u>Special land use adjacent to residential requires:</u> 4.5-6 foot tall landscaped berm with 6 foot wide crest. - Opacity 80% winter, 90% summer.	A long continuous berm existing on the adjacent property fulfills this requirement for the east and south boundaries.	Yes	
Planting requirements (LDM 1.a.)	LDM Novi Street Tree List	Sufficient existing trees are on the entire berm	Yes	
Adjacent to Public Rights-of-Way (Sec 5.5.3.B) and (LDM 1.b) (RM-1)				
Greenbelt width	- Adj to parking: 20 ft - Not adj to pkg: 34 ft	- Wixom Rd: 50 ft - Stonebrook Dr: 55 ft	Yes	
Min. berm crest width	4 ft	- Wixom Rd: 2 ft - Stonebrook Dr: 3-10 ft – the existing berm is being preserved	Yes	- No berm is provided north of the emergency access drive. This requires a deviation. - As adding the berm would require the removal of trees and there are no buildings or paving proposed in that area, the deviation would be supported by staff.
Min. berm height	3 ft	- Wixom Rd: 4 ft - Stonebrook Dr: 3-10 ft	Yes	See above
3' wall	(4)(7)	Only a sign wall is proposed – no retaining walls		
Canopy deciduous or large evergreen trees (7)(10)(11)	1 tree per 35 lf <u>Wixom Road</u> 148lf/35 = 4 trees <u>Stonebrook Drive</u> 683lf/35 = 19 trees Deviation to not plant greenbelt trees north of the emergency access lane is requested.	<u>Wixom Road</u> 4 canopy trees and <u>Stonebrook Drive</u> 55 existing trees	- Yes - Yes	A deviation is requested to not add any trees north of the emergency access (223lf) to preserve the existing vegetation. This deviation is supported by staff.
Sub-canopy deciduous trees Notes (5)(6)(10)(11)	1 tree per 20 lf <u>Wixom Road</u> 148lf /20 = 7 trees <u>Stonebrook Drive</u> 683/20 = 34 trees	<u>Wixom Road</u> 6 trees <u>Stonebrook Drive</u> 34 trees	- No - Yes	- See above discussion - Please correct the calculation per the ordinance requirement (1 tree

Item	Required	Proposed	Meets Code	Comments
				per 20lf, not 25lf) and add the extra subcanopy tree.
Canopy deciduous trees in area between sidewalk and curb (10)	1 tree per 35 lf <u>Wixom Road</u> (390-28)lf /35 = 10 trees <u>Stonebrook Drive</u> Not necessary – the street is not on Avalon Park property	<u>Wixom Road</u> 4 trees south of the access drive <u>Stonebrook Drive</u> Existing street trees are shown	- No - Yes	1. There is no room for street trees north of the emergency access drive between the sidewalk and the road, and the existing vegetation is being preserved in that area behind the sidewalk. 2. A landscape deviation for the lack of trees in this area would also be supported by staff to preserve the existing vegetation.
Multi-Family Residential (Sec 5.5.3.F.iii)				
Multi-family Unit Landscaping (Zoning Sec 5.5.3.F.iii.b)	3 deciduous canopy trees or large evergreen trees per dwelling unit on the first floor. 22 units * 3 = 66 trees - Up to 25% of requirement can be subcanopy trees	66 trees 12 of those are shown along the interior drive in addition to the required trees - No species are called out but are not required at this time.	- Yes - Yes - TBD	
Interior Street Landscaping (Zoning Sec 5.5.3.F.iii.b)	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. - Avalon Drive: (1290-240)/35 = 30 trees - Camelot Drive: (120*2)/35 = 7 trees	- Avalon Drive: 29 trees - Camelot Drive: 8 trees	Yes	
Foundation Landscaping (Zoning Sec 5.5.3.F.iii.b)	35% of building façades facing road must be landscaped	- Conceptual plans for the buildings are provided. - The required percentage of landscaping	- Yes - Yes	Plantings for all three buildings need to be included in the plant lists and cost estimates.

Item	Required	Proposed	Meets Code	Comments
		facing roads is exceeded for all building types.		
Parking Area Landscape Requirements (Zoning Sec 5.5.3.C & LDM 5)				
General requirements	• Clear sight distance within parking islands • No evergreen trees	No blocking plantings are proposed.	Yes	
Name, type and number of ground cover	As proposed on planting islands	No groundcovers are indicated for the site	TBD	<u>Please indicate what groundcover(s) will be used on the Final Site Plans.</u>
Parking lot Islands (Zoning Sec 5.5.3.c.ii, iii)	• A minimum of 200 SF to qualify • 200sf landscape space per tree planted in island. • 6" curbs • Islands minimum width 10' BOC to BOC	No parking lot islands are proposed	NA	
Curbs and Parking stall reduction (Zoning Sec 5.5.3.c.ii)	Parking stall can be reduced to 17' with 4" curb adjacent to a sidewalk of minimum 7 ft.	Parking spaces are 19' long with abutting 5' wide sidewalks.	Yes	
Contiguous space limit (Zoning Sec 5.5.3.c.ii.o))	Maximum of 15 contiguous spaces	No bay is longer than 11 spaces	Yes	
Category 1: For OS-1, OS-2, OSC, OST, B-1, B-2, B-3, 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 areas x 7.5%	$A = x \text{ SF} \times 7.5\% = A \text{ sf}$	NA		
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		
All Categories				
Total square footage of landscaped islands	$C = A + B$	NA		
Number of canopy trees required	$D = C/200$	NA		
Parking Lot Perimeter Trees (Zoning Sec 5.5.3.c.ii)	• 1 Canopy tree per 35 lf Trees must be within 15 feet of the parking lot edge to count as a perimeter tree.	NA		As noted above, since the parking bays are aligned along just one side of the drive, interior drive trees for that stretch of road can be used along the edge of

Item	Required	Proposed	Meets Code	Comments
	Greenbelt canopy trees within 15 feet of the parking lot edge may be double-counted as parking lot perimeter trees.			the parking bays.
Accessway Perimeter Trees (Zoning Sec 5.5.3.C.i.i.j.)	1 Canopy tree per 35 lf	NA		There are no accessway perimeter drives in this project
Parking land banked	NA	None		
Miscellaneous Landscaping Requirements				
Plantings around Fire Hydrant (Zoning Sec 5.5.3.C.ii.j, LDM Secs 2,7)	- No plantings with matured height greater than 12' within 10 ft. of fire hydrants, manholes, catch basins or other utility structures. - Trees should not be planted within 5 feet of underground lines.	Sufficient spacing appears to have been given between trees and utility lines and structures.	Yes	
Landscaped area (g)	Areas not dedicated to parking use or driveways exceeding 100 sq. ft. shall be landscaped	Not indicated	TBD	
Name, type and number of ground cover (LDM 5)	As proposed on planting islands	No groundcovers are indicated except for around the detention pond	TBD	<u>Please indicate all groundcovers to be used.</u>
Snow deposit (LDM 10)	Show leave snow deposit areas on plan in locations where landscaping won't be damaged	None are proposed	TBD	<u>Please indicate snow deposit areas</u>
Transformers/Utility boxes (LDM 6)	- A minimum of 2 ft. separation between box and the plants - Ground cover below 4" is allowed up to pad. - No plant materials within 8 ft. from the doors	No transformers are shown	TBD	1. <u>Please show transformers and other utility boxes when their locations are determined.</u> 2. <u>Please add an allowance of 10 shrubs per box on the plant list and label as such</u>
Detention/Retention Basin Planting requirements (Sec. 5.5.3.e, LDM 3)	- Clusters of large native shrubs shall cover 70-75% of the basin rim area at 10 ft away from the permanent water line. - Canopy trees must be	- A seed mix is proposed for the detention pond - Shrub coverage meets the requirement - Canopy trees are	- Yes - Yes - Yes	1. <u>Please show the permanent water level of the pond too – no seed is required where it will be water, but the native mix should also be</u>

Item	Required	Proposed	Meets Code	Comments
	located at 1 per 35lf of the pond rim 10 feet away from the permanent water level • 10" to 14" tall grass along sides of basin • Refer to wetland for basin mix • Include seed mix details on landscape plan	proposed along the east, south and west sides of the pond – multifamily unit trees are used		<u>planted in the 25 foot buffer around the pond.</u> 2. <u>Please add the seed mix to the cost estimate.</u> 3. <u>Please add complete establishment and maintenance instructions for the native seed mixes (should be available from seed suppliers) – what is provided is not sufficient.</u> 4. <u>Please add a seed mix for the disturbed areas around the pond.</u>
Phragmites and Japanese Knotweed Control (Zoning Sec 6.B)	All populations of Phragmites and/or Japanese Knotweed shall be eliminated from the site	• Phragmites populations are shown on Sheet 3 along with removal instructions. • No Japanese Knotweed was found.	Yes	
Landscape Notes and Details– Utilize City of Novi Standard Notes				
Plant List (LDM 4,11) – Include all cost estimates				
Quantities and sizes		No plant list is provided	Yes	<u>Please add a plant list no later than the Final Site Plans.</u>
Root type		No plant list is provided		<u>See above</u>
Botanical and common names	• At least 50% of plant species used, not including seed mixes or woodland replacement trees, must be species native to Michigan. • The non-woodland replacement tree diversity must meet the standards of the Landscape Design Manual section 4.	No plant list is provided		<u>See above</u>
Type and amount of lawn		No groundcovers are indicated	TBD	<u>Please clearly show what groundcovers will</u>

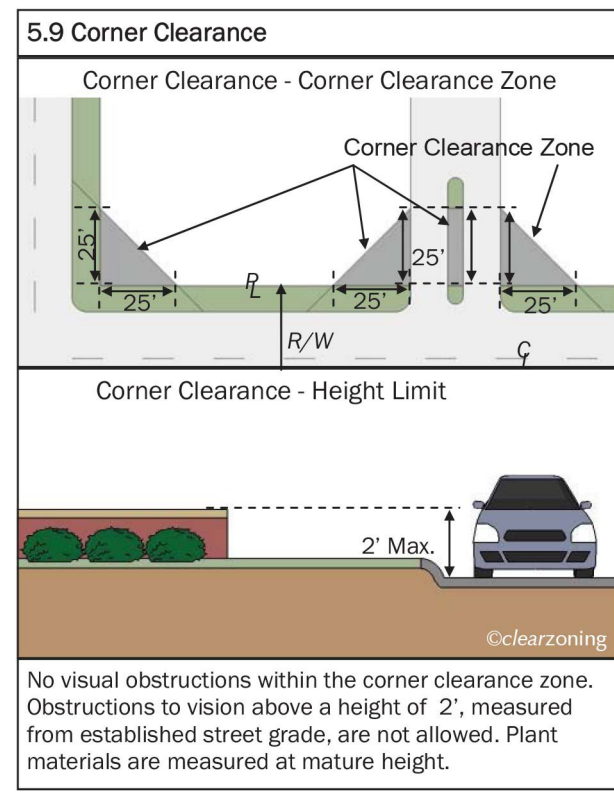
Item	Required	Proposed	Meets Code	Comments
				<u>be used.</u>
Cost estimate (LDM 10.h.(11))	For all new plantings, mulch and sod as listed on the plan	No		<u>Please add the cost estimate to the Final Site Plans.</u>
Planting Details/Info (LDM Part III) – Utilize City of Novi Standard Details				
Canopy Deciduous Tree	Refer to LDM for detail drawings	Yes	Yes	
Evergreen Tree		Yes	Yes	
Shrub		Yes	Yes	
Multi-stem tree		Yes	Yes	
Perennial/ Ground Cover		Yes	Yes	
Tree stakes and guys	Wood stakes, fabric guys.	Yes	Yes	
Cross-Section of Berms (LDM 1.a.(1))				
Slope, height and width	• Label contour lines • Maximum 33% slope • Constructed of loam • 6" top layer of topsoil	Yes	Yes	
Type of Ground Cover		Lawn is indicated	Yes	
Setbacks from Utilities	Overhead utility lines and 15 ft. setback from edge of utility or 20 ft. setback from closest pole, 10 feet from structures, hydrants	No	No	1. <u>Show all nearby utilities on detail</u> 2. <u>Space all trees appropriately from utility lines, poles and utility structures</u>
Walls (LDM 10 & 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	No retaining walls are proposed – only the sign wall		
Walls greater than 3 ½ ft. should be designed and sealed by an Engineer				
Notes (LDM 10) – Utilize City of Novi Standard Details				
Installation date (LDM 2.i. & Zoning Sec 5.5.5.B)	• Provide intended date • Between Mar 15 – Nov 15	Between Mar 15 – Nov 15	Yes	
Maintenance & Statement of intent (LDM 2.m & Zoning Sec 5.5.6)	• Include statement of intent to install and guarantee all materials for 2 years. • Include a minimum one cultivation in June, July and August	Yes	Yes	

Item	Required	Proposed	Meets Code	Comments
	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	
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	
General Landscape Requirements (LDM)				
General Conditions (LDM 11)	Plant materials shall not be planted within 4 ft. of property line	Yes	Yes	
Irrigation (LDM 10.I.)	A fully automatic irrigation system and a method of draining or an alternative means of providing water sufficient for the plants' establishment and long-term survival is required on the Final Site Plan	- A note indicates that an irrigation system will be provided. - Notes regarding the requirements for the system have also been added	Yes	<u>Please add irrigation plan or information as to how plants will be watered sufficiently for establishment and long- term survival.</u> <u>An irrigation system should meet the requirements listed below.</u> <u>If xeriscaping is used, please provide information about plantings included.</u>
Other information (LDM 10.n)	Required by Planning Commission	NA		
Landscape tree credit (LDM11.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 11.b)	- Canopy Deciduous shall be 3" and sub-canopy deciduous shall be 2.5" caliper. - Refer to LDM section 11.b for more details	No		<u>Include on the plant list</u>
Plant size credit (LDM11.b)	NA	None taken		
Prohibited Plants (LDM 11.b)	Do not use any plants on the Prohibited	None are proposed	Yes	

Item	Required	Proposed	Meets Code	Comments
	Species List			
Recommended trees for planting under overhead utilities (LDM 3.e)	Label the distance from the overhead utilities	An overhead line exists along Wixom Road	TBD	The proposed canopy street trees appear to be under the overhead lines. Please check this and use subcanopy trees if necessary, and if there is room for them.
Collected or Transplanted trees (LDM 11.b.(2)(c))		None		
Nonliving Durable Material: Mulch (LDM 12)	- Trees shall be mulched to 3" depth and shrubs, groundcovers to 2" depth - Specify natural color, finely shredded hardwood bark mulch.	In details	Yes	

NOTES:

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



Irrigation System Requirements

1. Any booster pump installed to connect the project's irrigation system to an existing irrigation system must be downstream of the RPZ.
2. The RPZ must be installed in accordance with the 2015 Michigan Plumbing Code.
3. The RPZ must be installed in accordance with the manufacture installation instructions for winterization that includes drain ports and blowout ports.
4. The RPZ must be installed a minimum of 12-inches above FINISHED grade.
5. Attached is a handout that addresses winterization installation requirements to assist with this.
6. A plumbing permit is required.
7. The assembly must be tested after installation with results recorded on the City of Novi test report form.



Text would not include "Mitigation Bank" and possibly not MDEQ

WOODLAND & WETLAND REVIEW

July 10, 2025

Lindsay Bell
Planner – Community Development
City of Novi
45175 Ten Mile Road
Novi, MI 48375

Submitted electronically to lbell@cityofnovi.org

Re: Camelot Parc Townhomes Preliminary Site Plan Woodland and Wetland Review (JSP25-02)

Dear Lindsay,

Merjent, Inc. (Merjent) has conducted a review of the revised preliminary site plan (rPSP) for the Camelot Parc Townhomes (Project), prepared by Atwell (Applicant; rev. date 1/24/2025). The landscape portion of the site plan was prepared by Allen Design and is dated 1/24/2025. Merjent reviewed the plan for conformance with the City of Novi's (City) Woodland Protection Ordinance, Chapter 37, and Wetlands and Watercourse Protection Ordinance, Chapter 12 Article V. The Project is located at the northeast corner of the intersection of Wixom Road and Stonebrook Drive (parcel 50-22-17-300-019) in Section 17 of the City of Novi (site). The site contains City-regulated woodlands (**Figure 1**) and City-regulated wetlands (**Figure 2**).

Merjent is aware that this site has had previous reviews in 2021 and 2022 related to City Job Numbers JSP22-01 and PWT21-02 for the Avalon Park Townhomes. These previous reviews were evaluated in conjunction with writing this PSP Review. The previous reviews were conducted by the Mannik and Smith Group (MSG) and the Davey Resource Group (DRG).

Merjent submitted a woodland and wetland review on March 5, 2025 and found deficiencies in both the woodland and wetland submittals of the PSP.

Woodlands

Woodland Recommendation: Merjent **recommends approval** of the Camelot Parc Townhomes rPSP with the **condition to implement the requested edits**. Additional Woodland Review comments have been provided to meet the requirements of the Woodland Protection Ordinance. The following Woodland Regulations apply to this site:

Woodland Regulation	Required
Woodland Permit (Chapter 37, Section 37-26)	YES
Tree Replacement (Chapter 37, Section 37-8)	YES
Tree Protection (Fence; Chapter 37, Section 37-9)	YES
Woodland Conservation Easement (Chapter 37-30[e])	YES

*See clarification request comments

Woodland Review Comments

1. City-regulated woodlands, as identified on the City of Novi Woodlands interactive map website, are not noted as being present onsite. However, Merjent reviewed the JSP22-01 Woodland Review performed by DRG and concurs with DRG's establishment of regulated woodlands on-site. Note that both the woodlands and property limits depicted on the City map are considered approximations (**Figure 1**). Select photos from the site visit is included in **Attachment A**.
2. Pursuant to Chapter 37, Section 37-28, an accurate woodland survey should be provided and be accompanied by a separate key identifying the location of all trees eight inches at diameter at breast height (DBH) and greater, by size, common, genus and species names (i.e. Red Maple/*Acer rubrum*), and condition. Such information shall be provided by a registered landscape architect, certified arborist, or registered forester, through an onsite inspection, who must verify the contents by seal and/or registration number with signature, whichever applies. The dripline of affected trees shall be clearly indicated on the plan.
 - An updated tree survey was conducted on April 18, 2025 and updated DBH's have been provided on Sheet 10.
3. When a proposed site plan is located within a regulated woodland, any tree proposed for removal with a diameter at breast height (DBH) greater than or equal to eight inches will require tree replacement and a Woodland Use Permit per Section 37-8. This also applies to any tree that will be preserved, but where impacts to critical root zones are proposed.
4. Regardless of the presence of regulated woodlands onsite, a Woodland Use Permit is required to perform construction on any site containing the removal of trees larger than 36 inches DBH.
 - No trees larger than 36 inches DBH are proposed for removal outside of regulated woodlands.
5. The plan has proposed the removal of 20 regulated trees. A **Woodland Use Permit** is required to perform construction on any site containing regulated woodlands. A **Woodland Use Permit** is required for this project and because more than three trees are proposed for removal, Planning Commission approval is required for this Project.
6. **Woodland Replacement.** Based on a review of the plan, the following woodland replacements are currently required:

Tree Size (DBH, inches)	Number of Trees	Ratio Replacement/Removed Tree	Total Replacements Required
8-11	7	1	7
12-20	6	2	12
21-29	4	3	12
30+	3	4	12
Multi-stem	0	Sum of Stem DBH/8 (rounded up)*	0
Total	20	-	43

- The applicant has listed the number of replacements required on Sheet 10.

-
- **Requested clarification:** Either a separate sheet or details should be added to Sheet 3 showing the final development plans in conjunction with trees that will remain on-site. Based on Davey Resource Group's January 10, 2023 review, trees such as Tree 9688 are within the regulated woodland. Based on the location of the woodland fence (see Comment 9), it is assumed the critical root zone of this and other trees will be impacted and should be reflected in the count of trees to be impacted even if they remain. Therefore, tree replacement calculations should be updated to reflect impacts to the critical root zone of regulated woodland trees.
7. A replacement plan and cost estimate for the tree replacement will be necessary prior to final site plan approval by the City. Woodland replacement credits can be provided by:
- a. Planting the woodland tree replacement credits on-site.
 - i. For tree replacement credits that will be planted on-site, a financial guarantee of \$400/tree replacement credit is required to ensure the planting of the on-site woodland replacement credits. The financial guarantee would be released after trees have been planted and approved by the City of Novi. The financial guarantee will be released after trees have been planted and approved by the City of Novi, and applicants must request a tree planting inspection.
 - ii. Woodland replacements shall be guaranteed for two growing seasons after the applicant's installation and the City's acceptance. A two-year maintenance bond in the amount of 25% of the value of the trees, but in no case less than \$1,000, shall be required to ensure the continued health of the trees following acceptance.
 - b. Payment to the City of Novi Tree Fund at a non-refundable rate of \$400/woodland replacement credit.
 - c. Combination of on-site tree planting and payment into the City of Novi Tree Fund (\$400/woodland replacement credit).
- The applicant has stated on Sheet L-1 that all trees will be replaced via a non-refundable payment into the City of Novi Tree Fund. The applicant should list on the site plan (where appropriate) that **all 43 replacement trees will be paid into the City of Novi Tree Fund via a non-refundable payment of \$17,200 (43 x \$400).**
 - o **Requested Edit:** Sheet L-1 should be updated to reflect the number of replacements listed on Sheet 10. Note that not all removals of trees on-site are of regulated trees.
8. **Critical root zone.** Accurate critical root zones must be depicted on the site plan for all regulated trees within 50 feet of the proposed grading or construction activities. Section 37-2 defines a critical root zone as a circular area around a tree with a radius measured to the tree's longest dripline radius plus one foot.
- See Comment 6 for information on clarification of critical root zone impacts.
 - Proposed developments should be displayed in conjunction with trees to remain.
9. A **woodland fence guarantee of \$6,000** (\$5,000 x 120%) is required per Chapter 26.5-37. The financial guarantee shall be paid prior to tree removal. The woodland fence inspection will be performed by Merjent. **The Applicant is responsible for requesting this inspection.**
- **Requested edit:** the proposed five-foot wide gravel path within the woodland area does meet exception (5) under Section 37-27 for not requiring a woodland permit:

- *Facilitation of passive outdoor recreation activities, such as the utilization of unpaved trails or woodlands for nature study, hiking, horseback riding, trapping and hunting as otherwise legally permitted and regulated and only to the extent necessary to undertake such activities. The exception for outdoor recreation shall include the development of land for nonmotorized recreational uses.*
 - It is requested that tree protection fence be added around and within the five-foot gravel path to the maximum extent practicable to ensure trees will not be accidentally impacted by light machinery when delivering and placing the gravel for the proposed path. Additionally, the footprint of the proposed path should be displayed in conjunction with the trees to remain post-development.
10. The Applicant may be required to provide preservation/conservation easements as directed by the City of Novi Community Development Department for any areas of remaining woodlands. The applicant may be required to demonstrate that all remaining woodland trees will be guaranteed to be preserved 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. Any associated easement boundaries shall be indicated on the Plan.

Wetlands

Wetland Recommendation: Merjent **recommends approval** of the Camelot Parc Townhomes rPSP based on the comments provided below with **conditions to implement the requested edits**.

Upon review of published resources, the Site appears to contain or immediately borders:

- ☒ City-regulated wetlands, as identified on the City of Novi interactive map website. Note that both wetland and property limits depicted on the City's map are considered approximations (**Figure 2**).
- ☒ Wetlands that are regulated by the Michigan Department of Environment, Great Lakes, and Energy (EGLE).
- ☒ Wetlands as identified on National Wetland Inventory (NWI) and Michigan Resource Inventory System (MIRIS) maps, as identified on the EGLE Wetlands Viewer interactive map website (provided in previous review). NWI and MIRIS wetlands are identified by the associated governmental bodies' interpretation of topographic data and aerial photographs.
- ☒ Hydric (wetland) soil as mapped by the U.S. Department of Agriculture, Natural Resources Conservation Service, as identified on the EGLE Wetlands Viewer interactive map website (provided in previous review).

Permits and Regulatory Status

Due to the comments below, the following wetland-related items will be required for this project:

Item	Required/Not Required
Wetland Permit (specify Non-minor or Minor)	Required, non-minor
Wetland Mitigation	Required
Environmental Enhancement Plan	Required
Wetland Buffer Authorization	Required

Item	Required/Not Required
EGLE Wetland Permit	Likely Required*
Wetland Conservation Easement	Required

*EGLE is the final authority over wetlands and water resources in the State of Michigan.

Wetland Review Comments

1. An updated Wetland Delineation was conducted on April 30, 2025 showing expanded wetland areas that more accurately reflect the conditions on-site. Select photos from Merjent's July 1, 2025 site visit are provided in **Attachment A**.

2. As currently proposed, the rPSP lists the following fills/impacts to wetlands on-site:

Impact	Amount
Forested Permanent	4,483 sq. ft. (0.10 acre) 170 cu. yd.
Non-forested Permanent	11,612 sq. ft. (0.27 acre) 263 cu. yd.
Non-forested Temporary	2,417 sq. ft. (0.06 acre)
Total Permanent	16,095 sq. ft. (0.37 acre) 433 cu. yd.

- **Requested edit:** the wetland type (classification) should be added to the table on Sheet 7. An update to the previous wetland delineation may affect the impact amounts listed above.
3. Section 12-176 states that mitigation will be provided onsite where practical and beneficial to the wetland resources. When a project permanently impacts 0.25 acre or more of essential wetland, the City of Novi requires mitigation at a ratio of 2:1 for forested wetlands and 1.5:1 for emergent and scrub-shrub wetlands.
 - a. The applicant has stated that they will provide 0.61 acre of wetland mitigation on-site.
 - b. The performance standards for mitigation sites in the City of Novi are included as **Attachment B**.
 - c. **Requested edit:** the applicant will be impacting 4,483 square feet of forested wetland. It is requested that at least 8,966 square feet (0.21 acre) of the proposed mitigation on-site be a forested wetland and meet the performance standards in **Attachment B**.
 - d. For final site plan approval, the applicant will need to provide all required criteria stated in Section 12-176 in the final site plan or appended to the final site plan review submission.
 4. EGLE is the final authority of the location and regulatory status of state-regulated wetlands in Michigan. Due to the connectivity of the wetland(s) on-site to other water resources, it is likely that the wetland on-site are EGLE-regulated in addition to being City-regulated. A City wetland use permit cannot be granted until either an EGLE Permit is obtained or official documentation from EGLE is received that states an EGLE Permit is not required for the proposed project.
 5. In addition to wetlands, the City of Novi regulates wetland and watercourse buffers/setbacks. Article 3.0 (Section 3.6 [M]) of the Zoning Ordinance states: "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

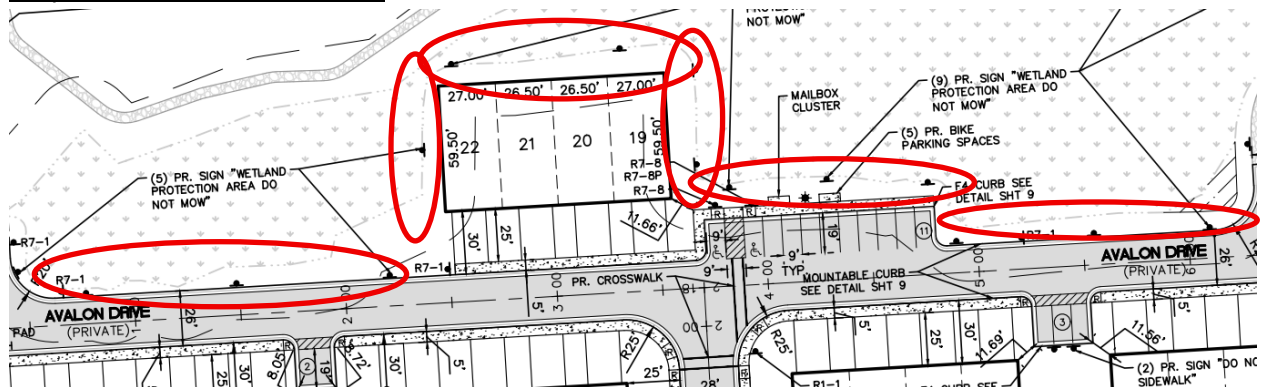
- The 25-foot setback buffer is identified on the PSP.
- Buffer impacts are identified on the PSP and are summarized below.

Impact	Amount
Forested Buffer	8,198 sq. ft. (0.19 acre)
Non-forested Buffer	23,060 sq. ft. (0.53 acre)
Total Buffer Impact	31,258 sq. ft. (0.72 acre)

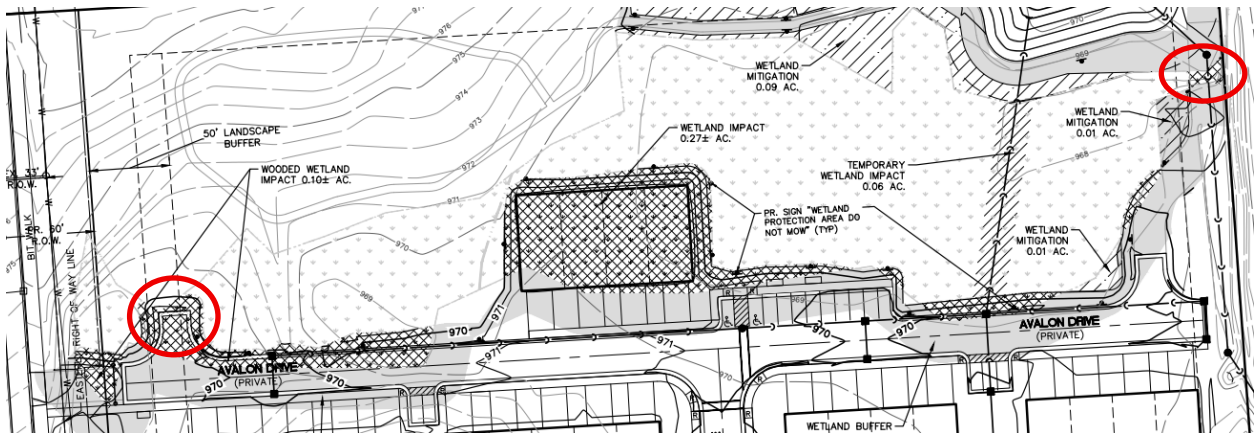
Due to the extensive proposed loss of wetland buffer along the southern remaining wetland area, it is requested that the applicant perform environmental enhancement along the southern portion of the remaining wetland (see screenshot below). The applicant should plant at least three different species of wetland rated shrubs throughout the southern boundary of the wetland. This will allow a small separation from the wetland and the proposed development. Additionally, it will deter any accidental mowing of the wetlands and remaining buffer areas. Shrubs could include three of the following species:

- Buttonbush (*Cephalanthus occidentalis*)
- Swamp Rose (*Rosa palustris*)
- Winterberry Holly (*Ilex verticillata*)
- Silky Dogwood (*Cornus amomum*)
- Northern Spicebush (*Lindera benzoin*)
- Red-osier Dogwood (*Cornus sericea* or *C. stolonifera*)
- Black Chokeberry (*Aronia melanocarpa*)
- Meadowsweet (*Spiraea alba*)
- Common Elderberry (*Sambucus canadensis*)

Requested Placement locations



6. Portions of the wetland may become disconnected by the placement of fill throughout the site. It is requested that wetland equalizer culverts or similar structures be placed beneath roads that allow the wetlands on-site to remain connected. Specifically in the locations circled below.



7. The cost to perform any wetland protection and restoration shall be listed on the site plan, per Chapter 26.5, Section 26.5-7 (b) of the City of Novi Code of Ordinances. A **Wetland Financial Performance Guarantee** in the amount of 120% of the cost to perform any wetland protection, restoration, and development will be collected prior to the granting of a Wetland Use Permit.
8. The Applicant is encouraged to provide wetland conservation easements for any areas of remaining wetland and 25-foot wetland buffer. The Applicant shall provide wetland conservation easements as directed by the City of Novi Community Development Department for any areas of proposed wetland mitigation areas (if necessary). 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 Wetland Use Permit.

Should you have any questions or concerns with this review, please contact me via email at jason.demoss@merjent.com or via phone at (619) 944-3835.

Sincerely,

Merjent, Inc.

Jason DeMoss, PWS
Environmental Consultant

Enclosures:

- Figure 1 – City of Novi Woodlands Map
Figure 2 – City of Novi Wetlands Map
Attachment A – Site Photos
Attachment B – City of Novi Wetland Mitigation Performance Standards

CC:

Barb McBeth, City of Novi, bmcbeth@cityofnovi.org

Rick Meader, City of Novi, rmeader@cityofnovi.org

Stacey Choi, City of Novi, schoi@cityofnovi.org

Matt Pudlo, Merjent, matt.pudlo@merjent.com



Figure 1. City of Novi Regulated Woodlands Map

Approximate Site boundary is shown in red.

Approximate Regulated Woodland areas are shown in green.

DRG established additional regulated woodlands in orange (within site boundary).



Figure 2. City of Novi Regulated Wetlands Map
 Approximate Site boundary is shown in Red.
 Approximate Regulated Wetland areas are shown in blue.

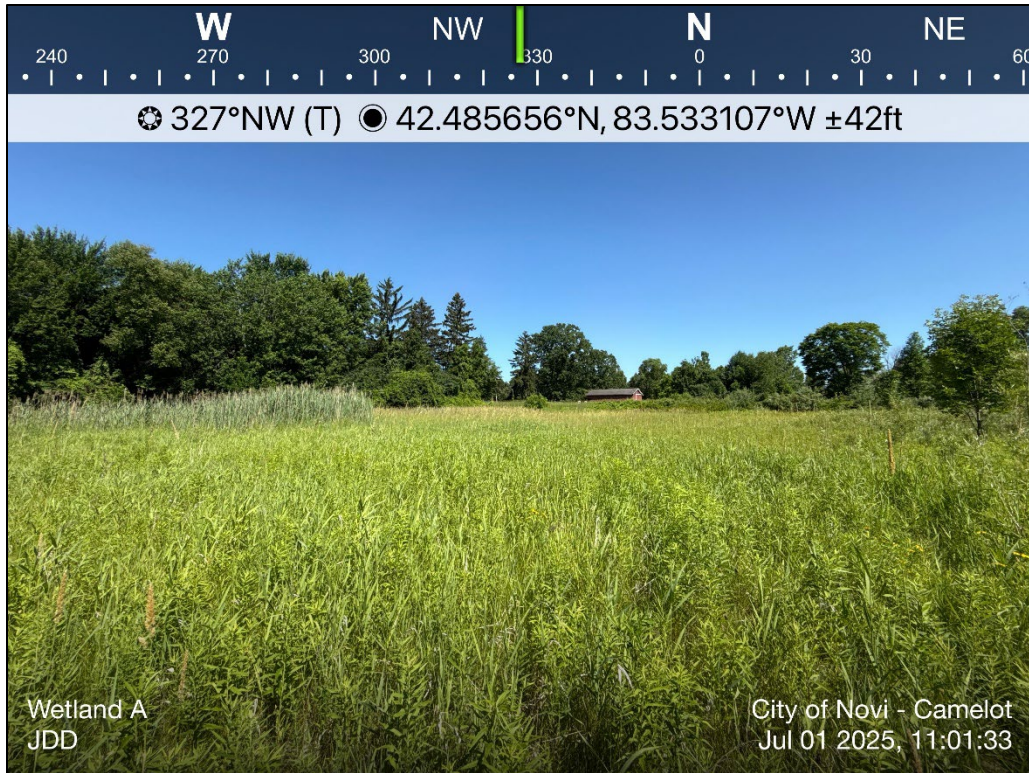
Attachment A
Site Photographs



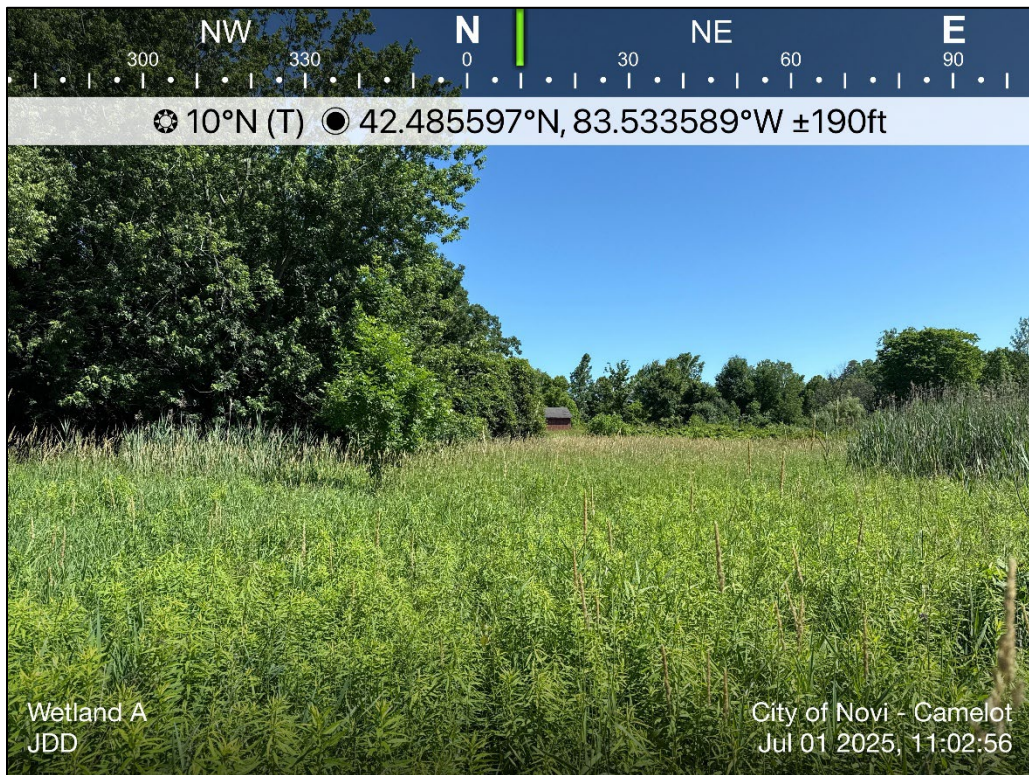
Typical flagging seen on-site



New tree tagging for trees not previously tagged



Overview of Wetland A on-site



Overview of Wetland A on-site



Overview of forested portion of Wetland A on-site

Attachment B
City of Novi Wetland Mitigation Performance Standards

City of Novi Mitigation Performance Standards

August 2024

- a. Construction has been completed in accordance with the City of Novi's approved plans and specifications included in the permit and mitigation plan (and associated approved site plan).
- b. The mitigation wetland is characterized by the presence of water at a frequency and duration sufficient to support a predominance of wetland vegetation and the wetland types specified at the end of the monitoring period. The monitoring period will follow the U.S. Army Corps of Engineers definition of the growing season as stated in the 1987 *Wetland Delineation Manual*:
 - i. "The portion of the year when soil temperatures at 19.7 inches (50 cm) below the soil surface are higher than biological zero (5°C [41°F]). For ease of determination, this period can be approximated by the number of frost-free days."
 - ii. "Estimating starting and ending dates for the growing season are based on 28°F (-2.2°C) air temperature thresholds at a frequency of five years in 10."
- c. A layer of high-quality topsoil, from the A horizon of an organic or loamy surface texture soil, is placed (or exists) over the entire wetland mitigation area at a minimum thickness of six inches.
- d. The mitigation wetland shall be free of oil, grease, debris, and all other contaminants.
- e. A minimum of six wildlife habitat structures, consisting of at least three types, have been placed per acre of mitigation wetland. At least 50 percent of each structure shall extend above the normal water level. The types of acceptable wildlife habitat structures are:
 - i. Tree stumps laid horizontally within the wetland area. Acceptable stumps shall be a minimum of six feet long (log and root ball combined) and 12 inches in diameter.
 - ii. Logs laid horizontally within the wetland area. Acceptable logs shall be a minimum of 10 feet long and six inches in diameter.
 - iii. Whole trees laid horizontally within the wetland area. Acceptable whole trees shall have all of their fine structure left intact (i.e., not trimmed down to major branches for installation), be a minimum of 20 feet long (tree and root ball), and a minimum of 12 inches in diameter.
 - iv. Snags which include whole trees left standing that are dead or dying, or live trees that will be flooded and die, or whole trees installed upright into the wetland. A variety of tree species should be used for the creation of snag habitat. Acceptable snags shall be a minimum of 20 feet tall (above the ground surface) and a minimum of 12 inches in diameter at breast height. Snags should be grouped together to provide mutual functional support as nesting, feeding, and perching sites.
 - v. Sand mounds at least 18 inches in depth and placed so that they are surrounded by a minimum of 30 feet of water measuring at least 18 inches in depth. The sand mound shall have at least a 200 square foot area that is 18 inches above the projected high-water level and oriented to receive maximum sunlight.
- f. The mean percent cover of native wetland species in the herbaceous layer at the end of the monitoring period is not less than:
 - i. 60 percent for emergent wetland.
 - ii. 80 percent for scrub-shrub wetland.

- iii. 80 percent for forested wetland.
- g. Extensive areas of open water and submergent vegetation areas having no emergent and/or rooted floating vegetation shall not exceed 20 percent of the mitigation wetland area. Extensive areas of bare soil shall not exceed five percent of the mitigation wetland area. For the purposes of these performance standards, extensive refers to areas greater than 0.01 acre (436 square feet) in size.
- h. The total percent cover of wetland species in each plot shall be averaged for plots taken in the same wetland type to obtain a mean percent cover value for each wetland type. For the purposes of this standard, total percent cover is the percent cover of the ground surface covered by vegetation, bare soil, and open water, when viewed from above. Total percent cover cannot exceed 100 percent. Plots within identified extensive open water and submergent areas, bare soil areas, and areas without a predominance of wetland vegetation shall not be included in this average. Wetland species refers to species listed as facultative and wetter (FAC, FACW, OBL) on the U.S. Army Corps of Engineer's 2020 Regional Plant List (version 3.5) for the Midwest Region.
- i. The mitigation wetland supports a predominance of wetland (hydrophytic) vegetation (as defined in the 2010 U.S. Army Corps of Engineers "Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region [Version 2.0]") in each vegetative layer, represented by a minimum number of native wetland species, at the end of the monitoring period. The minimum number of native wetland species per wetland type shall not be less than:
 - i. 15 species within the emergent wetland.
 - ii. 15 species within the scrub-shrub wetland.
 - iii. 15 species within the forested wetland.

The total number of native wetland plant species shall be determined by a sum of all species identified in sample plots of the same wetland type.

- j. At the end of the monitoring period, the mitigation wetland supports a minimum of:
 - i. 300 individual surviving, established, and free-to-grow trees per acre in the forested wetland that are classified as native wetland species and consisting of at least three different species.
 - ii. 300 individual surviving, established, and free-to-grow shrubs per acre in the scrub-shrub wetland that are classified as native wetland species and consisting of at least four different species.
 - iii. *Optional*: Eight native wetland species of grasses, sedges, or rushes per acre in the wet meadow wetland.
- k. Physiognomic classification of trees and shrubs shall be in accordance with the most updated resource from the following list:
 - i. The Michigan Floristic Quality Assessment
 - ii. Michigan Flora (also referred to as the University of Michigan Herbarium)
 - iii. The U.S. Army Corps of Engineer's Regional Plant List for the Midwest Region.
- l. The mean percent cover of invasive species including, but not limited to, *Phragmites australis* (Common Reed), *Lythrum salicaria* (Purple Loosestrife), and *Phalaris arundinacea* (Reed Canary Grass) shall in combination be limited to no more than 10 percent within each wetland type. Invasive species shall not dominate the vegetation in any extensive area of the mitigation wetland. A more exhaustive list of invasive species that are known to be in Michigan can be found on the State of Michigan's Invasive Species plant list (<https://www.michigan.gov/invasives/id-report/plants>)

If the mean percent cover of invasive species is more than 10 percent within any wetland type or if there are extensive areas of the mitigation wetland in which an invasive species is one of the dominant plant species, the permittee shall submit an evaluation of the problem to the City of Novi and/or the. If the permittee determines that it is infeasible to reduce the cover of invasive species to meet the above performance standard, the permittee must submit an assessment of the problem, a control plan, and the projected percent cover that can be achieved for review by the City of Novi. Based on this information, the City of Novi may approve an alternative invasive species standard. Any alternative invasive species standard must be approved in writing by the City of Novi.

If the mitigation wetland does not satisfactorily meet these standards by the end of the monitoring period, or is not satisfactorily progressing during the monitoring period, the permittee will be required to take corrective

Consultant review of Monitoring Reports will be split into the following sections:

1. Vegetation
2. Invasive Species
3. Hydrology
4. Wildlife Observations
5. Topsoil
6. Pollutants
7. Signage
8. Wetland Recommendations (as applicable)
 - a. Financial Guarantee Release

TRAFFIC REVIEW



AECOM
39575 Lewis Dr, Ste. 400
Novi
MI, 48377
USA
aecom.com

Project name:
JSP25-02 – Camelot Parc Townhomes PSLR
Concept Plan Traffic Review

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

From:
AECOM

Date:
March 4, 2025

CC:
Lindsay Bell, Humna Anjum, Diana Shanahan, Dan
Commer, Milad Alesmail, Stacey Choi

Memo

Subject: JSP25-02 – Camelot Parc Townhomes PSLR Concept Plan Traffic Review

The PSLR concept site plan was reviewed to the level of detail provided and AECOM offers the following comments for the applicant to consider as they move forward with site plan development.

GENERAL COMMENTS

1. The applicant, Avalon Park Development, LLC, is proposing a 24-unit residential development featuring two-story townhomes.
2. The development is located east of Wixom Road and north of Stonebrook Drive. Wixom Road is under the jurisdiction of the City of Novi and Stonebrook Drive is a private street.
3. The site is zoned R-1 (One Family Residential) with an existing PSLR overlay.
4. The following traffic related deviations will be required if plans are not revised:
 - a. Lack of offset between the back-of-curb and the sidewalk, where there are no parking spaces.

TRAFFIC IMPACTS

1. AECOM performed an initial trip generation based on the ITE Trip Generation Manual, 11th Edition, as follows.

ITE Code: 215 – Single-Family Attached Housing
Development-specific Quantity: 24 Dwelling Units
Zoning Change: N/A

Trip Generation Summary	Estimated Trips	Estimated Peak-Direction Trips	City of Novi Threshold	Above Threshold?
AM Peak-Hour Trips	7	5	100	No
PM Peak-Hour Trips	10	6	100	No
Daily (One-Directional) Trips	132	N/A	750	No

2. The City of Novi generally requires a traffic impact study/statement if the number of trips generated by the proposed development exceeds the City's threshold of more than 750 trips per day or 100 trips per either the AM or PM peak hour, or if the project meets other specified criteria.

Trip Impact Study Recommendation	
Type of Study:	Justification
None	The applicant submitted a Trip Generation Analysis memo that also concluded that no further traffic studies are required.

TRAFFIC REVIEW

The following table identifies the aspects of the plan that were reviewed. Items marked O are listed in the City's Code of Ordinances. Items marked with ZO are listed in the City's Zoning Ordinance. Items marked with ADA are listed in the Americans with Disabilities Act. Items marked with MMUTCD are listed in the Michigan Manual on Uniform Traffic Control Devices.

The values in the 'Compliance' column read as 'met' for plan provision meeting the standard it refers to, 'not met' stands for provision not meeting the standard and 'inconclusive' indicates applicant to provide data or information for review and 'NA' stands for not applicable for subject Project. The 'remarks' column covers any comments reviewer has and/or 'requested/required variance' and 'potential variance'. A potential variance indicates a variance that will be required if modifications are not made or further information provided to show compliance with the standards and ordinances. The applicant should put effort into complying with the standards; the variances should be the last resort after all avenues for complying have been exhausted. Indication of a potential variance does not imply support unless explicitly stated.

EXTERNAL SITE ACCESS AND OPERATIONS				
No.	Item	Proposed	Compliance	Remarks
1	Driveway Radii O Figure IX.3	25'	Met	Within required range.
2	Driveway Width O Figure IX.3	28'	Met	No parking allowed on Avalon Drive and Camelot Drive.
3	Driveway Taper O Figure IX.11	-	N/A	
3a	Taper length			
3b	Tangent			
4	Emergency Access O 11-194.a.19	A second emergency access road with gate located along Wixom Road	Met	
5	Driveway sight distance O Figure VIII-E	260'	Met	
6	Driveway spacing	-	N/A	Proposed driveway not on a major arterial.
6a	Same-side O 11.216.d.1.d			
6b	Opposite side O 11.216.d.1.e			
7	External coordination (Road agency)	-	N/A	
8	External Sidewalk Master Plan & EDM	Existing sidewalk along Wixom Road and Stonebrook Drive	N/A	

EXTERNAL SITE ACCESS AND OPERATIONS				
No.	Item	Proposed	Compliance	Remarks
9	Sidewalk Ramps EDM 7.4 & R-28-K	Indicated at entrance	Met	Update R-28-J detail included to the latest R-28-K version.
10	Any Other Comments:			

INTERNAL SITE OPERATIONS				
No.	Item	Proposed	Compliance	Remarks
11	Loading zone ZO 5.4	-	N/A	
12	Trash receptacle ZO 5.4.4	Trash collection to be provided by individual residential waste management service	Met	
13	Emergency Vehicle Access	Fire truck turning movements provided	Met	
14	Maneuvering Lane ZO 5.3.2	-	N/A	
15	End islands ZO 5.3.12	-	N/A	
15a	Adjacent to a travel way			
15b	Internal to parking bays			
16	Parking spaces ZO 5.2.12	16 proposed		See Planning review letter.
17	Adjacent parking spaces ZO 5.5.3.C.ii.p	<15 spaces in one row	Met	
18	Parking space length ZO 5.3.2	19'	Met	
19	Parking space Width ZO 5.3.2	9'	Met	
20	Parking space front curb height ZO 5.3.2	4" shown in details	Not Met	6" curb required in front of 19' parking spaces.
21	Accessible parking – number ADA	1 required, 2 proposed	Met	
22	Accessible parking – size ADA	Not dimensioned	Inconclusive	Dimension width of accessible aisle and spaces.
23	Number of Van-accessible space ADA	1 required, 1 proposed	Met	
24	Bicycle parking			
24a	Requirement ZO 5.16.1	None required, none proposed	N/A	
24b	Location ZO 5.16.1	-	N/A	
24c	Clear path from Street ZO 5.16.1	-	N/A	
24d	Height of rack ZO 5.16.5.B	-	N/A	
24e	Other (Covered / Layout) ZO 5.16.1 , Text Amendment 18.301	-	N/A	

INTERNAL SITE OPERATIONS				
No.	Item	Proposed	Compliance	Remarks
25	Sidewalk – min 5' wide Master Plan	5' proposed	Met	The applicant could extend the sidewalk for the full length on the north side of Avalon Drive.
26	Sidewalk ramps EDM 7.4 & R-28-K	Indicated	Met	Update R-28-J detail included to the latest R-28-K version.
27	Sidewalk – distance back of curb EDM 7.4	No offset provided	Not Met	A deviation will be required for no offset.
28	Cul-De-Sac O Figure VIII-F	-	N/A	
29	EyeBrow O Figure VIII-G	-	N/A	
30	Turnaround ZO 5.10	20' radius, 20' width	Met	
31	Any Other Comments:			

SIGNING AND STRIPING				
No.	Item	Proposed	Compliance	Remarks
32	Signing: Sizes MMUTCD	Provided	Met	
33	Signing table: quantities and sizes	Provided	Met	
34	Signs 12" x 18" or smaller in size shall be mounted on a galvanized 2 lb. U-channel post MMUTCD	Provided	Met	
35	Signs greater than 12" x 18" shall be mounted on a galvanized 3 lb. or greater U-channel post MMUTCD	Provided	Met	
36	Sign bottom height of 7' from final grade MMUTCD	Provided	Met	
37	Signing shall be placed 2' from the face of the curb or edge of the nearest sidewalk to the near edge of the sign MMUTCD	Provided	Met	
38	FHWA Standard Alphabet series used for all sign language MMUTCD	Provided	Met	
39	High-Intensity Prismatic (HIP) sheeting to meet FHWA retro-reflectivity MMUTCD	Provided	Met	
40	Parking space striping notes	Not provided	Inconclusive	Provide in future submittal.
41	The international symbol for accessibility pavement markings ADA	Not provided	Inconclusive	Provide in future submittal.
42	Crosswalk pavement marking detail	Not provided	Inconclusive	Provide in future submittal.
43	Any Other Comments:	Proposed "Do Not Block Sidewalk" signs shown on site plan but not listed in sign quantities table.		

Note: Hyperlinks to the standards and Ordinances are for reference purposes only, the applicant and City of Novi to ensure referring to the latest standards and Ordinances in its entirety.

Memo

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

Sincerely,

AECOM



Paula K. Johnson, PE
Senior Transportation Engineer



Saumil Shah, PMP
Project Manager

FAÇADE REVIEW



March 4, 2025

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

Façade Review Status Summary:
Approved, Section 9 Waiver Not Required

Re: FACADE ORDINANCE REVIEW
Camelot Parc Townhomes, PSLR, JSP25-02
Façade Region: 1, Zoning District: RM-1,

Dear Ms. McBeth;

This façade review is based on the drawings by TRI Design Group, dated 1/7/25. The maximum and minimum percentage of façade materials required by the Façade Ordinance is shown in the right-hand column. Materials in non-compliance, if any, are highlighted in **red**. Colored renderings were provided. The Sample Board required by Section 5.15.4.D of the Ordinance was not provided. The sample board should be provided prior to the Planning Commission and/or City council meeting.

Horizontal Fiber Cement Siding is considered Wood Siding for the purpose of the Façade Ordinance (Footnote 13). The Façade Ordinance allows up to 50% of this material on buildings considered to be “residential style architecture” (Footnote 10). The proposed buildings have sloped gable roofs, punched window openings, attached garages, and individual entrances and are therefore considered residential style architecture with respect to the Façade Ordinance.

3-Plex	Front	Left	Right	Rear	Ordinance Maximum (Minimum)
Brick & Stone	32%	87%	87%	35%	100% (30% Min)
Fiber Cement Panels, Vertical Pattern	5%	0%	0%	0%	25%
Fiber Cement Panels - Horizontal Pattern	10%	5%	5%	17%	50%
Shake Siding	6%	0%	0%	0%	25%
Trim	3%	3%	3%	3%	10%
Asphalt shingles	44%	5%	5%	45%	50%

4-Plex	Front	Left	Right	Rear	Ordinance Maximum (Minimum)
Brick & Stone	32%	87%	87%	35%	100% (30% Min)
Fiber Cement Panels, Vertical Pattern	5%	0%	0%	0%	25%
Fiber Cement Panels - Horizontal Pattern	10%	5%	5%	17%	50%
Shake Siding	6%	0%	0%	0%	25%
Trim	3%	3%	3%	3%	10%
Asphalt shingles	44%	5%	5%	45%	50%

5-Plex	Front	Left	Right	Rear	Ordinance Maximum (Minimum)
Brick & Stone	32%	87%	87%	35%	100% (30% Min)
Fiber Cement Panels, Vertical Pattern	5%	0%	0%	0%	25%
Fiber Cement Panels - Horizontal Pattern	10%	5%	5%	17%	50%
Shake Siding	6%	0%	0%	0%	25%
Trim	3%	3%	3%	3%	10%
Asphalt shingles	44%	5%	5%	45%	50%

Façade Ordinance (Section 5.15) - As shown above all façades are in full compliance with the Façade Ordinance. A sample board indicating the proposed colors and textures of all façade materials should be provided prior to the Planning Commission meeting.

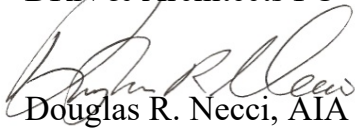
PSLR Ordinance (Section 3.21)		Complies (Yes / No)
C.i	Maximum Height 35', 2.5 Stories	YES
C.11.a(1)	Front Façade Offsets, 4' every 50'	YES
C.11.a(2)	Pedestrian entrance on front and rear façade, not greater than 60'	YES
C.11.a(3)	Pedestrian entrances recessed 4' min. w/ covered porch,	YES
C.11.b(1)	Gable and hip roof lines	YES
C.11.b(2)	Roofs features to reduce roofing material to 70% max.	YES
C.11.b(3)	Minimum roof slope of 6:12 with gutters and downspouts	YES
C.11.b(4)	Roof material; shingles, slate, metal, etc.	YES
C.11.b(5)	Solar collectors allowed but not required.	YES
C.11.c(1)	Windows divided lite, 6 SF max.	YES
C.11.c(2)	Windows 15' max. width, 2' separation	YES
C.11.c(3)	Window trim; moldings or shutters	YES
C.11.d	Complies with the Façade Ordinance Section 5.15, except flat metal, standing seam, spandrel glass, display glass, EIFS, granite, marble and C-brick are not allowed.	YES

Planned Suburban Low-Rise Ordinance (Section 3.21) – Section 3.21.C of the Ordinance sets additional requirements for buildings in the PLSR District. As shown above the proposed facades substantially comply with the PLSR Ordinance requirements.

Notes to the Applicant:

1. Inspections – The Façade Ordinance requires inspection(s) for all projects. Materials displayed on the approved sample board will be compared to materials delivered to the site. It is the applicant's responsibility to request the inspection of each façade material at the appropriate time. Inspections may be requested using the Novi Building Department's Online Inspection Portal with the following link. Please click on "Click here to Request an Inspection" under "Contractors", then click "Façade".
<http://www.cityofnovi.org/Services/CommDev/OnlineInspectionPortal.asp>.
2. RTU Screening - It should be noted that all roof top units must be screened from view from all vantage points both on-site and off-site using materials in compliance with the Façade Ordinance.

Sincerely,
DRN & Architects PC



Douglas R. Necci, AIA

FIRE REVIEW



February 25, 2025

TO: Barbara McBeth - City Planner
Lindsay Bell - Plan Review Center
Dan Commer – Plan Review Center
Diana Shanahan – Plan Review Center
Stacey Choi – Planning Assistant

CITY COUNCIL

Mayor
Justin Fischer

Mayor Pro Tem
Laura Marie Casey

Dave Staudt

Brian Smith

Ericka Thomas

Matt Heintz

Priya Gurumurthy

City Manager
Victor Cardenas

Director of Public Safety
Chief of Police
Erick W. Zinser

Fire Chief
John B. Martin

Assistant Chief of Police
Scott R. Baetens

Assistant Fire Chief
Todd Seog

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

cityofnovi.org

RE: Camelot Parc Townhomes

PSP# 24-0004

Project Description:

Build a 6 multi-tenant building off Wixom Rd & Stonebrook.

Comments:

- **All** fire hydrants **MUST** be installed and operational prior to any combustible material is brought on site. **IFC 2015 3312.1**
- For new buildings and existing buildings, you **MUST** comply with the International Fire Code Section 510 for Emergency Radio Coverage. This shall be completed by the time the final inspection of the fire alarm and fire suppression permits.
- 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. **(D.C.S. Sec 11-239(b)(5))**
- All new multi-residential buildings shall be numbered. Each number shall be a minimum 10 inches high, 1 inch wide and be posted at least 15 feet above the ground on the building where readily visible from the street.
(Fire Prevention Ord.)
- 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 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.
- Hydrants shall be spaced approximately three hundred (300) feet apart online in commercial, industrial, and multiple-residential areas. In cases where the buildings within developments are fully fire suppressed, hydrants shall be no more than five hundred (500) feet apart. The spacing of hydrants around commercial and/or industrial developments shall be considered as individual cases where special circumstances exist upon consultation with the fire chief. **(D.C.S. Sec. 11-68 (f)(1)c)**

Recommendation:

Approved with Conditions

Sincerely,

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

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

cc: file

APPLICANT RESPONSE LETTERS



ONE COMPANY.
INFINITE SOLUTIONS.

August 6, 2025

Lindsay Bell, AICP, Senior Planner
City of Novi
45175 W. Ten Mile
Novi, MI 48375

Re: Camelot Parc Townhomes – PSLR Review - JSP 25-02

Dear Ms. Bell:

Please accept the revised PLSR Submittal for the proposed Camelot Parc Townhomes development. This package has been prepared to address the applicable City concerns as they pertain to the PSLR Concept stage, with comment responses provided below. Items identified to be addressed during site plan will be addressed at that time.

Planning Review Comments – Lindsay Bell, AICP – July 10, 2025

Ordinance Deviations

1. *For permanent lighting installations, the maximum Correlated Color Temperature shall be 3000 Kelvin. The lighting plan shows proposed fixtures are 4000K. The applicant should specify 3000K fixtures, or request a deviation with sufficient justification. (ZO Sec. 5.7.3.F)*

Response: The photometric plan has now been revised to 3000K color temperature on the photometric plan.

2. *Lack of a 25-foot wetland buffer north of Avalon Drive. This is conditionally supported by staff as the applicant has proposed signage as visual protection for the wetland between Avalon Drive and the buildings is proposed. Wetland buffers are meant to remain in a natural, unmowed state in order to protect the wetland from surface water run-off and pollutants. The applicant should also propose plantings in this wetland buffer, such as bushes, that would discourage mowing. See Wetland Review for more specific comments. (Sec. 3.6.2.M)*

Response: Shrubs have been added along the wetland boundary as added protection and delineation of the wetland. See responses below for further detail.

ADDITIONAL REVIEW COMMENTS

3. *The applicant has included a proposed Road Maintenance Plan on Sheet 11 for Stonebrook Drive. The plan calculates a contribution for the proposed Camelot Parc toward Stonebrook Drive maintenance costs based on the length of the road, percentage of road used to access Camelot Drive, and the total number of units for each development. As Stonebrook Drive is a private road owned by Villas at Stonebrook HOA, the applicant should meet with them to discuss proposed*

road maintenance agreement with them. Any cost sharing agreement would be a private agreement between the two entities.

Response: Acknowledged. The developer has previously met with the HOA to discuss road maintenance and plans to reconnect with them again prior to the Planning Commission meeting, as suggested.

Planning Review Chart Comments

1. *PSLR Agreement and Concept Plan must be approved by the City Council after recommendation by Planning Commission.*

Response: Acknowledged.

2. *Special Land use permit required.*

Response: Acknowledged.

3. *Building north of the drive will be within remaining wetland buffer.*

Response: It is not feasible to adjust the layout to provide the full 25' buffer from existing wetland locations. Instead, alternative visual signage has been provided on sheet 4 to enhance protection of the existing natural features on site as well as shrub plantings on the landscape plan.

4. *Suggest additional benches around the walking path.*

Response: Two benches have been added adjacent to the walking path. A detail is shown on sheet L-1.

5. *Could reduce spaces to 8' each with 8' access to recover a couple feet of pavement.*

Response: The standard of spaces being 8' wide with 8' access is acknowledged. If the reduction is beneficial to the design, it will be applied during engineering design.

6. *Mounting height not found on photometric plan.*

Response: The mounting height has been added to the photometric plan.

7. *Provide information to verify compliance in fixture chart for each type.*

Response: Each fixture has been changed to 3000K in the photometric plan table.

Landscape Review Comments – Rick Meader, LA – July 3, 2025

General Notes

1. *A 25-foot wetland buffer is not provided in many cases as is required. **This requires a landscape deviation.** It would not be supported by staff unless additional protection is provided for the wetlands. Please add signage along the curbs and behind the building to protect the wetland.*

Response: Signage is provided and the signs have been modified per the example provided.

2. *Please also add a line of large wetland shrubs such as chokeberry along the edge of the wetland behind and along the sides of the building with units 19-22 to provide a better buffer for the wetland.*

Response: A row of shrubs has been added to the wetland edge adjacent to units 19-22.

LANDSCAPE REVIEW SUMMARY CHART

1. *The lack of a 25-foot wetland buffer between the interior drive/parking and Units 19-22 requires a deviation. This is especially concerning along the drive where road salt could negatively impact the wetland. It would not be supported by staff as currently shown.*

Response: Wetland protection has been enhanced in the areas where the 25-foot wetland buffer is being encroached. Protective fencing, signage, plant boarder, and native seed mix has been added as described below.

2. *Below is a list of items to address:*
 - *Add protective fencing for the wetlands to the removal plans.*
 - *Add signs such as the example shown below to protect the wetlands from encroachment and unsupported activities. They should be placed every 100 feet behind the curbs and building.*
 - *Plant a border of large wetland shrubs such as chokeberry along the edge of the wetland as a buffer between the building and the wetland.*
 - *Use a native seed mix on the slopes between the curb and wetland.*

Response: Silt fence has been added around the limits of disturbance next to the wetlands on the removal plans. The wetland protection area signs have been revised to include “no mowing, no herbicides, no fertilizers”. The signs are placed behind buildings, curbs, and pathway at an interval not greater than 100-ft. Shrubs have been added adjacent to units 19-22 and a native seed mix will be provided between the curb and wetland north of Avalon Drive.

3. *Please add soils boundaries and symbols to sheet 2.*

Response: The soils boundaries and symbols have been added to the existing conditions plan.

4. *Please move the clear vision zone for the Stonebrook Drive entrance back per the illustration below (it should be at the ROW line, not the back of curb).*

Response: The clear vision zone has been moved to the right-of-way. See the layout plan.

Multi-family Residential Landscaping

1. *Sub-canopy deciduous trees – please correct the calculation per the ordinance requirement (1 tree per 20-lf, not 25-lf) and add the extra subcanopy tree.*

Response: An additional sub-canopy tree has been added.

2. *Please indicate snow deposit areas.*

Response: A snow deposit note is located in the “notes” on sheet L-1.

3. *The proposed canopy street trees appear to be under the overhead lines. Please check this and use subcanopy trees if necessary, and if there is room for them.*

Response: The proposed Wixom Road canopy trees are planted no closer than 25' to the existing overhead lines.

Mergent, Inc Review Comments – Jason DeMoss, PWS – July 10, 2025

Woodland Review Comments

1. *Either a separate sheet or details should be added to Sheet 3 showing the final development plans in conjunction with trees that will remain on-site. Based on Davey Resource Group's January 10, 2023 review, trees such as Tree 9688 are within the regulated woodland. Based on the location of the woodland fence (see Comment 9), it is assumed the critical root zone of this and other trees will be impacted and should be reflected in the count of trees to be impacted even if they remain. Therefore, tree replacement calculations should be updated to reflect impacts to the critical root zone of regulated woodland trees.*

Response: The layout has been added to the removal plan and grayed out. The critical root zone trees were looked at in detail. Trees 9596, 9603, 9676, and 9688 are within the influence of proposed pavement or proposed building excavation zones and have been added to the woodland replacement calculations. All other trees only have minor fills over a small portion of the root zone and are not expected to be impacted by the activity.

2. *Sheet L-1 should be updated to reflect the number of replacements listed on Sheet 10. Note that not all removals of trees on-site are of regulated trees.*

Response: L-1 has been updated to reflect 53 required replacement trees.

3. *Proposed developments should be displayed in conjunction with trees to remain.*

Response: The layout has been added to the removal plan and grayed out. Trees to remain can also be clearly seen with the proposed development on the landscape plans.

4. *It is requested that tree protection fence be added around and within the five-foot gravel path to the maximum extent practicable to ensure trees will not be accidentally impacted by light machinery when delivering and placing the gravel for the proposed path. Additionally, the footprint of the proposed path should be displayed in conjunction with the trees to remain post-development.*

Response: Tree protection fence has been added around the gravel path within the wooded area.

5. *The wetland type (classification) should be added to the table on Sheet 7. An update to the previous wetland delineation may affect the impact amounts listed.*

Response: The wetland classification (emergent, scrub, forested) has been added to the table on sheet 7.

6. *The applicant will be impacting 4,483 square feet of forested wetland. It is requested that at least 8,966 square feet (0.21 acre) of the proposed mitigation on-site be a forested wetland and meet the performance standards in **Attachment B**.*

Response: Mitigation design will be coordinated with the city and EGLE during the permitting process.

7. *Due to the extensive proposed loss of wetland buffer along the southern remaining wetland area, it is requested that the applicant perform environmental enhancement along the southern portion of the remaining wetland (see screenshot below). The applicant should plant at least three different*

species of wetland rated shrubs throughout the southern boundary of the wetland. This will allow a small separation from the wetland and the proposed development. Additionally, it will deter any accidental mowing of the wetlands and remaining buffer areas. Shrubs could include three of the following species:

- Buttonbush (*Cephalanthus occidentalis*)
- Swamp Rose (*Rosa palustris*)
- Winterberry Holly (*Ilex verticillata*)
- Silky Dogwood (*Cornus amomum*)
- Northern Spicebush (*Lindera benzoin*)
- Red-osier Dogwood (*Cornus sericea* or *C. stolonifera*)
- Black Chokeberry (*Aronia melanocarpa*)
- Meadowsweet (*Spiraea alba*)
- Common Elderberry (*Sambucus canadensis*)

Response: These shrubs are provided as requested in the review snippet. The area north of the Avalon curb to the wetland edge will be planted with a native seed mix.

8. *Portions of the wetland may become disconnected by the placement of fill throughout the site. It is requested that wetland equalizer culverts or similar structures be placed beneath roads that allow the wetlands on-site to remain connected. Specifically in the locations circled below.*

Response: Hydraulic connections and flow routes will be reviewed during engineering design.

9. *The Applicant is encouraged to provide wetland conservation easements for any areas of remaining wetland and 25-foot wetland buffer. The Applicant shall provide wetland conservation easements as directed by the City of Novi Community Development Department for any areas of proposed wetland mitigation areas (if necessary). 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 Wetland Use Permit.*

Response: The PSLR and Site Plan, along with the proposed development signage and enhanced plantings, should be more than adequate documentation and identification for the preservation of these natural areas without the need to create further conservation easement documentation. No additional developments are proposed for the site nor are any connections to adjacent properties that would impact these remaining features.

Thank you for your assistance and cooperation with respect to this project. Please feel free to contact us with any questions or concerns at (248) 447-2000.

Sincerely,

ATWELL, LLC



Jared Kime, PE
Project Manager

WETLAND DELINEATION REPORT



*Assessment • Remediation • Compliance
Restoration • Incentives*

10448 Citation Drive, Suite 100
Brighton, MI 48116

800 395-ASTI
Fax: 810.225.3800

www.asti-env.com

Sent Via Email Only

May 2, 2025

Ashok Gudi
Avalon Investment Group LLC
1137 Prescott Drive
Rochester Hills, MI 48309

*RE: Wetland Delineation and Jurisdictional Assessment with GPS Survey,
Northeast of Wixom Road and Stonebrook (Parcel ID 22-17-300-019)
City of Novi, Oakland County, Michigan
ASTI File No. A25-0628.00*

Dear Ashok Gudi:

On April 30, 2025, ASTI Environmental (ASTI) conducted a site investigation to delineate wetland boundaries on the above-referenced property located within the City of Novi, Oakland County, Michigan (Subject Property). One wetland likely regulated by the Michigan Department of Environment, Great Lakes, and Energy (EGLE) and the City of Novi (City) was found within the Subject Property (Figure 1 – *GPS-Surveyed Wetland Boundaries*). Wetland and watercourse boundaries, as depicted on Figure 1, were located using a professional grade, hand-held Global Positioning System unit (GPS).

SUPPORTING DATA AND MAPPING

The USDA Web Soil Survey (WSS), the National Wetland Inventory Map (NWI), EGLE Wetlands Map Viewer web site, and digital aerial photographs were all used to support the wetland delineation and subsequent regulatory status determination. The NWI and EGLE maps indicated the presence of wetland in the northern and eastern portions of the Subject Property.

The WSS indicates the Subject Property is comprised of the soil complexes shown in Table 1 below:

Table 1 – Subject Property Soils

Subject Property Soil Complexes	Hydric Soil per the WSS (YES or No)
Marlette sandy loam (1-6% slopes)	No
Capac sandy loam (0-4% slopes)	No
Brookston and Colwood loams	YES
Houghton and Adrian mucks	YES

FINDINGS

ASTI investigated the Subject Property for the presence of any lakes, ponds, wetlands, and watercourses. This work is based on *MCL 324 Part 301 (Inland Lakes and Streams)* and *Part 303 (Wetland Protection)*, as well as the City of Novi's *Code of Ordinances, Chapter 12 – Drainage and Flood Damage Prevention, Article V, Wetlands and Watercourse Protection (Article V)*. In addition to those resources regulated by EGLE, the City also regulates isolated (non-contiguous) wetlands from two to five acres in size and those wetlands less than two acres in size if determined to be essential to the preservation of the natural resources of the City. In some circumstances the US Army Corps of Engineers (USACE) may also have jurisdiction of wetlands or watercourses; this is not the case with your site.

The delineation protocol used by ASTI for this delineation is based on the US Army Corps of Engineers' *Wetland Delineation Manual, 1987*, the *Regional Supplement to the Corps of Engineer Wetland Delineation Manual: Midwest Region*, and related guidance/documents, as appropriate. Wetland vegetation, hydrology, and soils were used to locate the wetland boundaries.

One wetland was found on the Subject Property, as discussed below.

Wetland A

Wetland A is an emergent, scrub/shrub, and forested wetland located throughout the Subject Property. Wetland A is 2.75 acres in size on-site and continues off-site to the east (Figure 1). Vegetation within Wetland A was dominated by silver maple (*Acer saccharinum*), swamp white oak (*Quercus bicolor*), green ash (*Fraxinus pennsylvanica*), common buckthorn (*Rhamnus cathartica*), sandbar willow (*Salix interior*), reed canary grass (*Phalaris arundinacea*), common reed (*Phragmites australis*), purple loosestrife (*Lythrum salicaria*), moneywort (*Lysimachia nummularia*), and swamp agrimony (*Agrimonia parviflora*). Soils within Wetland A were comprised of loams to loamy sands and are considered hydric because the criteria for depleted below dark surface, depleted matrix, redox dark surface, and redox depressions were met. Indicators of wetland

hydrology observed within Wetland A included surface water, a high-water table, saturation, and oxidized rhizospheres on living roots.

Dominant vegetation observed within the upland adjacent to Wetland A included sugar maple (*Acer saccharum*), black cherry (*Prunus serotina*), autumn olive (*Elaeagnus umbellata*), Japanese rose (*Rosa multiflora*), gray dogwood (*Cornus racemosa*), green ash, tall goldenrod (*Solidago altissima*), wild carrot (*Daucus carota*), wild strawberry (*Fragaria virginiana*), Kentucky bluegrass (*Poa pratensis*), yarrow (*Achillea millefolium*), and Virginia creeper (*Parthenocissus quinquefolia*). Upland soils were comprised of loam and sandy clay, and no evidence of wetland hydrology was observed.

It is ASTI's opinion that Wetland A is regulated by EGLE under Part 303 and by the City of Novi under Article V because it is a portion of a larger wetland complex that extends off-site to the east that is greater than five acres in size. Field observations and aerial photographs were used to estimate the size of the off-site wetland complex contiguous with Wetland A.

Wetland Flagging

Wetland boundaries were marked in the field with pink pin flags and/or day-glow pink and black striped flagging with the following flagging numbers:

Wetland A: A-1 through A-59

SUMMARY

Based upon the data, criteria, and evidence noted above, it is ASTI's professional opinion that the Subject Property includes one wetland (Wetland A) regulated by EGLE under the Natural Resources and Environmental Protection Act (1994 P.A. 451), Part 303 Wetland Protection and the City of Novi under Article V. However, please note that EGLE has the final authority on the extent of regulated wetlands, lakes, and streams in the State of Michigan, and the City of Novi has the final authority of wetlands within the City limits. Any proposed impact to the areas that ASTI has identified as regulated will require a permit from EGLE and the City prior to any wetland impacts.

It should also be noted that the City requires a 25-foot setback from regulated wetlands and watercourses. Additionally, the City has a woodland protection ordinance that regulates trees with a diameter at breast height (DBH) of 8 inches or greater within regulated woodlands and all trees with a DBH of 36 inches or greater within the City of Novi.

Attached are Figure 1, which shows the GPS-surveyed locations of wetland flagging within the Subject Property and completed US Army Corps of Engineers



(USACE) Wetland Data Forms. Please note that the data sheet numbers match the data collection sampling points shown on Figure 1.

Thank you for the opportunity to assist you with this project. Please let us know if we can be of any further assistance in moving your project forward.

Cordially,

ASTI ENVIRONMENTAL

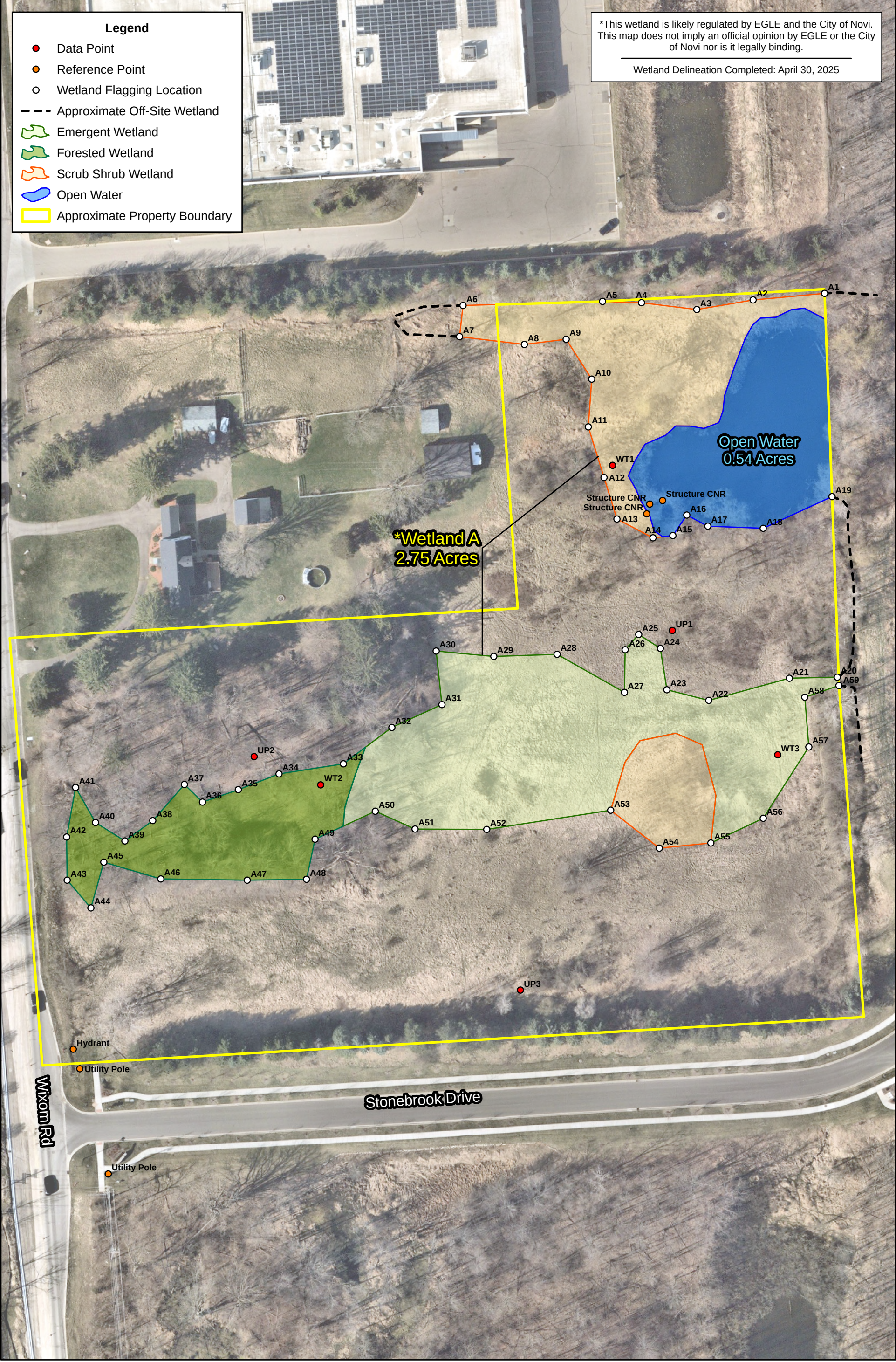
A handwritten signature in blue ink, appearing to read 'Shane Jennings'.

Shane Jennings
Wetland Ecologist

A handwritten signature in blue ink, appearing to read 'Kyle Hottinger'.

Kyle Hottinger
Wetland Ecologist
Professional Wetland Scientist #2927

Attachments: Figure 1 – *GPS-Surveyed Wetland Boundaries*
Completed USACE Wetland Data Forms



U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Midwest Region See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp:11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
--	---

Project/Site: Northeast of Wixom Rd and Stonebrook Dr. City/County: Novi, Oakland Co. Sampling Date: 4/30/2025
Applicant/Owner: Avalon Investment Group LLC State: MI Sampling Point: UP1
Investigator(s): ASTI - SPJ Section, Township, Range: Sec. 17, T01N, R08E
Landform (hillside, terrace, etc.): Slope Local relief (concave, convex, none): Convex
Slope (%): 1-2 Lat: 42.486139 Long: -83.532924 Datum: NAD 83
Soil Map Unit Name: Capac sandy loam NWI classification: None
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> </u> No <u>X</u> Hydric Soil Present? Yes <u> </u> No <u>X</u> Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
---	--

Remarks:
Upland adjacent to Wetland A. Located in the northeastern portion of the property.

VEGETATION – Use scientific names of plants.

<u>Tree Stratum</u> (Plot size: <u>30ft</u>) 1. <u>None</u> 2. <u> </u> 3. <u> </u> 4. <u> </u> 5. <u> </u> <u> </u> =Total Cover	Absolute % Cover <u> </u> <u> </u> <u> </u> <u> </u> <u> </u>	Dominant Species? <u> </u> <u> </u> <u> </u> <u> </u> <u> </u>	Indicator Status <u> </u> <u> </u> <u> </u> <u> </u> <u> </u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>8</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>25.0%</u> (A/B)
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15ft</u>) 1. <u>Elaeagnus umbellata</u> 2. <u>Rosa multiflora</u> 3. <u>Cornus foemina</u> 4. <u>Malus pumila</u> 5. <u> </u> <u>50</u> =Total Cover	<u>25</u> <u>10</u> <u>10</u> <u>5</u> <u> </u>	<u>Yes</u> <u>Yes</u> <u>Yes</u> <u>No</u> <u> </u>	<u>UPL</u> <u>FACU</u> <u>FAC</u> <u>UPL</u> <u> </u>	
<u>Herb Stratum</u> (Plot size: <u>5ft</u>) 1. <u>Solidago altissima</u> 2. <u>Daucus carota</u> 3. <u>Fragaria virginiana</u> 4. <u>Poa pratensis</u> 5. <u>Achillea millefolium</u> 6. <u> </u> 7. <u> </u> 8. <u> </u> 9. <u> </u> 10. <u> </u> <u>60</u> =Total Cover	<u>15</u> <u>15</u> <u>10</u> <u>10</u> <u>10</u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u>	<u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Yes</u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u>	<u>FACU</u> <u>UPL</u> <u>FACU</u> <u>FAC</u> <u>FACU</u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u>	
<u>Woody Vine Stratum</u> (Plot size: <u>30ft</u>) 1. <u> </u> 2. <u> </u> <u> </u> =Total Cover	<u> </u> <u> </u> <u> </u>	<u> </u> <u> </u> <u> </u>	<u> </u> <u> </u> <u> </u>	
Remarks: (Include photo numbers here or on a separate sheet.)				Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>20</u> x 3 = <u>60</u> FACU species <u>45</u> x 4 = <u>180</u> UPL species <u>45</u> x 5 = <u>225</u> Column Totals: <u>110</u> (A) <u>465</u> (B) Prevalence Index = B/A = <u>4.23</u>
				Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u> </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
				Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>

SOIL

Sampling Point: UP1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-8	10YR 4/3	100					Loamy/Clayey	loam
8-14	10YR 4/2	100					Loamy/Clayey	loam
14-20	10YR 4/2	65	10YR 5/4	30	C	M	Loamy/Clayey	Distinct redox concentrations
			10YR 5/6	5	C	M		Prominent redox concentrations
								sandy clay

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: ☐ Histosol (A1) ☐ Histic Epipedon (A2) ☐ Black Histic (A3) ☐ Hydrogen Sulfide (A4) ☐ Stratified Layers (A5) ☐ 2 cm Muck (A10) ☐ Depleted Below Dark Surface (A11) ☐ Thick Dark Surface (A12) ☐ Sandy Mucky Mineral (S1) ☐ 5 cm Mucky Peat or Peat (S3)	☐ Sandy Gleyed Matrix (S4) ☐ Sandy Redox (S5) ☐ Stripped Matrix (S6) ☐ Dark Surface (S7) ☐ Loamy Mucky Mineral (F1) ☐ Loamy Gleyed Matrix (F2) ☐ Depleted Matrix (F3) ☐ Redox Dark Surface (F6) ☐ Depleted Dark Surface (F7) ☐ Redox Depressions (F8)	Indicators for Problematic Hydric Soils³: ☐ Coast Prairie Redox (A16) ☐ Iron-Manganese Masses (F12) ☐ Red Parent Material (F21) ☐ Very Shallow Dark Surface (F22) ☐ Other (Explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
---	--	---

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes _____ No <u>X</u>
Remarks:	

HYDROLOGY

Wetland Hydrology Indicators:			
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☐ Saturation (A3)	☐ True Aquatic Plants (B14)	☐ Dry-Season Water Table (C2)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Crayfish Burrows (C8)	
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres on Living Roots (C3)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Drift Deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Stunted or Stressed Plants (D1)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Geomorphic Position (D2)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☐ FAC-Neutral Test (D5)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Gauge or Well Data (D9)		
☐ Sparsely Vegetated Concave Surface (B8)	☐ Other (Explain in Remarks)		

Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Midwest Region See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp:11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
--	---

Project/Site: Northeast of Wixom Rd and Stonebrook Dr.
 Applicant/Owner: Avalon Investment Group LLC
 Investigator(s): ASTI - SPJ
 Landform (hillside, terrace, etc.): Slope
 Slope (%): 3 Lat: 42.485834
 Soil Map Unit Name: Brookston and Colwood loams

City/County: Novi, Oakland Co.
 State: MI
 Section, Township, Range: Sec. 17, T01N, R08E
 Local relief (concave, convex, none): Convex
 Long: -83.534345
 NWI classification: None

Sampling Date: 4/30/2025
 Sampling Point: UP2
 Datum: NAD 83

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> </u> No <u>X</u> Hydric Soil Present? Yes <u> </u> No <u>X</u> Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
--	--

Remarks:
 Upland adjacent to Wetland A in the western portion of the property.

VEGETATION – Use scientific names of plants.

<table style="width:100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Tree Stratum</th> <th style="text-align: left;">(Plot size: <u>30ft</u>)</th> <th style="text-align: center;">Absolute % Cover</th> <th style="text-align: center;">Dominant Species?</th> <th style="text-align: center;">Indicator Status</th> </tr> <tr><td>1.</td><td><u>Acer saccharum</u></td><td style="text-align: center;">60</td><td style="text-align: center;">Yes</td><td style="text-align: center;">FACU</td></tr> <tr><td>2.</td><td><u>Prunus serotina</u></td><td style="text-align: center;">10</td><td style="text-align: center;">No</td><td style="text-align: center;">FACU</td></tr> <tr><td>3.</td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td>4.</td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td>5.</td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td colspan="2"> </td><td style="text-align: center;">70</td><td colspan="2" style="text-align: center;">=Total Cover</td></tr> </table> <table style="width:100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Sapling/Shrub Stratum</th> <th style="text-align: left;">(Plot size: <u>15ft</u>)</th> <th style="text-align: center;">Absolute % Cover</th> <th style="text-align: center;">Dominant Species?</th> <th style="text-align: center;">Indicator Status</th> </tr> <tr><td>1.</td><td><u>Prunus serotina</u></td><td style="text-align: center;">10</td><td style="text-align: center;">Yes</td><td style="text-align: center;">FACU</td></tr> <tr><td>2.</td><td><u>Ligustrum vulgare</u></td><td style="text-align: center;">5</td><td style="text-align: center;">Yes</td><td style="text-align: center;">FACU</td></tr> <tr><td>3.</td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td>4.</td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td>5.</td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td colspan="2"> </td><td style="text-align: center;">15</td><td colspan="2" style="text-align: center;">=Total Cover</td></tr> </table> <table style="width:100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Herb Stratum</th> <th style="text-align: left;">(Plot size: <u>5ft</u>)</th> <th style="text-align: center;">Absolute % Cover</th> <th style="text-align: center;">Dominant Species?</th> <th style="text-align: center;">Indicator Status</th> </tr> <tr><td>1.</td><td><u>Rosa multiflora</u></td><td style="text-align: center;">10</td><td style="text-align: center;">Yes</td><td style="text-align: center;">FACU</td></tr> <tr><td>2.</td><td><u>Fraxinus pennsylvanica</u></td><td style="text-align: center;">10</td><td style="text-align: center;">Yes</td><td style="text-align: center;">FACW</td></tr> <tr><td>3.</td><td><u>Parthenocissus quinquefolia</u></td><td style="text-align: center;">10</td><td style="text-align: center;">Yes</td><td style="text-align: center;">FACU</td></tr> <tr><td>4.</td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td>5.</td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td>6.</td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td>7.</td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td>8.</td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td>9.</td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td>10.</td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td colspan="2"> </td><td style="text-align: center;">30</td><td colspan="2" style="text-align: center;">=Total Cover</td></tr> </table> <table style="width:100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Woody Vine Stratum</th> <th style="text-align: left;">(Plot size: <u>30ft</u>)</th> <th style="text-align: center;">Absolute % Cover</th> <th style="text-align: center;">Dominant Species?</th> <th style="text-align: center;">Indicator Status</th> </tr> <tr><td>1.</td><td><u>None</u></td><td> </td><td> </td><td> </td></tr> <tr><td>2.</td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td colspan="2"> </td><td> </td><td colspan="2" style="text-align: center;">=Total Cover</td></tr> </table>	Tree Stratum	(Plot size: <u>30ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	1.	<u>Acer saccharum</u>	60	Yes	FACU	2.	<u>Prunus serotina</u>	10	No	FACU	3.					4.					5.							70	=Total Cover		Sapling/Shrub Stratum	(Plot size: <u>15ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	1.	<u>Prunus serotina</u>	10	Yes	FACU	2.	<u>Ligustrum vulgare</u>	5	Yes	FACU	3.					4.					5.							15	=Total Cover		Herb Stratum	(Plot size: <u>5ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	1.	<u>Rosa multiflora</u>	10	Yes	FACU	2.	<u>Fraxinus pennsylvanica</u>	10	Yes	FACW	3.	<u>Parthenocissus quinquefolia</u>	10	Yes	FACU	4.					5.					6.					7.					8.					9.					10.							30	=Total Cover		Woody Vine Stratum	(Plot size: <u>30ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	1.	<u>None</u>				2.								=Total Cover		Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>16.7%</u> (A/B) Prevalence Index worksheet: <table style="width:100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Total % Cover of:</th> <th style="text-align: left;">Multiply by:</th> </tr> <tr><td>OBL species <u>0</u></td><td>x 1 = <u>0</u></td></tr> <tr><td>FACW species <u>10</u></td><td>x 2 = <u>20</u></td></tr> <tr><td>FAC species <u>0</u></td><td>x 3 = <u>0</u></td></tr> <tr><td>FACU species <u>105</u></td><td>x 4 = <u>420</u></td></tr> <tr><td>UPL species <u>0</u></td><td>x 5 = <u>0</u></td></tr> <tr><td>Column Totals: <u>115</u> (A)</td><td><u>440</u> (B)</td></tr> <tr><td colspan="2">Prevalence Index = B/A = <u>3.83</u></td></tr> </table> Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u> </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0¹ <u> </u> 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>10</u>	x 2 = <u>20</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>105</u>	x 4 = <u>420</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>115</u> (A)	<u>440</u> (B)	Prevalence Index = B/A = <u>3.83</u>	
Tree Stratum	(Plot size: <u>30ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status																																																																																																																																																																			
1.	<u>Acer saccharum</u>	60	Yes	FACU																																																																																																																																																																			
2.	<u>Prunus serotina</u>	10	No	FACU																																																																																																																																																																			
3.																																																																																																																																																																							
4.																																																																																																																																																																							
5.																																																																																																																																																																							
		70	=Total Cover																																																																																																																																																																				
Sapling/Shrub Stratum	(Plot size: <u>15ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status																																																																																																																																																																			
1.	<u>Prunus serotina</u>	10	Yes	FACU																																																																																																																																																																			
2.	<u>Ligustrum vulgare</u>	5	Yes	FACU																																																																																																																																																																			
3.																																																																																																																																																																							
4.																																																																																																																																																																							
5.																																																																																																																																																																							
		15	=Total Cover																																																																																																																																																																				
Herb Stratum	(Plot size: <u>5ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status																																																																																																																																																																			
1.	<u>Rosa multiflora</u>	10	Yes	FACU																																																																																																																																																																			
2.	<u>Fraxinus pennsylvanica</u>	10	Yes	FACW																																																																																																																																																																			
3.	<u>Parthenocissus quinquefolia</u>	10	Yes	FACU																																																																																																																																																																			
4.																																																																																																																																																																							
5.																																																																																																																																																																							
6.																																																																																																																																																																							
7.																																																																																																																																																																							
8.																																																																																																																																																																							
9.																																																																																																																																																																							
10.																																																																																																																																																																							
		30	=Total Cover																																																																																																																																																																				
Woody Vine Stratum	(Plot size: <u>30ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status																																																																																																																																																																			
1.	<u>None</u>																																																																																																																																																																						
2.																																																																																																																																																																							
			=Total Cover																																																																																																																																																																				
Total % Cover of:	Multiply by:																																																																																																																																																																						
OBL species <u>0</u>	x 1 = <u>0</u>																																																																																																																																																																						
FACW species <u>10</u>	x 2 = <u>20</u>																																																																																																																																																																						
FAC species <u>0</u>	x 3 = <u>0</u>																																																																																																																																																																						
FACU species <u>105</u>	x 4 = <u>420</u>																																																																																																																																																																						
UPL species <u>0</u>	x 5 = <u>0</u>																																																																																																																																																																						
Column Totals: <u>115</u> (A)	<u>440</u> (B)																																																																																																																																																																						
Prevalence Index = B/A = <u>3.83</u>																																																																																																																																																																							

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

SOIL

Sampling Point: UP2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-14	10YR 3/3	100					Loamy/Clayey	
14-20	10YR 3/4	95	10YR 5/4	5	C	M	Loamy/Clayey	Faint redox concentrations

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:		Indicators for Problematic Hydric Soils ³ :	
☐ Histosol (A1)	☐ Sandy Gleyed Matrix (S4)	☐ Coast Prairie Redox (A16)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
☐ Histic Epipedon (A2)	☐ Sandy Redox (S5)	☐ Iron-Manganese Masses (F12)	
☐ Black Histic (A3)	☐ Stripped Matrix (S6)	☐ Red Parent Material (F21)	
☐ Hydrogen Sulfide (A4)	☐ Dark Surface (S7)	☐ Very Shallow Dark Surface (F22)	
☐ Stratified Layers (A5)	☐ Loamy Mucky Mineral (F1)	☐ Other (Explain in Remarks)	
☐ 2 cm Muck (A10)	☐ Loamy Gleyed Matrix (F2)		
☐ Depleted Below Dark Surface (A11)	☐ Depleted Matrix (F3)		
☐ Thick Dark Surface (A12)	☐ Redox Dark Surface (F6)		
☐ Sandy Mucky Mineral (S1)	☐ Depleted Dark Surface (F7)		
☐ 5 cm Mucky Peat or Peat (S3)	☐ Redox Depressions (F8)		

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes _____ No <u>X</u>
Remarks:	

HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☐ Saturation (A3)	☐ True Aquatic Plants (B14)	☐ Dry-Season Water Table (C2)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Crayfish Burrows (C8)	
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres on Living Roots (C3)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Drift Deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Stunted or Stressed Plants (D1)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Geomorphic Position (D2)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☐ FAC-Neutral Test (D5)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Gauge or Well Data (D9)		
☐ Sparsely Vegetated Concave Surface (B8)	☐ Other (Explain in Remarks)		

Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)				Wetland Hydrology Present? Yes _____ No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:				
Remarks:				

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Midwest Region See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp:11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
--	---

Project/Site: Northeast of Wixom Rd and Stonebrook Dr. City/County: Novi, Oakland Co. Sampling Date: 4/30/2025
Applicant/Owner: Avalon Investment Group LLC State: MI Sampling Point: UP3
Investigator(s): ASTI - SPJ Section, Township, Range: Sec. 17, T01N, R08E
Landform (hillside, terrace, etc.): Depression Local relief (concave, convex, none): Concave
Slope (%): 3-4 Lat: 42.485242 Long: -83.533451 Datum: NAD 83
Soil Map Unit Name: Capac sandy loam NWI classification: None
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> </u> No <u>X</u> Hydric Soil Present? Yes <u> </u> No <u>X</u> Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
Remarks: Upland located in the south-central portion of the property.	

VEGETATION – Use scientific names of plants.

<u>Tree Stratum</u> (Plot size: <u>30ft</u>) 1. <u>Populus deltoides</u> Absolute % Cover <u>20</u> Dominant Species? <u>Yes</u> Indicator Status <u>FAC</u> 2. <u>Juglans nigra</u> Absolute % Cover <u>10</u> Dominant Species? <u>Yes</u> Indicator Status <u>FACU</u> 3. <u> </u> Absolute % Cover <u> </u> Dominant Species? <u> </u> Indicator Status <u> </u> 4. <u> </u> Absolute % Cover <u> </u> Dominant Species? <u> </u> Indicator Status <u> </u> 5. <u> </u> Absolute % Cover <u> </u> Dominant Species? <u> </u> Indicator Status <u> </u> 30 =Total Cover	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>7</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>28.6%</u> (A/B)
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15ft</u>) 1. <u>Elaeagnus umbellata</u> Absolute % Cover <u>30</u> Dominant Species? <u>Yes</u> Indicator Status <u>UPL</u> 2. <u>Pyrus calleryana</u> Absolute % Cover <u>10</u> Dominant Species? <u>Yes</u> Indicator Status <u>UPL</u> 3. <u>Lonicera tatarica</u> Absolute % Cover <u>10</u> Dominant Species? <u>Yes</u> Indicator Status <u>FACU</u> 4. <u> </u> Absolute % Cover <u> </u> Dominant Species? <u> </u> Indicator Status <u> </u> 5. <u> </u> Absolute % Cover <u> </u> Dominant Species? <u> </u> Indicator Status <u> </u> 50 =Total Cover	
<u>Herb Stratum</u> (Plot size: <u>5ft</u>) 1. <u>Phragmites australis</u> Absolute % Cover <u>40</u> Dominant Species? <u>Yes</u> Indicator Status <u>FACW</u> 2. <u>Solidago altissima</u> Absolute % Cover <u>10</u> Dominant Species? <u>Yes</u> Indicator Status <u>FACU</u> 3. <u> </u> Absolute % Cover <u> </u> Dominant Species? <u> </u> Indicator Status <u> </u> 4. <u> </u> Absolute % Cover <u> </u> Dominant Species? <u> </u> Indicator Status <u> </u> 5. <u> </u> Absolute % Cover <u> </u> Dominant Species? <u> </u> Indicator Status <u> </u> 6. <u> </u> Absolute % Cover <u> </u> Dominant Species? <u> </u> Indicator Status <u> </u> 7. <u> </u> Absolute % Cover <u> </u> Dominant Species? <u> </u> Indicator Status <u> </u> 8. <u> </u> Absolute % Cover <u> </u> Dominant Species? <u> </u> Indicator Status <u> </u> 9. <u> </u> Absolute % Cover <u> </u> Dominant Species? <u> </u> Indicator Status <u> </u> 10. <u> </u> Absolute % Cover <u> </u> Dominant Species? <u> </u> Indicator Status <u> </u> 50 =Total Cover	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>40</u> x 2 = <u>80</u> FAC species <u>20</u> x 3 = <u>60</u> FACU species <u>30</u> x 4 = <u>120</u> UPL species <u>40</u> x 5 = <u>200</u> Column Totals: <u>130</u> (A) <u>460</u> (B) Prevalence Index = B/A = <u>3.54</u>
<u>Woody Vine Stratum</u> (Plot size: <u>30ft</u>) 1. <u> </u> Absolute % Cover <u> </u> Dominant Species? <u> </u> Indicator Status <u> </u> 2. <u> </u> Absolute % Cover <u> </u> Dominant Species? <u> </u> Indicator Status <u> </u> =Total Cover	
Remarks: (Include photo numbers here or on a separate sheet.)	

SOIL

Sampling Point: UP3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-6	10YR 4/4	100					Loamy/Clayey	
6-13	10YR 4/3	95	10YR 4/6	5	C	M	Loamy/Clayey	Distinct redox concentrations
13-20	10YR 4/2	90	10YR 4/6	10	C	M	Loamy/Clayey	Prominent redox concentrations

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:	Indicators for Problematic Hydric Soils ³ :
☐ Histosol (A1)	☐ Coast Prairie Redox (A16)
☐ Histic Epipedon (A2)	☐ Iron-Manganese Masses (F12)
☐ Black Histic (A3)	☐ Red Parent Material (F21)
☐ Hydrogen Sulfide (A4)	☐ Very Shallow Dark Surface (F22)
☐ Stratified Layers (A5)	☐ Other (Explain in Remarks)
☐ 2 cm Muck (A10)	
☐ Depleted Below Dark Surface (A11)	
☐ Thick Dark Surface (A12)	
☐ Sandy Mucky Mineral (S1)	
☐ 5 cm Mucky Peat or Peat (S3)	
☐ Sandy Gleyed Matrix (S4)	
☐ Sandy Redox (S5)	
☐ Stripped Matrix (S6)	
☐ Dark Surface (S7)	
☐ Loamy Mucky Mineral (F1)	
☐ Loamy Gleyed Matrix (F2)	
☐ Depleted Matrix (F3)	
☐ Redox Dark Surface (F6)	
☐ Depleted Dark Surface (F7)	
☐ Redox Depressions (F8)	

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

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes _____ No <u>X</u>
Remarks:	

HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☐ Saturation (A3)	☐ True Aquatic Plants (B14)	☐ Dry-Season Water Table (C2)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Crayfish Burrows (C8)	
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres on Living Roots (C3)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Drift Deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Stunted or Stressed Plants (D1)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Geomorphic Position (D2)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☐ FAC-Neutral Test (D5)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Gauge or Well Data (D9)		
☐ Sparsely Vegetated Concave Surface (B8)	☐ Other (Explain in Remarks)		

Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Midwest Region See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp:11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
--	---

Project/Site: Northeast of Wixom Rd and Stonebrook Dr.
 Applicant/Owner: Avalon Investment Group LLC
 Investigator(s): ASTI - SPJ
 Landform (hillside, terrace, etc.): Depression
 Slope (%): 1-2 Lat: 42.486555
 Soil Map Unit Name: Capac sandy loam

City/County: Novi, Oakland Co.
 State: MI
 Section, Township, Range: Sec. 17, T01N, R08E
 Local relief (concave, convex, none): Concave
 Long: -83.533121
 NWI classification: PEM1A

Sampling Date: 4/30/2025
 Sampling Point: WT1
 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>
---	---

Remarks:
 Associated with scrub/shrub portion of Wetland A in the northern portion of the property.

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>30ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>None</u>				
2. <u> </u>				
3. <u> </u>				
4. <u> </u>				
5. <u> </u>				
			=Total Cover	
Sapling/Shrub Stratum	(Plot size: <u>15ft</u>)			
1. <u>Salix interior</u>		60	Yes	FACW
2. <u>Cephalanthus occidentalis</u>		10	No	OBL
3. <u> </u>				
4. <u> </u>				
5. <u> </u>				
		70	=Total Cover	
Herb Stratum	(Plot size: <u>5ft</u>)			
1. <u>Phalaris arundinacea</u>		25	Yes	FACW
2. <u>Phragmites australis</u>		10	Yes	FACW
3. <u>Lythrum salicaria</u>		10	Yes	OBL
4. <u> </u>				
5. <u> </u>				
6. <u> </u>				
7. <u> </u>				
8. <u> </u>				
9. <u> </u>				
10. <u> </u>				
		45	=Total Cover	
Woody Vine Stratum	(Plot size: <u>30ft</u>)			
1. <u>None</u>				
2. <u> </u>				
			=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>20</u>	x 1 = <u>20</u>
FACW species <u>95</u>	x 2 = <u>190</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>115</u> (A)	<u>210</u> (B)
Prevalence Index = B/A = <u>1.83</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.

Hydrophytic Vegetation Present? Yes X No

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

SOIL

Sampling Point: WT1

[illegible]

HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
☒ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☒ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☒ Saturation (A3)	☐ True Aquatic Plants (B14)	☐ Dry-Season Water Table (C2)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Crayfish Burrows (C8)	
☐ Sediment Deposits (B2)	☒ Oxidized Rhizospheres on Living Roots (C3)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Drift Deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Stunted or Stressed Plants (D1)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Geomorphic Position (D2)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☒ FAC-Neutral Test (D5)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Gauge or Well Data (D9)		
☐ Sparsely Vegetated Concave Surface (B8)	☐ Other (Explain in Remarks)		
Field Observations: Surface Water Present? Yes ☒ No ☐ Depth (inches): <u>1</u> Water Table Present? Yes ☒ No ☐ Depth (inches): <u>10</u> Saturation Present? Yes ☒ No ☐ Depth (inches): <u>8</u> (includes capillary fringe)			
Wetland Hydrology Present? Yes ☒ No ☐			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Midwest Region See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp:11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
--	---

Project/Site: Northeast of Wixom Rd and Stonebrook Dr.
 Applicant/Owner: Avalon Investment Group LLC
 Investigator(s): ASTI - SPJ
 Landform (hillside, terrace, etc.): Depression
 Slope (%): 1-2 Lat: 42.485761
 Soil Map Unit Name: Brookston and Colwood loams

City/County: Novi, Oakland Co.
 State: MI
 Section, Township, Range: Sec. 17, T01N, R08E
 Local relief (concave, convex, none): Concave
 Long: -83.534121
 NWI classification: NAD 83

Sampling Date: 4/30/2025
 Sampling Point: WT2
 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>
Remarks: Associated with forested portion of Wetland A in the southwestern portion of the property.	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>7</u> (A) Total Number of Dominant Species Across All Strata: <u>7</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																								
1. <u>Acer saccharinum</u>	40	Yes	FACW																									
2. <u>Quercus bicolor</u>	30	Yes	FACW																									
3. <u> </u>																												
4. <u> </u>																												
5. <u> </u>																												
	70	=Total Cover																										
Sapling/Shrub Stratum (Plot size: <u>15ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet: <table style="width:100%; border-collapse: collapse;"> <tr> <th style="width:40%;">Total % Cover of:</th> <th style="width:20%;">Multiply by:</th> <th style="width:40%;"></th> </tr> <tr> <td>OBL species <u>0</u></td> <td style="text-align: center;">x 1 =</td> <td style="text-align: center;">0</td> </tr> <tr> <td>FACW species <u>140</u></td> <td style="text-align: center;">x 2 =</td> <td style="text-align: center;">280</td> </tr> <tr> <td>FAC species <u>10</u></td> <td style="text-align: center;">x 3 =</td> <td style="text-align: center;">30</td> </tr> <tr> <td>FACU species <u>5</u></td> <td style="text-align: center;">x 4 =</td> <td style="text-align: center;">20</td> </tr> <tr> <td>UPL species <u>0</u></td> <td style="text-align: center;">x 5 =</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Column Totals: <u>155</u> (A)</td> <td></td> <td style="text-align: center;">330 (B)</td> </tr> <tr> <td colspan="3">Prevalence Index = B/A = <u>2.13</u></td> </tr> </table>	Total % Cover of:	Multiply by:		OBL species <u>0</u>	x 1 =	0	FACW species <u>140</u>	x 2 =	280	FAC species <u>10</u>	x 3 =	30	FACU species <u>5</u>	x 4 =	20	UPL species <u>0</u>	x 5 =	0	Column Totals: <u>155</u> (A)		330 (B)	Prevalence Index = B/A = <u>2.13</u>		
Total % Cover of:	Multiply by:																											
OBL species <u>0</u>	x 1 =	0																										
FACW species <u>140</u>	x 2 =	280																										
FAC species <u>10</u>	x 3 =	30																										
FACU species <u>5</u>	x 4 =	20																										
UPL species <u>0</u>	x 5 =	0																										
Column Totals: <u>155</u> (A)		330 (B)																										
Prevalence Index = B/A = <u>2.13</u>																												
1. <u>Fraxinus pennsylvanica</u>	20	Yes	FACW																									
2. <u>Quercus bicolor</u>	10	Yes	FACW																									
3. <u>Rhamnus cathartica</u>	10	Yes	FAC																									
4. <u> </u>																												
5. <u> </u>																												
	40	=Total Cover																										
Herb Stratum (Plot size: <u>5ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% <u>X</u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																								
1. <u>Lysimachia nummularia</u>	30	Yes	FACW																									
2. <u>Agrimonia parviflora</u>	10	Yes	FACW																									
3. <u>Parthenocissus quinquefolia</u>	5	No	FACU																									
4. <u> </u>																												
5. <u> </u>																												
6. <u> </u>																												
7. <u> </u>																												
8. <u> </u>																												
9. <u> </u>																												
10. <u> </u>																												
	45	=Total Cover																										
Woody Vine Stratum (Plot size: <u>30ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>																								
1. <u>None</u>																												
2. <u> </u>																												

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

SOIL

Sampling Point: WT2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-8	10YR 3/2	90	10YR 5/4	10	C	M	Loamy/Clayey	Distinct redox concentrations
8-14	10YR 4/2	80	10YR 3/6	20	C	PL/M	Loamy/Clayey	Prominent redox concentrations
14-20	10YR 5/2	70	10YR 5/6	20	C	M	Sandy	Prominent redox concentrations
			10YR 3/2	10	MS	M		loamy sand

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:		Indicators for Problematic Hydric Soils ³ :	
☐ Histosol (A1)	☐ Sandy Gleyed Matrix (S4)	☐ Coast Prairie Redox (A16)	
☐ Histic Epipedon (A2)	☐ Sandy Redox (S5)	☐ Iron-Manganese Masses (F12)	
☐ Black Histic (A3)	☐ Stripped Matrix (S6)	☐ Red Parent Material (F21)	
☐ Hydrogen Sulfide (A4)	☐ Dark Surface (S7)	☐ Very Shallow Dark Surface (F22)	
☐ Stratified Layers (A5)	☐ Loamy Mucky Mineral (F1)	☐ Other (Explain in Remarks)	
☐ 2 cm Muck (A10)	☐ Loamy Gleyed Matrix (F2)		
☒ Depleted Below Dark Surface (A11)	☒ Depleted Matrix (F3)		
☐ Thick Dark Surface (A12)	☒ Redox Dark Surface (F6)		
☐ Sandy Mucky Mineral (S1)	☐ Depleted Dark Surface (F7)		
☐ 5 cm Mucky Peat or Peat (S3)	☒ Redox Depressions (F8)		

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

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes ☒ No ☐
Remarks:	

HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☒ Saturation (A3)	☐ True Aquatic Plants (B14)	☐ Dry-Season Water Table (C2)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Crayfish Burrows (C8)	
☐ Sediment Deposits (B2)	☒ Oxidized Rhizospheres on Living Roots (C3)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Drift Deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Stunted or Stressed Plants (D1)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Geomorphic Position (D2)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☒ FAC-Neutral Test (D5)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Gauge or Well Data (D9)		
☐ Sparsely Vegetated Concave Surface (B8)	☐ Other (Explain in Remarks)		

Field Observations: Surface Water Present? Yes ☐ No ☒ Depth (inches): _____ Water Table Present? Yes ☐ No ☒ Depth (inches): _____ Saturation Present? Yes ☒ No ☐ Depth (inches): 12 (includes capillary fringe)	Wetland Hydrology Present? Yes ☒ No ☐
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Midwest Region See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp:11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
--	---

Project/Site: <u>Northeast of Wixom Rd and Stonebrook Dr.</u>	City/County: <u>Novi, Oakland Co.</u>	Sampling Date: <u>4/30/2025</u>
Applicant/Owner: <u>Avalon Investment Group LLC</u>	State: <u>MI</u>	Sampling Point: <u>WT3</u>
Investigator(s): <u>ASTI - SPJ</u>	Section, Township, Range: <u>Sec. 17, T01N, R08E</u>	
Landform (hillside, terrace, etc.): <u>Depression</u>	Local relief (concave, convex, none): <u>Concave</u>	
Slope (%): <u>1-2</u> Lat: <u>42.485825</u>	Long: <u>-83.532571</u>	Datum: <u>NAD 83</u>
Soil Map Unit Name: <u>Water</u>	NW1 classification: <u>PEM1Ad</u>	

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>
--	---

Remarks:
Associated with emergent portion of Wetland A in the southeastern portion of the property.

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>30ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>None</u>				
2. <u> </u>				
3. <u> </u>				
4. <u> </u>				
5. <u> </u>				
			=Total Cover	
Sapling/Shrub Stratum	(Plot size: <u>15ft</u>)			
1. <u>Salix interior</u>		<u>20</u>	<u>Yes</u>	<u>FACW</u>
2. <u> </u>				
3. <u> </u>				
4. <u> </u>				
5. <u> </u>				
		<u>20</u>	=Total Cover	
Herb Stratum	(Plot size: <u>5ft</u>)			
1. <u>Phragmites australis</u>		<u>35</u>	<u>Yes</u>	<u>FACW</u>
2. <u>Phalaris arundinacea</u>		<u>10</u>	<u>No</u>	<u>FACW</u>
3. <u>Solidago altissima</u>		<u>10</u>	<u>No</u>	<u>FACU</u>
4. <u> </u>				
5. <u> </u>				
6. <u> </u>				
7. <u> </u>				
8. <u> </u>				
9. <u> </u>				
10. <u> </u>				
		<u>55</u>	=Total Cover	
Woody Vine Stratum	(Plot size: <u>30ft</u>)			
1. <u>None</u>				
2. <u> </u>				
			=Total Cover	

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

SOIL

Sampling Point: WT3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-11	10YR 5/2	85	10YR 5/6	15	C	PL/M	Loamy/Clayey	Prominent redox concentrations
11-20	10YR 5/2	70	10YR 5/6	20	C	M	Loamy/Clayey	Prominent redox concentrations
			10YR 3/6	10	C	PL/M		Prominent redox concentrations

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:	Indicators for Problematic Hydric Soils ³ :
☐ Histosol (A1)	☐ Coast Prairie Redox (A16)
☐ Histic Epipedon (A2)	☐ Iron-Manganese Masses (F12)
☐ Black Histic (A3)	☐ Red Parent Material (F21)
☐ Hydrogen Sulfide (A4)	☐ Very Shallow Dark Surface (F22)
☐ Stratified Layers (A5)	☐ Other (Explain in Remarks)
☐ 2 cm Muck (A10)	
☐ Depleted Below Dark Surface (A11)	
☐ Thick Dark Surface (A12)	
☐ Sandy Mucky Mineral (S1)	
☐ 5 cm Mucky Peat or Peat (S3)	
☐ Sandy Gleyed Matrix (S4)	
☐ Sandy Redox (S5)	
☐ Stripped Matrix (S6)	
☐ Dark Surface (S7)	
☐ Loamy Mucky Mineral (F1)	
☐ Loamy Gleyed Matrix (F2)	
☒ Depleted Matrix (F3)	
☐ Redox Dark Surface (F6)	
☐ Depleted Dark Surface (F7)	
☒ Redox Depressions (F8)	

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

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes ☒ No ☐
Remarks:	

HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☒ Saturation (A3)	☐ True Aquatic Plants (B14)	☐ Dry-Season Water Table (C2)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Crayfish Burrows (C8)	
☐ Sediment Deposits (B2)	☒ Oxidized Rhizospheres on Living Roots (C3)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Drift Deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Stunted or Stressed Plants (D1)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Geomorphic Position (D2)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☒ FAC-Neutral Test (D5)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Gauge or Well Data (D9)		
☐ Sparsely Vegetated Concave Surface (B8)	☐ Other (Explain in Remarks)		

Field Observations: Surface Water Present? Yes ☐ No ☒ Depth (inches): _____ Water Table Present? Yes ☐ No ☒ Depth (inches): _____ Saturation Present? Yes ☒ No ☐ Depth (inches): 9 (includes capillary fringe)	Wetland Hydrology Present? Yes ☒ No ☐
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

PLANNING COMMISSION MINUTES

SEPTEMBER 10, 2025 EXCERPT



PLANNING COMMISSION MINUTES

CITY OF NOVI
Regular Meeting

September 10, 2025 7:00 PM

Council Chambers | Novi Civic Center
45175 Ten Mile Road, Novi, MI 48375 (248) 347-0475

CALL TO ORDER

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

ROLL CALL

Present: Chair Pehrson, Member Lynch, Member Dismondy, Member Avdoulos, Member Roney

Absent Excused: Member Verma

Staff: Elizabeth Saarela, City Attorney; Lindsay Bell, Senior Planner; Rick Meader, Landscape Architect; Humna Anjum, Project Engineer

PLEDGE OF ALLEGIANCE

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

APPROVAL OF AGENDA

Motion made by Member Lynch and seconded by Member Avdoulos to approve the September 10, 2025 Planning Commission Agenda.

VOICE VOTE ON MOTION TO APPROVE THE SEPTEMBER 10, 2025 PLANNING COMMISSION AGENDA MOVED BY MEMBER LYNCH AND SECONDED BY MEMBER AVDOULOS. *Motion carried 5-0.*

AUDIENCE PARTICIPATION

Chair Pehrson invited members of the audience who wished to address the Planning Commission during the first audience participation to come forward. Seeing no one, Chair Pehrson closed the first public audience participation.

CORRESPONDENCE

There was not any correspondence.

COMMITTEE REPORTS

There were no Committee reports.

CITY PLANNER REPORT

There was no City Planner report.

CONSENT AGENDA - REMOVALS AND APPROVALS

There were no consent agenda removals or approvals.

PUBLIC HEARINGS

1. JSP25-02 CAMELOT PARC TOWNHOMES

Public hearing at the request of Avalon Park Development, LLC, for recommendation to the City Council for Concept Plan approval under the Planned Suburban Low Rise Overlay provisions. The

subject property is located on the east side of Wixom Road, north of Eleven Mile Road (Section 17). The applicant is proposing 22 townhome units in five two-story buildings.

Senior Planner Lindsay Bell stated the subject property is located east of Wixom Road, south of Grand River Avenue and the Novi Promenade shopping center, and north of Stonebrook Drive in Section 17 of the City. The site is currently zoned R-1 Single Family with a Planned Suburban Low-Rise overlay. The overlay is denoted by the blue boundary and angled hatch on the Zoning Map.

The property on the north-west is zoned the same, with I-1 light industrial on the northeast, I-2 General Industrial with PSLR to the east and south, and R-1 Single-family residential on the west side of Wixom Road.

The Future Land Use map shows Suburban Low Rise for this property and those adjacent to the north and east. Community Commercial is shown to the north for the Novi Promenade retail center. Wildlife Woods Park is south of Stonebrook Drive. Single family uses are shown west of Wixom Road.

Planner Bell stated the applicant is proposing Low-rise multiple family residential units utilizing the PSLR overlay option which are otherwise not permitted under R-1. In the PSLR Overlay, low-rise multiple family residential uses are permitted as a special land use up to 6.5 dwellings per acre. As stated in the Ordinance: "The intent of the PSLR, Planned Suburban Low Rise Overlay district is to promote the development of high-quality uses, such as low-density multiple family residential, office, quasi-public, civic, educational, and public recreation facilities that can serve as transitional areas between low-intensity detached one-family residential and higher intensity office and retail uses while protecting the character of neighboring areas by encouraging high-quality development with single-family residential design features that will promote residential character to the streetscape." The PSLR district requires a Development Agreement between the property owner and the City of Novi, which may be approved by City Council following a recommendation from the Planning Commission. This is the same type of development agreement that the Villas of Stonebrook was approved under.

The subject property has regulated woodlands and wetlands on the property. The applicant's wetland report identified two other wetland areas that are not shown on the City's maps. A total area of 2.4 acres are identified. Of those, 0.37 acre are being impacted. A mitigation area of 0.61 acre is proposed in the northern portion of the site, which meets the City's wetland mitigation requirement. There are a total of 153 trees surveyed on site, 65 of which appear to be regulated woodland trees. 20 woodland trees, approximately 30%, are proposed to be removed, with all required replacement tree credits to be paid into the tree fund. City of Novi wetland and woodland permits will be required for the proposed impacts. Most of the trees along the existing berm on the southern property boundary are proposed to remain and supplemented with additional plantings.

The applicant is proposing 22 for-sale townhome units in 5 two-story buildings. The subject property is approximately 8.24 net acres, so the density is 2.7 dwelling units per acre. The concept plan indicates a walking path through the preserved woodland area. The main entry is through a driveway accessed from Stonebrook Drive. A secondary emergency access is provided to the west connecting to Wixom Road. Sidewalk connections to Wixom Road and Stonebrook Drive are proposed.

Planner Bell stated the Planning Commission may recall that this property had previously been proposed for a development a few years ago that included 46 apartment units in 3 buildings. One of the big concerns at that time was the open parking areas. The current proposal eliminates much of the surface parking by providing 2-car garages for each unit. The number of units has also been reduced by more than half. The access easement to the property from Stonebrook Drive was a condition of approval in the PSLR Agreement for the Villas at Stonebrook in order to limit the number of driveways with direct access to Wixom Road, in the interest of safety.

Planning recommends approval as the plan is in general conformance with the Ordinance requirements but would like to note that the design is deficient in active recreation areas to benefit future residents and other benefits to the public. However, a significant area of the site is proposed to remain wetland and

woodland areas, which limits the ability to add more active recreation. Preservation of those areas in conservation easements could be advised. Inclusion of benches for seating and a small trail loop are provided, and proximity to off-site connections to the City's Wildlife Woods Park and trail networks make up for passive and active recreation to some extent. The proposed layout minimizes the impact on natural features compared to previous layouts that proposed more units.

Two landscape waivers are requested for the absence of a landscaped berm and street trees along Wixom Road. These are supported by staff as providing the berm would require the removal of additional woodland trees and wetland impacts, which already provide the intended screening. And the existing pathway prevents planting of the street trees.

The City's façade consultant found the elevations provided are in conformance with the façade ordinance. Fire does not have any objections and will review for conformance at the time of site plan review.

All reviews are currently recommending approval with other items to be addressed with preliminary site plan submittal. If the PSLR plan and Agreement is approved by City Council, the site plan would require Planning Commission's approval for special land Use, preliminary site plan, wetland permit, woodland permit, and storm water management plan at a later time.

The Planning Commission is asked tonight to recommend approval or denial of the Planned Suburban Low-Rise (PSLR) Overlay Concept Plan to the City Council. The applicant Mr. Jim Polyzois and engineer Jared Kime and their team would like to talk briefly about the project. As always, staff will be glad to answer any questions you have for us, and our environmental consultant is also present.

Planner Bell stated the City Attorney would like to say a few words.

City Attorney Beth Saarela requested through the Chair to give the background on the access drive.

Beth Saarela stated the access drive was a requirement of the Villas of Stonebrook and will also serve this development. There is a public easement over the access drive to Wildlife Woods Park which allows anyone in the general public to use it to access the park. It was stated there is an existing oil well to which the owners of that site use the access drive to access their site.

Beth Saarela stated the background on why this road exists is that the Villas of Stonebrook, like this development, is a discretionary Planned Suburban Overlay Development. The Villas of Stonebrook is a discretionary development because it does not meet many of the standards of the City's Zoning Ordinance. It was noted the development required ten deviations from the Zoning Ordinance in order to be approved. Examples of the deviations include allowing buildings to front on approved private driveway, modifications to the front and side setbacks, reduction of the minimum distance between buildings by five feet, allowance of full time access drives to be connected to a section line road, to allow placement of street trees between the sidewalk and buildings, and several other deviations that do not meet the standards of the Zoning Ordinance. If it doesn't meet the standards of the Zoning Ordinance it cannot be approved unless there is a discretionary option. Pulte was the developer of the Villas of Stonebrook and utilized the Planned Suburban Overlay, which requires in exchange for deviations for the development to provide a public benefit. In order for there to be approval of a discretionary development the developer must show a public benefit. For this development there was no public benefit other than the granting of the public access road to the public park. The road is the only public benefit of the development without which the development could not have been approved. It was also a condition that the adjacent property would be required to use that same private driveway to access Wixom Road so there would not be another cut onto Wixom Road for health, safety, and welfare purposes.

Chair Pehrson invited the applicant to address the Planning Commission.

Jared Kime with Atwell stated approximately two years ago they came before the Planning Commission for a recommendation of approval of a 46-unit apartment complex. Once that recommendation was granted the project went before the City Council. Mr. Kime stated the City Council had different thoughts on how this area of the City should be developed, primarily moving away from rental units and toward a for sale product. He noted they listened to the City Council and retooled the layout. The project before the Planning Commission this evening is a for-sale townhome product with private garages for each of the residential units.

Mr. Kime stated the Villas of Stonebrook is to the east, Target borders the property to the north, and Deerfield Elementary to the south. He displayed a comparison of the existing and proposed conditions and noted they have worked the development around existing conditions to preserve the natural features as much as possible. The impacts to the woodlands and wetlands have been limited as much as possible and all of the mitigation for the impacted wetlands is occurring on the site itself.

Next, Mr. Kime summarized several highlights of the plan features. He noted they are well below the allowable density permitted on the site at 2.7 dwelling units per acre. The plan includes 22 units which is less than half of where they were at previously with the rental unit layout. The proposal includes for sale two-story townhomes with private garages. Additionally, 2.69 acres of open space with walking paths and trails along with bike racks is shown on the plan. From a traffic standpoint, the number of peak hour trips generated in both the A.M. and P.M. are well below the City's thresholds to perform a formal traffic study. He noted an update to the previous traffic study was completed to represent what those peak hour trips would be. The study showed there are a total of seven trips in the A.M. peak hour and a total of 10 trips in the P.M. hour. With the recent completion of the Wixom Road project which installed the left turn lane, there are no additional recommendations for the low amount of traffic that will be generated from the development.

Mr. Kime stated they recognize they are sharing and impacting a portion of the existing road that was developed and belongs to the Villas of Stonebrook homeowners' association. He stated they are proposing a proportionate share contribution towards the maintenance cost of Stonebrook Drive based on length of road that is shared up to the Camelot Parc entrance and the proportionate share of units that utilize the road. This equates to a 7% contribution toward the maintenance cost of Stonebrook Drive, which the developer is willing to participate in an agreement with the Villas of Stonebrook homeowners' association.

Mr. Kime touched on the architectural features of the buildings, noting four- and five-unit buildings are shown on the site plan. The elevations reflect a range of architectural materials and textures utilizing common residential products. He noted the townhomes will be a typical two-story residential product. Mr. Kime shared a rendering which illustrated the view of the townhomes that would be visible as you drive down Stonebrook Drive. He noted the townhomes will not be towering and there is great screening. A second overall view showed the connectivity to the ITC Corridor Trail through Wildlife Woods Park which provides connectivity for active recreation. Mr. Kime thanked the Planning Commission and stated he would be happy to answer any questions.

Chair Pehrson opened the public hearing and invited members of the audience who wished to speak to approach the podium.

Mr. Charles Bilyeu at 26548 Anchorage Court stated he is not opposed to development and was very active in the prior proposal. He noted he would like to give the developer credit as they have made significant improvements to what was proposed prior. However, there are still some significant shortcomings. Firstly, at the last City Council meeting there was a lot of discussion regarding how much involvement there was with Island Lake and Villas of Stonebrook. He stated there was not any involvement with the surrounding communities. The developer has not reached out to either one of the associations. Secondly, relating to the density, it was stated the density is still excessive for what the intent was of the PS LR. If you look at what is being proposed with the buildings, there are still some things with the character that do not match up with Island Lake or the Villas of Stonebrook. In particular the five-unit buildings are

not seen at Island Lake or Villas of Stonebrook. Island Lake is a combination of two-, three-, and four-unit buildings. Villas of Stonebrook consists of two-unit buildings. This creates a lot more density in the area as it is only five useable acres. They are trying to push as much as they can in there. This creates a lot of the deviations they are asking the Planning Commission to approve. If they were to narrow this down and simply make it four- and three-unit buildings, it would fit most of the code requirements and most of the deviations would go away. He noted that is the direction that needs to be taken. Finally, it was stated that this is being marketed as for sale townhomes but there is no plan for what the governance or oversight will be going forward. The neighboring communities all have strong oversight and governance. Without a plan, do we have a series on townhomes where everyone is on their own to keep up with it, what does this mean to the neighboring communities. In summary, Mr. Bilyeu stated this proposal is much closer but is not where it needs to be. He stated the developer needs to come back and talk to the neighboring communities, adjust the density, and fit the character of the PSLR.

Ms. Michelle Duprey at 48566 Windfall Road stated her presentation was done well in advance of the developers' comments this evening. At that time the presentation was prepared it was not known that the developer would be making a 7% contribution toward the road. With that being said, Mr. Duprey stated that she has been a 40-year resident of the City of Novi and has seen many changes in the development of the City. The Villas of Stonebrook offered a little bit of the idyllic setting that originally was remembered as Novi being. It was stated this was a little piece of land that was peaceful without a lot of traffic. I oppose the Camelot Parc development as it stands today. While the changes made from the previous submittal are appreciated the density is still too much for the lot size. However, the primary concern is the use of the private road. History tells us that Pulte made an agreement with the City that the road would provide the only entrance to Wildlife Park. Ms. Duprey stated the City took advantage of Pulte's offer. It was stated the pickleball courts have been so successful that the City has doubled the number of courts and provided more parking spaces. There are also two baseball diamonds, two soccer fields, and on any given weekend there is increased traffic and a buzz of activity on Stonebrook Drive. Traffic has increased threefold to the park with residents accessing the park through a private road that is maintained by the Villas of Stonebrook. It was stated the residents are responsible for the wear, tear, and maintenance of the private road. As it is private, there is no police protection to enforce speed limits or other safety issues. The lighting which paves the way to the park is paid for as well as maintenance of the grassy areas and landscape which beautifies the road. Now the developers would like to use the private road to accommodate the proposed Camelot Parc. There have been no formal talks to my knowledge of shared responsibility. I believe it is only fair and right to compensate the Villas of Stonebrook for the use of the private road. The road is only 25 feet wide and can narrowly accommodate two cars traveling side by side. Earthmovers and construction traffic traversing the narrow road will put an unfair burden and responsibility on the residents of the Villas of Stonebrook. I would ask the developers to consider the benefit of the private road and how they would like to be good neighbors in offering assistance in the maintenance of the road. Mr. Duprey stated at this time she rejects the current proposal due to the numerous road issues and the density on a small parcel of land.

Ms. Deborah Domke at 48801 Windfall Road stated there was an earlier version of this proposed development in 2023/2024 called Avalon Park Apartments and the developer was Wixom Road Development. The current 2025 version is called Camelot Parc Townhomes, and the developer is Avalon Park Development. It was stated the footprints of the two plans is identical. The area that was to be developed initially is the same area that is to be developed now. This means that the environmental problems that we have been dealing with all along are still going to be there, such as trying to build in the wetlands and woodlands. The reasons that the City Council denied essentially the same plan in January of 2024 are the same reasons I believe you should deny the plan now. The PSLR Development Agreement and the PSLR concept plan will not result in a substantial benefit to the ultimate users of the project and to the community given the density and scope of improvements. In relation to the underlying zoning the proposed type of density will place an undue burden upon the subject property, surrounding land, nearby property owners, and the natural environment due to proposed impacts to existing woodland and wetland natural features. In relation to the underlying zoning and the potential use as contemplated in the City's Master Plan the proposed development will cause a negative impact upon surrounding properties due to the proposed impacts on woodland and wetland natural features.

Ms. Domke stated there is an existing viable exit onto Wixom Road in the northwest corner of the property. The white farmhouse to the north has two existing curb cuts onto Wixom Road, this southernmost curb cut is not shown in the drawings. There is no need for an exit onto Stonebrook Drive that would involve cutting a sixty-foot wide opening out of the ten-foot berm already present.

Mr. Marty Hannigan at 48744 Windfall Road stated he objects to the proposed concept plan. It was stated the access easement dated August 7, 2023, was improperly created and wrongfully filed. Pulte was no longer the developer of the Villas of Stonebrook as of March 1, 2023. Pulte's construction and sales period set forth in the Master Deed and condominium documents and the rights reserved to create an easement expired on March 1, 2023. Therefore, Pulte could not have legally granted any access easement after their rights had expired. It was stated the co-owners of the Villas of Stonebrook will now have to file a quiet title action in circuit court if the property title shall be cleared of this encumbrance. Additionally, the location of Camelot Drive and the sixty-foot access easement for the road encroaches on the fifty-eight feet of existing open space preservation easement that exists on our property. The preservation easement was given to permanently protect the area from disturbance or destruction and shall be perpetually preserved. The Camelot Drive access road must be moved fifty-eight feet to the east to move it out of the preservation area. It was stated there is no recorded utility easement. The concept plans point to a sixty-foot access easement which is incorrectly labeled as a sixty-foot existing access and utility easement that is recorded in the liber 58854 page 508. When you read that access easement which is dated August 7, 2023, Pulte chose to grant an access road easement area only for road purposes. There is no mention of granting an easement for public or private utilities in that recorded easement or in the Master Deed. Lastly, we did not negotiate or agree to any such Stonebrook Drive maintenance contribution agreement or to a shared access plan as the developer has implied by including such language in the concept plan. The developer, by including the maintenance contribution calculation and narrative and the shared access on the concept plan, is simply attempting to accomplish access to Stonebrook Drive which cannot be done through the August 7, 2023 access easement. Mr. Hannigan requested that the Planning Commission reject the JSP25-02 concept plan.

Ms. Kelly Iguchi at 48674 Windfall Road stated she is in attendance tonight out of love for the community and is deeply concerned about what the proposed townhome development will take away. It was expressed when the home was purchased it was not just a financial decision. The home was a promise to family of safety, peace, and a childhood for her daughter surrounded by nature and a strong sense of community. It was stated a premium was paid for the location because of those values and now that promise feels threatened. Ms. Iguchi said one of her greatest joys is watching deer wander through the yard, hearing birds in the morning, and feeling connected to the natural world. If this land is cleared the beauty and wildlife that make this place special would disappear. The development will also have an impact on our schools. She stated families move to Novi for the quality of education, but overcrowding will hurt every child's experience. It was expressed that this is unfair to families who have already invested so much in being here. There will be disruption with the construction traffic and permanent loss of privacy and peace. We chose this neighborhood because it is safe and quiet. Finally, it was noted that Novi has plenty of open land. The question was posed as to why we are building in such a way that it destroys an established community and its natural surroundings. Ms. Iguchi asked the Planning Commission to protect what makes the neighborhood special and vote against this development.

Ann Nelke at 48646 Windfall Road stated to start she is not anti-development. She noted underneath the photos of the Mayor and the City Council are several goals both short term and long term. The first of those goals is to review woodland and wetland ordinances and make any necessary revisions to ensure we are balancing the protection of natural resources with development. Secondly, establish an environmental sustainability committee to study all aspects of environmental sustainability in the City and at a minimum develop an environmental sustainability action plan. Thirdly, review and update current board and commission structure and add new boards and commissions as appropriate to maximize opportunities for resident engagement and input to the City staff. It was stated that at times deviations are warranted. An example is where an area of former industrial blight is mitigated to allow something of value and enhancement to Novi and its residents, this is the Villas at Stonebrook. Ms. Nelke stated it is understood that an easement was granted for the Wildlife Park which was for public benefit. Ms. Nelke

stated she would gladly help Novi achieve the City Council's short- and long-term goals and serve as a resident member of the stated board commission on its commitment to thoughtful, sustainable, harmonious housing which ensures protection of our new residents as well as for future generations.

Ms. Grace Wilfong at 48672 Rockview Road stated she has been a resident of Novi for a long time. She expressed a few things that have been noticed which need to be addressed. First, there is no room for a backyard. Secondly, one of the buildings is in the middle of a wetland. This building will separate the wetlands and interfere with the existing wetlands. It was expressed there is no reason seen as to why one of the two curb cuts on Wixom Road cannot be used as opposed to using Stonebrook Drive.

Mr. Steve Potocsky at 48849 Rockview Road stated he is currently serving as the president of the Villas of Stonebrook homeowners association. First, he inquired if the units would have basements. It was confirmed that the units will have basements. Mr. Potocsky stated that the issue of lack of communication needs to be addressed. It was noted at the last meeting when Avalon Park was approved by the Planning Commission that the City Attorney requested the developer contact the board of the Villas of Stonebrook as well as Island Lake. Mr. Potocsky stated it has been two years, and no correspondence has been received. The document which refers to a seven percent contribution toward the road should be discussed if the development comes about. He expressed that they are not anti-development but are in support of safe and fair growth. This proposal as it stands fails that test.

Mr. Mike Kasnick at 26391 Fieldstone stated he is the Island Lake Arbors president. He inquired what the price point of the townhomes will be. He expressed that many HOA's do not have a rental cap built into their documents. It was stated the Arbors is struggling with the number of rentals. There is concern that the townhomes could be purchased by investors and turned into rentals which is not the intent of this property. It was asked if consideration might be made in the original documentation of the by-laws to create a rental cap as rentals are not treated the same as units in which the owners reside in.

Seeing no others, Chair Pehrson requested the correspondence received be read into the record. Member Lynch stated there were 160 objections primarily from Island Lake and the Villas of Stonebrook.

Chair Pehrson closed the public hearing and turned the matter over to the Planning Commission for consideration.

Member Lynch stated he voted against the original proposal due to the apartment buildings not fitting into the area. He noted he is glad to see when it went before the City Council that decision was supported. It was stated the developer has come back with a much better project of townhomes. Most of the deviations are for the reason of protecting the wetlands and woodlands. Member Lynch expressed he would like to see it encumbered by a conservation easement.

Member Lynch stated based on the renderings, the townhomes are about 1,800 to 1,900 square feet above grade. He inquired if there will be a finished lower level.

Mr. Polyzois stated finishing of the lower level will be an option. Additionally, the units will have a covered patio.

Member Lynch stated regarding the covered patio and associated deviation his preference is to see the preservation of the wetlands over expansion. He expressed appreciation to the developer for going back and modifying the proposal. It was inquired of the developer if trees could be planted on site as opposed to a contribution to the tree fund.

Mr. Polyzois stated he is willing to work with the City's landscape architect regarding the planting of trees on the site.

Member Dismondy inquired if the density of 2.7 dwelling units per acre includes the wetlands.

Planner Bell confirmed it does include wetlands.

Member Dismondy stated one aspect that was overlooked with the PSLR is the public benefit and inquired what the public benefit is.

Planner Bell stated the public benefit was not a large part of this review and the offer of a conservation easement could be considered.

Member Roney stated he was not in favor of the previous proposal. He expressed this plan makes more sense and noted this is well within the scope of what could be built as it does conform to the PSLR. He noted he appreciated Member Lynch's comments regarding the conservation easement. There are a good number of deviations but most of them are in order to preserve the wetlands and woodlands. He stated he is in support.

Member Avdoulos stated he appreciates the residents coming forward and expressing their concerns. It is not something that is negated, we listen and try to understand both sides. As indicated, no one is against development, but our charge is to ensure the developers that come forward are following the ordinance. The current property has a PSLR overlay which is existing, similar to the Villas of Stonebrook. It was noted the project has a limited amount of impact on the site and most of the development is planned to the south with a large portion of the property left as is.

Member Avdoulos shared that he was on the board when the Villas of Stonebrook came forward and felt that development was more dense than he personally would have expected but it was following the ordinance. He noted having the lower density as mentioned is appropriate and positive. Looking at the sketches, the architecture blends in with the aesthetics of the Villas of Stonebrook as well as the Island Lake townhomes. It was asked of the developer what the price point will be.

Mr. Polyzois stated the price point will be north of \$500,000.

Member Avdoulos conveyed that some have indicated that these developments may have an effect on property values. From what has been observed, these developments next to other developments actually help property values go up, especially if the quality is there. He expressed appreciation for what they have done.

Chair Pehrson stated there was a comment made about property titles.

City Attorney Beth Saarela stated she would like to clarify the requirements of the original PSLR agreement and the private road. The original PSLR agreement for the Villas of Stonebrook not only required the public road it also stated the developer shall provide an access easement on the north side of the proposed entry drive as shown on the PSLR concept plan for future connection capability to neighboring properties to eliminate multiple exits onto Wixom Road. Not only was the public access required, private access for this property was also a requirement of that development. The development would not have been approved without it. There was a question about not being in the property title which is also not accurate. When all the units were sold, the property owners would have been given the Master Deed. It is the document that controls all of the title restrictions on the property. The Master Deed incorporated by reference the PSLR agreement that is being discussed with all the requirements. Owners of the units in the Villas of Stonebrook may go back to the Master Deed document and reference sections 4.6, 4.8, and 6.5 to see that the PSLR development agreement is incorporated into the Master Deed. This notifies that all the easements will be granted by the developer. If there was a quiet title action that cleared an easement what the City would then have to do is go back and get the same easement from the condominium association because it is a requirement of the development agreement and the site plan. If it wasn't granted there would then be a site plan violation that could be taken to court.

Chair Pehrson stated there was mention of a rental cap.

City Attorney Beth Saarela stated that the rental cap would be discretionary with the developer.

Chair Pehrson inquired of the developer if a rental cap had been considered.

Mr. Polyzois stated he had not considered a rental cap due to the price point of the units. When the unit is treated as a non-homestead the taxes will be considerably higher. He stated it is something that can be looked into further, but it is not something he is looking to impose.

Chair Pehrson stated he agrees with the additional tree planting on the property and the record will reflect the desire for those additional plantings as well as the conservation easement. He noted the other point that was brought up several times is the lack of communication between the developer and the neighboring communities.

Mr. Polyzois stated when the journey with this property began three to four years ago the Planning Department provided Mr. Potocsky's contact information. Mr. Polyzois expressed he reached out to Mr. Potocsky and a meeting was coordinated. Several residents from both the Villas of Stonebrook and Island Lake attended the meeting. Mr. Polyzois stated he told them what the vision was for the property. There was communication up to and through the approval at the Planning Commission meeting for the apartment complex and rejection at City Council. After which there was not a need to engage until earlier this year when it was communicated that the plan had been changed to twenty-four for sale townhome units. Mr. Potocsky expressed he was still not in favor and would prefer duplex units similar to the Villas at Stonebrook. Many months later the plan was revised down to twenty-two units, and a text was sent notifying Mr. Potocsky that the plans had been revised.

Chair Pehrson stated he appreciates the ability to reach out. He noted in a case like this we could always do a better job communicating. He is in agreement that the revised plan fits the area with much less density and believes this is a viable plan.

Motion to recommend approval of the Planned Suburban Low-Rise (PSLR) Overlay Development Agreement Application and Concept Plan to the City Council made by Member Avdoulos and seconded by Member Lynch.

In the matter of Camelot Parc Townhomes JSP25-02, motion to recommend approval of the Planned Suburban Low-Rise (PSLR) Overlay Development Agreement Application and Concept Plan based on the following findings, City Council deviations, and conditions:

- 1. The PSLR Overlay Development Agreement and PSLR Overlay Concept Plan will result in a recognizable and substantial benefit to the ultimate users of the project and to the community. *[The applicant proposes a walking trail through a 0.77acre area of woodland to be preserved, which is 0.05 acre short of the 10% site area requirement. There is also a requirement for 200 square feet of private open space per unit that is not fully provided, but each unit will have a covered porch of about 125 square feet. There are benches in separate locations as enhancements of the common open spaces shown on the site. Since so much of the property is wetland area and wetland mitigation to be preserved in Conservation Easements, it is difficult to achieve some of the "active" open space requirements. The site would have a connection to Wildlife Woods Park, the extensive pathway system within Ascension Providence Park hospital campus to the east and ITC Trail.]***
- 2. In relation to the underlying zoning or the potential uses contemplated in the City of Novi Master Plan, the proposed type and density of use(s) will not result in an unreasonable increase in the use of public services, facilities and utilities, and will not place an unreasonable burden upon the subject property, surrounding land, nearby property owners and occupants, or the natural environment. *[The estimated number of daily vehicle trips is 132, which is less than the 750 trip threshold for a Traffic Study. Peak hour trips also do not reach the threshold of 100 trips (Estimated: 5 peak hour AM trips, 10 peak hour PM trips). The proposed use is expected to have minimal impacts on the use of public services,***

- facilities, and utilities over what the underlying zoning would allow. The proposed concept plan impacts about 0.37 acres of existing 2.41 acres of wetlands and proposes removal of approximately 20 of the regulated woodland trees. The plan indicates appropriate mitigation measures on-site and payment into the Tree Fund for the replacement credits.]*
3. In relation to the underlying zoning or the potential uses contemplated in the City of Novi Master Plan, the proposed development will not cause a negative impact upon surrounding properties. *[The proposed buildings are buffered by landscaping and preserved natural features. The multi-family residential use is a reasonable transition from the two-family and one-family developments to the west, east and south and the commercial shopping center to the north.]*
 4. The proposed development will be consistent with the goals and objectives of the City of Novi Master Plan, and will be consistent with the requirements of this Article [Article 3.1.27]. *[The proposed development could help provide for missing middle housing needs that are walkable to the commercial areas to the north, which is recommended in the City's Master Plan for Land Use. The area was included in the PSLR overlay in the Master Plan and Zoning Ordinance, which permits multiple-family uses as a special land use. The proposed arrangement of buildings and site layout minimizes the impact on existing natural features.]*
 5. City Council deviations for the following (as the Concept Plan provides substitute safeguards for each of the regulations and there are specific, identified features or planning mechanisms deemed beneficial to the City by the City Council which are designed into the project for the purpose of achieving the objectives for the District as stated in the planning review letter):
 - a. Deviation from Sec. 3.21.2.A.i to allow development to front on an approved private drive, which does not conform to the City standards with respect to required sixty foot right-of-way, as the road was previously approved for the Villas at Stonebrook development, and because the shared access reduces the number of curb cuts on Wixom Road;
 - b. Deviation from Sec. 3.21.2.A.ii.d. to allow two buildings to be a minimum of 25 feet apart (minimum 30 feet required) as the remaining buildings are properly spaced, and the 5-foot deviation is relatively minor;
 - c. Deviation from Sec. 3.21.2.A.iii.c. to allow parking spaces to be within 8 feet of a building (15 feet minimum required), as they are no closer than the driveway parking permitted;
 - d. Deviation from Sec. 3.21.2.A.v to allow a reduction in the minimum required private open space (4,400 square feet total required, 2,750 square feet provided), as constructing additional private open space would cause greater wetland and woodland impacts;
 - e. Deviation from Sec. 3.21.2.A.v to allow reduction of minimum percentage of active recreation areas (50% of open spaces required, approximately 29% provided), and less than 10% of the total site (9.4% proposed), as the development proposes connection to Wildlife Woods Park, which contains connections to the Providence and the ITC trail systems, and providing additional active recreation would cause greater wetland and woodland impacts;
 - f. Deviation from Sec. 3.21.2.A.iii and Sec. 5.5.3 to allow absence of required landscaped berm along Wixom Road north of the emergency access drive due to resulting woodland impacts and there is no development proposed in that area. In addition, the berm south of the access drive is not long enough to provide undulation.
 - g. Deviation from Sec. 3.6.2.M to allow deficiencies in the required 25-foot wetland buffers north of Avalon Drive, with the condition that the developer install signage and plantings to prevent mowing and other disturbance.
 - h. Deviation from Sec. 5.5.3.B(10) to allow a deficiency in street trees along Wixom Road, as the existing utility easements and pathway do not provide room for them.
 - i. Deviation from Sec. 5.10.1.B.ii to allow a minor drive to exceed 600 feet, because the anticipated traffic for 22 units is low and a major drive would require wider road

width and not permit perpendicular visitor parking, and would be unnecessary for this small site and cause greater impacts to natural features.

- j. Deviation from Sec. 4.04, Article IV, Appendix C-Subdivision ordinance of City Code of Ordinances for absence of a stub street required at 1,300 feet intervals along the property boundary to provide connection to the adjacent property boundary, due to conflict with existing wetlands and woodlands.
- k. Deviation from Design and Construction Standards to allow sidewalks to be placed adjacent to the curbed roadway, as to locate them further from the road would cause greater impacts to natural features, and traffic volume and speeds are low.
- l. Deviation from Code of Ordinances, Section 11-256, to allow an absence of sidewalks in some areas north of Avalon Drive, as there are no buildings adjacent to those areas, and building the sidewalks would cause greater impacts to wetlands.
- m. The findings of compliance with Ordinance standards in the staff and consultant review letters and the conditions and the items listed in those letters being addressed on the Preliminary Site Plan.

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

ROLL CALL VOICE VOTE ON MOTION TO RECOMMEND APPROVAL OF THE PLANNED SUBURBAN LOW-RISE (PSLR) OVERLAY DEVELOPMENT AGREEMENT APPLICATION AND CONCEPT PLAN TO THE CITY COUNCIL MOVED BY MEMBER AVDOULOS AND SECONDED BY MEMBER LYNCH. Motion carried 4-1 (Dismondy).

2. TEXT AMENDMENT 18.306 – PROPOSED AMENDMENTS TO CAR WASH STANDARDS

Public hearing for Text Amendment 18.306 to reclassify auto washes from Principal Permitted Uses to Special Land Uses in the B-3 District subject to new conditions, and to amend various additional sections of the ordinance as determined necessary.

Senior Planner Lindsay Bell stated earlier this year, the Ordinance Review Committee (ORC) requested Staff look into the current Zoning Ordinance standards for Car Wash facilities.

In recent years, the City has received many inquiries to develop car wash facilities. The proliferation of this use is a nation-wide trend. Today about 80% of car washes are done at a commercial facility compared to about 50% in the 1990s. In addition, the car wash model is very attractive to investors because the low labor requirements and convenient membership models bring in big annual returns. Some forecasts predict that the number of car washes in the U.S. will double by 2030.

The risk of continuing the trend to build more car washes is oversaturation of the market, with the revenue of existing car washes decreasing with each new one that opens as they compete for customers. Due to the specific design of a car wash building, if the business closes, it could be difficult to repurpose the structure for another use.

In the City of Novi, Auto Washes are a principal permitted use only in the B-3 General Business District. There are no specific use standards except for the requirement that they are completely enclosed in a building. Otherwise, they are expected to comply with the requirements of the B-3 District for building and parking setbacks, and building height (Section 3.1.12).

Section 3.10 contains Required Conditions for the B-1, B-2 and B-3 Districts, and states that overhead/service bay doors shall not face a major thoroughfare nor an abutting residential district. Car washes often must seek a variance from the Zoning Board of Appeals for this condition because of the long tunnel design typical of car wash buildings with an entrance and exit door make it difficult to avoid having one overhead door facing the road. Modern car washes often have outdoor vacuum stations as an accessory use, which does require an outdoor component.