

City of Plymouth Planning Commission Regular Meeting Agenda

Wednesday, March 13, 2024 – 7:00 p.m. City Hall & Online Zoom Webinar

City of Plymouth 201 S. Main Plymouth, Michigan 48170 www.plymouthmi.gov Phone 734-453-1234

https://us02web.zoom.us/j/89450460839

Passcode: 896122

Webinar ID: 894 5046 0839

- 1. CALL TO ORDER
 - a) Roll Call
- 2. CITIZENS COMMENTS
- 3. APPROVAL OF THE MINUTES
 - a) Approval of the February 14, 2024 meeting minutes
- 4. APPROVAL OF THE AGENDA
- 5. COMMISSION COMMENTS
- 6. PUBLIC HEARINGS
 - a) SP24-02: 413 N. Main, Special Land Use and Site Plan Review
- 7. OLD BUSINESS
 - a) PUD23-01: 1100 W. Ann Arbor Trail, Revised Preliminary PUD
- 8. **NEW BUSINESS**
 - a) SP24-03: 980 W. Ann Arbor Road, Signage
- 9. REPORTS AND CORRESPONDENCE
- 10. ADJOURNMENT

<u>Citizen Comments</u> - This section of the agenda allows up to 3 minutes to present information or raise issues regarding items not on the agenda. Upon arising to address the Commission, speakers should first identify themselves by clearly stating their name and address. Comments must be limited to the subject of the item.

Meetings of the City of Plymouth are open to all without regard to race, sex, color, age, national origin, religion, height, weight, marital status, disability, or any other trait protected under applicable law. Any individual planning to attend the meeting who has need of special assistance under the Americans with Disabilities Act (ADA) should submit a request to the ADA Coordinator at 734-453-1234 ext. 234 at least two working days in advance of the meeting. The request may also be submitted via mail at 201 S. Main St. Plymouth, MI 48170, or email to clerk@plymouthmi.gov.

GOAL AREA ONE - SUSTAINABLE INFRASTRUCTURE

OBJECTIVES

- 1. Identify and establish sustainable financial model(s) for major capital projects, Old Village business district, 35th District Court, recreation department, and public safety
- 2. Incorporate eco-friendly, sustainable practices into city assets, services, and policies; including more environmentally friendly surfaces, reduced impervious surfaces, expanded recycling and composting services, prioritizing native and pollinator-friendly plants, encouraging rain gardens, and growing a mature tree canopy
- 3. Partner with or become members of additional environmentally aware organizations
- 4. Increase technology infrastructure into city assets, services, and policies
- 5. Continue sustainable infrastructure improvement for utilities, facilities, and fleet
- 6. Address changing vehicular habits, including paid parking system /parking deck replacement plan, electric vehicle (EV) charging stations, and one-way street options

GOAL AREA TWO – STAFF DEVELOPMENT, TRAINING, AND SUCCESSION

OBJECTIVES

- 1. Create a 5-year staffing projection
- 2. Review current recruitment strategies and identify additional resources
- 3. Identify/establish flex scheduling positions and procedures
- 4. Develop a plan for an internship program
- 5. Review potential department collaborations
- 6. Hire an additional recreation professional
- 7. Review current diversity, equity, and inclusion training opportunities
- 8. Seek out training opportunities for serving diverse communities

GOAL AREA THREE - COMMUNITY CONNECTIVITY

OBJECTIVES

- 1. Engage in partnerships with public, private and non-profit entities
- 2. Increase residential/business education programs for active citizen engagement
- 3. Robust diversity, equity, and inclusion programs
- 4. Actively participate with multi-governmental lobbies (Michigan Municipal League, Conference of Western Wayne, etc.)

GOAL AREA FOUR - ATTRACTIVE, LIVABLE COMMUNITY

OBJECTIVES

- 1. Create vibrant commercial districts by seeking appropriate mixed-use development, marketing transitional properties, and implementing Redevelopment Ready Communities (RRC) practices
- 2. Improve existing and pursue additional recreational and public green space opportunities and facilities for all ages
- 3. Develop multi-modal transportation plan which prioritizes pedestrian and biker safety
- 4. Improve link between Hines Park, Old Village, Downtown Plymouth, Plymouth Township, and other regional destinations
- 5. Maintain safe, well-lit neighborhoods with diverse housing stock that maximizes resident livability and satisfaction
- 6. Modernize and update zoning ordinance to reflect community vision
- 7. Implement Kellogg Park master plan

Planning Commission 2024 Goals

- 1. Complete the master plan review
- 2. Engage in a training session
- 3. Review a compatibility ordinance

"The government in this community is small and accessible to all concerned."

-Plymouth Mayor Joe Bida November 1977

City of Plymouth Planning Commission Public Hearing Notice

201 S. Main Street Plymouth, Michigan 48170 Website: www.plymouthmi.gov Phone: (734) 453-1234 ext. 232

A regular meeting of the Planning Commission will be held on Wednesday, March 13, 2024, at 7:00 P.M. located at City Hall and online via Zoom to consider the following:

SP 24-02: 413 N. Main, Special land use and site plan review for expansion of outdoor dining area

Meetings of the City of Plymouth are open to all without regard to race, sex, color, age, national origin, religion, height, weight, marital status, disability, or any other trait protected under applicable law. Any individual planning to attend the meeting who has need of special assistance under the Americans with Disabilities Act (ADA) should submit a request to the ADA Coordinator at 734-453-1234 ext. 234 at least two working days in advance of the meeting. The request may also be submitted via mail at 201 S. Main St. Plymouth, MI 48170, or email to clerk@plymouthmi.gov.

Publish: Tuesday, February 27, 2024



Plymouth Planning Commission Regular Meeting Minutes Wednesday, February 14, 2024 - 7:00 p.m. Plymouth City Hall 201 S. Main

City of Plymouth www.plymouthmi.gov 734-453-1234 Plymouth, Michigan 48170-1637

1. CALL TO ORDER

Chair Karen Sisolak called the meeting to order at 7:00 p.m.

Present: Chair Sisolak, Vice Chair Scott Silvers, Commissioners Sidney Filippis, Zachary Funk, Joe Hawthorne, Trish Horstman, Kyle Medaugh

Excused: Member Hollie Saraswat, and Eric Stalter

Also present: Planning and Community Development Director Greta Bolhuis, Planning Consultant Sally Elmiger

2. CITIZENS COMMENTS

There were no citizen comments

3. APPROVAL OF MEETING MINUTES

Silvers offered a motion, seconded by Funk, to approve the minutes for the January 10, 2024, meeting. Medaugh asked that the minutes be amended to indicate that he was not present.

There was a voice vote. MOTION PASSED

4. APPROVAL OF THE AGENDA

Hawthorne offered a motion, seconded by Silvers, to approve the agenda for February 14, 2024.

There was a voice vote.

MOTION PASSED

5. COMMISSION COMMENTS

There were no commission comments.

6. PUBLIC HEARINGS

a. RZ24-01: 353 Starkweather, Conditional rezoning request from O-1, Office Service District to RT-1, Two Family Residential

Sisolak opened the public hearing at 7:05 p.m.

Applicant Harold Polemitis described his rationale for requesting rezoning for his building, which has been used for his business. He said he no longer needs the entire building for office space and was considering moving his family there.

Drake Filippis, 697 Ann, said he supported the rezoning.

Sisolak closed the public hearing at 7:09 p.m.

Elmiger reminded the group that in conditional rezonings, the applicant offers the conditions.

There was a discussion about parking, signage, and retaining the character of the home.

Motion

Silvers offered a motion, seconded by Horstman for RZ24-01 – 353 Starkweather to recommend to that the City Commission to approve a conditional rezoning from O-1 to RT-1.

Findings of Fact

The proposal aligns with the Master Plan.

In future land use maps, the multi-family, low density category is associated with the RT-1, two family residential zoning district.

The proposed action will advance the vision the city has set forth in its master plan.

Conditions

The permitted use is limited to two-family or single-family detached dwellings.

The permitted use on the subject site is limited to home occupations subject to the provisions of 78-212.

There was a voice vote.

MOTION PASSED

b. Amendment to Zoning Ordinance 78-127, Projections into Setbacks

Sisolak opened the public hearing at 7:29 p.m.

Pete Mundt, 643 N. Harvey, asked whether the amendment would restrict or expand the space where generators can be located. Silvers explained that the amendment would only define it for the first time.

Sisolak closed the public hearing at 7:31 p.m.

Silvers offered a motion, seconded by Filippis, to send the generator ordinance section 78-217 to the City Commission for review and approval.

There was a voice vote.

MOTION PASSED

7. OLD BUSINESS

a. PUD22-01: 100 S. Mill, PUD Extension

Bolhuis explained that the Planning Commission already approved the site plan, but the builder has not taken it to the City Commission because they have been working on difficulties with the water connection.

Silvers offered a motion, seconded by Medaugh, to approve a one-year extension to the PUD site plan, to end on November 9, 2024, and that the City Commission review and approve the extension.

There was a voice vote MOTION PASSED

8. NEW BUSINESS

a. SP 24-01: 165 Liberty, Site Plan Review

Applicant Sharon Watson said she had received a variance for parking from the Zoning Board of Appeals. She distributed photos of her signs and offered to answer questions.

Drake Filippis, 697 Ann, said he supported the plan.

Motion

Silvers offered a motion, seconded by Hawthorne, to approve SP24-01 for site plan review.

Findings of Fact

The application meets all requirements of the master plan.

The project has passed the ZBA for concerns mentioned in previous meetings.

Condition

The applicant is to abide by recommendations contained within the Carlisle Wortman report.

There was a voice vote.

MOTION PASSED

b. 2024 Planning Commission Goals

Bolhuis reviewed her recommendations and said that the suggested public participation plan would be a city-wide effort. After a discussion, the group agreed on the following goals:

- Complete the master plan review
- Engage in a training session
- Review a compatibility ordinance

9. REPORTS AND CORRESPONDENCE

City Commission Liaison Brock Minton said the strategic plan's one-year tasks had been approved.

Sisolak gave a report on the engagement subcommittee, and Silvers gave a report on the future land use subcommittee.

10. ADJOURNMENT

Silvers offered a motion, seconded by Sisolak, to adjourn the meeting at 8:10 p.m.

There was a voice vote.

MOTION PASSED

CITY OF PLYMOUTH

SITE PLAN REVIEW APPLICATION

Community Development Department
201 S. Main Street Plymouth, MI 48170
Ph. 734-453-1234 ext. 232

www.plymouthmi.gov

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	V. Historic District is this project located in the				
Historic Di					
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VII	. Applicant Signature				
Sign	hure of Applicant		Date 2.18.	14	
VII	II. Property Owner Signature				
Sign	ature of Property Owner		Date 07. 20	2. 2	4
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1.	Pre-Application Meeting				
2.	Digital Copy of Application Package				+
3.	Public Hearing Notice				
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4.	CWA Review			8 9 9	
4. 5.	CWA Review Municipal Services Review				
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compositionworkshop architecture + interior design

21.September.23

John Buzuvis **Economic Development Director** City of Plymouth 201 S Main, Plymouth, MI 48170

Re:

413 N. Main Street

Aqua Restaurant - outdoor dining

Plymouth, Michigan

Mr. Buzuvis:

My Architect, James Korf (Composition Workshop, Inc) has the authority to file any required documentation on my behalf.

Any direct correspondence or questions regarding this matter should be directed to

Composition Workshop.

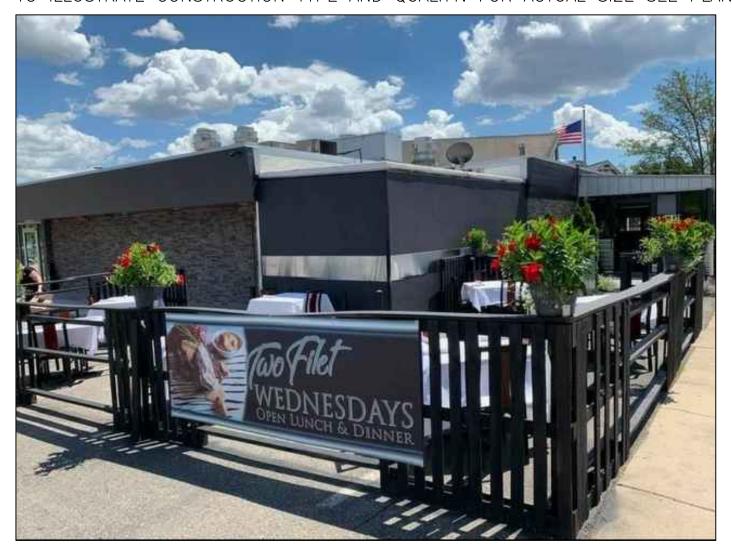
Sincerely

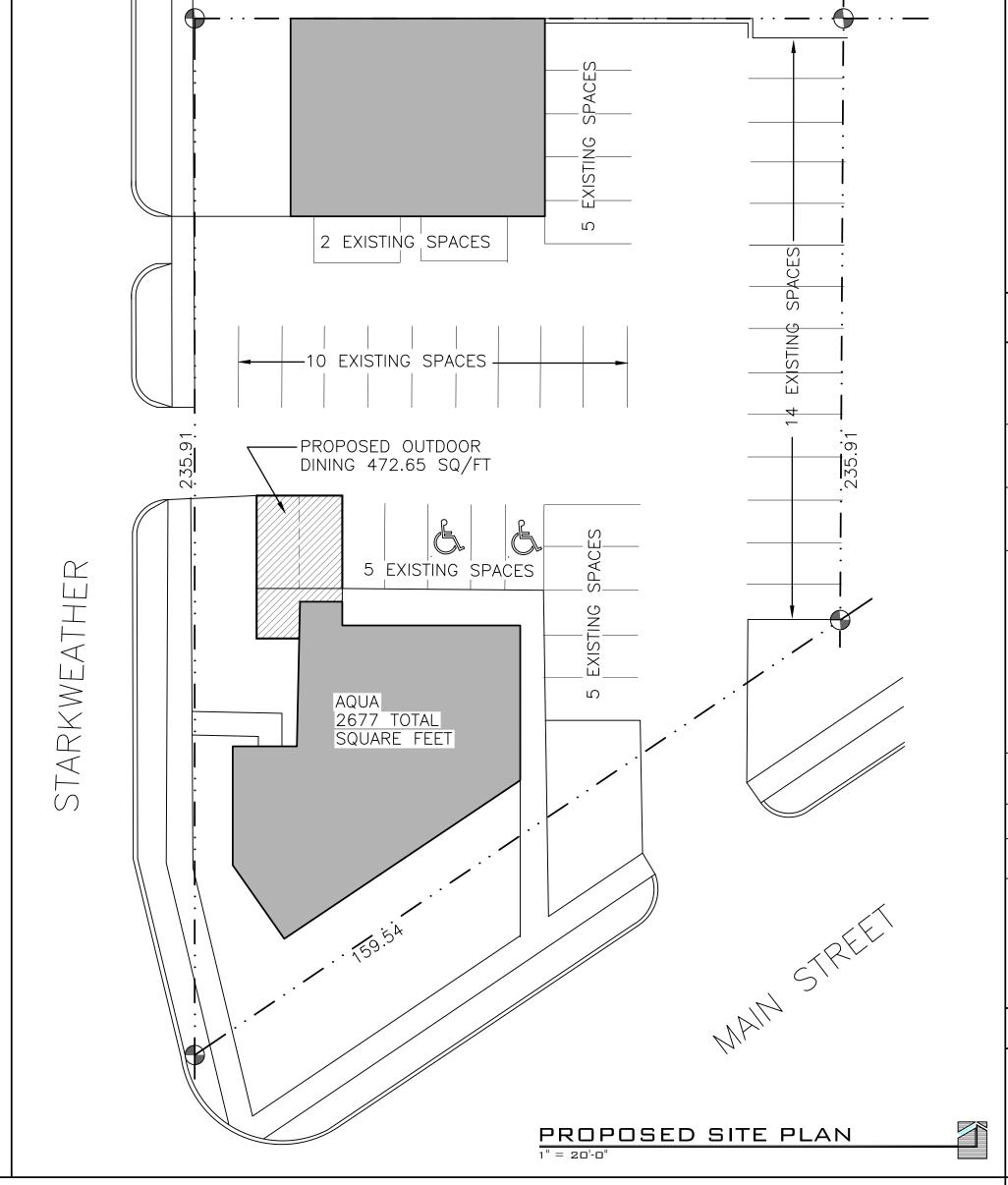
Victor Nikollbibaj Owner, Aqua

2.18.24 Date:



* PICTURES SHOWN ARE OF A PREVIOUS INSTALLATION AND ARE SHOWN TO ILLUSTRATE CONSTRUCTION TYPE AND QUALITY. FOR ACTUAL SIZE SEE PLAN



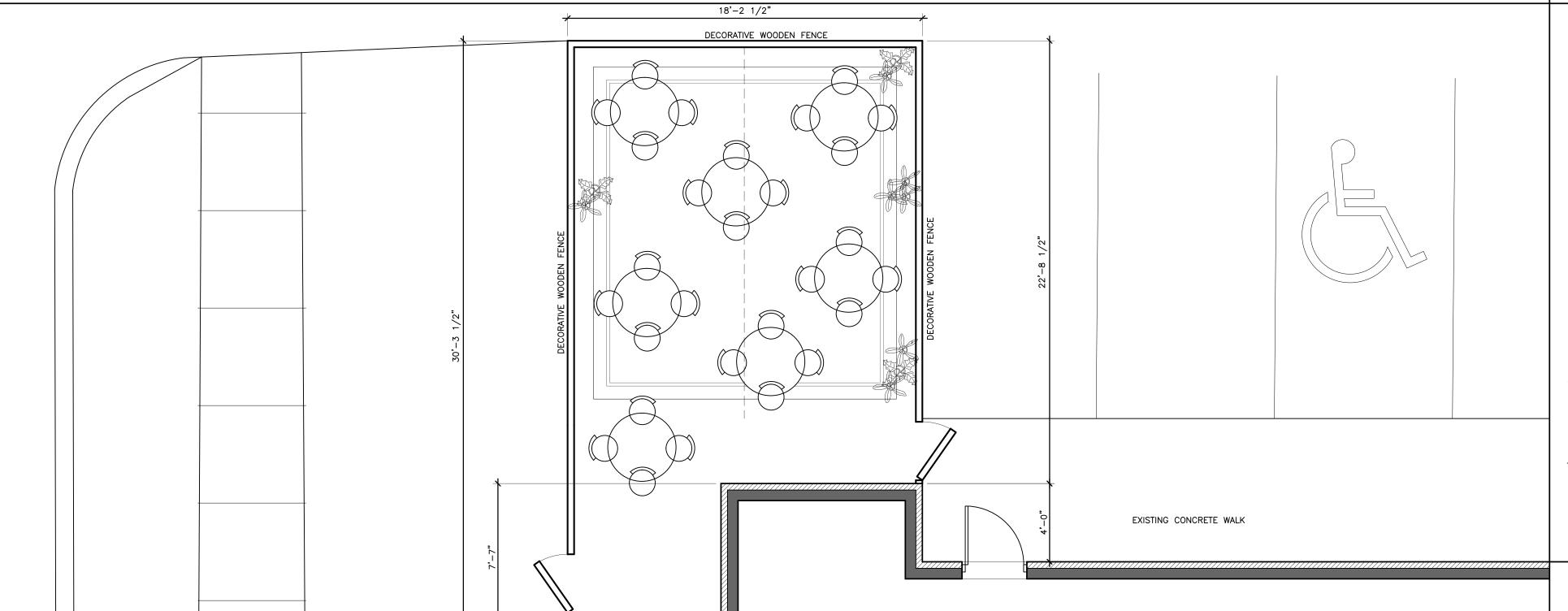


PROPOSED FLOOR PLAN

AQUA

413 N. MAIN STREET PLYMOUTH, MICHIGAN

SITE DATA			DRAWING INDEX							ם
ZONING REQUIREMENTS	B3 GENERAL E	BUSINESS			E PERMIT					
PROPOSED USE:	RESTAURANT				SPECIAL USE) BY:	SE ONLY		
					ISSUED FOR 21.FEB.24		PREPARED	REFERENCE		
SETBACKS:	REQUIRED	PROVIDED	T1.1	TITLE SHEET / SITE PLAN	0		\rightarrow	>		
FRONT	O' FEET	9'-10" FEET								
<u></u>			A1.1	FOUNDATION /1ST FLOOR PLAN				+ +	1	
SIDE YARD	O' FEET	8' FEET WEST	A1.2	2ND FLOOR PLAN/ ROOF FRAMING						
		68' FEET EAST						+ +	┨	
REAR YARD	10' FEET	128'-8.5" FEET	A3.1	EVIEDIOD EL DIATIONE				1	ECT	
TLAN TAND	I TO FEET	120 -0.5 FEET	A3.1	EXTERIOR ELEVATIONS				+++	PROJECT	
	70 FT		A4.1	BUILDING SECTIONS						
MAXIMUM BUILDING HEIGHT	30 FT 2 STORIES	20' FT 1 STORIES						+	┨	
		1 STORIES	E1.1	ELECTRICAL POWER PLANS						
MIN LOT AREA	2 STORIES		E2.1	ELECTRICAL LIGHTING PLANS				+++	┨	
MAXIMUM LOT COVERAGE										
TOTAL SITE:	EXISTING HOUSE	2677 SQ/FT								
	NEW OUTDOOR DINING	472.65 SQ/FT						+	┨	
	DRIVEWAYS + PATIOS	3059.65 SQ/FT								
								+ +		
		101							٥	
PROJECT DE	SURIPI	ΙШΝ							APPV'D	
THE PROJECT CONSISTS OF								+		+
OUTDOOR EATING AREA (480									1	
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PARKING REQUIREMENTS

AQUA RESTAURANT AND THE BUSINESS IMMEDIATELY TO THE NORTH SHARE A PARKING LOT BY LEGAL AGREEMENT. THE BUSINESS TO THE NORTH SHALL NOT, BY AGREEMENT, PARK ANY CARS IN THE SHARED LOT PAST 5PM. AQUA RESTAURANT OPENS ONLY FOR DINNER.

BY DIVISION XXII, SECTION 78—271 OF THE ZONING ORDINANCE, CITY OF PLYMOUTH: Establishment for sale and consumption on the premises of beverages, food and refreshments Outside of the downtown development district:

One for each 75 square feet of usable floor area or one for each three persons allowed within the maximum occupancy load as established by local, county or state fire, building or health codes, whichever is greater.

LISTED OCCUPANCY BY FIRE MARSHALL: 109 SPACES REQUIRED BY OCCUPANCY: 109 / 3 = 36.3

BUILDING SQ/FT: 2677 SQ/FT
GROSS FLOOR AREA: 2587 SQ/FT
AREA OF OUTDOOR DINING: 472.65 SQ/FT
TOTAL AREA: 3059.65 SQ/FT

REQUIRED PARKING: 3059.65 / 75 SQFT = 40.79

SPACES REQUIRED: 41 SPACES
SPACES PROVIDED: 41 SPACES

THE CONTRACTOR IS REQUIRED TO
FIELD VERIFY ALL EXISTING CONDITIONS
WITH REGARD TO THE VIABILTY OF
EXISTING FOUNDATIONS, STRUCTURAL
BEARING LOCATIONS, AND ALL
DIMENSIONS, PRIOR TO THE BEGINNING
OF CONSTRUCTION.

OWNER

VITOR NIKOLLBIBAJ 413 N. MAIN PLYMOUTH, MI 48170

ARCHITECT

COMPOSITION WORKSHOP INC 800 JUNCTION ST PLYMOUTH, MI 48170 313-478-1547 734-425-5226 FAX

ARCHITECT

SHEET TITLE

SHEET NUMBER **ST1.1**

SITION WORKSHO
Architecture + Interior Design

PLYMOUTH POLICE DEPARTMENT MEMORANDUM

TO:

GRETA BOLHUIS, PLANNING & COMMUNITY DEVELOPMENT DIRECTOR

FROM:

A.L. COX, DIRECTOR OF PUBLIC SAFETY 9.1.

SUBTECT:

SPECIAL LAND USE & SITE PLAN REVIEW AT 413 N MAIN (AQUA)

DATE:

2/28/2024

Per City Ordinance 78-92(4)(b), you have asked that I review the request for approval of a new outdoor dining area at 413 N Main Street (VNB, LLC currently doing business as Aqua). The review was narrowly focused on the impact to public safety only.

VNB, LLC operates under a Class C and a Specially Designated Merchant (SDM) liquor license with the following permits: Sunday Sales (PM) and two (2) Outdoor Service Areas (neither of which have been utilized over the last year). Their license type provides for the service of beer, wine, spirits, and mixed drinks. The licensee is requesting approval to create a new outdoor dining space on the north side of the existing structure. The proposed area is 472.65 square feet which includes two (2) currently utilized parking spaces.

While the proposed area would allow for patrons to enjoy a meal and/or drink(s) out of doors in good weather, it would also provide for an increase in customer capacity for the establishment when the area is in use. This will require that management provide for the same close monitoring/observation of guests outside as well as inside the establishment. It should also be noted that this proposed area will require notification to the Michigan Liquor Control Commission (MLCC) by the owner. In order to comply with MLCC rules and regulations, the proposed area will need to be inspected by the MLCC Enforcement division, and ultimate approval will come from the Commission.

Based on the provided plans, input from the licensee, and the establishment's history regarding the responsible service of alcohol to date, I do not see a negative impact on public safety. Additionally, any concerns regarding the loss of 2 parking spaces are alleviated by the fact that their private lot will still provide 39 available spaces. Should alterations or amendments to the plans be made, an additional review of those changes should be conducted.



117 NORTH FIRST STREET SUITE 70 ANN ARBOR, MI 48104 734.662.2200 734.662.1935 FAX

Date: March 6, 2024

Special Land Use and Site Plan Review For Plymouth, Michigan

Applicant: Victor Nikollbibaj

413 Main St.

Plymouth, MI 48170

Project Name: Aqua Restaurant Outdoor Seating

Plan Date: November 21, 2023

Latest Revision: February 21, 2024

Location: 413 N. Main St.

Zoning: B-3 – General District

Action Requested: Special Land Use and Site Plan Approval

Required Information: Any deficiencies are noted in the report.

PROJECT AND SITE DESCRIPTION

The applicant is proposing to use two adjoining parking spaces to locate a 480-square-foot outdoor dining area on the subject site. The outdoor area is directly adjacent to the applicant's place of business (Aqua Restaurant), and will be blocked off using moveable black wooden fencing.

This change represents an expansion of a use that serves alcohol, and is therefore a Special Land Use in the B-3 District, and requires a Special Use Permit.

An aerial and street view of the subject site is shown in **Figures 1 and 2** on the following page.



Figure 1. Subject Site

Source: Near Maps (Capture 4-7-2023)



Figure 2. Subject Site – Street View

Source: Google Maps (Capture 7-2019)

SPECIAL LAND USE STATUS

The applicant is proposing to expand the service of alcohol out of doors, which is a Special Land Use and must meet the Special Land Use standards in Section 78-281.

In addition, the B-3 General Business District (in Section 78-112) states that the Community Development Director shall request a report from the city's Director of Public Safety regarding the possible impacts of the establishment serving alcoholic beverages, and that the Planning Commission will consider this report.

The special land use standards in Section 78-281 are as follows. Our comments regarding each are provided below:

(1) Will be harmonious and in accordance with the general objectives or any specific objectives of the City of Plymouth Master Plan.

CWA Comment:

The 2018 Master Plan:

- Identifies this site as "Mixed Use High Density," which includes a mixture of retail, service, office, recreation and residential uses. It also states that parking shall be located at the rear of the building, or integrated and hidden. (Pg. 12)
- The North Main Street Sub Area Plan also states that parking should be located at the rear of buildings, and that landscape strips or decorative knee walls should separate front yard parking and sidewalk areas. (Pg. 23)
- Lastly, Figure 12: Primary & Secondary Transportation Routes map (Pg. 37) identifies the
 public sidewalk on the east side of Starkweather (adjacent to this site) as being too narrow.
 This public sidewalk also directly abuts the curb, and has no green strip between the curb and
 sidewalk, placing pedestrians right next to the street.

Proposed Use

Unlike the Downtown Sub Area Plan, the North Main Street Sub Area Plan doesn't encourage outdoor cafes. However, this Sub Area does call for a mix of retail, service, office, recreation and residential uses. Outdoor eating areas help to establish a "mixed-use" atmosphere.

Proposed Layout

While the use may be consistent (in our opinion) with the Master Plan, the layout of this site is not compliant. The existing parking lot directly abuts the public sidewalk along Starkweather, and there is no landscape separation or knee wall between the lot and the street, making it clearly visible to passersby. This business has also constructed a 3- or possibly 4-season enclosed dining room in the Starkweather St. right-of-way. These features are not going to be improved with the proposed outdoor dining layout.

The plans do not accurately reflect the existing conditions on site. The building is much closer to the public sidewalk on both Starkweather and N. Main St. than the plans indicate. The location of the building on site needs to be corrected.

The outdoor dining area is proposed to be located in the two most westerly parking spaces on the north side of the building. The plan shows a 14-foot wide strip of asphalt between the sidewalk

and proposed edge of the outdoor dining fence; however, this space is actually only about 4-feet wide, which is within the right-of-way. The proposed dining use should not be placed in the right-of-way. To make the proposal more consistent with the goals of the Master Plan, the Planning Commission may want to discuss the addition of landscape planters along the west side of the dining enclosure fence.

(2) Will be designed, constructed, operated, and maintained so as to be harmonious and appropriate in appearance with the existing or intended character of the general vicinity and will not change the essential character of the area.

CWA Comment:

No permanent structures are proposed. Sheet ST1.1 shows photographs of when an outdoor dining area was installed up next to the sidewalk in previous years, with a black fence. Will the same fence/umbrellas/chairs shown in the photos be used if the outdoor dining area is approved? The plans also show that the outdoor dining area will accommodate 7 tables/28 patrons.

(3) Will not be hazardous or disturbing to existing or future nearby uses.

CWA Comment:

The outdoor dining area will be located directly across the street from a property that was just recommended for approval for single-family residential use. (Note: The City Commission approved the first reading on March 4.) Therefore, an outdoor use that extends into the evening 7-days a week could be disturbing to these neighbors.

The Aqua Restaurant's website indicates that the business is open 4pm – 10pm, 7-days a week. We have the following questions:

- Will the current hours of operation apply to the outdoor dining area?
- Will the outdoor area be used only for patrons eating a meal, or will patrons only using the bar also be able to sit outside?
- Is the applicant proposing any outdoor speakers or music?
- How will the outdoor area be managed to minimize disturbance to nearby residents?
- (4) Will be compatible with adjacent uses of land and will promote the use of land in a socially and economically desirable manner.

CWA Comment:

As mentioned above, the building across Starkweather to the west of the outdoor eating area could be approved for single-family residential use. The building to the north is approximately 2,220 s.f. and contains two commercial units. One of these units is occupied by an "event" business (accommodating up to 50 people at a time).

The outdoor dining area is compatible with the commercial building to the north, but could be disturbing to residents directly across Starkweather. See our questions above.

(5) Will be served adequately by essential public services and facilities or that the persons responsible for the establishment of the proposed use will provide adequately any such service or facility.

CWA Comment:

Essential public services currently serve the Aqua Restaurant. The outdoor dining area does not require any additional public services.

(6) Will not create excessive additional public costs and will not significantly decrease property values of surrounding properties.

CWA Comment:

We don't believe the proposed outdoor dining area will significantly decrease property values of surrounding properties.

(7) Will meet all the requirements and standards of this chapter and any other applicable laws, standards, ordinances, and or/regulations.

CWA Comment:

See our comments in the remainder of this review for compliance with ordinance requirements.

In summary, we consider <u>the proposed use</u> to meet the criteria for the standards in 78-281 and 78-102(2). However, we don't consider the proposed layout to meet the criteria. The applicant needs to correct the plans and provide additional information to answer the questions in this review, and any additional questions Commissioners may have. Also, the Planning Commission may want to discuss modifications to the layout with the applicant to better meet the goals of the Master Plan.

Items to be Addressed: 1) Planning Commission to consider Director of Public Safety report. 2) Correct plans to accurately locate building on site. 3) Planning Commission to discuss the addition of landscape planters along the west side of the dining enclosure fence. 4) Will the same fence/umbrellas/chairs shown in the photographs be used if the outdoor dining is approved? 5) Will the current hours of operation apply to the outdoor dining area? 6) Will the outdoor area be used only for patrons eating a meal, or will patrons only using the bar also be able to sit outside? 7) Is the applicant proposing any outdoor speakers or music? 8) How will be outdoor area be managed to minimize disturbance to nearby residents?

SITE PLAN REQUIRED INFORMATION

Per Section 78-247, the submission shall show specific site information. A site layout, including the building to the north, is provided on Sheet ST1.1. We have the following comments:

- 1) The building to the north is not on the subject site, but on an independent lot. The site plan should show the property line that divides the subject site from the lot to the north.
- 2) The aerial photograph of the existing building (captured in 2023) shows the edge of the building about 5-feet from the edge of the public sidewalk along N. Main St. The site plan locates the edge

of the building approximately 26-feet from the edge of the public sidewalk along N. Main St. Another inconsistency is that the aerial photo doesn't show a sidewalk on the east side of the building (while the site plan shows this walk). Is the applicant proposing to add a sidewalk here, and extend this walk south to connect to the public walk along Main St.? The southern-most driveway into the parking lot along Starkweather is located approximately 105 feet from N. Main St.; the site plan shows the driveway approximately 130 feet from N. Main St. The site plan must be drawn on an accurate survey of the property. The submission needs to be corrected and resubmitted.

Items to be Addressed: 1) Site Plan should be drawn on an accurate survey of the property; the plan should be corrected and resubmitted. 2) Is the applicant proposing to locate a new sidewalk on the east side of the building, and extend this walk to the public walk on N. Main St.?

PARKING

Parking in the B-3 zoning district requires one space per 75 square feet of usable floor area, or one space for each three persons allowed within the maximum occupancy load.

The plans show 2,587 gross s.f. of floor area for the existing building, and 472.65 s.f. for the outdoor dining area. We have the following comments/questions:

1) No building floor plans are provided, so we are unable to confirm the floor area calculation. The plans calculate required parking using "gross floor area;" however, the ordinance requirements use "usable floor area," which is defined as follows:

Floor area, usable, for the purposes of computing parking, means that area used for or intended to be used for the sale of merchandise or services, or for use to serve patrons, clients or customers. Such floor area which is used or intended to be used principally for the storage or processing of merchandise, hallways or for utilities or sanitary facilities, shall be excluded from the computation of usable floor area. Measurement of usable floor area shall be the sum of the horizontal areas of the several floors of the building, measured from the interior faces of the exterior walls.

The applicant should confirm that they used the "usable floor area" definition to calculate parking.

- 2) Does the "maximum occupancy" figure include the roofed/enclosed dining area that was added to the west side of the building? If not, it should be added.
- 3) The number of spaces shown on the site plan are inconsistent with the aerial photograph (captured in 2023), as follows:
 - a. Parking spaces adjacent to the east side of the restaurant building: aerial shows 6 spaces; site plan shows 5 spaces.
 - b. Parking spaces adjacent to the north side of the restaurant building: aerial shows 7 spaces (of which 2 are being occupied by the proposed outdoor dining area), but the location of these spaces is not consistent with the aerial.
 - c. Parking spaces in the middle of the lot: aerial shows 11 spaces in the same location as the site plan shows 10 spaces (although the arrow indicating the 10 spaces should extend all the way to the Starkweather public sidewalk to count 10 spaces).

d. Parking spaces on the east side of the neighboring building to the north: aerial shows 3 spaces with a shed occupying the most northerly spaces; site plan shows 5 spaces and doesn't show the shed.

The plans should be corrected to accurately reflect the existing conditions on site.

Based on these comments, it is unclear if the number of parking spaces meets ordinance requirements. The plans should be corrected, and information provided so that the figures on the plans can be confirmed. Also, we defer whether parking for outdoor uses on private property is typically required to the Community Development Director.

The Site Plan states that this property owner has a parking agreement with the adjacent property owner. This agreement should be submitted as part of this Special Land Use request.

Items to be Addressed: 1) Correct plans to reflect the existing number of parking spaces, and accurately located on the site. 2) Provide floor plans of the existing building so that the floor area figures and maximum occupancy on the plans can be confirmed. 3) Defer determination if parking is required for outdoor dining to Community Development Director. 4) Applicant to provide shared parking agreement with northern property owner to the City as part of the Special Land Use request.

RECOMMENDATIONS

In our opinion, the <u>outdoor seating area use</u> meets the vision in the Master Plan for this street, but the layout is not consistent with the Master Plan. We recommend the Planning Commission discuss the plans with the applicant, and give the applicant more time to update the plans and resubmit. A summary of the comments in the review follows:

Special Land Use

- 1) Planning Commission to consider Director of Public Safety report.
- 2) Correct plans to accurately locate building on site.
- 3) Planning Commission to discuss the addition of landscape planters along the west side of the dining enclosure fence.
- 4) Will the same fence/umbrellas/chairs shown in the photographs be used if the outdoor dining is approved?
- 5) Will the current hours of operation apply to the outdoor dining area?
- 6) Will the outdoor area be used only for patrons eating a meal, or will patrons only using the bar also be able to sit outside?
- 7) Is the applicant proposing any outdoor speakers or music?
- 8) How will be outdoor area be managed to minimize disturbance to nearby residents?

Site Plan Requirements

- 1) Site Plan should be drawn on an accurate survey of the property; the plan should be corrected and resubmitted.
- 2) Is the applicant proposing to locate a new sidewalk on the east side of the building, and extend this walk to the public walk on N. Main St.?

Parking

- 1) Correct plans to reflect the existing number of parking spaces, and accurately located on the site.
- 2) Provide floor plans of the existing building so that the floor area figures and maximum occupancy on the plans can be confirmed.
- 3) Defer determination if parking is required for outdoor dining to Community Development Director.
- 4) Applicant to provide shared parking agreement with northern property owner to the City as part of the Special Land Use request.

CARLISLE/WORTMAN ASSOC., INC.

Sally M. Elmiger, AICP, LEED AP

Principal

cc: Greta Bolhuis

Marleta Barr





February 26, 2024

Ms. Greta Bolhuis / Plymouth Planning Commission City of Plymouth, Michigan 201 S. Main Plymouth, MI 48170

Subject: Updated PUD Submission

Proposed Brookside Village Development

1100 W Ann Arbor Trail

Ms. Bolhuis and the Planning Commission,

We are pleased to be submitting a significant update to the previously submitted Mixed-Use PUD proposal at the 1100 W Ann Arbor Trail property titled Brookside Village. The contents of this submission include:

DOCUMENTS

- Project Update Narrative
- Public Benefits Summary
- Tonquish Creek Corridor Restoration Master Plan (ECT Consultants)
- Trip Generation Analysis (Fleis & Vandenbrink Consultants)

DRAWINGS

Site / Ci	ivil					
	C-1	COVER SHEET	C-9	LANDSCAPING NOTES &		
	C-2	DEMOLITION PLAN	DETAIL	S		
	C-3	SITE PLAN	C-10	CONSTRUCTION DETAILS		
	C-4	GRADING PLAN	C-11	CONSTRUCTION DETAILS		
	C-5	STORMWATER MANAGEMENT	L-1	SUBJECT AREA / REMOVAL		
		PLAN		PROTOCOL (Creek Bed)		
	C-6	UTILITY PLAN	L-2	PLANTING SCHEMATIC (Creek		
	C-7	LIGHTING PLAN		Bed)		
	C-8	LANDSCAPING PLAN	1	ALTA / TOPO Survey		
Architectural – Townhouse Residential Condominium						
	A-1	FLOOR PLAN OPTIONS	A-3	RENDERINGS		
	A-2	ELEVATIONS & SECTION STUDY	A-4	RENDERINGS		
Archited	ctural –	Stand Alone Residential Condominium				
	SC110	STAND ALONE CONDO TYP. FLOOR PLANS				
	SC310	STAND ALONE CONDO TYP. ELEVATIONS				
Archited	ctural –	Church and General				
	CH101	ARCHITECTURAL FLOOR PLAN	AR101	ASSORTED RENDERS		
	(Church	n)	AR102	ASSORTED RENDERS		
	CH301	EXTERIOR ELEVATIONS (Church)	AR103	ASSORTED RENDERS		
	CH302	EXTERIOR ELEVATIONS (Church)	AR105	CONCEPTUAL SECTION		





As you will see from your review, the design and scope of this submission is very similar to the previous 3 versions. The primary differences for this scope revolve around the following issues:

- We have further REDUCED the density from a total of 24 residential units to a new total of 20 units (17 Townhouses + 3 Stand Alone units).
- We have significantly added scope and features to the **Public Benefits** being offered with this project.
- We have provided for extra parking spaces that may be shared with the neighboring property.
- We have provided 2 guest spaces in front of every Townhouse significantly increasing parking capacity.
- We have commissioned creation of a **Creek Restoration Environmental / Ecological Master Plan** Report included herein.
- We have commissioned the creation of a **Traffic Analysis Report** to study traffic conditions for the project design, also included herein.

We understand that we may be able to appear at the **March 13** Planning Commission meeting. We greatly look forward to being able to move this project forward at that meeting. Should you have any questions, please do not hesitate to contact us.

Regards,

Douglas B Hamborsky AIA

Director of Design and Construction Champion Development Group

Hamgroup2@gmail.com

313-282-6432







1100 W Ann Arbor Trail

PROPOSED PUD DEVELOPMENT (Revised) – FEBRUARY 2024 PROJECT UPDATE NARRATIVE

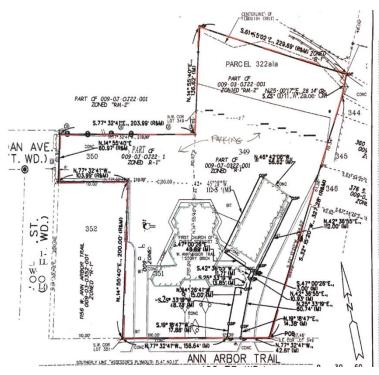
OVERALL PROJECT OVERVIEW

The existing **First Church of Christ, Scientist**, **Plymouth** has been on its present 2.25 Acre site since the 1950's. Prior to this location, the Church family was located in Downtown Plymouth. In all, this Church Community has been part of the Plymouth population for around 120 years.

The existing campus located at 1100 W. Ann Arbor Trail contains 2 structures of around 8,000 sf + 4,200 sf totaling around 12,200 sf. The existing Church congregation population has become reduced over the years, and no longer requires the use of a large church building. The projection for the future does not see this population growing. The present Church operations have been conducted in the smaller building for the last several years. The larger structure is presently being temporarily leased out on a temporary basis to an unaffiliated Church group.

The need for the First Church of Christ,
Scientist, Plymouth Church at this time is to
develop a new structure with parking that is
appropriately sized for the present and future
population of the Church family. This can be
accomplished on around 1/3 of the existing
property land. The plan as presented in this
project is that the developer, Champion
Development Group, shall develop a project
suitable and harmonious with the Church family,
the adjacent Plymouth community and the
Plymouth Master Plan.

The Champion Development Group (CDG) has entered into a Contract with the First Church of Christ, Scientist, Plymouth entity to purchase the available remaining portion of the property and has been working closely with the Church leadership to help define what each entity needs to move forward with a workable Master Site layout. The intention is for CDG to develop a



Townhouse style residential Condominium community as depicted in the designs provided within this submission.

The property will become divided into a Church section and a Townhouse section. Both sections will be part of a 'Master' Condominium site that will have assorted rights and obligations to be defined in future Condominium Documents. Within the Townhouse Condominium, each structure will then become defined as 'Units' that will be regulated by requirements defined within their own





Condominium Documents. This approach is common for this style of development, and we anticipate significant success with managing this plan.

REVISION OVERVIEW

To date, this project has been before the Planning Commission on March 8, 2023 and April 12, 2023 PC for informal meeting appearances, and July 19, 2023 for the initial Formal PUD submission. We have processed the assorted comments and input from the productive dialogue at these PC meetings along with the Public Comments and have incorporated what we believe was the prominent input that was offered into this current submission. Below is a summary of revisions incorporated into this new submission:

SIGNIFICANT UPDATES

- Density of the Townhouse units have been FURTHER REDUCED from 30 (March) to 28 (April) to 24 (July) to now a total of 17 Townhome units + 3 Single units for a Site total of 20 units.
- The 3 stand alone condominiums will be located directly on Ann Arbor Trail. The spacing and size of these units will essentially match the existing homes on the same side of Ann Arbor Trail directly to the West of Joel R Street. In essence, the appearance and function of Brookside Village along Ann Arbor Trail will now 'match' the existing community.
- The PUBLIC BENEFIT scope has been significantly expanded and enhanced as defined in the separate Narrative for that work.
- The parking lot by the Church has been maximized to provide for additional potential parking for certain neighbor use or events. See details in Public Benefits Narrative.

The net effects of all these substantive revisions are that this updated PUD scope addresses the most prominent concerns including: <u>reducing density</u>, providing for a <u>single family</u> appearance along Ann Arbor Trail, providing <u>expanded parking options</u> and providing <u>significant enhancements to the</u>

<u>Tonquish Creek and Trail</u>.. All while maintaining the ability of a 120-year-old Church community to <u>remain</u> in Plymouth. And finally, converting a large portion of Church property into a new residential use will bring <u>significant new revenue</u> to the city.

PUBLIC BENEFITS

A more detailed description of all of the Public Benefits proposed in this project is included within this full submission. As an introduction, the following items combine to form the overall Public Benefit package for this project:

- 1. Provide Shared Parking for the Adjacent Tonquish Manor Operations
- 2. Provide Tonquish Creek and Trail Restoration Plan
- 3. Provide Funding for Some Creek Restoration Work Within the Report
- 4. Provide a Full Restoration for the Champion Section of the Creek Bed
- 5. Provide Select Tonquish Creek Trail Improvements
- 6. Deed a Portion of Property Along the Bank of the Creek to the City
- 7. Construct a New Access Stair at the Head End of the Creek
- 8. Provide a New Pocket Park at the Reading Room Bookstore





- 9. Provide a New Pocket Park Along the Creek
- 10. Provide Significant New Tax Revenue for the City
- 11. Produce Significant Net Traffic Reduction
- 12. Addition of 20 New Families for the Downtown Community
- 13. Site to be Updated with All New Construction and Utilities
- 14. Provide Significant Additional Guest Parking for Townhouse Units

We look forward to bringing these significant enhancements to the City of Plymouth as part of our proposed PUD project.

ZONING DISCUSSION

The existing property is presently zoned primarily 'R-1' Residential, which allows for a Church use. (Note, there is a small portion of the North side of the property that is zoned 'RM-2'). The adjacent senior housing property to the Northwest is zoned 'RM-2' Multi-Family and the property to the East is zoned 'O-1' Office.





Future Land Use Map

Existing Zoning Map

The Future Land Use Plan has designated this property for a 'Mixed

Use' future zoning. Our proposed combination of lower density Townhouse residential along with the Church that operates a small public bookstore (The Christian Science Reading Room), represents a perfect application to address the Master Plan goals for this parcel.

To support the mixed use development scope, there is not a single district that would apply to this approach. The best way to accomplish the vision as submitted is to propose that this project be considered as a **Planned Unit Development (PUD)**. This would allow for the flexibility to have the uses and features as presented to be implemented on this property. The original submission had specific references to the RM-2 District. In lieu of this approach, setbacks, building height and similar regulations will be utilized as defined on the design drawings without specific references to the RM-2 District at this time.

COMMUNITY GOALS

From review of the Plymouth Master Plan, we understand that there are perpetual goals to continue the improvement of the Plymouth City environment into the future. We feel the proposed PUD project addresses all of the Plymouth goals in substantial ways as follows:

QUALITY OF LIFE

- The addition of smaller, low maintenance Condominium homes will offer the Plymouth residents that wish to 'downsize' from their larger single family homes into these wonderful, zero maintenance Condominium homes.
- With the inclusion of smaller Condominium units, this will keep pricing lower then other similar properties in the area and provide living options for a significant group of residents.





• This will allow the valuable Christ Science community to remain in Plymouth for decades to come.

FINANCIAL STABILITY

- The existing large Church structure is dated and in need of significant repair and maintenance.
 The proposed replacement of this structure with a campus of new structures will significantly increase property values on and around the property.
- This project will convert a large portion of the existing parcel into a residential use that will immediately begin producing property tax revenue for the City.

ECONOMIC VITALITY

- The population of residents that will live in the new Condominiums will produce significant financial activity to the Downtown Plymouth area.
- The proposed enhancements to the Tonquish Creek and adjacent Trail will produce an improved environment that will affect all properties that utilize this public amenity.

INFRASTRUCTURE

- The utilities that serve the proposed development will be enhanced from the decades old services that exist. This will be especially true for the Storm Water Management of the new site.
- The new drive and traffic configuration will be designed to current MDOT standards.

The project TEAM remains extremely excited to bring this wonderful development to the City of Plymouth for consideration and look forward to presenting this scope as our final, formal PUD submission.

FIRST CHURCH OF CHRIST, SCIENTIST, PLYMOUTH







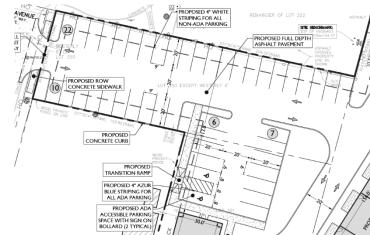
PROPOSED PUD DEVELOPMENT (Revised) – FEBRUARY 2024 PUBLIC BENEFITS SUMMARY

During the previous project introductions and submissions, a need to improve the scope of additional project elements that would be considered as a **Public Benefit** to the overall community was mentioned. This summary along with assorted attachments as referenced represent a significant upgrade toward providing the community with select project elements that would be of additional benefit to the City and our neighbors that would be done ONLY as part of the proposed development. Specific descriptions of these Benefits are as follows:

1. Provide Shared Parking for the Adjacent Tonquish Manor Operations.

For the past several years First Church of Christ Scientist, Plymouth has had an arrangement to share a limited amount of parking for some residents at the adjacent Tonquish Manor senior housing center. It has not been clear if that shared parking arrangement could survive the proposed new development, but there has been a general goal to do so. Within the new site design, the parking lot for the Church has been designed to provide more parking than the Church population would require. This produces additional parking spaces that could be shared in some fashion going forward. Here are some features regarding how the shared parking arrangement is expected to evolve in the future:

- The new community parking lot design has been **maximized** for parking and could have as many as **45** spaces as shown. This design assumes minimum landscaping and maximum paving.
- Per zoning requirements, the parking demand for the new Church would be **32** spaces.
- The Church parking is used on Sunday morning and Wednesday evening.
- There could be as many as 13 spaces available for shared use.
- The Church community is willing to explore sharing some of the excess parking with Tonquish Manor:
 - Some quantity of the excess parking may be shared on a 24 hour basis x 7 days per week to accommodate full time parking needs of select Manor residents.
 - Some of the excess parking may be shared during normal business hours Monday through Saturday for use by staff, guests, vendors, medical personnel, and similar daily visitors to the Manor.
- Specific details of the parking sharing arrangements are not yet finalized. It is expected that the Church and the Manor will work towards a mutually beneficial agreement once the project is approved.



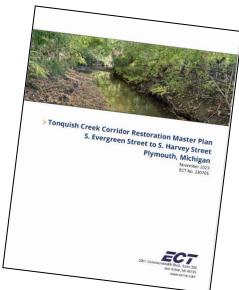




PUBLIC BENEFITS SUMMARY

2. Provide Tonquish Creek and Trail Restoration plan

The Tonquish Creek in this section of town has been a feature since before there was a City. Over the decades, properties and infrastructure have become constructed around the Creek causing the quality of this natural resource to deteriorate below desirable standards. Champion Development Group has commissioned Environmental Consulting and Technology (ECT), a highly reputable Consulting firm that specializes in this area of work, to perform an initial survey and provide a Master Plan of work that could be done to restore and upgrade the condition and function of the Creek to desirable standards. This full report is attached to this submission. We understand that this report can be used by the City and other authorities to seek funding and grants to perform some of the work as identified in the report. The eventual net Public Benefit would be to improve and restore a wonderful natural resource to become a treasured asset for the community for decades to come.



3. Provide Funding for Some Creek Restoration Work Within the Report

While the total estimated costs to achieve all the scope items defined in the ECT report is significant, Champion Development Group is willing to provide limited funding to achieve some of the work items as defined in the report. We would work with the City and other authorities to select certain items that could bring some measurable and visible improvement to this wonderful resource. Scope items that come to mind are to remove invasive species and clean up debris in a certain section of the Creek bed, most likely the area along the North side of the proposed Brookside Village area and the Tonquish

Manor. The **'L-1'** and **'L-2'** Drawings included within this submission provide a graphic representation of applicable initial work scope in this area of the Creek. The net **Public Benefit** would be to provide a visually enhanced nature experience for this significant section of the Creek that many local residents could enjoy.

4. Provide a Full Restoration for the Champion Development Section of the Creek Bed

Using design and scope directives as defined in the ECT Restoration Plan, we shall perform a complete restoration of the 300 ft wide section of the creek bed that lies along the North side





of our Development Property. This work is defined in sheet 'L-1' and 'L-2' attached herein and shall include removal of invasive species of plan material and any dead trees, removal of debris and broken concrete, trimming of healthy trees, planting of a native blanket of new plant and flower material that will fill in and stabilize the bank. The result will be a stable and attractive ecosystem that will enhance the appearance and function of this section of Tonquish Creek.





PUBLIC BENEFITS SUMMARY

5. Provide select Tonquish Creek Trail Improvements

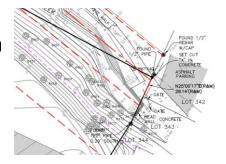
For the paved section of the Tonquish Creek Trail located along the North side of the Development property and the Tonquish Manor, there is an assortment of dated and damaged **light fixtures and benches**. As part of the proposed project, we would replace or provide additional ornamental light fixtures and benches along the approximate 600 lineal foot section of the Trail.





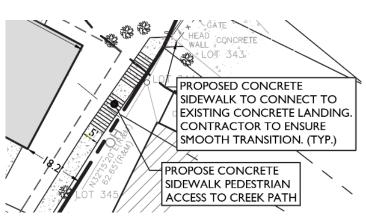
6. Deed a portion of property along the bank of the Creek to the City

It has become known that at the far East end of the Creek where there is a grate located just before the water enters a large culvert pipe that then travels below the streets, the City needs to periodically perform clearing and maintenance operations that includes placing debris on the bank area. To better facilitate maintenance operations, Champion Development is willing to **Deed a portion of the Creek bed to the City** along the South side of the Creek that runs along our entire 300 ft long property boarder. This offering would provide the City with increased flexibility to address Creek maintenance issues well into the future.



7. Construct a new access stair at the head end of the Creek.

To facilitate the opportunity for the Public and the new Village Condominium residents to access the Creek more conveniently, we offer to construct a **new concrete access stair** at the far Northeast corner of the property. This will allow people along Ann Arbor Trail to walk to the Trail area in a more convenient and direct way.









PUBLIC BENEFITS SUMMARY

8. Provide a new Pocket Park at the Reading Room Bookstore.

A patio area with some bench seating will be provided between the public sidewalk and the Church Reading Room entry. This will allow visitors the ability to rest or simply enjoy the area during nice weather days.

Landscaping will be included to form a 'Pocket Park' and a bike rack will be placed in this area for convenience.



9. Provide a new Pocket Park along the Creek.



A patio area with some bench seating will be provided along the Southern side of the Tonquish Creek along the paved Trail that goes behind the Tonquish Manor. The purpose of this 'Pocket Park' is to provide a nature based resting area for the persons that use the Trail. To stop and enjoy the sounds and atmosphere of the full Creek experience in a natural landscaped setting.

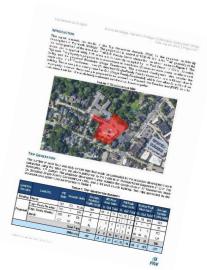
10. Provide Significant New Tax Revenue for the City

This property has been occupied by the Church for decades. By changing the use and occupancy of this land from Church use to Luxury Residential use, the City will be in line to receive new property tax revenue for decades to come. The final amount of new income to the City will be tied to the final value of the developed property but is expected to be very significant. This money can help with City services, infrastructure maintenance and other City costs.

11. Produce Significant Net Traffic Reduction.

While this property has had artificially less traffic to and from it over the past several years, the size of the existing Church and parking lot could produce significantly more traffic if the property were to be sold to a new Church community with a larger congregation. Some facts regarding the existing property include:

- Existing main church building main assembly area has over 300 seats.
- Existing parking lot has over 100 paved parking spaces.
- Existing Auxiliary building could house a multitude of Church based services including school activities, assorted member services, community meetings and other activities.
- A robust Church community could have multiple programs and events 5 to 7 days per week, not just on Sunday.







PUBLIC BENEFITS SUMMARY

The net of having a fully occupied Church community on this property has in the past and could again produce <u>significant daily traffic issues</u> that could far exceed the traffic potential from the proposed residential development. Included with this submission is a traffic study produced by **Fleis & Vandenbrink**, a recognized local Traffic Consultant. Their study clearly shows how the proposed development will in fact REDUCE traffic from what a fully occupied Church facility would other wise produce.

What is most important to realize is that if the proposed mixed-use Townhouse / Smaller Church design were to become implemented, this reduced traffic condition would become fixed for decades. Any concerns regarding a large Church community potentially coming to this site would become eliminated.

12. Addition of 20 New Families for the Downtown Community

With the addition of 20 new residential homes, there will be many new friends and neighbors that will frequently be visiting the vast assortment of shops and restaurants in the Downtown Community. The extra bonus of this increased business activity for the City is that these new customers will NOT require any additional parking since each unit has it's own abundant parking spaces. This represents a very significant Public Benefit to all the business owners in Downtown Plymouth.



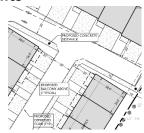
13. Site to be Updated with All New Construction and Utilities



With this Development, the entire site will be converted from decades old, dated construction, utilities and infrastructure to All New buildings, sitework and utilities. One prominent feature is the updating of the whole site to now have a full **Stormwater Management System**. For the last several decades, all stormwater has simply flow into the creek, streets or adjacent properties. The new design will now be fully code compliant regarding proper management of stormwater on this site.

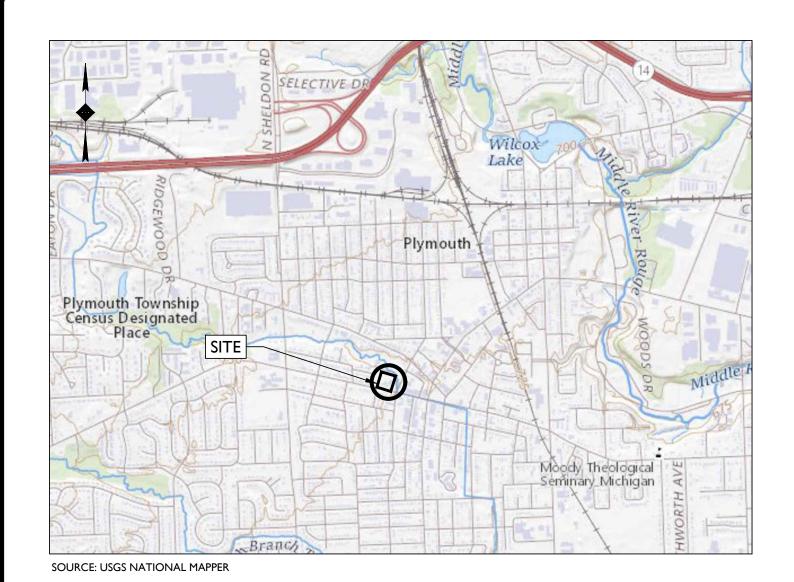
14. Provide Significant Additional Guest Parking for Townhouse Units

A concern was previously raised regarding if there was sufficient guest parking for visitors to the Townhouse residents. To address this issue, we have added 2 car parking aprons in front of EVERY Townhouse unit. This effectively doubles the available parking for the Townhouse population and their guests and greatly relieves any burden on other parking resources.



FIRST CHURCH OF CHRIST, SCIENTIST, PLYMOUTH





SCALE: $I'' = 2,000' \pm$

LOCATION / KEY MAP

SITE DEVELOPMENT PLANS

FOR

BROOKSIDE VILLAGE PROPOSED PLANNED UNIT **DEVELOPMENT**

PID: 49009030322309 1100 WEST ANN ARBOR TRAIL CITY OF PLYMOUTH, WAYNE COUNTY, MICHIGAN

SHERIDAN AVENUE

SOURCE: CITY OF PLYMOUTH, WAYNE COUNTY MICHIGAN OFFICIAL ZONING MAO

B-2: CENTRAL BUSINESS M-2: MULTIPLE-FAMILY RESIDENTIAL DISTRICT

O-I: OFFICE DISTRICT

R-I SINGLE FAMILY
RESIDENTIAL DISTRICT

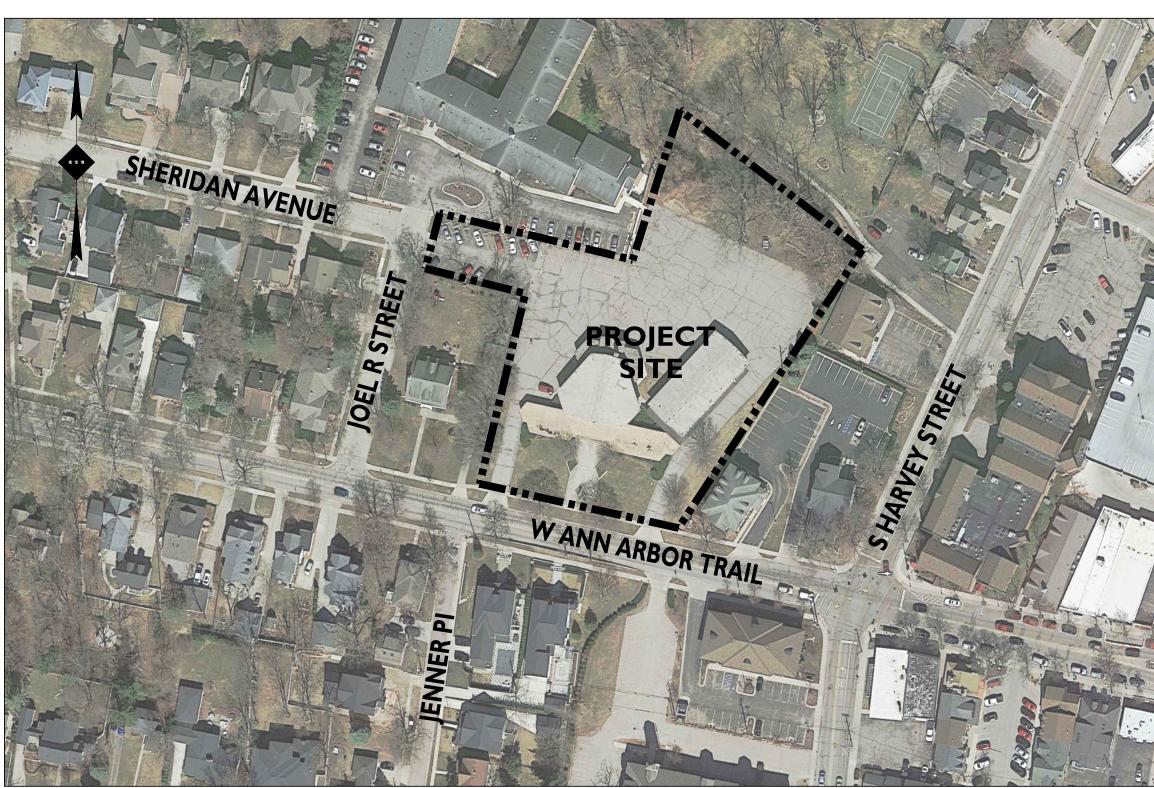
PROJECT

SITE

W ANN ARBOR TRAIL

ZONING MAP

SCALE: $I'' = 100' \pm$



SOURCE: GOOGLE EARTH PRO

PLAN REFERENCE MATERIALS:

- I. THIS PLAN SET REFERENCES THE FOLLOWING DOCUMENTS **INCLUDING, BUT NOT LIMITED TO:**
- ALTA/NSPS LAND TITLE SURVEY PREPARED BY **KEM-TEC DATED 06/22/2022**
- ARCHITECTURAL PLANS PREPARED BY SVA ARCHITECTS & LINDHOUT ASSOCIATES ARCHITECTS DATED 07/11/2023
- AERIAL MAP OBTAINED FROM GOOGLE EARTH PRO
- LOCATION MAP OBTAINED FROM USGS ONLINE MAPS
- 2. ALL REFERENCE MATERIAL LISTED ABOVE SHALL BE CONSIDERED A PART OF THIS PLAN SET AND ALL INFORMATION CONTAINED WITHIN THESE MATERIALS SHALL BE UTILIZED IN CONJUNCTION WITH THIS PLAN SET. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN A COPY OF EACH REFERENCE AND REVIEW IT THOROUGHLY PRIOR TO THE START OF CONSTRUCTION.



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PLANS PREPARED BY:



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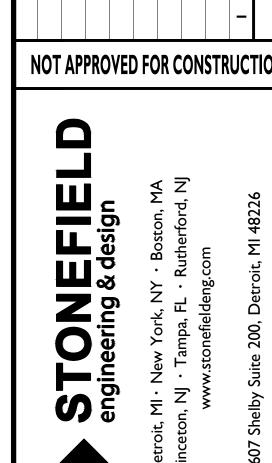
APPLICANT/OWNER

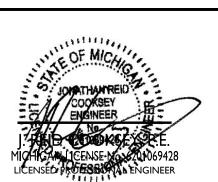
LL REAL ESTATE, LLC **5000 E GRAND RIVER AVENUE**

ARCHITECTS

STUCKY VITALE ARCHITECTS 27172 WOODWARD AVENUE

LINDHOUT ASSOCIATES ARCHITECTS 810-227-5668







SCALE: AS SHOWN PROJECT ID: DET-220084

SHEET INDEX DRAWING TITLE SHEET# **COVER SHEET** DEMOLITION PLAN C-2 SITE PLAN C-3 **GRADING PLAN** C-5 STORMWATER MANAGEMENT PLAN UTILITY PLAN C-6 LIGHTING PLAN C-7 C-8 LANDSCAPING PLAN LANDSCAPING NOTES & DETAILS

CONSTRUCTION DETAILS

COVER SHEET

C-10 TO C-11

DRAWING:

C-I

AERIAL MAP

SCALE: $I'' = 100' \pm$

STONEFIELD

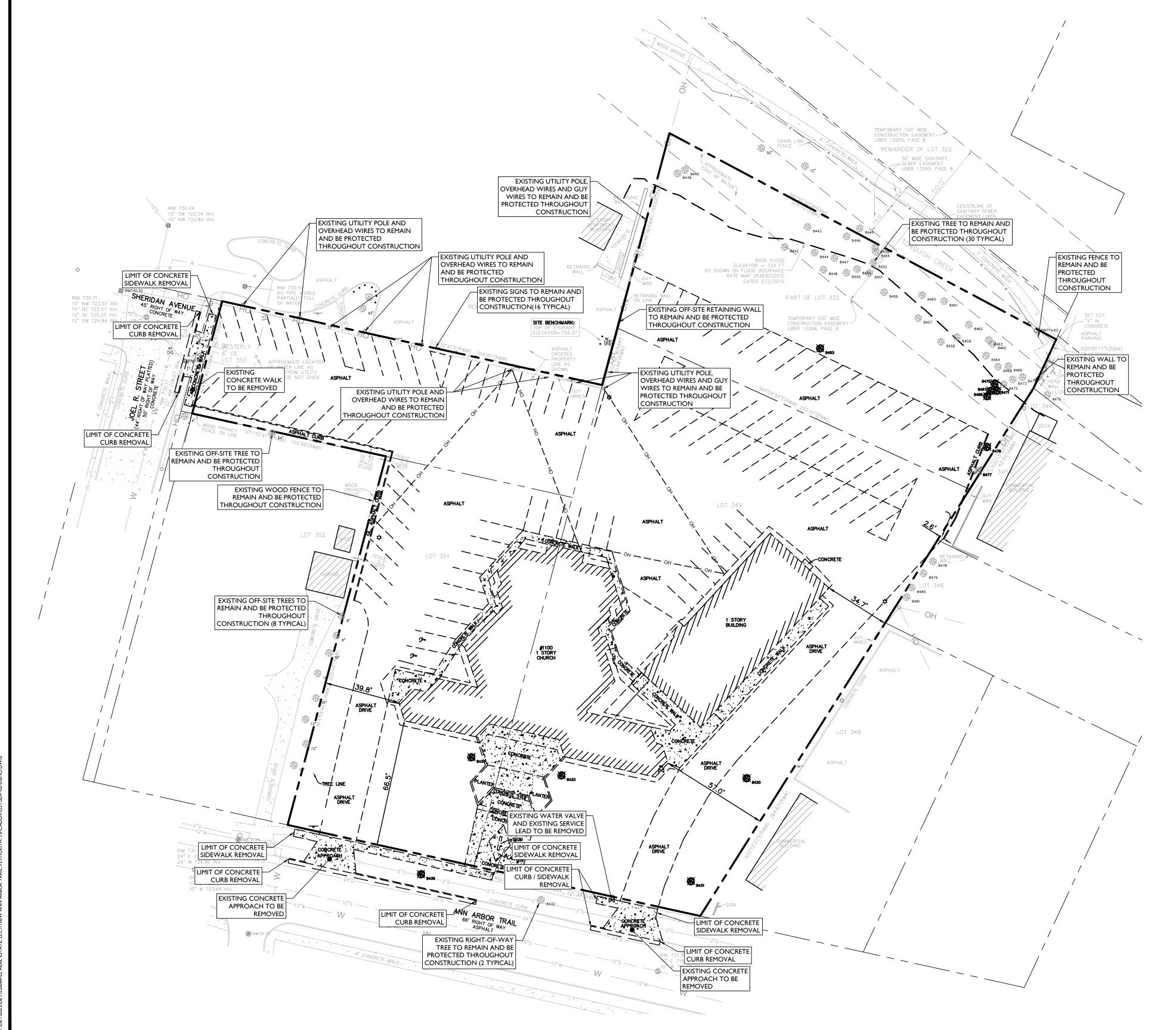
607 Shelby Suite 200 Detroit MI



Call before you dig.

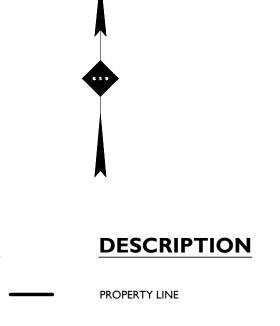
ALL SITE FEATURES WITHIN THE PROPERTY LINE ON THIS PLAN ARE TO BE REMOVED / DEMOLISHED UNLESS OTHERWISE NOTED. ALL FEATURES WITHIN THE RIGHT-OF-WAY ARE TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION **UNLESS OTHERWISE** NOTED.THE CONTRACTOR SHALL NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC. IF SIGNIFICANT DISCREPANCIES ARE DISCERNED BETWEEN THIS PLAN AND FIELD CONDITIONS

TREE REMOVAL AND MITIGATION REQUIREMENTS							
CODE SECTION	REQUIRED	PROPOSED					
	HERITAGE TREE REPLACEMENT REQUIREMENTS						
§ 34-18(1)	HERITAGE TREES SHALL BE REPLACED AT A SLIDING SCALE RATE SET BY THE CITY COMMISSION						
	(2) TWO HERITAGE TREES PROPOSED TO BE REMOVED	2 TREES PROPOSED					
	FRONT YARD REPLACEMENT REQUIREMENTS						
§ 34-19(1)	TREES > 6" BUT LESS THAN HERITAGE TREE						
	TREES SHALL BE REPLACED AT A SLIDING SCALE RATE SET BY THE CITY COMMISSION						
	(2) TWO NON HERITAGE TREES PROPOSED TO BE REMOVED IN THE FRONT YARD	2 TREES PROPOSED					



DEMOLITION NOTES

- I. THE WORK REFLECTED ON THE DEMOLITION PLAN IS TO PROVIDE GENERAL INFORMATION TOWARDS THE EXISTING ITEMS TO BE DEMOLISHED AND/OR REMOVED. THE CONTRACTOR IS RESPONSIBLE TO REVIEW THE ENTIRE PLAN SET AND ASSOCIATED REPORTS/REFERENCE DOCUMENTS INCLUDING ALL DEMOLITION ACTIVITIES AND INCIDENTAL TASKS NECESSARY TO COMPLETE THE SITE IMPROVEMENTS.
- 2. THE CONTRACTOR IS RESPONSIBLE TO DETERMINE THE MEANS AND METHODS OF DEMOLITION ACTIVITIES. 3. EXPLOSIVES SHALL NOT BE USED UNLESS WRITTEN CONSENT FROM BOTH THE OWNER AND ANY APPLICABLE GOVERNING AGENCY IS OBTAINED. BEFORE THE START OF ANY EXPLOSIVE PROGRAM, THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL LOCAL, STATE, AND FEDERAL PERMITS. ADDITIONALLY, THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL SEISMIC TESTING AS REQUIRED AND ANY DAMAGES AS THE RESULT OF SAID DEMOLITION PRACTICES.
- 4. ALL DEMOLITION ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL CODES. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL UTILITIES ARE DISCONNECTED IN ACCORDANCE WITH THE UTILITY AUTHORITY'S REQUIREMENTS PRIOR TO STARTING THE DEMOLITION OF ANY STRUCTURE. ALL EXCAVATIONS ASSOCIATED WITH DEMOLISHED STRUCTURES OR REMOVED TANKS SHALL BE BACKFILLED WITH SUITABLE MATERIAL AND COMPACTED TO SUPPORT SITE AND BUILDING IMPROVEMENTS. A GEOTECHNICAL ENGINEER SHOULD BE PRESENT DURING BACKFILLING ACTIVITIES TO OBSERVE AND CERTIFY THAT BACKFILL MATERIAL WAS COMPACTED TO A SUITABLE CONDITION.
- 5. DEMOLISHED DEBRIS SHALL NOT BE BURIED ON SITE. ALL WASTE/DEBRIS GENERATED FROM DEMOLITION ACTIVITIES SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN ALL RECORDS OF THE DISPOSAL TO DEMONSTRATE COMPLIANCE WITH THE ABOVE REGULATIONS.

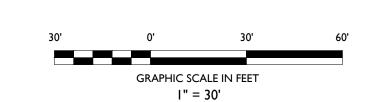




EXISTING TREE TO BE REMOVED

XXX	EXISTING THEE TO BE KEITO
	EXISTING TREE TO REMAIN

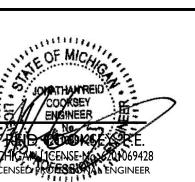
TREE # D.B.H.		CANOPY RADIUS	BOTANICAL NAME	COMMON NAME	CONDITION	COMMENTS	"(N) NOT REGULATED (c = condition)"	HERITAGE (H)	RECOMMENDATION
8430	21	21'	Acer saccharum	Sugar Maple	good			н	TO BE REMOVED
8431	18	18'	Acer saccharum	Sugar Maple	poor	- Extensive rot & dead branches	N (c)		TO BE REMOVED
8432	21	21'	Acer platanoides	Norway Maple	fair	- Girdling root(s)		Н	
8433	6/6/6/	10'	Malus spp.	Crabapple	fair	- Dead branch(es)			TO BE REMOVED
8434	10 / 8 / 6	10'	Malus spp.	Crabapple	fair	- Rot in trunk			TO BE REMOVED
									TO BE KELLOVED
8435	22	22'	Acer platanoides	Norway Maple	fair	- Girdling root(s)		Н	
8436	17	17'	Acer platanoides	Norway Maple	fair	- Scarred trunk	N1 (-)		
8437	6	6'	Acer negundo	Boxelder	poor	- 75% or more dead	N (c)		
8438	6/3	6'	Acer negundo	Boxelder	fair	- Vine-choked			
8439	9	9'	Acer platanoides	Norway Maple	poor	- Substantial rot, missing leader, & substantial lean	N (c)		
8440	19		-		dead		N (c)		
8441	8	8'	Acer platanoides	Norway Maple	fair	- Bent/crooked/bowed leader			
8442	8	8'	Acer negundo	Boxelder	poor	- 75% or more dead	N (c)		
8443	6	6'	Ailanthus altissima	Tree-of-Heaven	poor	- Hollow/extensive rot	N (c)		
8444	14		-		dead		N (c)		
8445	14	14'	Ulmus spp.	Elm	poor	- Base of tree undermined by erosion	N (c)		
8446	9	9'	Ailanthus altissima	Tree-of-Heaven	poor	- Missing main leader, and large area of dead bark	N (c)		
8447	9	9'	Acer negundo	Boxelder	poor	- Lean > 45 degrees	N (c)		
8448	30	30'	Juglans spp.	Walnut	fair	- Rot in trunk	N1 (-)	Н	
8449	7	7'	Acer negundo	Boxelder	poor	- Lean > 45 degrees - Lean > 45 degrees	N (c)		
8450	6 / 4 21	6'	Acer negundo Juglans spp.	Boxelder Walnut	poor	, , , , , , , , , , , , , , , , , , ,	N (c)		
8451 8452	6	21' 6'	Acer negundo	Boxelder	poor	- 75% or more dead - 50% or more dead	N (c)		
8453	43	43'	Juglans spp.	Walnut	fair	- Rot in trunk	(5)	Н	TO BE REMOVED
8454	8	8'	Acer negundo	Boxelder	poor	- 50% or more dead	N (c)		TO BE KELLOVED
8455	6	6'	Ulmus spp.	Elm	fair	- Contorted crown			
8456	14	14'	Acer negundo	Boxelder	poor	- 50% or more dead	N (c)		
8457	7	7'	Ulmus spp.	Elm	fair	- Bent/crooked/bowed leader			
8458	10	10'	Acer negundo	Boxelder	poor	- Extensive rot & dead branches	N (c)		
8459	6				dead		N (c)		
8460	11				dead		N (c)		
8461	27	27'	Populus deltoides	Cottonwood	poor	- 50% or more dead	N (c)		
8462	29	29'	Salix spp.	Willow	poor	- 75% or more dead	N (c)		
8463	10	10'	Acer platanoides	Norway Maple	fair	- Dead branch(es)			
8464	9		-		dead		N (c)		
8465	26	26'	Salix spp.	Willow	poor	- 75% or more dead	N (c)		
8466	7	5'	Ulmus spp.	Elm	poor	- More than half of leader missing	N (c)		
8467	6	6'	Acer platanoides	Norway Maple	fair	- Bent/crooked/bowed leader			TO BE REMOVED
8468	6 / 5	6'	Acer negundo	Boxelder	poor	- 50% or more dead	N (c)		
8469	7/7	7'	Acer negundo	Boxelder	poor	- Lean > 45 degrees	N (c)		TO BE REMOVED
8470	8 / 4	8'	Ulmus spp.	Elm	fair	- More than half of leader missing			TO BE REMOVED
8471	6	6'	Acer platanoides	Norway Maple	poor	- More than half of leader missing	N (c)		TO BE REMOVED
8472	10	10'	Acer negundo	Boxelder	fair	- Contorted crown			
8473	7		-		dead		N (c)		
8474	6	2'	Acer platanoides	Norway Maple	poor	- More than half of leader missing	N (c)		
8475	7	2'	Cercis canadensis	Eastern Redbud	poor	- More than half of leader missing	N (c)		
						-	,		
8476	10 / 8	10'	Acer platanoides	Norway Maple	fair	- Utility-pruned			TO BE REMOVED
8477 8478	7	7'	Pseudotsuga menziesii	Douglasfir	fair	- Utility-pruned			TO BE REMOVED
	9	9'	Picea pungens	Colorado Blue Spruce	good				



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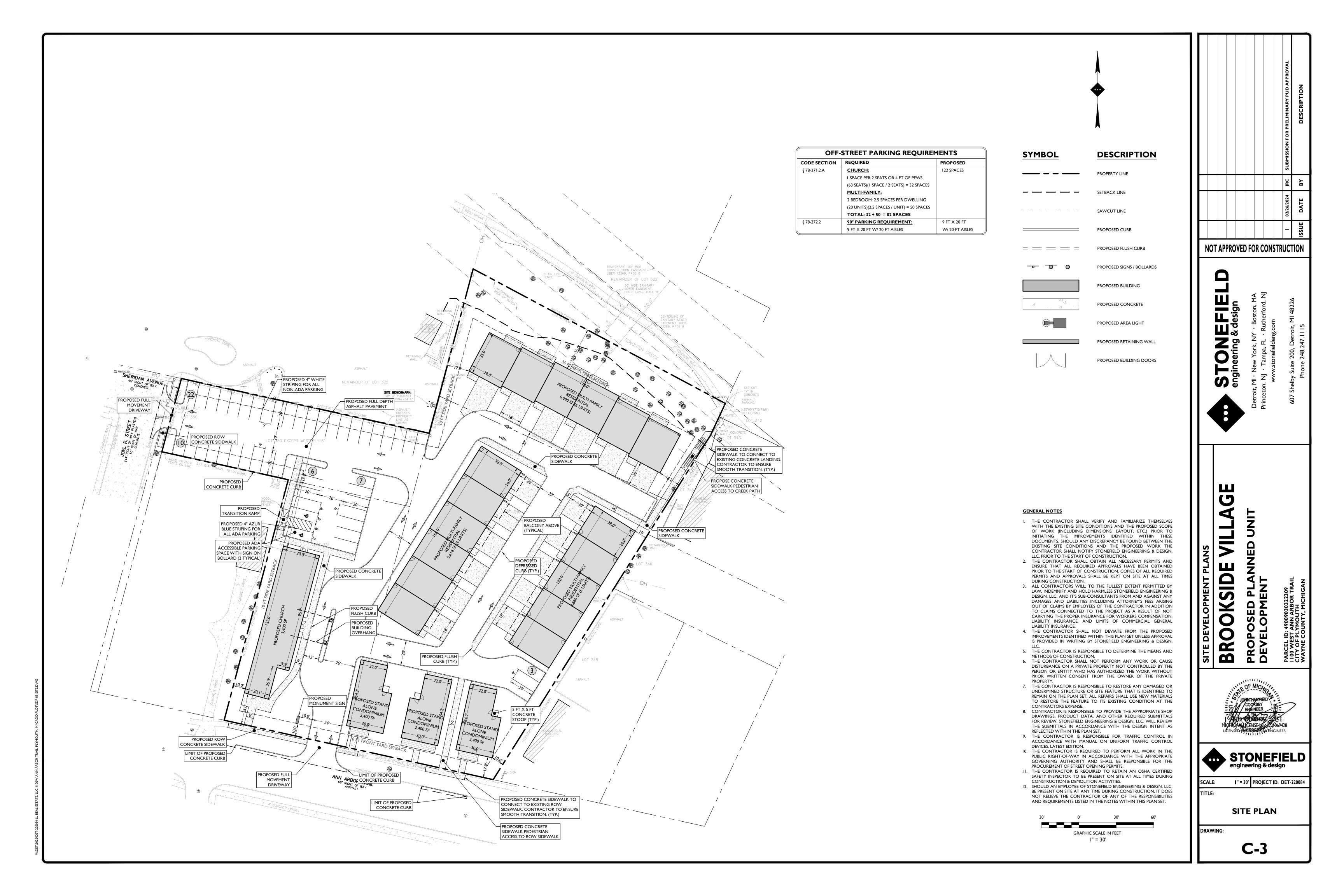


I" = 30' PROJECT ID: DET-220084

DEMOLITION PLAN

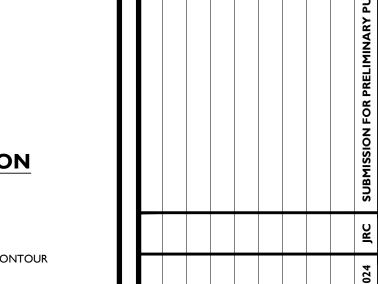
DRAWING:

C-2







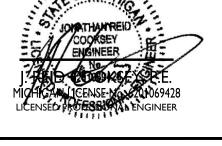


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I" = 30' PROJECT ID: DET-220084

STORMWATER MANAGEMENT PLAN

DRAWING:





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0 0.1 0.2 0.4 0.8 1.2

0.8 1.2 1.4 B (25')

C (20')

0.6 0.6 0.8 0.7 0.8

🖟 A (25') 🗸

	PROPOSED LUMINAIRE SCHEDULE										
SYMBOL	LABEL	QUANTITY	SECURITY LIGHTING	DISTRIBUTION	LLF	MANUFACTURER	IES FILE				
	A	7	MIRADA SMALL LED AREA LIGHT 06L LUMEN PACKAGE W/ HOUSE-SIDE SHIELD - SINGLE	FT	0.90	LSI INDUSTRIES	MRS-LED-06L-SIL-FT-30-70CRI				
	В	I	MIRADASMALL LED AREA LIGHT 06L LUMEN PACKAGE - DOUBLE @180°	FT	0.90	LSI INDUSTRIES	MRS-LED-06L-SIL-FT-30-70CR				
(С	2	ARBOR POST TOP DECORATIVE LUMINAIRE - 2,300 LUMENS	٧	0.90	COOPER LIGHTING	ARB-B2-LED-D1-T5				

A (25')

A (25')

A (25')

A (25')

0.7 0.8 0.7

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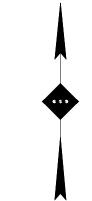
0.1 70.1 70.0 0.0 0.0 0.0 0.0

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0.2 0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0

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7/0,0/0.0 0.0 0.0 0.0



SYMBOL **DESCRIPTION** PROPERTY LINE

> PROPOSED LIGHTING FIXTURE A (XX') (MOUNTING HEIGHT)

> > (FOOTCANDLES) PROPOSED AREA LIGHT

> > > PROPOSED PEDESTRIAN LIGHT

PROPOSED LIGHTING INTENSITY

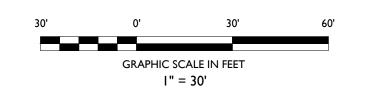
LIGHTING REQUIREMENTS								
CODE SECTION	REQUIRED	PROPOSED						
§ 78-204(a)(1)	ALL OUTDOOR LIGHTING IN RESIDENTIAL USE DISTRICTS USED TO LIGHT THE GENERAL AREA OF A SITE SHALL BE SHIELDED OR DIRECTED IN A MANNER WHICH REDUCES GLARE AND SHALL BE SO ARRANGED AS TO REFLECT OBJECTIONABLE LIGHTS AWAY FROM ALL ADJACENT RESIDENTIAL DISTRICTS OR ADJACENT RESIDENCES	COMPLIES						
§ 78-204(b)(3)a.	MAXIMUM PROPERTY LINE (RESIDENTIAL):	0.1 FC						
	0.1 FC							
§ 78-204(b)(3)a.	MAXIMUM PROPERTY LINE (NON-RESIDENTIAL):	0.4 FC						
	1.0 FC							
§ 78-204(b)(3)b.1.	MINIMUM ILLUMINATION OF LIGHTED AREAS (RESIDENTIAL AND CHURCHES): 0.4 FC	0.0 FC (W)						
§ 78-204(b)(3)b.1.	MAXIMUM ILLUMINATION OF LIGHTED AREAS (RESIDENTIAL AND CHURCHES): 0.6 FC	2.0 FC (W)						
§ 78-204(B)(3)B.1.	MAXIMUM HEIGHT:	25 FT						
	25 FT OR HEIGHT OF BUILDING, WHICHEVER IS LESS							

(W) WAIVER

LIGHTING STATISTICS							
DESCRIPTION	AVERAGE	MINIMUM	MAXIMUM				
OVERALL PARCEL	0.41 FC	0.0 FC	2.0 FC				
PROPERTY LINE (RESIDENTIAL)	0.01 FC	0.0 FC	0.1 FC				
PROPERTY LINE (NON-RESIDENTIAL)	0.08 FC	0.0 FC	0.4 FC				

GENERAL LIGHTING NOTES

- I. THE LIGHTING LEVELS DEPICTED WITHIN THE PLAN SET ARE CALCULATED UTILIZING DATA OBTAINED FROM THE LISTED MANUFACTURER. ACTUAL ILLUMINATION LEVELS AND PERFORMANCE OF ANY PROPOSED LIGHTING FIXTURE MAY VARY DUE TO UNCONTROLLABLE VARIABLES SUCH ARE WEATHER, VOLTAGE SUPPLY, LAMP TOLERANCE, EQUIPMENT SERVICE LIFE AND OTHER VARIABLE FIELD CONDITIONS.
- 2. WHERE APPLICABLE, THE EXISTING LIGHT LEVELS DEPICTED WITHIN THE PLAN SET SHALL BE CONSIDERED APPROXIMATE. THE EXISTING LIGHT LEVELS ARE BASED ON FIELD OBSERVATIONS AND THE MANUFACTURER'S DATA OF THE ASSUMED OR MOST SIMILAR LIGHTING FIXTURE MODEL.
- 3. UNLESS NOTED ELSEWHERE WITHIN THIS PLAN SET, THE LIGHT LOSS FACTORS USED IN THE LIGHTING ANALYSIS ARE AS FOLLOWS: LIGHT EMITTING DIODES (LED): 0.90 HIGH PRESSURE SODIUM:
- METAL HALIDE: 4. THE CONTRACTOR SHALL NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC. IN WRITING, PRIOR TO THE START OF CONSTRUCTION, OF ANY PROPOSED LIGHTING LOCATIONS THAT CONFLICT WITH
- EXISTING/ PROPOSED DRAINAGE, UTILITY, OR OTHER IMPROVEMENTS. 5. THE CONTRACTOR IS RESPONSIBLE TO PREPARE A WIRING PLAN AND PROVIDE ELECTRIC SERVICE TO ALL PROPOSED LIGHTING FIXTURES. THE CONTRACTOR IS REQUIRED TO PREPARE AN AS-BUILT PLAN OF WIRING AND PROVIDE COPIES TO THE OWNER AND STONEFIELD ENGINEERING & DESIGN, LLC.

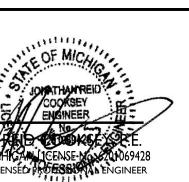


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I" = 30' PROJECT ID: DET-220084

LIGHTING PLAN

DRAWING:

C-7

LANDSCAPE MAINTENANCE SCHEDULE																
MAINITENIANICE TACK		WINTER			S	PRING			S	UMMER				FALL		
MAINTENANCE TASK	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY FREQUENCY JUI		JUNE	JULY	AUGUST	FREQUENCY	SEPTEMBER	OCTOBER	NOVEMBER	FREQUENCY	
SITE INSPECTION				X			ONCE PER SEASON		Х		ONCE PER SEASON			X	ONCE PER SEASON	
DEBRIS & WEED CONTROL				×	×	Х	BI-WEEKLY	Х	Х	×	BI-WEEKLY	X	Х		BI-WEEKLY	
IRRIGATION MAINTENANCE					×		ONCE PER SEASON				N/A		X		ONCE PER SEASON	
MULCHING					×		ONCE PER SEASON				N/A				N/A	
SEASONAL PLANTINGS						Х	ONCE PER SEASON	Х	Х	×	WEEKLY	X	Х	×	WEEKLY	
MOWING OF TURF				Х	X	Х	WEEKLY	Х	Х	×	WEEKLY	X	Х	X	WEEKLY	
MOWING OF WILDFLOWERS							N/A				N/A			X	ONCE PER SEASON	
PRUNING				X	×		MONTHLY				N/A			X	ONCE PER SEASON	
FERTILIZER & AMENDMENTS				Х	×	Х	MONTHLY	Х	Х	×	BI-WEEKLY	X	Х	Х	BI-WEEKLY	
INSECT & DISEASE CONTROL						Х	ONCE PER SEASON	Х	Х	×	BI-WEEKLY	X	Х		N/A	
PLANTING RENOVATION				Х			ONCE PER SEASON				N/A		Х		ONCE PER SEASON	
LANDSCAPE STRUCTURES INSPECTION					Х		ONCE PER SEASON				N/A				N/A	
LIGHTING MAINTENANCE				×			ONCE PER SEASON				N/A		Х		ONCE PER SEASON	
PAVED SURFACE MAINTENANCE					Х		ONCE PER SEASON				N/A				N/A	

	E X
	BANK RECOMMENDATIONS AND
	ENHANCEMENT TO BE COMPLETED BY CHAMPION DEVELOPMENT GROUP, LLC
	7 ILE
SHERIDAN AVENUE 45' RIGHT ONCRETE WAY	
AREA TO BE LAWN PARKIN PARKI	PROPOSED G LOT TREE
I CER I CER W	
PARKING A LICER WI ACE PARKING A LICER WI ACE	IZ ICH
PROPOSED STREET TREE	PROPOSED
AREA TO BE LAWN PROPOSED PARKING LOT TREE (#8 OF 12) PROPOSED PARKING LOT TREE	PARKING LOT TREE (#3 OF 12)
EOT TREE (#9, 10, 11, & 12 OF 12)	×) CER
5 CEA I ACE	AREA TO BE LAWN
AREA TO BE LAWN	
	5 ICH
3 VIB B TAX	AREA TO BE LAWN (TYPICAL)
3 ROS	
3 ROS	
3 TAX	APEA TO BE LAWAII
3 VER 4 VIB I ACE	
	I ACE
2 AME	PROPOSED
AREA TO BE LAWN	PARKING LOT TREE (#4 OF 12) AREA TO BE LAWN
PROPOSED PARKING LOT TREE (#5, 6, & 7 OF 12)	
(#5, 6, & 7 OF I2)	
2"G 10"S 24"D	ILE B TAX
W ANN ARBOR TRAIL 10"S 66' RIGHT OF WAY ASPHALT WAY WAY 10"S	TO BE LAWN (TYPICIAL)
W $12"_{W}$ W	(TYPCIAL)
	12"W
	W

	LANDSCAPING AND BUFFER REQUIREMENTS									
CODE SECTION	REQUIRED	PROPOSED								
	PARKING AREA SCREENING									
§ 78-167.(e)(1)a.	OFF-STREET PARKING SHALL BE BUFFERED FROM VIEW FROM PUBLIC RIGHTS-OF-WAY	COMPLIES								
§ 78-167.(e)(2)d.	MINIMUM 4 FT BUFFER REQUIRED BETWEEN PARKING AREA AND STREET	ANN ARBOR TRAIL: N/A ⁽¹⁾ JOEL R STREET: 5.4 FT PROVIDED								
	36" HIGH MASONRY SCREENING REQUIRED	36" HIGH EVERGREEN HEDGE PROPOSED								
	I TREE FOR EVERY 40 LF OF FRONTAGE									
	ANN ARBOR TRAIL: NO PARKING PROPOSED	N/A ⁽¹⁾								
	JOEL R. STREET: 40 FT									
	(40 FT) * (I TREE / 40 LF OF FRONTAGE) = I TREE	I TREE PROPOSED								
	INTERIOR PARKING LOT LANDSCAPING									
§ 78-168.(a)(1)a.	PARKING LOTS 25 - 100 SPACES:									
	I TREE FOR EVERY 10 SPACES									
	(122 SPACES) * (1 TREE / 10 SPACES) = 12 TREES	12 TREES PROPOSED								
	100 SF OF LANDSCAPE AREA FOR EVERY 10 SPACES									
	(122 SPACES) * (100 SF / 10 SPACES) = 1,200 SF	1,969 SF PROVIDED								
§ 78-168.(a)(2)	MINIMUM LANDSCAPE AREA: 60 SF	45 SF PROVIDED								

(N/A) NOT APPLICABLE

(I) INTERNAL DRIVE ISLES AND PARKING DO NOT ABUT ROADWAY FRONTAGE.

PLANT SCHEDULE												
DECIDUOUS TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	REMARKS					
\odot	ACE	7	ACER SACCHARUM	SUGAR MAPLE	3" - 3.5" CAL	B&B	NATIVE, DROUGHT TOLERANT					
	CEL	I	CELTIS OCCIDENTALIS	COMMON HACKBERRY	3.5" - 4" CAL	B&B	NATIVE, DROUGHT TOLERANT, SALT TOLERANT					
ORNAMENTAL TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	REMARKS					
€	AME	2	AMELANCHIER ARBOREA	DOWNY SERVICEBERRY	2" - 2.5" CAL	B&B	NATIVE, DROUGHT TOLERANT, SALT TOLERANT					
\bigcirc	CER	3	CERCIS CANADENSIS	EASTERN REDBUD	2.5" - 3" CAL	B&B	NATIVE					
SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	REMARKS					
•	CEA	9	CEANOTHUS AMERICANUS	NEW JERSEY TEA	30" - 36"	POT	NATIVE, DROUGHT TOLERANT					
0	VER	3	ILEX VERTICILLATA 'RED SPRITE'	RED SPRITE WINTERBERRY	30" - 36"	РОТ	NATIVE, SALT TOLERANT					
0	ROS	6	rosa virginiana	VIRGINIA ROSE	30" - 36"	РОТ	NATIVE, DROUGHT TOLERANT, SALT TOLERANT					
(+)	VIB	7	VIBURNUM ACERIFOLIUM	MAPLELEAF VIBURNUM	36" - 42"	POT	NATIVE, DROUGHT TOLERANT					
EVERGREEN SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	REMARKS					
\otimes	ICH	22	ILEX CRENATA 'CHESAPEAKE'	CHESAPEAKE JAPANESE HOLLY	36" - 42"	POT	-					
0	ILE	39	ILEX GLABRA 'COMPACTA'	COMPACT INKBERRY	36" - 42"	РОТ	DROUGHT TOLERANT, SALT TOLERANT					
\otimes	TAX	58	TAXUS CANADENSIS	CANADA YEW	30" - 36"	РОТ	NATIVE, DROUGHT TOLERANT					

NOTE: IF ANY DISCREPANCIES OCCUR BETWEEN AMOUNTS SHOWN ON THE LANDSCAPE PLAN AND WITHIN THE PLANT LIST, THE PLAN SHALL DICTATE.



IRRIGATION NOTE:

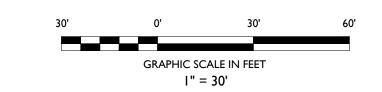
IRRIGATION CONTRACTOR TO PROVIDE A DESIGN FOR AN IRRIGATION SYSTEM SEPARATING PLANTING BEDS FROM LAWN AREA. PRIOR TO CONSTRUCTION, DESIGN IS TO BE SUBMITTED TO THE PROJECT LANDSCAPE DESIGNER FOR REVIEW AND APPROVAL. WHERE POSSIBLE, DRIP IRRIGATION AND OTHER WATER CONSERVATION TECHNIQUES SUCH AS RAIN SENSORS SHALL BE IMPLEMENTED. CONTRACTOR TO VERIFY MAXIMUM ON SITE DYNAMIC WATER PRESSURE AVAILABLE MEASURED IN PSI. PRESSURE REDUCING DEVICES OR BOOSTER PUMPS SHALL BE PROVIDED TO MEET SYSTEM PRESSURE REQUIREMENTS. DESIGN TO SHOW ALL VALVES, PIPING, HEADS, BACKFLOW PREVENTION, METERS, CONTROLLERS, AND SLEEVES WITHIN HARDSCAPE AREAS.

LANDSCAPING NOTES

- I. THE CONTRACTOR SHALL RESTORE ALL DISTURBED GRASS AND LANDSCAPED AREAS TO MATCH EXISTING CONDITIONS UNLESS
- INDICATED OTHERWISE WITHIN THE PLAN SET.

 THE CONTRACTOR SHALL RESTORE ALL DISTURBED LAWN AREAS WITH A MINIMUM 4 INCH LAYER OF TOPSOIL AND SEED.
- 3. THE CONTRACTOR SHALL RESTORE MULCH AREAS WITH A MINIMUM 3 INCH LAYER OF MULCH .

 4. THE MAXIMUM SLOPE ALLOWABLE IN LANDSCAPE RESTORATION
- AREAS SHALL BE 3 FEET HORIZONTAL TO I FOOT VERTICAL (3:1 SLOPE) UNLESS INDICATED OTHERWISE WITHIN THE PLAN SET. 5. THE CONTRACTOR IS REQUIRED TO LOCATE ALL SPRINKLER HEADS IN AREA OF LANDSCAPING DISTURBANCE PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL RELOCATE SPRINKLER HEADS AND LINES IN ACCORDANCE WITH OWNER'S DIRECTION WITHIN AREAS OF DISTURBANCE.
- 6. THE CONTRACTOR SHALL ENSURE THAT ALL DISTURBED LANDSCAPED AREAS ARE GRADED TO MEET FLUSH AT THE ELEVATION OF WALKWAYS AND TOP OF CURB ELEVATIONS EXCEPT UNLESS INDICATED OTHERWISE WITHIN THE PLAN SET. NO ABRUPT CHANGES IN GRADE ARE PERMITTED IN DISTURBED LANDSCAPING AREAS.



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BROOKSIDE

J. REID COOKSEY, P.E. MICHIGAN LICENSE No. 6201069428 LICENSED PROFESSIONAL ENGINEER

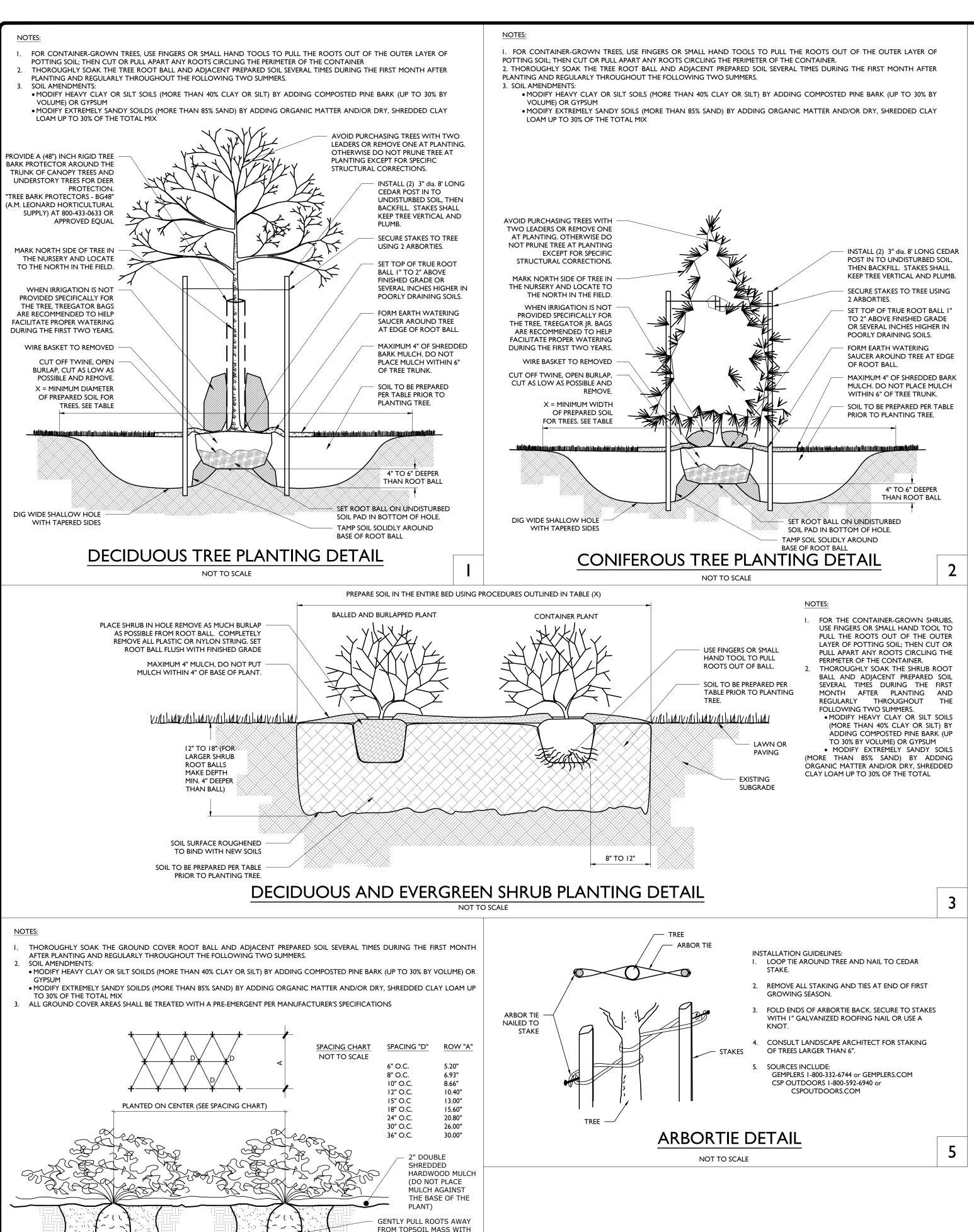


I" = 30' PROJECT ID: DET-220084

LANDSCAPING PLAN

DRAWING:

C-8



FINGERS

GROUND COVER/PERENNIAL/ANNUAL

PLANTING DETAIL

BACKFILL SOIL

1 PART SOIL AMENDMENT

(BASED ON SOIL TEST)

3 PARTS NATIVE TOPSOIL

GENERAL LANDSCAPING NOTES

- I. THE LANDSCAPE CONTRACTOR SHALL FURNISH ALL MATERIALS AND PERFORM ALL WORK IN ACCORDANCE WITH THESE I. ALL PLANT MATERIAL SHALL CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1-2004) OR LATEST SPECIFICATIONS, APPROVED OR FINAL DRAWINGS, AND INSTRUCTIONS PROVIDED BY THE PROJECT LANDSCAPE DESIGNER, MUNICIPAL OFFICIALS, OR OWNER/OWNER'S REPRESENTATIVE. ALL WORK COMPLETED AND MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH THE INTENTION OF THE SPECIFICATIONS, DRAWINGS, AND INSTRUCTIONS AND EXECUTED WITH THE STANDARD LEVEL OF CARE FOR THE LANDSCAPE INDUSTRY.
- . WORK MUST BE CARRIED OUT ONLY DURING WEATHER CONDITIONS FAVORABLE TO LANDSCAPE CONSTRUCTION AND TO THE HEALTH AND WELFARE OF PLANTS. THE SUITABILITY OF SUCH WEATHER CONDITIONS SHALL BE DETERMINED BY THE PROJECT LANDSCAPE DESIGNER OR GOVERNING MUNICIPAL OFFICIAL.
- 3. IT IS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR, BEFORE ORDERING OR PURCHASING MATERIALS, TO PROVIDE SAMPLES OF THOSE MATERIALS TO THE PROJECT LANDSCAPE DESIGNER OR GOVERNING MUNICIPAL OFFICIAL FOR APPROVAL,
- IF SO REQUESTED. 4. IF SAMPLES ARE REQUESTED, THE LANDSCAPE CONTRACTOR IS TO SUBMIT CERTIFICATION TAGS FROM TREES, SHRUBS AND
- SEED VERIFYING TYPE AND PURITY. 5. UNLESS OTHERWISE AUTHORIZED BY THE PROJECT LANDSCAPE DESIGNER OR GOVERNING MUNICIPAL OFFICIAL, THE LANDSCAPE CONTRACTOR SHALL PROVIDE NOTICE AT LEAST FORTY-EIGHT HOURS (48 HRS.) IN ADVANCE OF THE ANTICIPATED DELIVERY DATE OF ANY PLANT MATERIALS TO THE PROJECT SITE. A LEGIBLE COPY OF THE INVOICE, SHOWING
- VARIETIES AND SIZES OF MATERIALS INCLUDED FOR EACH SHIPMENT SHALL BE FURNISHED TO THE PROJECT LANDSCAPE DESIGNER, OR GOVERNING MUNICIPAL OFFICIAL 6. THE PROJECT LANDSCAPE DESIGNER OR GOVERNING MUNICIPAL OFFICIAL RESERVES THE RIGHT TO INSPECT AND REJECT PLANTS AT ANY TIME AND AT ANY PLACE.

PROTECTION OF EXISTING VEGETATION NOTES

- BEFORE COMMENCING WORK, ALL EXISTING VEGETATION WHICH COULD BE IMPACTED AS A RESULT OF THE PROPOSED CONSTRUCTION ACTIVITIES MUST BE PROTECTED FROM DAMAGE BY THE INSTALLATION OF TREE PROTECTION FENCING. FENCING SHALL BE LOCATED AT THE DRIP-LINE OR LIMIT OF DISTURBANCE AS DEPICTED WITHIN THE APPROVED OR FINAL PLAN SET, ESTABLISHING THE TREE PROTECTION ZONE. FENCE INSTALLATION SHALL BE IN ACCORDANCE WITH THE PROVIDED "TREE PROTECTION FENCE DETAIL." NO WORK MAY BEGIN UNTIL THIS REQUIREMENT IS FULFILLED. THE FENCING SHALL BE INSPECTED REGULARLY BY THE LANDSCAPE CONTRACTOR AND MAINTAINED UNTIL ALL CONSTRUCTION
- ACTIVITIES HAVE BEEN COMPLETED. IN ORDER TO AVOID DAMAGE TO ROOTS, BARK OR LOWER BRANCHES, NO VEHICLE, EOUIPMENT, DEBRIS, OR OTHER MATERIALS SHALL BE DRIVEN, PARKED OR PLACED WITHIN THE TREE PROTECTION ZONE. ALL ON-SITE CONTRACTORS SHALL USE ANY AND ALL PRECAUTIONARY MEASURES WHEN PERFORMING WORK AROUND TREES, WALKS, PAVEMENTS, UTILITIES, AND ANY OTHER FEATURES EITHER EXISTING OR PREVIOUSLY INSTALLED UNDER THIS CONTRACT. 3. IN RARE INSTANCES WHERE EXCAVATING, FILL, OR GRADING IS REQUIRED WITHIN THE DRIP-LINE OF TREES TO REMAIN, THE
- WORK SHALL BE PERFORMED AS FOLLOWS: • TRENCHING: WHEN TRENCHING OCCURS AROUND TREES TO REMAIN, THE TREE ROOTS SHALL NOT BE CUT, BUT THE TRENCH SHALL BE TUNNELED UNDER OR AROUND THE ROOTS BY CAREFUL HAND DIGGING AND WITHOUT INJURY TO THE ROOTS. NO ROOTS, LIMBS, OR WOODS ARE TO HAVE ANY PAINT OR MATERIAL APPLIED TO ANY SURFACE.
- RAISING GRADES: WHEN THE GRADE AT AN EXISTING TREE IS BELOW THE NEW FINISHED GRADE, AND FILL NOT EXCEEDING 6 INCHES (6") IS REQUIRED, CLEAN, WASHED GRAVEL FROM ONE TO TWO INCHES (1" - 2") IN SIZE SHALL BE PLACED DIRECTLY AROUND THE TREE TRUNK. THE GRAVEL SHALL EXTEND OUT FROM THE TRUNK ON ALL SIDES A MINIMUM OF 18 INCHES (18") AND FINISH APPROXIMATELY TWO INCHES (2") ABOVE THE FINISH GRADE AT TREE. INSTALL GRAVEL BEFORE ANY FARTH FILL IS PLACED. NEW FARTH FILL SHALL NOT BE LEFT IN CONTACT WITH THE TRUNK OF ANY TREE REQUIRING FILL. WHERE FILL EXCEEDING 6 INCHES (6") IS REQUIRED, A DRY LAID TREE WELL SHALL BE CONSTRUCTED. IF APPLICABLE, TREE WELL INSTALLATION SHALL BE IN ACCORDANCE WITH THE PROVIDED "TREE WELL DETAIL."
- LOWERING GRADES: EXISTING TREES LOCATED IN AREAS WHERE THE NEW FINISHED GRADE IS TO BE LOWERED, SHALL HAVE RE-GRADING WORK DONE BY HAND TO THE INDICATED ELEVATION. NO GREATER THAN SIX INCHES (6"). ROOTS SHALL BE CUT CLEANLY THREE INCHES (3") BELOW FINISHED GRADE UNDER THE DIRECTION OF A LICENSED ARBORIST WHERE CUT EXCEEDING 6 INCHES (6") IS REQUIRED, A DRY LAID RETAINING WALL SHALL BE CONSTRUCTED. IF APPLICABLE, THE RETAINING WALL INSTALLATION SHALL BE IN ACCORDANCE WITH THE PROVIDED "TREE RETAINING WALL DETAIL."

SOIL PREPARATION AND MULCH NOTES:

- I. LANDSCAPE CONTRACTOR SHALL OBTAIN A SOIL TEST OF THE IN-SITU TOPSOIL BY A CERTIFIED SOIL LABORATORY PRIOR TO PLANTING. LANDSCAPE CONTRACTOR SHALL ALLOW FOR A TWO WEEK TURNAROUND TIME FROM SUBMITTAL OF SAMPLE TO NOTIFICATION OF RESULTS
- 2. BASED ON SOIL TEST RESULTS, ADJUST THE RATES OF LIME AND FERTILIZER THAT SHALL BE MIXED INTO THE TOP SIX INCHES (6") OF TOPSOIL. THE LIME AND FERTILIZER RATES PROVIDED WITHIN THE "SEED SPECIFICATION" OR "SOD SPECIFICATION" IS APPROXIMATE AND FOR BIDDING PURPOSES ONLY. IF ADDITIONAL AMENDMENTS ARE NECESSARY, ADJUST THE TOPSOIL AS
- MODIFY HEAVY CLAY OR SILT SOILS (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) OR GYPSUM.
- MODIFY EXTREMELY SANDY SOILS (MORE THAN 85%) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX. TOPSOIL SHALL BE FERTILE, FRIABLE, NATURAL TOPSOIL OF LOAMING CHARACTER, WITHOUT ADMIXTURE OF SUBSOIL MATERIAL OBTAINED FROM A WELL-DRAINED ARABLE SITE, FREE FROM ALL CLAY, LUMPS, COARSE SANDS, STONES, PLANTS,
- ROOTS, STICKS, AND OTHER FOREIGN MATERIAL GREATER THAN ONE INCH (1"). 4. TOPSOIL SHALL HAVE A PH RANGE OF 5.0-7.0 AND SHALL NOT CONTAIN LESS THAN 6% ORGANIC MATTER BY WEIGH 5. OBTAIN TOPSOIL ONLY FROM LOCAL SOURCES OR FROM AREAS HAVING SIMILAR SOIL CHARACTERISTICS TO THAT FOUND AT
- THE PROJECT SITE. . CONTRACTOR SHALL PROVIDE A SIX INCH (6") DEEP LAYER OF TOPSOIL IN ALL PLANTING AREAS. TOPSOIL SHALL BE SPREAD OVER A PREPARED SURFACE IN A UNIFORM LAYER TO ACHIEVE THE DESIRED COMPACTED THICKNESS. THE SPREADING OF
- TOPSOIL SHALL NOT BE CONDUCTED UNDER MUDDY OR FROZEN SOIL CONDITIONS. UNLESS OTHERWISE NOTED IN THE CONTRACT, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF TOPSOIL AND THE ESTABLISHMENT OF FINE-GRADING WITHIN THE DISTURBED AREA OF THE SITE.
- LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE SUB-GRADE ELEVATION MEETS THE FINISHED GRADE ELEVATION (LESS REOUIRED TOPSOIL). IN ACCORDANCE WITH THE APPROVED OR FINAL GRADING PLAN 9. ALL LAWN AND PLANTING AREAS SHALL BE GRADED TO A SMOOTH, EVEN AND UNIFORM PLANE WITH NO ABRUPT CHANGE OF SURFACE AS DEPICTED WITHIN THE APPROVED OR FINAL CONSTRUCTION SET UNLESS OTHERWISE DIRECTED BY THE
- PROJECT LANDSCAPE DESIGNER OR MUNICIPAL OFFICIAL IO. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER SURFACE AND SUBSURFACE PLANT BED DRAINAGE PRIOR TO THE INSTALLATION OF PLANTINGS. IF POOR DRAINAGE CONDITIONS EXIST, CORRECTIVE ACTION SHALL BE TAKEN PRIOR TO INSTALLATION. ALL PLANTING AND LAWN AREAS SHALL BE GRADED AND MAINTAINED TO ALLOW A FREE FLOW OF SURFACE
- II. DOUBLE SHREDDED HARDWOOD MULCH OR APPROVED EQUAL SHALL BE USED AS A FOUR INCH (4") TOP DRESSING IN ALL SHRUB PLANTING BEDS AND AROUND ALL TREES PLANTED BY LANDSCAPE CONTRACTOR, GROUND COVER, PERENNIAL, AND ANNUAL PLANTING BEDS SHALL BE MULCHED WITH A TWO INCH (2") TOP DRESSING. SINGLE TREES OR SHRUBS SHALL BE MULCHED TO AVOID CONTACT WITH TRUNK OR PLANT STEM. MULCH SHALL BE OF SUFFICIENT CHARACTER AS NOT TO BE
- EASILY DISPLACED BY WIND OR WATER RUNOFF WHENEVER POSSIBLE, THE SOIL PREPARATION AREA SHALL BE CONNECTED FROM PLANTING TO PLANTING. 13. SOIL SHALL BE LOOSENED WITH A BACKHOE OR OTHER LARGE COARSE-TILING EQUIPMENT UNLESS THE SOIL IS FROZEN OR EXCESSIVELY WET. TILING THAT PRODUCES LARGE, COARSE CHUNKS OF SOIL IS PREFERABLE TO TILING THAT RESULTS IN FINE
- GRAINS UNIFORM IN TEXTURE. AFTER THE AREA IS LOOSENED IT SHALL NOT BE DRIVEN OVER BY ANY VEHICLE 14. APPLY PRE-EMERGENT WEED CONTROL TO ALL PLANT BEDS PRIOR TO MULCHING. ENSURE COMPATIBILITY BETWEEN PRODUCT AND PLANT MATERIAL
- 15. ALL PLANTING SOIL SHALL BE AMENDED WITH THE FOLLOWING

AROUND ITS PERIMETER, AT A DEPTH OF ABOUT 4 INCHES.

- MYCRO® TREE SAVER A DRY GRANULAR MYCORRHIZAL FUNGI INOCULANT THAT IS MIXED IN THE BACKFILL WHEN PLANTING TREES AND SHRUBS. IT CONTAINS SPORES OF BOTH ECTOMYCORRHIZAL AND VA MYCORRHIZAL FUNGI (VAM), BENEFICIAL RHIZOSPHERE BACTERIA. TERRA-SORB SUPERABSORBENT HYDROGEL TO REDUCE WATER LEACHING. AND SELECTED ORGANIC MICROBIAL NUTRIENTS
- DIRECTIONS FOR USE: USE 3-OZ PER EACH FOOT DIAMETER OF THE ROOT BALL, OR 3-OZ PER INCH CALIPER. MIX INTO THE BACKFILL WHEN TRANSPLANTING TREES AND SHRUBS. MIX PRODUCT IN A RING-SHAPED VOLUME OF SOIL AROUND THE UPPER PORTION OF THE ROOT BALL, EXTENDING FROM THE SOIL SURFACE TO A DEPTH OF ABOUT 8 INCHES, AND EXTENDING OUT FROM THE ROOT BALL ABOUT 8 INCHES INTO THE BACKFILL. APPLY WATER TO SOIL SATURATION. MYCOR® TREE SAVER® IS EFFECTIVE FOR ALL TREE AND SHRUB SPECIES EXCEPT RHODODENDRONS, AZALEAS, AND MOUNTAIN LAUREL. WHICH REQUIRE ERICOID MYCORRHIZAE.
- SOIL PH: THE FUNGI IN THIS PRODUCT WERE CHOSEN BASED ON THEIR ABILITY TO SURVIVE AND COLONIZE PLANT ROOTS IN A PH RANGE OF 3 TO 9.
- FUNGICIDES: THE USE OF CERTAIN FUNGICIDES CAN HAVE A DETRIMENTAL EFFECT ON THE INOCULATION PROGRAM. SOIL APPLICATION OF ANY FUNGICIDE IS NOT RECOMMENDED FOR TWO WEEKS AFTER APPLICATION.
- OTHER PESTICIDES: HERBICIDES AND INSECTICIDES DO NOT NORMALLY INTERFERE WITH MYCORRHIZAL FUNGAL DEVELOPMENT, BUT MAY INHIBIT THE GROWTH OF SOME TREE AND SHRUB SPECIES IF NOT USED PROPERLY.
- FERTILIZER TABLETS ARE PLACED IN THE UPPER 4 INCHES OF BACKFILL SOIL WHEN PLANTING TREES AND SHRUBS. • TABLETS ARE FORMULATED FOR LONG-TERM RELEASE BY SLOW BIODEGRADATION, AND LAST UP TO 2 YEARS AFTER PLANTING. TABLETS CONTAIN 12-8-8 NPK FERTILIZER, AS WELL AS A MINIMUM OF SEVEN PERCENT (7%) HUMIC ACID BY WEIGHT, MICROBIAL NUTRIENTS DERIVED FROM SEA KELP, PROTEIN BYPRODUCTS, AND YUCCA SCHIDIGERA, AND A COMPLEMENT OF BENEFICIAL RHIZOSPHERE BACTERIA. THE STANDARD 21 GRAM TABLET IS SPECIFIED HERE. DIRECTIONS FOR USE: FOR PLANTING BALLED & BURLAPPED (B&B) TREES AND SHRUBS, MEASURE THE THICKNESS OF THE TRUNK, AND USE ABOUT I TABLET (21-G) PER HALF-INCH. PLACE THE TABLETS DIRECTLY NEXT TO THE ROOT BALL, EVENLY DISTRIBUTED

IRRIGATION DURING ESTABLISHMENT								
SIZE AT PLANTING	IRRIGATION FOR VITALITY	IRRIGATION FOR SURVIVAL						
< 2" CALIPER	DAILY FOR TWO WEEKS, EVERY OTHER DAY FOR TWO MONTHS, WEEKLY UNTIL ESTABLISHED	TWO TO THREE TIMES WEEKLY FOR TWO TO THREE MONTHS						
2"-4 CALIPER	DAILY FOR ONE MONTH, EVERY OTHER DAY FOR THREE MONTHS, WEEKLY UNTIL ESTABLISHED	TWO TO THREE TIMES WEEKLY FOR THREE TO FOUR MONTHS						
4 >" CALIPER	DAILY FOR SIX WEEKS, EVERY OTHER DAY FOR FIVE	TWICE WEEKLY FOR FOUR TO FIVE						

- I. AT EACH IRRIGATION, APPLY TWO TO THREE GALLONS PER INCH TRUNK CALIPER TO THE ROOT BALL SURFACE. APPLY IT IN A MANNER SO ALL WATER SOAKS THE ENTIRE ROOT BALL. DO NOT WATER IF ROOT BALL IS WET/SATURATED ON THE IRRIGATION DAY.
- 2. WHEN IRRIGATING FOR VITALITY, DELETE DAILY IRRIGATION WHEN PLANTING IN WINTER OR WHEN PLANTING IN COOL CLIMATES. ESTABLISHMENT TAKES THREE TO FOUR MONTHS PER INCH TRUNK CALIPER. NEVER APPLY IRRIGATION IF THE SOIL IS SATURATED.
- 3. WHEN IRRIGATION FOR SURVIVAL, TREES TAKE MUCH LONGER TO ESTABLISH THAN REGULARLY IRRIGATED TREES. IRRIGATION MAY BE REQUIRED IN THE NORMAL HOT, DRY PORTIONS OF THE FOLLOWING YEAR.

PLANT QUALITY AND HANDLING NOTES

- REVISION AS PUBLISHED BY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION. 2. IN ALL CASES, BOTANICAL NAMES LISTED WITHIN THE APPROVED OR FINAL PLANT LIST SHALL TAKE PRECEDENCE OVER
- COMMON NAMES. 3. ALL PLANTS SHALL BE OF SELECTED SPECIMEN QUALITY, EXCEPTIONALLY HEAVY, TIGHTLY KNIT, SO TRAINED OR FAVORED IN THEIR DEVELOPMENT AND APPEARANCE AS TO BE SUPERIOR IN FORM, NUMBER OF BRANCHES, COMPACTNESS AND SYMMETRY.
- ALL PLANTS SHALL HAVE A NORMAL HABIT OR SOUND. HEALTHY, VIGOROUS PLANTS WITH WELL DEVELOPED ROOT SYSTEM. PLANTS SHALL BE FREE OF DISEASE, INSECT PESTS, EGGS OR LARVAE
- 4. PLANTS SHALL NOT BE PRUNED BEFORE DELIVERY. TREES WITH ABRASION OF THE BARK, SUNSCALDS, DISFIGURING KNOTS OR FRESH CUTS OF LIMBS OVER ONE AND ONE-FOURTH INCHES (I-1/4") WHICH HAVE NOT COMPLETELY CALLOUSED SHALL BE
- 5. ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY AND SHALL HAVE A NORMAL HABIT OF GROWTH AND BE LEGIBLY TAGGED WITH THE PROPER NAME AND SIZE.
- 6. THE ROOT SYSTEM OF EACH PLANT SHALL BE WELL PROVIDED WITH FIBROUS ROOTS. ALL PARTS SHALL BE SOUND, HEALTHY,
- VIGOROUS. WELL-BRANCHED AND DENSELY FOLIATED WHEN IN LEAF 7. ALL PLANTS DESIGNATED BALL AND BURLAP (B&B) MUST BE MOVED WITH THE ROOT SYSTEM AS SOLID UNITS WITH BALLS OF EARTH FIRMLY WRAPPED WITH BURLAP. THE DIAMETER AND DEPTH OF THE BALLS OF EARTH MUST BE SUFFICIENT TO encompass the fibrous root feeding systems necessary for the healthy development of the plant. No plant SHALL BE ACCEPTED WHEN THE BALL OF EARTH SURROUNDING ITS ROOTS HAS BEEN BADLY CRACKED OR BROKEN PREPARATORY TO OR DURING THE PROCESS OF PLANTING. THE BALLS SHALL REMAIN INTACT DURING ALL OPERATIONS. ALL PLANTS THAT CANNOT BE PLANTED AT ONCE MUST BE HEELED-IN BY SETTING IN THE GROUND AND COVERING THE BALLS WITH SOIL OR MULCH AND THEN WATERING. HEMP BURLAP AND TWINE IS PREFERABLE TO TREATED. IF TREATED BURLAP IS USED, ALL TWINE IS TO BE CUT FROM AROUND THE TRUNK AND ALL BURLAP IS TO BE REMOVED.
- 8. PLANTS TRANSPORTED TO THE PROJECT IN OPEN VEHICLES SHALL BE COVERED WITH TARPS OR OTHER SUITABLE COVERS SECURELY FASTENED TO THE BODY OF THE VEHICLE TO PREVENT INJURY TO THE PLANTS. CLOSED VEHICLES SHALL BE ADEQUATELY VENTILATED TO PREVENT OVERHEATING OF THE PLANTS, EVIDENCE OF INADEQUATE PROTECTION FOLLOWING DIGGING, CARELESSNESS WHILE IN TRANSIT, OR IMPROPER HANDLING OR STORAGE SHALL BE CAUSE FOR REJECTION OF PLANT MATERIAL. ALL PLANTS SHALL BE KEPT MOIST, FRESH, AND PROTECTED. SUCH PROTECTION SHALL ENCOMPASS THE ENTIRE PERIOD DURING WHICH THE PLANTS ARE IN TRANSIT, BEING HANDLED, OR ARE IN TEMPORARY STORAGE.
- 9. ALL PLANT MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH THE CORRESPONDING LANDSCAPE PLAN AND PLANTING 10. LANDSCAPE CONTRACTOR SHALL MAKE BEST EFFORT TO INSTALL PLANTINGS ON THE SAME DAY AS DELIVERY. IF PLANTS ARE NOT PLANTED IMMEDIATELY ON SITE, PROPER CARE SHALL BE TAKEN TO PLACE THE PLANTINGS IN PARTIAL SHADE WHEN possible. The root ball shall be kept moist at all time and covered with moistened mulch or aged WOODCHIPS. PROPER IRRIGATION SHALL BE SUPPLIED SO AS TO NOT ALLOW THE ROOT BALL TO DRY OUT. PLANTINGS HALL BE UNTIED AND PROPER SPACING SHALL BE ALLOTTED FOR AIR CIRCULATION AND TO PREVENT DISEASE, WILTING,
- II. NO PLANT MATERIAL SHALL BE PLANTED IN MUDDY OR FROZEN SOIL. 12. PLANTS WITH INJURED ROOTS OR BRANCHES SHALL BE PRUNED PRIOR TO PLANTING UTILIZING CLEAN, SHARP TOOLS. ONLY DISEASED OR INJURED PLANTS SHALL BE REMOVED.

AND LEAF LOSS. PLANTS THAT REMAIN UNPLANTED FOR A PERIOD OF TIME GREATER THAN THREE (3) DAYS SHALL BE HEALED

- 13. IF ROCK OR OTHER UNDERGROUND OBSTRUCTION IS ENCOUNTERED, THE LANDSCAPE DESIGNER RESERVES THE RIGHT TO RELOCATE OR ENLARGE PLANTING PITS OR DELETE PLANT MATERIAL FROM THE CONTRACT. 14. IF PLANTS ARE PROPOSED WITHIN SIGHT TRIANGLES, TREES SHALL BE LIMBED AND MAINTAINED TO A HEIGHT OF EIGHT FEET (8') ABOVE GRADE, AND SHRUBS, GROUND COVER, PERENNIALS, AND ANNUALS SHALL BE MAINTAINED TO A HEIGHT NOT TO EXCEED TWO FEET (2") ABOVE GRADE UNLESS OTHERWISE NOTED OR SPECIFIED BY THE GOVERNING MUNICIPALITY OR
- 15. INSTALLATION SHALL OCCUR DURING THE FOLLOWING SEASONS:

PLANTS (MARCH 15 - DECEMBER 15)

LAWNS (MARCH 15 - JUNE 15 OR SEPTEMBER 1 - DECEMBER 1) 16. THE FOLLOWING TREES ARE SUSCEPTIBLE TO TRANSPLANT SHOCK AND SHALL NOT BE PLANTED DURING THE FALL SEASON

(STARTING SEPTEMBER 15):		
ABIES CONCOLOR	CORNUS VARIETIES	OSTRYA VIRGINIANA
ACER BUERGERIANUM	CRATAEGUS VARIETIES	PINUS NIGRA
ACER FREEMANII	CUPRESSOCYPARIS LEYLANDII	PLATANUS VARIETIES
ACER RUBRUM	FAGUS VARIETIES	POPULUS VARIETIES
ACER SACCHARINUM	HALESIA VARIETIES	PRUNUS VARIETIES
BETULA VARIETIES	ILEX X FOSTERII	PYRUS VARIETIES
CARPINUS VARIETIES	ILEX NELLIE STEVENS	QUERCUS VARIETIES (NOT Q. PALUSTRIS)
CEDRUS DEODARA	ILEX OPACA	SALIX WEEPING VARIETIES
CELTIS VARIETIES	JUNIPERUS VIRGINIANA	SORBUS VARIETIES
CERCIDIPHYLLUM VARIETIES	KOELREUTERIA PANICULATA	TAXODIUM VARIETIES

IN WITH TOPSOIL OR MULCH AND WATERED AS REQUIRED TO PRESERVE ROOT MOISTURE.

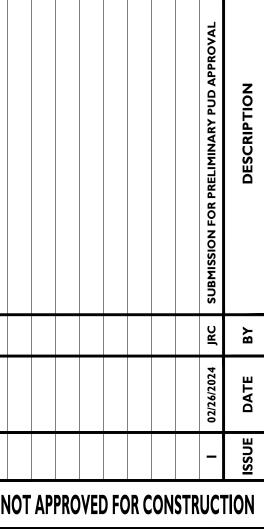
- TAXUX B REPANDENS CERCIS CANADENSIS LIQUIDAMBAR VARIETIES **CORNUS VARIETIES** LIRIODENDRON VARIETIES TILIA TOMENTOSA VARIETIES **CRATAEGUS VARIETIES** MALUS IN LEAF **ULMUS PARVIFOLIA VARIETIES** NYSSA SYLVATICA ZELKOVA VARIETIES
- 17. IF A PROPOSED PLANT IS UNATTAINABLE OR ON THE FALL DIGGING HAZARD LIST, AN EQUIVALENT SPECIES OF THE SAME SIZE MAY BE REQUESTED FOR SUBSTITUTION OF THE ORIGINAL PLANT. ALL SUBSTITUTIONS SHALL BE APPROVED BY THE PROJECT LANDSCAPE DESIGNER OR MUNICIPAL OFFICIAL PRIOR TO ORDERING AND INSTALLATION. 18. DURING THE COURSE OF CONSTRUCTION/PLANT INSTALLATION, EXCESS AND WASTE MATERIALS SHALL BE CONTINUOUSLY
- AND PROMPTLY REMOVED AT THE END OF EACH WORK DAY. ALL DEBRIS, MATERIALS, AND TOOLS SHALL BE PROPERLY STORED, STOCKPILED OR DISPOSED OF AND ALL PAVED AREAS SHALL BE CLEANED.
- 19. THE LANDSCAPE CONTRACTOR SHALL DISPOSE OF ALL RUBBISH AND EXCESS SOIL AT HIS EXPENSE TO AN OFF-SITE LOCATION AS APPROVED BY THE LOCAL MUNICIPALITY. 20. A 90-DAY MAINTENANCE PERIOD SHALL BEGIN IMMEDIATELY AFTER ALL PLANTS HAVE BEEN SATISFACTORILY INSTALLED.
- 21. MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO, REPLACING MULCH THAT HAS BEEN DISPLACED BY EROSION OR other means, repairing and reshaping water rings or saucers, maintaining stakes and guys if originali REQUIRED, WATERING WHEN NEEDED OR DIRECTED, WEEDING, PRUNING, SPRAYING, FERTILIZING, MOWING THE LAWN, AND PERFORMING ANY OTHER WORK REQUIRED TO KEEP THE PLANTS IN A HEALTHY CONDITION. 2. MOW ALL GRASS AREAS AT REGULAR INTERVALS TO KEEP THE GRASS HEIGHT FROM EXCEEDING THREE INCHES (3"). MOWING
- SHALL BE PERFORMED ONLY WHEN GRASS IS DRY. MOWER BLADE SHALL BE SET TO REMOVE NO MORE THAN ONE THIRD (1/3) OF THE GRASS LENGTH. WHEN THE AMOUNT OF GRASS IS HEAVY, IT SHALL BE REMOVED TO PREVENT DESTRUCTION OF THE underlying turf. Mow grass areas in such a manner as to prevent clippings from blowing on paved areas, AND SIDEWALKS. CLEANUP AFTER MOWING SHALL INCLUDE SWEEPING OR BLOWING OF PAVED AREAS AND SIDEWALKS TO CLEAR THEM FROM MOWING DEBRIS.
- 23. GRASSED AREAS DAMAGED DURING THE PROCESS OF THE WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, WHO SHALL RESTORE THE DISTURBED AREAS TO A CONDITION SATISFACTORY TO THE PROJECT LANDSCAPE DESIGNER, MUNICIPAL OFFICIAL, OR OWNER/OWNER'S REPRESENTATIVE. THIS MAY INCLUDE FILLING TO GRADE, FERTILIZING, SEEDING, AND
- 24. SHOULD THE OWNER REQUIRE MAINTENANCE BEYOND THE STANDARD 90-DAY MAINTENANCE PERIOD, A SEPARATE
- CONTRACT SHALL BE ESTABLISHED. 25. LANDSCAPE CONTRACTOR SHALL WATER NEW PLANTINGS FROM TIME OF INSTALL AND THROUGHOUT REQUIRED 90-DAY MAINTENANCE PERIOD UNTIL PLANTS ARE ESTABLISHED. IF ON-SITE WATER IS NOT AVAILABLE AT THE PROJECT LOCATION, THE LANDSCAPE CONTRACTOR SHALL FURNISH IT BY MEANS OR A WATERING TRUCK OR OTHER ACCEPTABLE MANNER.
- 26. THE QUANTITY OF WATER APPLIED AT ONE TIME SHALL BE SUFFICIENT TO PENETRATE THE SOIL TO A MINIMUM OF EIGHT INCHES (8") IN SHRUB BEDS AND SIX INCHES (6") IN TURF AREAS AT A RATE WHICH WILL PREVENT SATURATION OF THE SOIL. 27. IF AN AUTOMATIC IRRIGATION SYSTEM HAS BEEN INSTALLED, IT CAN BE USED FOR WATERING PLANT MATERIAL. HOWEVER, FAILURE OF THE SYSTEM DOES NOT ELIMINATE THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY OF PLANT HEALTH AND

PLANT MATERIAL GUARANTEE NOTES

- the Landscape Contractor shall guarantee all plant material for a period of one year (1 yr.) from approval OF LANDSCAPE INSTALLATION BY THE PROJECT LANDSCAPE DESIGNER, MUNICIPAL OFFICIAL, OR OWNER/OWNER'S I. THE LANDSCAPE CONTRACTOR SHALL REMOVE AND REPLACE DYING, DEAD, OR DEFECTIVE PLANT MATERIAL AT HIS EXPENSE.
- THE LANDSCAPE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS COMPANY'S OPERATIONS. 3. ALL REPLACEMENT PLANTS SHALL BE OF THE SAME SPECIES AND SIZE AS SPECIFIED ON THE APPROVED OR FINAL PLANT LIST. REPLACEMENTS RESULTING FROM REMOVAL, LOSS, OR DAMAGE DUE TO OCCUPANCY OF THE PROJECT IN ANY PART, vandalism, physical damage by animals, vehicles, etc., and losses due to curtailment of water by local AUTHORITIES SHALL BE APPROVED AND PAID FOR BY THE OWNER.
- 4. THE CONTRACTOR SHALL INSTRUCT THE OWNER AS TO THE PROPER CARE AND MAINTENANCE OF ALL PLANTINGS.

LAWN (SEED OR SOD) NOTES:

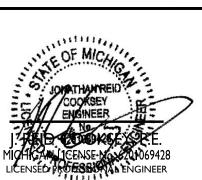
- . SEED MIXTURE SHALL BE FRESH, CLEAN, NEW CROP SEED. SOD SHALL BE STRONGLY ROOTED, UNIFORM IN THICKNESS, AND FREE OF WEEDS, DISEASE, AND PESTS. . SEED OR SOD SHALL BE PURCHASED FROM A RECOGNIZED DISTRIBUTOR AND SHALL BE COMPOSED OF THE MIX OR BLEND
- WITHIN THE PROVIDED "SEED SPECIFICATION" OR "SOD SPECIFICATION." 3. REFERENCE LANDSCAPE PLAN FOR AREAS TO BE SEEDED OR LAID WITH SOD
- 4. SEEDING SHALL NOT BE PERFORMED IN WINDY WEATHER. IF THE SEASON OF THE PROJECT COMPLETION PROHIBITS PERMANENT STABILIZATION, TEMPORARY STABILIZATION SHALL BE PROVIDED IN ACCORDANCE WITH THE "TEMPORARY SEEDING SPECIFICATION.'
- . PROTECT NEW LAWN AREAS AGAINST TRESPASSING WHILE THE SEED IS GERMINATING. FURNISH AND INSTALL FENCES, SIGNS, BARRIERS OR ANY OTHER NECESSARY TEMPORARY PROTECTIVE DEVICES. DAMAGE RESULTING FROM TRESPASS. EROSION. WASHOUT, SETTLEMENT OR OTHER CAUSES SHALL BE REPAIRED BY THE LANDSCAPE CONTRACTOR AT HIS EXPENSE. REMOVE ALL FENCES, SIGNS, BARRIERS OR OTHER TEMPORARY PROTECTIVE DEVICES ONCE LAWN HAS BEEN ESTABLISHED.





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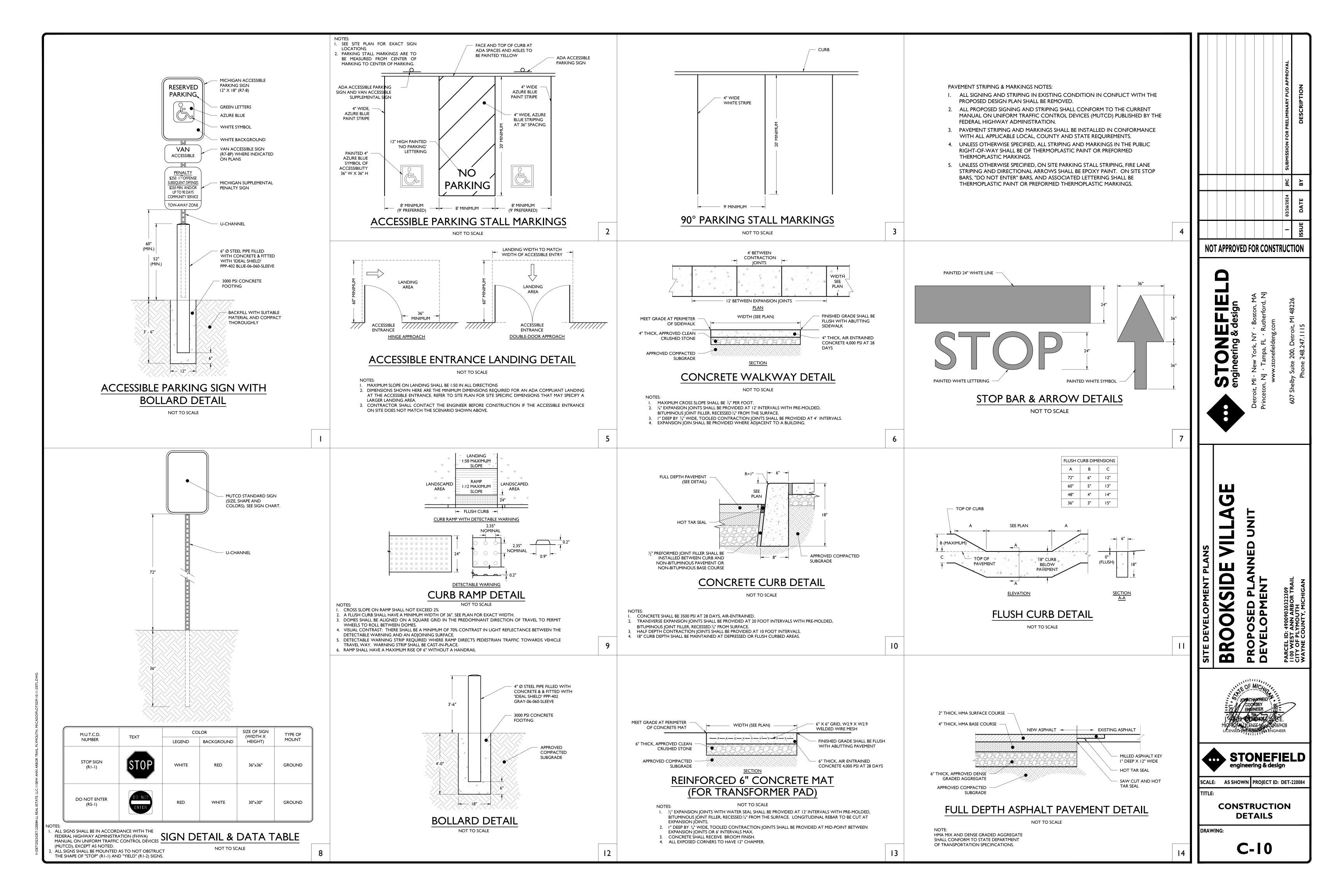


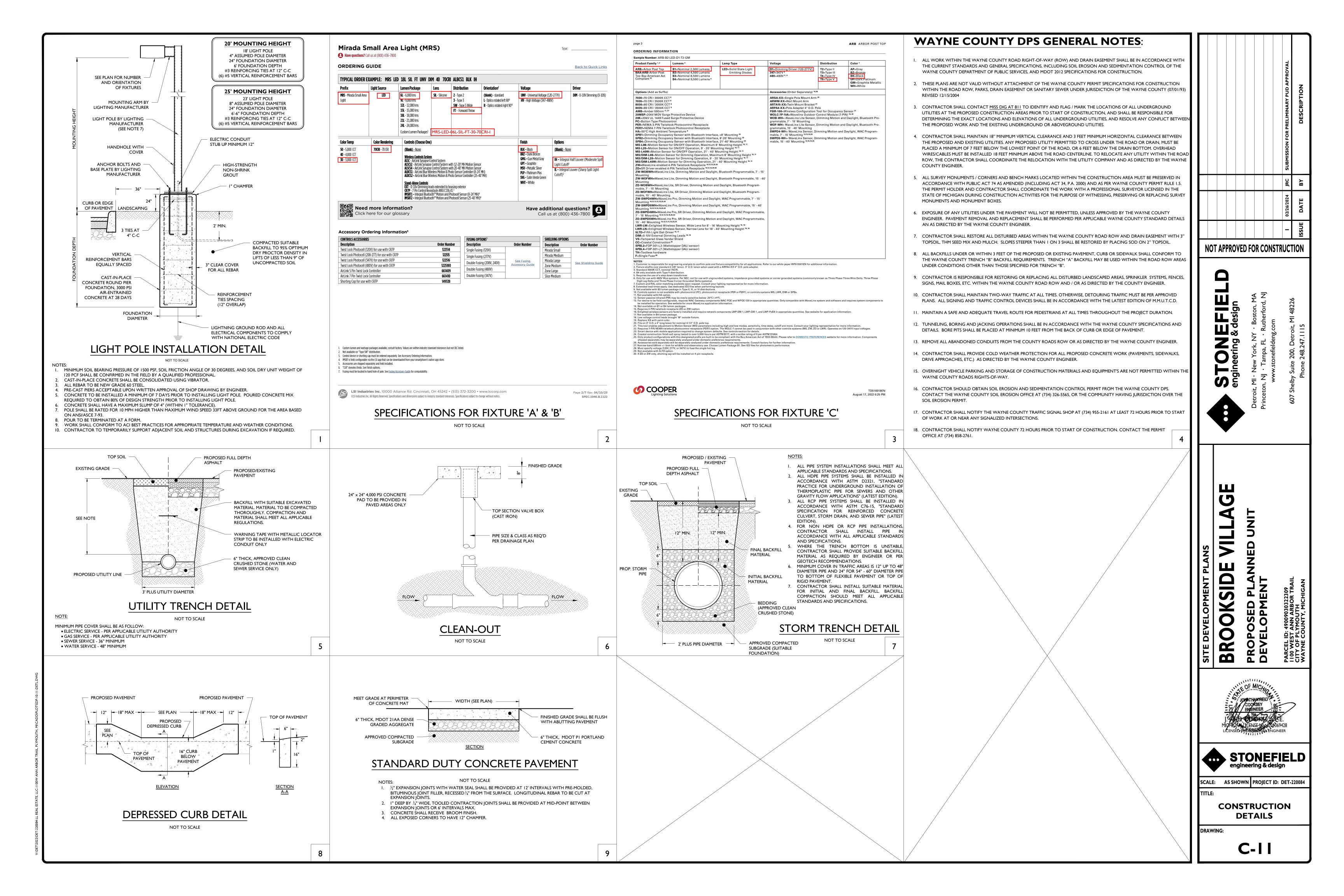


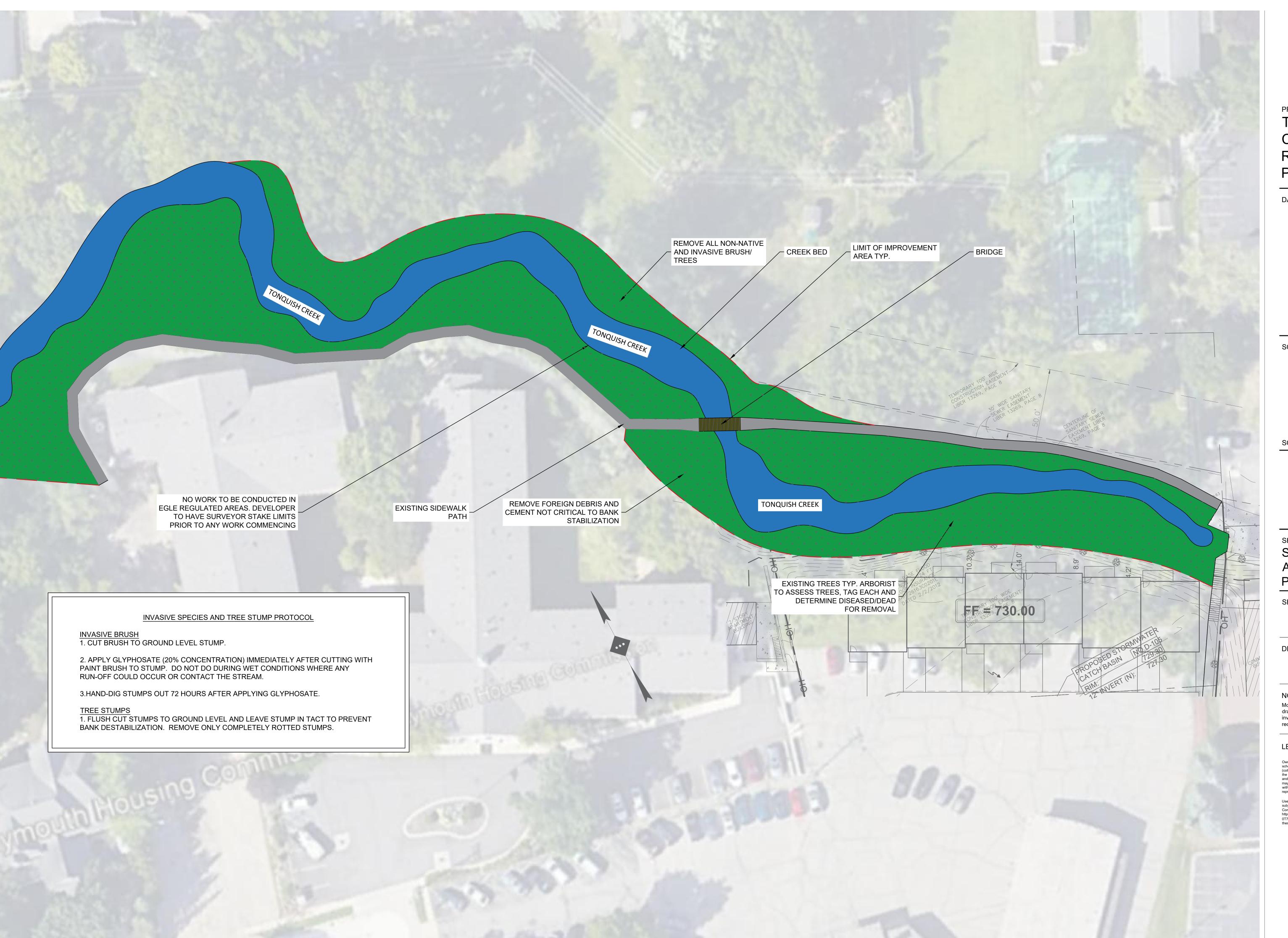
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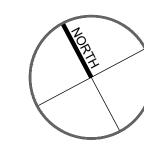


TONQUISH
CREEK BANK
RESTORATION
PLAN

DATE & REVISIONS:

FEBRUARY 26, 2024
SUBMISSION FOR
PRELIMINARY PUD
APPROVAL

SCALE & NORTH ARROW:



SCALE:1"=20'-0"



Know what's **below. Call** before you dig.

SHEET TITLE:
SUBJECT
AREA/REMOVAL
PROTOCOL

SHEET NO:

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DESIGNED BY: M.M.

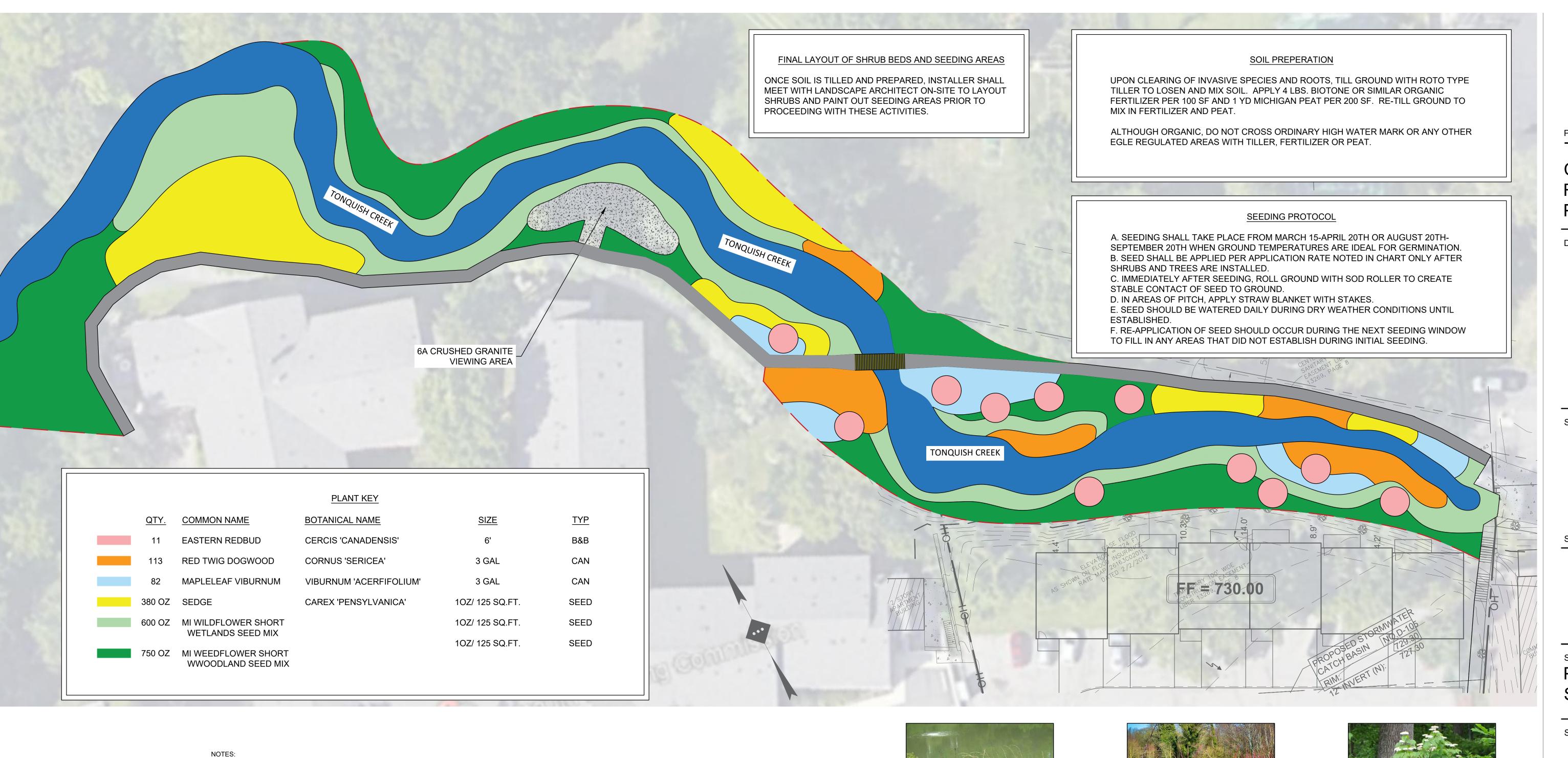
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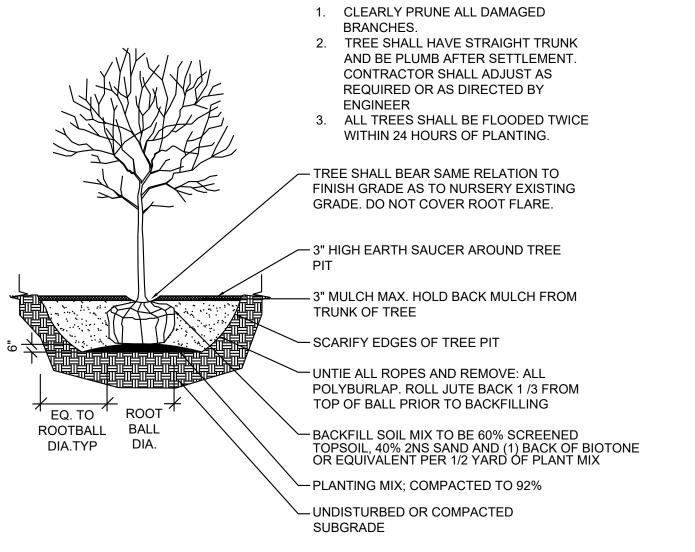
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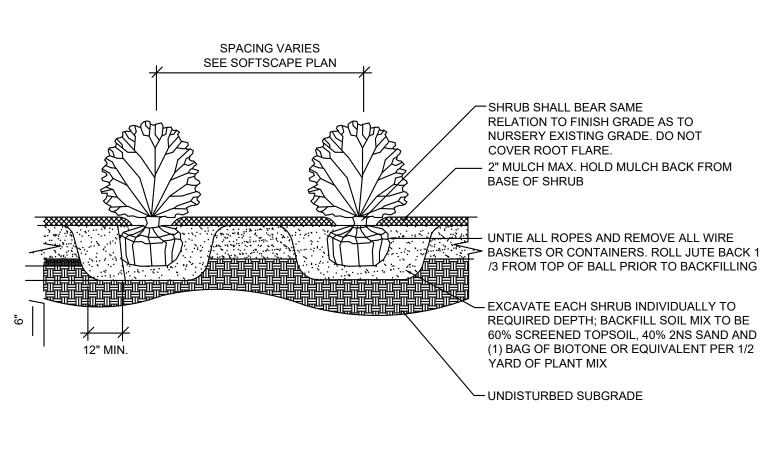
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PENNSYLVANIA

SEDGE









RED TWIG DOGWOOD





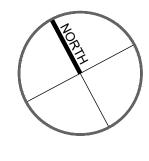
SHORT WOODLAND MIX



PROJECT: TONQUISH CREEK BANK RESTORATION PLAN

DATE & REVISIONS: FEBRUARY 26, 2024 SUBMISSION FOR PRELIMINARY PUD

SCALE & NORTH ARROW:



SCALE:1"=20'-0"



SHEET TITLE: PLANTING SCHEMATIC

SHEET NO:

DESIGNED BY: M.M.

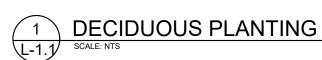
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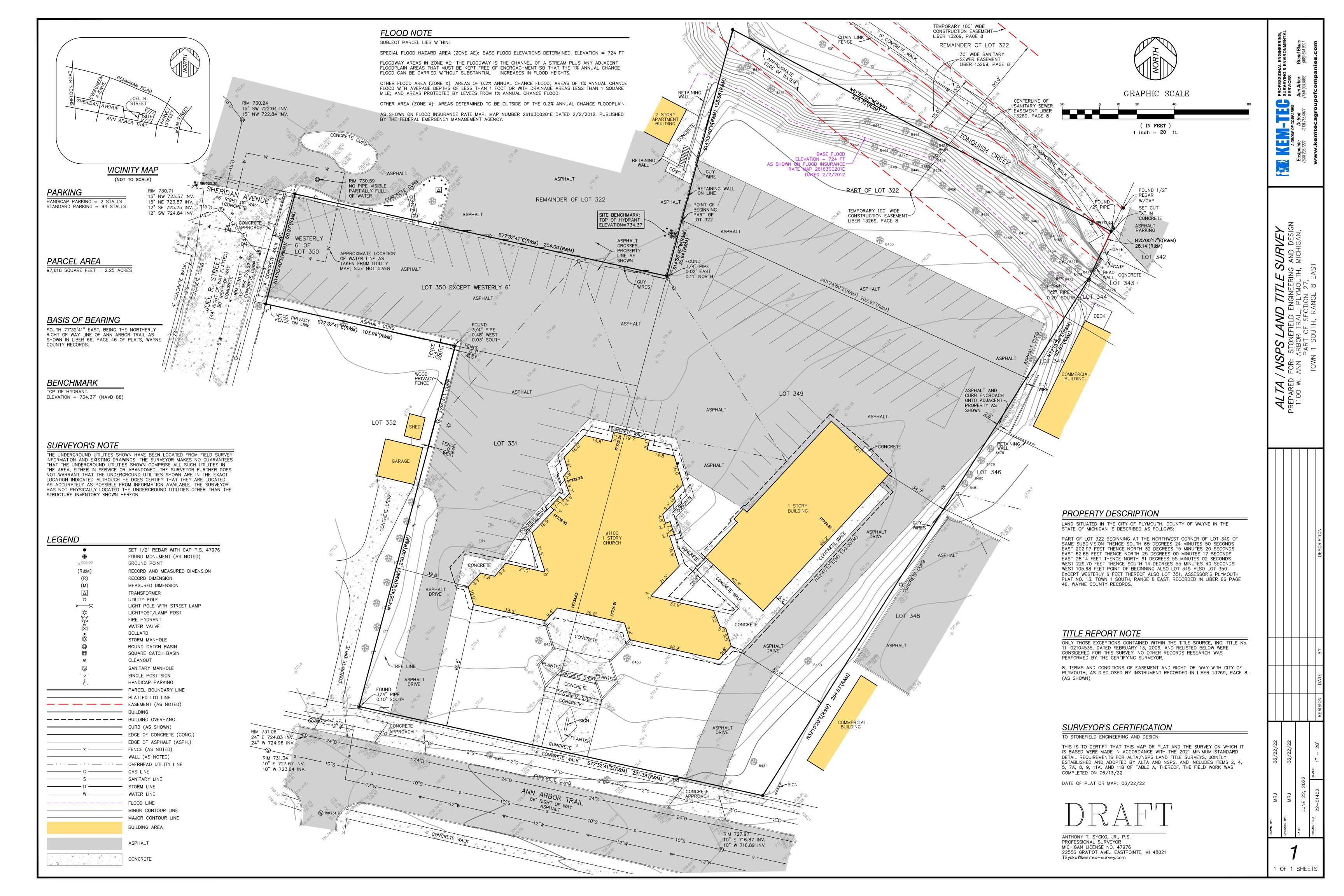














> Tonquish Creek Corridor Restoration Master Plan S. Evergreen Street to S. Harvey Street Plymouth, Michigan

November 2023 ECT No. 230705



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Exhibits

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1.0 Introduction

1.1 <u>Background</u>

Environmental Consulting & Technology, Inc. (ECT) was tasked with developing a preliminary master plan to provide a vision for restoring the stream corridor for the City of Plymouth to implement in cooperation with stakeholders. The restoration project may include different site improvement components that may be implemented together or in phases over time:

- stream restoration and streambank stabilization;
- stormwater drainage, wetland, and/or water quality treatment retrofits;
- additional land or easement acquisition;
- re-construction of pedestrian trails and other passive recreation features;
- replace bridge crossing replacement; and/or
- riparian vegetation management and enhancement

The plan includes the attached Exhibits of existing and proposed conditions, general descriptions of each of the above six components, and associated costs for each.

1.2 **Project Location**

Tonquish Creek is a tributary to the Lower Branch of the Rouge River (Figure 1). Much of the reach between Evergreen and Harvey Streets is publicly owned and, therefore, is under long-term protection. There are opportunities to improve the safety and aesthetics of the stream corridor once it is restored and then trails, lighting, and other recreational amenities can be improved to make the area an amenity to the community of Plymouth.





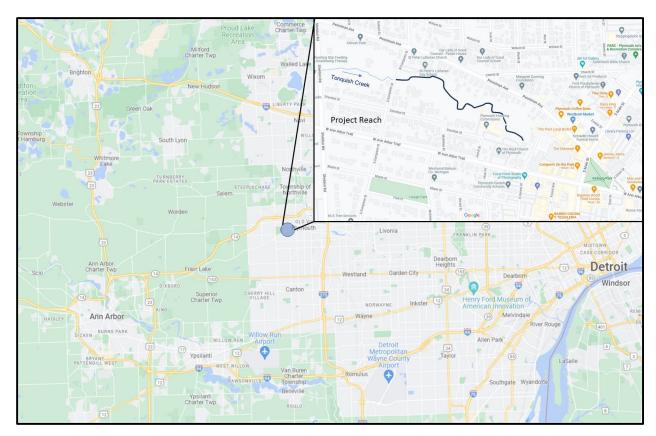


Figure 1. Tonquish Creek Location in Plymouth, MI

Stream Restoration

ECT staff walked the stream corridor on October 24, 2023 and qualitatively evaluated existing conditions such as utilities and other site constraints, storm outfalls, streambank erosion rates, existing wetlands, trails, and streamside landmark trees. A combination of available LiDAR data and ECT field measurements were used to generate a base map of 1 ft contours and existing conditions (Exhibit 1). A preliminary stream corridor restoration master plan was developed for planning purposes (Exhibit 2). Despite past physical alterations, the headwaters of Tonquish Creek produce a steady base flow and there is fair restoration potential.

The assessment of existing stream conditions concluded:

- The surface geology of the stream is alluvium within an area of glacial outwash.
- The soils consist of Cohoctah fine sandy loam which were historically hydric soils but the hydrology has been impacted by dredging and incision (downcutting).



- The pre-settlement vegetation was Beech/Sugar Maple Mesic Southern Forest. The existing vegetation community has mostly low quality trees with an understory of upland invasive shrubs (mostly honeysuckle spp.) with no herbaceous cover on the banks.
- The stream had moderate sinuosity and, although it may have only been historically channelized at the upstream and downstream ends, there are signs of active downcutting.
- The stream is laterally confined with high banks that are typically >2X bankfull max. depth.

 Other lateral constraints include utilities, sanitary manholes, pedestrian crossings, fences, and grouted concrete walls.
- The streambed is predominantly a thin layer of gravelly/sand alluvium over a clay till bed. The D100 of the bar averaged 50 mm (2 inches).
- Potential Stream Type: Rosgen E4 or B3c depending on lateral constraints
- Much of the stream bank length and some of the streambed are lined with broken concrete
 and debris. More than 1/3 of the streambanks are actively eroding. Erosion is contributing
 >36 tons of sediment, >40 lb phosphorus, and >50 lb nitrogen to the creek each year.

Restoration of the stream may involve:

- o riprap and debris removal
- o moderate re-meandering of approx. 2,000 feet of stream
- bank terracing to provide floodplain connectivity
- o riffle/pool construction to provide bedform diversity
- o toewood and soil bioengineering practices to stabilize banks
- o native understory seed mix and shrub plantings along outer banks and riffles/runs

Green Stormwater Infrastructure (GSI)

The City of Plymouth should consider stormwater retrofit opportunities for the Plymouth Housing Commission's Tonquish Creek Manor. Additional practices along public land or suitable private properties could provide improve habitat, stormwater infiltration, and water quality treatment such as:

- riparian wetland enhancement
- infiltration, bioretention, vegetated swales, filtration practices
- storm outfall stabilization



Land Acquisition

First Church of Christ, Scientist, has proposed the donation of a section of the parcel along the creek. In addition, the City may consider coordinating with property owners along the proposed trail to acquire some additional land for safety, grading, access, and fencing (Exhibit 2).

Recreational Trail

Exhibit 2 provides a preliminary layout of re-constructed and new trails, boardwalks, waste bins, lighting, benches, and overlooks could be integrated into the final corridor.

Pedestrian Stream Crossings

The existing stream crossings at St. Peter's Lutheran Church and Tonquish Creek Manor should be replaced along with the grouted concrete walls next to each. Sanitary manholes, storm outfalls, and other site constraints may exist at each crossing. The stream crossing types in order of preference include installation of:

- 1. pre-fabricated bridge that spans the creek and adjacent floodplain,
- 2. bottomless arch culvert with concrete footers, or
- round culvert (diameter equal to the bankfull width) buried 1/6 of the diameter into the creekbed.

Riparian Vegetation Management

Riparian restoration of the stream corridor includes:

- select thinning of dead, diseased, or non-native trees
- removing invasive shrubs and treating stumps with herbicides
- selectively spraying invasive herbaceous plants

A preferred vegetation management approach may be to contract the initial invasive species removal and follow-up treatments in the second year with a licensed applicator. The understory can then be seeded with a wild rye or similar native cover crop. This first phase of work could be followed in years 3-5 by using volunteer workdays to remove invasive shrub seedlings that may grow from the remaining seed bank. The stream restoration work should improve the riparian hydrology and reduce the presence of upland invasive shrubs.



Tonquish Creek Restoration

The creek restoration should use on-site wood and other natural materials to the extent possible. Outer bend protection may be necessary due to the excess gradient and shear stress. Brush toe will be used along outer bends due to the scale of the stream (Figure 2). Over-sized rootwads and toewood structures would not have been appropriate for this small stream. Log riffles provide additional grade control, riffle complexity, and micro-pools, but will not be used immediately upstream of road crossings. Brush-packed runs will be used to increase run roughness and complexity. Log vanes will be used to maintain pool depths and dissipate energy around compound bends. Log sills will be integrated into the log vanes to improve stability and prevent flanking.



Figure 2. Example Brush Toe Stabilization, Fabric-Encapsulated Soil Lift and Native Seed







Figure 3. Typical Log Riffle with Natural Gravel Material

1.3 Construction Costs

Table 1 provides a preliminary range of probable costs for each type of improvement practices recommended for the Tonquish Creek corridor at this location. The work can be phase or sequenced based on the availability of funding. If possible, the selective clearing of the riparian area and stream crossings should be completed first and the appropriate wood utilized as part of the construction. The cost includes approximately 20-25% for design, permitting, and part-time construction over-sight exclusive of permitting fees.

Table 1. Preliminary Range of Probable Costs

	IMPROVEMENTS	COST RANGE	COMMENTS
Α	Stream Restoration	\$1M-\$1.2M	2,000 ft of stream
В	Green Stormwater Infrastructure	\$100K-\$125K	Tonquish Manor
С	Land Acquisition	TBD	n/a
D	Recreational Trail	\$500K-\$600K	Includes ADA gravel trails, trail improvements,
			boardwalks, lighting, benches, signage
Е	Pedestrian Stream Crossings	\$200K-\$500K	Depends on materials
F	Riparian Vegetation Management	\$50K-\$75K	Includes 3 acres of initial and follow-up
			treatment



Exhibit 1 Existing Conditions



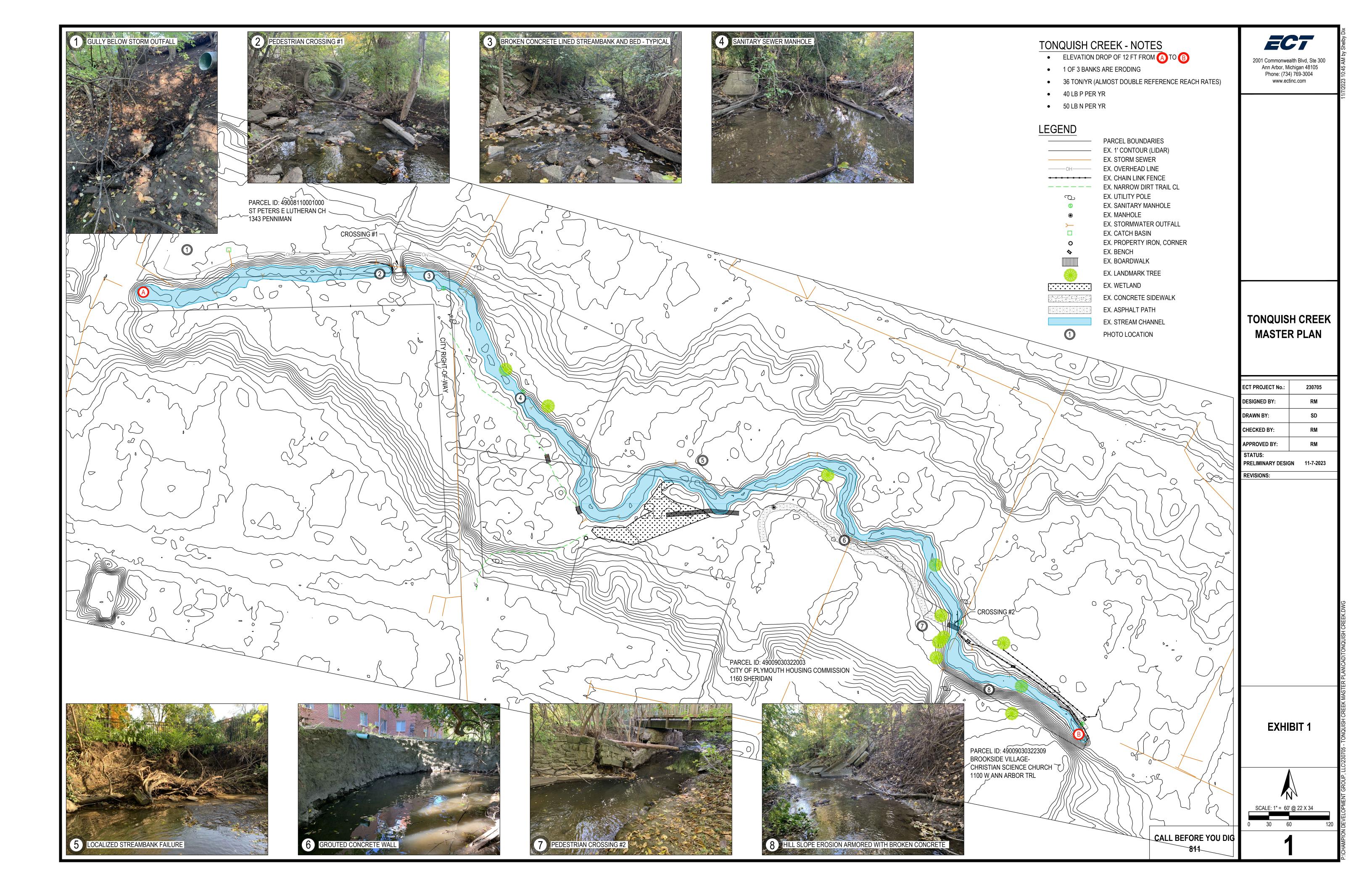
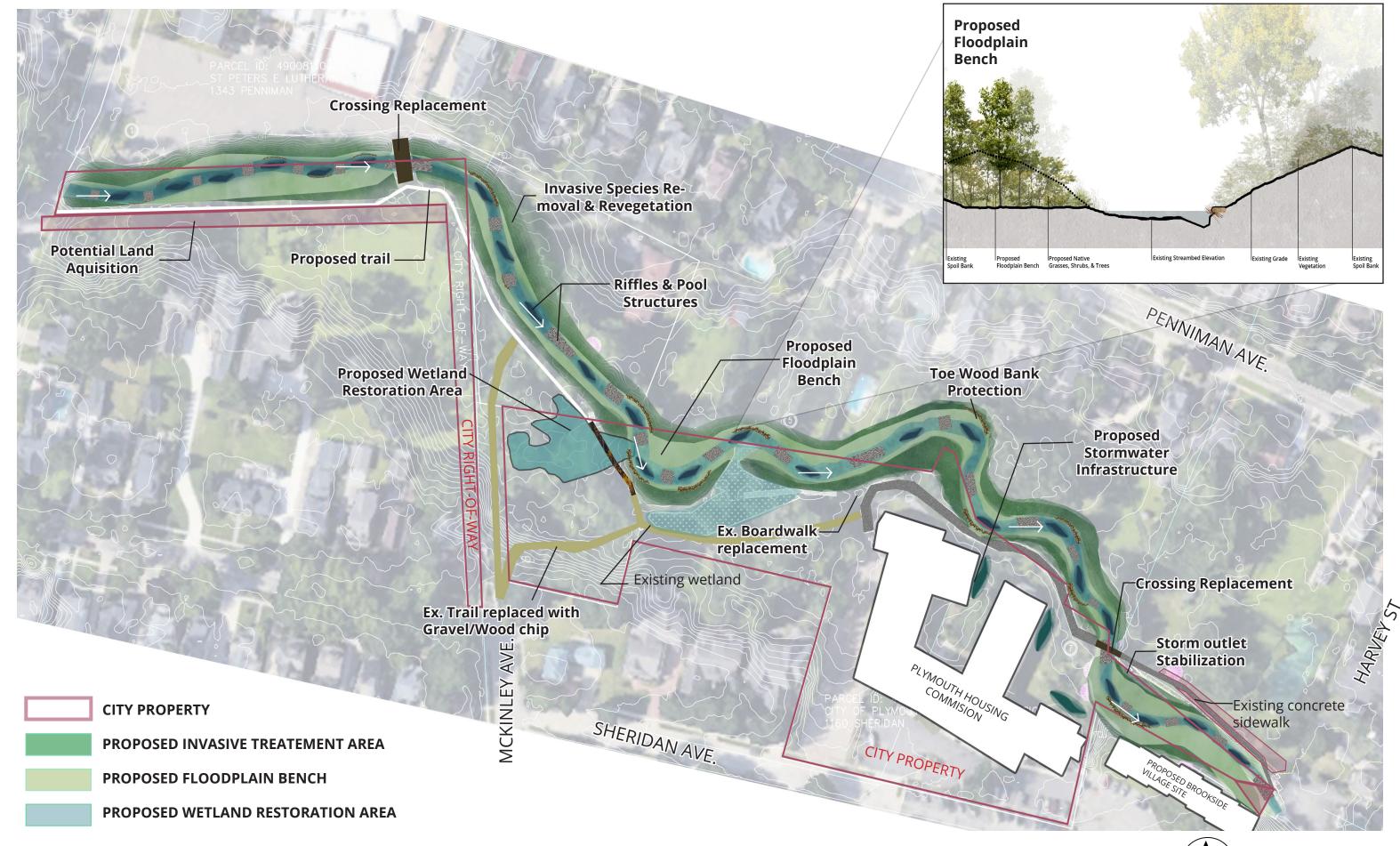


Exhibit 2 Proposed Plan











117 NORTH FIRST STREET SUITE 70 ANN ARBOR, MI 48104 734.662.2200 734.662.1935 FAX

Date: July 31, 2023 Rev.: March 6, 2024

Planned Unit Development For City of Plymouth, Michigan

GENERAL INFORMATION

Applicant: Champion Development Group

LL Real Estate, LLC 5000 E. Grand River Howell, MI 48843

Project Name: Brookside Village-Christian Science PUD Development

Plan Date: Engineered Site Plans: February 26, 2024

Architectural Plans: February 23, 2024

Location: 1100 West Ann Arbor Trail

Zoning: R-1, Single-Family Residential District

Action Requested: Preliminary PUD Approval

PROJECT DESCRIPTION

The applicant is proposing a Planned Unit Development (PUD) on this site, including a small worship building for the current property owner, Christian Science of Plymouth, renovation of the existing parking for this use, and 20 condominium units (down from 24) on the remainder of the site. Three (3) condominium units along E. Ann Arbor Trail will be in the style of a single-family home, while the remaining 17 units will be designed as attached townhomes. The project is also proposing to add a stairwell on the east side of the site to Tonquish Creek at the back of the site. Additional improvements to the Tonquish Creek trail are also proposed as public benefits of the PUD.

The applicants appeared before the Planning Commission at their March 8 and April 12, 2023 meetings to present their concepts and receive input. They discussed a formal proposal with the Commissioners at their August 9, 2024 meeting. They are returning with a revised plan for formal Preliminary PUD review.

An aerial of the proposed project area is shown on the next page.

Figure 1. Subject Site



Source: Near Maps (Image Capture June 17, 2023)

At the August Planning Commission meeting, the minutes reflect that the Commissioners discussed the PUD application and brought up a number of points, chiefly density, traffic, and the public benefit. They noted that density can be measured in several different ways, but considering the townhomes separately seemed to be most aligned with the ordinance. Massing was also brought up as a concern. They asked for a comprehensive traffic study in order to better understand the impact this project could have. Commissioners stated that they needed to see greater detail of the proposed public benefit for the project to be designated a PUD.

PUD PROCESS AND PLAN REQUIREMENTS

According to Section 78-314 of the Zoning Ordinance and the prescribed PUD procedures for review, the applicant attended several pre-application conferences with City staff, the most recent in June, 2023. A formal application has been submitted and includes the transmittal of preliminary PUD plans/site plans.

The requirements of a preliminary site plan submission that accompany a PUD plan (Sec. 78-314) include the following information, which needs to be provided:

1. The ordinance requires a narrative report to accompany the site plan explaining the manner in which the PUD criteria (Sec. 78-313) has been met. A narrative has been included with the submission that

Brookside Village-Christian Science PUD Development – PUD Review March 6, 2024

addresses some of the PUD criteria, but doesn't address all of the criteria. The narrative should list the criteria in the ordinance (Section 78-311(c)), and respond to each.

- 2. The ordinance also requires the developer to provide an explanation of why the submitted PUD is superior to a plan which could have been prepared under strict adherence to related sections of the Zoning Ordinance. This needs to be provided, and could be included in the narrative responding to the PUD criteria.
- 3. Current land use abutting properties to the subject site needs to be provided on the plans.
- 4. Description of how the project implementation will be phased in, if at all, should be provided.

Note that the Planning Commission may request additional information needed to assist in determining the appropriateness of the PUD.

Items to be Addressed: 1) Provide a narrative listing the PUD criteria (Sec. 78-311(c)), and describe how the project meets each. 2) Provide an explanation of why the submitted PUD is superior to a plan which could have been prepared under strict adherence to the Zoning Ordinance. 3) Show current land uses abutting subject site on plans. 4) Provide phasing description, if any.

PUD CRITERIA

Section 78-311(c) of the Zoning Ordinance establishes PUD criteria which determine the overall eligibility for a Planned Unit Development. The project must demonstrate that they meet all of these criteria to be entitled to PUD treatment. The criteria are provided below, with our comments after each.

- (1) Grant of the planned unit development will result in one (1) of the following:
 - a. A recognizable and material benefit to the ultimate users of the project and to the community, where such benefit would otherwise be unfeasible or unlikely to be achieved without application of the planned unit development regulations;

CWA Comment: Regarding benefits to the users:

• The existing property owner, Christan Science Church, has no need for the existing large building on site given the size of their current congregation. The proposed redevelopment will provide this group with a building that meets their current needs, and allow them to stay in the City of Plymouth.

Regarding benefits to the broader community:

• The project offers a housing type other than single-family homes. According to the Southeast Michigan Council of Governments (SEMCOG) and the 2021 American Community Survey, Plymouth's housing stock is 60% single-family homes, and 40% multi-unit housing. (Sixty-two percent of the multi-unit housing is owner-occupied.) The population of Plymouth is also aging. Since 2010, the average age of Plymouth residents has changed from 39.2 to 45.7 years. Also, the number of residents aged 55 and older has increased from 26% of the City's population in 2010 to 32% of the population in 2021. People in this age bracket are often downsizing, and looking for housing opportunities that require less maintenance.

- The project narrative describes other "benefits" that this project offers. Note that the ordinance defines "benefit" in the PUD section as follows: "...where such benefit would otherwise be unfeasible or unlikely to be achieved without application of the planned unit development regulations." Therefore, we haven't included the full list of benefits listed by the applicant because some would be achieved by <u>any</u> redevelopment of this site. The benefits (that meet the ordinance definition) offered by the project that wouldn't be achieved without application of a PUD include:
 - a. Shared parking for the adjacent Tonquish Creek Manor operations. The narrative states that up to 13 "excess" parking spaces might be available to the Tonquish Creek Manor residents. The narrative is not firm on this offer, and leaves the scope of the benefit to be decided in the future. The Planning Commission cannot make a recommendation on "maybes." The applicant needs to decide what this benefit will be today (specific number of spaces, when they would be shared, and who can use them).
 - b. Work associated with Tonquish Creek improvements:
 - i. Tonquish Creek and Trail Restoration Plan. As part of the submission, the materials include a "Tonquish Creek Corridor Restoration Master Plan." This document provides a preliminary assessment of approximately 1,900 lineal feet of the creek corridor, and provides general recommendations on how to address streambank and streambed issues. While this assessment could have been provided as part of any development of the site, it is unlikely to have been done. Also, this information lists what work needs to occur to improve the corridor, and is the basis for the applicant's other listed benefits.
 - ii. **Provide funding for some creek restoration work**. The narrative states that the developer is willing to provide limited funding to achieve some of the work items defined in the report (above). A dollar figure has not been provided, and needs to be.
 - iii. Restore creek bed along 300-feet abutting proposed project. The narrative states that the developer will perform a complete restoration of the creek along their northern property line. (Note that this property line measures approximately 230 lineal feet, but the boundaries of the actual location/extent of the restoration is not shown on the plans.) The work will include removal of invasive species and dead trees, removal of debris and broken concrete, trimming healthy trees, planting native shrubs and herbaceous plants to fill in and stabilize the bank.

While the intent is good, it appears that this type of work may be outside of the developer's area of expertise. We have formed this opinion given the following observations:

- Any work within the streambed itself will require an Inland Lakes and Streams
 Permit from the Michigan Department of Energy, Great Lakes and Environment
 (EGLE). This isn't mentioned on the plans.
- Given the close proximity of the townhomes to the top of the streambank, grading and heavy equipment will negatively impact this area. Some restoration will be necessary simply because of the proposed construction on site. Therefore, this work is required *because* of the project, not in addition to the project.
- The applicant has characterized this work as an ecological benefit. To be such, the planning for (i.e., plans), and the implementation of the work needs to be conducted by ecological restoration professionals. While the Restoration Plan was prepared by ecological professionals, the restoration sheets in the plan set do not illustrate industry standard techniques for ecological restoration.

- Sheet L-1 notes state that the roots of invasive shrub should be dug out. This is contrary to the Restoration Plan that indicates that these roots should be retained to hold the streambank in place. This plan should be prepared by an ecological professional with demonstrated experience in streambank restoration.
- Sheet L-2 calls for planting landscape-sized shrubs right next to the flowing water.
 Typically, stream bank restoration is done with "live stakes," which are woody plant cuttings inserted into the streambank so that they root into, and protect, the streambank slopes. This plan should be prepared by an ecological professional with demonstrated experience in streambank restoration.
- In addition, plans for successful streambank restoration include a description of the activities necessary to ensure the plantings become established and the maintenance activities necessary to ensure the plantings are not overrun by invasive species (as partly described in the Restoration Plan).
- iv. **Provide select Tonquish Creek Trail Improvements**. The narrative states that they will replace or provide additional ornamental light fixtures and benches along the paved portion of the Trail that abuts the project and Tonquish Creek Manor (approximately 600 lineal feet section of the Trail). The plans should show the location of the existing fixtures/benches to be replaced, and where new fixtures/benches will be installed.
- v. **Deed a portion of property along the creek bank to the City**. Again, it doesn't appear that the plans show where this property is located, and how much property will be deeded. This information should be provided.
- vi. Construct a new access stair at the head end of the Creek. This proposal is shown on Sheet C-3, showing these stairs as part of an internal sidewalk system, and a connection to the public sidewalk between two of the individual condo units along Ann Arbor Trail. This connection will benefit project residents and the public at large. To accomplish this benefit, the end of the staircase will need a section of pavement located on the easterly neighbor's property (and therefore an easement) to meet up with the trail. Has the applicant discussed this with the neighboring property owner?
- vii. Pocket Park along the Creek. The narrative describes a patio area with some bench seating installed along the southern side of Tonquish Creek along the paved trail behind Tonquish Creek Manor. Sheet L-2 shows a crushed-gravel area next to the creek, about 70 feet from existing benches and 100 feet from the wooden bridge, which provides a view of the creek. The proposed gravel area is approximately 600 s.f. in size. Installation of the gravel area will require tree removal, which could threaten the stabilization of the stream bank.
- Pocket park at the Reading Room bookstore. A 250 square foot concrete pad is shown in front of the new church building/reading room. The narrative states that this area will contain landscaping and a bike rack. These features need to be shown on the plans.

To make a recommendation to the City Commission, the Planning Commission needs to determine if the deviations from the ordinance balance with the public benefits offered by the project. Without certainty that the benefits listed in the proposal will actually be available, the Planning Commission can't possibly make this decision. The questions expressed above regarding the proposed benefits should be addressed.

Brookside Village-Christian Science PUD Development – PUD Review March 6, 2024

 Long-term protection and preservation of natural resources and natural features of a significant quantity and/or quality, where such benefit would otherwise be unfeasible or unlikely to be achieved without application of the planned unit development regulations;

CWA Comment. As mentioned in our previous review, the northern-most buildings are too close to the top of the Tonquish Creek bank. As in the previous plans, this plan locates the eastern-most unit in the bank, and the remaining bank will be impacted because of the "building envelope" needed to construct the buildings. A building envelope is typically 15-20 feet beyond the exterior wall of a building where heavy construction equipment, vehicles, and activities occur during construction. Restoration of this area will be necessary because of these impacts. Bank impacts will most likely also have a negative impact on the stream and water quality in the stream. These impacts will be permanent.

A preliminary ecological assessment of the current streambank has been provided. It estimates that bank erosion contributes more than 36 tons of sediment to the stream, with more than 1/3 of the stream's banks eroding. As mentioned above, the plan sheets (L-1 and L-2) describing the streambank activities do not reflect accepted restoration techniques.

c. Long-term protection of historic structures or significant architecture worthy of historic preservation; or

<u>CWA Comment.</u> There are no known historic resources on the property.

d. A nonconforming use shall, to a material extent, be rendered more conforming, or less offensive, to the zoning district in which it is situated.

CWA Comment: N.A.

(2) The proposed type and density of use shall not result in an unreasonable increase in the need for or burden upon public services, facilities, roads and utilities.

<u>CWA Comment:</u> We assume that the City's water and sewer system has additional capacity to handle this development. This needs to be confirmed by the City's Engineer and an opinion provided at this stage of the project review.

Regarding traffic, the applicant submitted a Trip Generation Analysis, which estimates the number of vehicle trips generated by the proposal. The report also provides an estimate of "vehicle distribution," which makes a prediction about how the traffic generated by the proposal will use the existing street grid.

The conclusions of the report state that, compared to a church with full occupancy (300 seats), the proposed project will generate significantly less vehicle trips (and therefore, traffic). While this comparison isn't a reflection of the current conditions (since the church membership is significantly less than 300 people), it does show that the proposal will not generate a significant number of new trips when compared to the SEMCOG data, illustrating the number of trips currently using this portion of Ann Arbor Trail (or 7,330 for weekday flow).

(3) The proposed planned unit development shall be consistent with the public health, safety and welfare of the City.

<u>CWA Comment:</u> We would consider this project to be, in general, consistent with the public health, safety and welfare of the City.

(4) The proposed planned unit development shall not result in an unreasonable negative environmental impact or loss of a historic structure on the subject site or surrounding land.

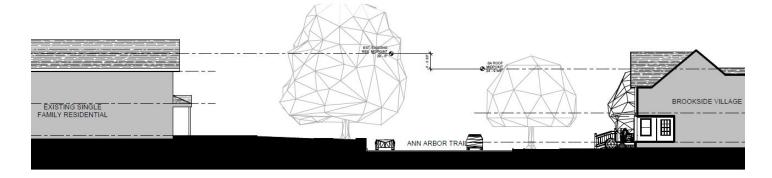
<u>CWA Comment:</u> As mentioned above, the project is proposing to construct townhouse units at the top of the Tonquish Creek streambank, with grading impacts past the top of the stream bank. This will have negative impacts on the streambank, and most likely the stream and water quality. The northern townhouse units need to be moved away from the top of the bank so that the construction doesn't impact the top of the bank. See the Density Analysis below for options that achieve this goal, and therefore meet this PUD criterion. The property doesn't contain any historic structures.

(5) The proposed planned unit development shall not result in an unreasonable negative economic impact upon surrounding properties.

<u>CWA Comment:</u> No financial information regarding the cost of the residential units has been provided; so, we can't provide an analysis. However, it is important that the development "fit" into the neighborhood. Ways this can be accomplished is that the new buildings are of similar height and massing of surrounding residential buildings, have similar architectural characteristics and level of detail, and that the setbacks from the street have a relationship to the adjacent buildings along the street.

Regarding height, we looked at all three building types below:

• The 3 detached units along Ann Arbor Trail are proposed at 2.5-stories, 24.75-feet tall at the midpoint of the roof. These buildings have not changed from the previous submission. The current submission includes the image below, showing how the project will relate to the single-family homes on the south side of Ann Arbor Trail. The midpoint of the house on the south side of the street is 29.5-feet, which is 4.75-feet taller than the proposed unit. The height dimensions (to the midpoint of the roof) of the office building to the east should be provided, as well as a graphic comparison of this building with the proposed buildings along Ann Arbor Trail.



• The 17 attached townhome units on the interior of the site are proposed at 2.5-stories, 25-feet tall at the midpoint of the roof. These units are only a few inches taller than the units facing Ann Arbor Trail, and will likely be perceived as virtually the same height, or slightly lower due to the sloping topography (the site slightly slopes down from the street to the back by 2-feet).

- The church building is proposed at one-story, 20-feet tall at the midpoint of the roof. This building design has not changed from the previous submission. This building will be lower than most buildings along Ann Arbor Trail, and will not dominate the street.
- Regarding massing, the three detached units along Ann Arbor Trail are proposed at 2,400 s.f. (per Sheet C-3). Researching the existing homes along Ann Arbor Trail, the three proposed detached units along Ann Arbor Trail are similar to the average size of the homes on both sides of the street (traditional & new). They are significantly (31%) smaller than the average-sized new homes on the street. We have tallied these results in the table below:

Table 2: Average home sizes on Ann Arbor Trail – Subject Site to McKinley St.

Subject Site to McKinley St.	Average Home Size (s.f.)	
South Side:		
Traditional (1950s-older)*	2,258 s.f.	
New (1960-younger)	3,493 s.f.	
North Side:		
Traditional (1950s-older)	1,559 s.f.	
Both Sides/All Ages:*	2,147 s.f.	

^{*}Note: The large house on the southeast corner of Ann Arbor Trail/McKinley was not included in this analysis. If included, this would change the average "traditional" house size on the south side of the street to 2,595 s.f., and the "Both Sides/All Ages" average to 2,285 s.f.

Regarding the architectural characteristics, and level of detail of the proposed structures:

- The three units along Ann Arbor Trail appear to be designed in the modern "farmhouse" style, with very few architectural details. The form of the buildings, with pitched roofs and front porches, is consistent with other traditional homes along the street; however, the mix of brick and board-and-batten siding is not. Horizontal siding, with board-and-batten accents would be more in line with the character of the street, in our opinion.
- The front façade of the 6-unit townhome building facing the church (and shared internal drive) is visible from the street (see the top right images on Sheets A3 and A4). This orientation places the garage doors at the rear, and not facing the shared drive. The rear elevation with the garage doors faces an internal street that is partially blocked from view of the street by one of the detached units.
- The current church building is a contemporary style with low-pitched roofs and a horizontal orientation. The proposed church building also has a contemporary style. The pergola over the side façade (at the front) helps to connect the building to the patio area, and adds interest to the street view.

Regarding **front setbacks** of the proposed buildings, the two buildings that define this development are the 3 single-unit residential buildings that face Ann Arbor Trail, and the church building.

Table 3: Existing and Proposed Front Setbacks:

	Front Setback – Existing Buildings on North Side of AA Trail	Front Setback – Proposed Buildings on North Side of AA Trail
Office Building	9 - 22 feet	N.A.
Residential Buildings	House to west of church: 67 feet Ave. Joel R to McKinley: 19 feet	Front Porch: 10 feet House: 17 feet
Church Building	63 feet	25 feet

We have the following observations:

- Both the proposed single-unit residential buildings and church building are oriented to be parallel to Ann Arbor Trail, which is consistent with the other residential buildings in the vicinity. However, the office building to the east is at an angle to the street. In our opinion, we think this difference helps to create a transition between the residential uses on Ann Arbor Trail, and the beginning of downtown.
- The front porches of the proposed residential buildings are closer to the street than other homes to the west; however, the body of the house is setback a similar distance to the average of existing homes. (Note that porches closer to the street encourage interaction between people using the sidewalk, and residents on the porch, which is consistent with the goals of the City's ordinance to incentivize rear garages/front porches (78-43(11)). Also, the front setback of the body of the proposed house is similar to the front setback of the office building's western side.
- On the current set of plans, the proposed church building has been shifted south, and is now setback 25-feet (vs. 59-feet on the previous plans) from the front edge of the property. Sec. 78-296 requires a front setback minimum of 50-feet. This represents a deviation. The new location for the church makes space for dedicated parking behind the building.

The proposed setback is much closer to the street than the existing church building. A more gradual setback transition between the new residential buildings and the house to the west would be to place the new church building at a front setback of 42-feet.

Locating the church building as shown screens activity at the church from the neighbor's front yard. A privacy fence is located on the neighbor's property, starting approximately at the rear wall of the proposed church building.

(6) The proposed planned unit development shall be under single ownership and/or control such that there is a single person, corporation, or partnership having responsibility for completing the project in conformity with this article.

<u>CWA Comment:</u> The narrative states that the Champion Development Group has entered into a contract with the First Church of Christ, Scientist, Plymouth to purchase the available remaining portion of the property and is working together to define a Master Site layout. The intention of the Champion Development group is to develop a townhouse style residential condominium community as depicted in the submission. In our view, it doesn't appear that there is a "single" entity with the responsibility for completing the project. It appears that Champion will be responsible for the townhomes, and the church for their part of the project. The information provided does not confirm that this criterion is met.

The narrative also describes how the *future* ownership of the property will be handled. It states that the property will be divided into a Church section and Townhouse section. Both sections will be part of a "Master" Condominium site that will have assorted rights and obligations, as defined in the Condominium Documents. Sec. 78-215 requires that the Condominium Documents be reviewed and approved by the City. Due to the unusual nature of the proposed condominium, we recommend that the Planning Commission condition any approval of the Preliminary PUD plans on the applicant providing draft Condominium Documents with their Final PUD plan submission.

(7) The proposed planned unit development shall be consistent with the goals and policies of the City Master Plan.

<u>CWA Comment:</u> The project is proposing a mix of townhouse (multi-family) residences, and a house of worship. The Master Plan identifies this area as "Mixed Use: Low Density." The Plan describes this future land use designation as follows:

The Mixed Use Low Density designation is specific to land uses where it is appropriate to have a low-impact commercial use adjacent to single-family or multi-family residential areas. This land use allows for single and multi-family uses to continue and be established, while encouraging lower-intensity commercial and office uses that can serve the residential areas. The Mixed Use Low Density land use designation is generally detached buildings with the character of single-family residences that are no more than two stories. Parking in this land use should be located at the rear of the property.

The proposal is consistent/inconsistent with the Master Plan vision in the following ways:

- 1. The Christian Science Reading Room is a low-impact commercial use that would be adjacent to single- and multi-family residential development.
- 2. The project is proposing to establish multi-family uses. Houses of worship are often combined with residential uses in the same district; however, houses of worship are considered a "Special Land Use."
- 3. The site design along the street frontage locates three single-unit residential buildings, which look like a single-family residence, and is consistent with the Master Plan. The buildings in the interior and rear of the site are of a "townhouse" (multi-family) character. Also, all the proposed residential buildings are 2.5-stories, which is taller than the height called for in the Master Plan. However, the top ½ story is integrated into the roof, with dormers, which creates a two-story appearance. The actual building height dimension is within the maximum permitted in the R-1, One-Family Residential District:

 Table 4: Maximum Permitted and Proposed Building Heights in R-1 District:

Building Type	Maximum Permitted Height	Proposed Height
Church Building		20 feet
Single-Unit Residential Buildings	25 feet	24.75 feet
Townhouse Buildings (See below)		25 feet

Townhouse Building: Section 78-313, *PUD General Design Standards*, states that the schedule of regulations for each respective land use must be met, unless the Planning Commission and City Commission approve deviations that advance the objectives of the Zoning Ordinance. The townhouse buildings are considered "multi-family" buildings, and are regulated by the bulk

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requirements in the RM-2, Multi-Family Residential District (since the proposed buildings are 2.5-stories). Multi-family districts regulate height by the number of stories. If the building has more than 2-stories, a maximum height dimension is not provided in the ordinance. In our interpretation, the proposed townhouse buildings are consistent with the RM-2 District requirements.

4. Parking is proposed at the side and rear of the buildings, as required.

The Planning Commission should discuss the one inconsistency of the project and Master Plan (multi-family/townhouse vs. single-family appearance) with the applicant. Also reference our Density Analysis later in this review.

(8) The proposed use or uses shall be of such location, size, and character as to be in harmony with the zoning district in which it is situated, and shall not be detrimental to the adjoining zoning districts.

CWA Comment: The project is located in the R-1, One-Family Residential District. The project is proposing a multi-family product. This use is not single-family, but in our opinion, the residential buildings harmonize with single-family residential uses because of the single-unit buildings along Ann Arbor Trail, and because of the height of the townhouse buildings in the interior of the site. The project is relatively small, and will not have a significant impact on surrounding traffic (see analysis above), and will provide a logical transition between the downtown to the east and single-family residential homes to the west. Also reference our Density Analysis later in this review.

(9) A demonstration that the PUD is not proposed in an attempt by the applicant to circumvent the strict application of zoning standards.

<u>CWA Comment:</u> We don't believe the applicant is proposing the project to circumvent the strict application of the zoning standards. The Master Plan identifies this site as appropriate for multi-family residential use, in combination with low-intensity commercial uses that support the neighboring residential properties. We would argue that a house of worship also supports neighboring residential uses.

The most recent set of plans has reduced the number of units from 37 units originally discussed with the Community Development Department, to 20 units. They have also limited the townhomes to 2.5-stories, and designed the buildings to appear like 2-story buildings to better coordinate with the existing homes along the street. Townhomes also provide a logical transition between the downtown and single-family residential uses.

The Planning Commission needs to evaluate the above criteria pertaining to PUD eligibility.

In summary, the PUD project appears to meet some of the criteria. The following information should be provided and discussed with the Planning Commission:

1. Public Benefits:

- a. Shared parking with Tonquish Creek Manor. Specifically state number of parking spaces, when they will be available, and who can use them
- b. Funding for some creek restoration work. The specific funding figure being offered needs to be provided.

- c. Creek restoration along northern boundary of project. The plans for this work need to be prepared by an ecological professional with demonstrated experience in streambank restoration, include details of required EGLE permits, and include accepted industry standards techniques for plant installation, establishment, and maintenance of streambank restoration work.
- d. Select Tonquish Creek Trail improvements. Update plans to show existing light fixtures/benches to be replaced, and where new fixtures/benches will be installed.
- e. Deed property along creek to City. The plans need to show where this property is located, and how much property will be deeded.
- f. New stair access. This project will require an easement on the property to the east to install pavement between the stairwell and the public trail. Has the applicant discussed this with the neighboring property owner?
- g. Pocket park behind Tonquish Creek Manor. This project will require tree removal, which could destabilize the streambank slopes.
- h. Pocket park at the Church Reading Room. The narrative states that this area will contain landscaping and a bike rack. These features need to be shown on the plans.
- 2. Confirmation by City Engineer that the City's water and sewer system has additional capacity to handle this development.
- 3. Shift the northern townhouse units away from the top of the streambank so that the construction doesn't impact the bank.
- 4. Provide the height dimension (to the midpoint of the roof) of the office building to the east, and graphic comparison of this building with the proposed single-unit buildings along Ann Arbor Trail.
- 5. Applicant to confirm that a single entity will be responsible for implementing all aspects of the project (both townhome and church portions) in conformance with the approved plans.
- 6. Planning Commission to discuss one project inconsistency with Master Plan (multi-family/townhouse vs. single-family appearance).
- 7. Recommend that the Planning Commission condition any approval of the Preliminary PUD plans on the applicant providing draft Condominium Documents with their Final PUD plan submission.

Items to be Addressed: 1) Applicant to provide additional information about public benefits, as summarized on Pages 11 and 12 of this review. 2) Confirmation by City Engineer that the City's water and sewer system has additional capacity to handle this development. 3) Shift the northern townhouse units away from the top of the streambank. 4) Provide height dimension (to the midpoint of the roof) of the office building to the east, and provide graphic comparison of this building with the proposed single-unit buildings along Ann Arbor Trail. 5) Planning Commission to discuss one project inconsistency with Master Plan (multi-family/townhouse vs. single-family appearance). 6) Applicant to confirm that a single entity will be responsible for implementing all aspects of the project (townhome portion and church portion) in conformance with the approved plans. 7) Recommend Planning Commission condition any Preliminary PUD Plan approval on the applicant providing draft Condominium Documents with their Final PUD Plan submission.

DENSITY ANALYSIS

The project will establish 20 new residential units in the City, allowing some current Plymouth residents to move, or provide homes for new residents. The applicant has not prepared a "parallel plan" that shows how the site could be redeveloped under current zoning. However, if the church re-located to a different property, we estimate that the site could accommodate approximately 10 single-family homes on 7,200 s.f. lots. Our estimate is based a rule of thumb, with 80% of the land being occupied by residential lots, and 20% being occupied by roads, utilities, etc. Therefore, this plan offers approximately 10 more residential units than if the site were re-developed for single-family homes under current zoning. This would be considered a deviation from the existing R-1 zoning.

At their August, 2023 meeting, the Planning Commission determined that the townhome density should be calculated by the area occupied by the townhomes. Based on the current site plan, we estimate that the land occupied by the church is approximately 31,212 s.f., and the land occupied by the townhomes is approximately 66,879 s.f.

As mentioned above, Section 78-313, *PUD General Design Standards*, states that the schedule of regulations for each respective land use must be met, unless the Planning Commission and City Commission approve deviations that advance the objectives of the Zoning Ordinance. Therefore, we have evaluated the density of the townhomes using the RM-2, Multi-Family Residential District, since this district permits multi-family buildings up to 4-stories in height. (Note: RM-1 Multi-Family Residential District only permits multi-family buildings up to 2-stories in height; since the proposed buildings are 2.5 stories, we must use RM-2 standards.) Townhomes are considered a "permitted" use in the RM-2 District.

The ordinance calculates permitted density by dividing the area of the lot by 900 s.f. (Sec. 78-191(c)). The table below shows the results of this calculation using the land area occupied by the townhomes and associated maneuvering lanes:

Table 5: Calculating Number Of "Rooms"

Permitted Density per RM-2, Multi-Family Residential District		
66,879 s.f. / 900 = 74 rooms		

The ordinance assigns a specific number of "rooms" to a unit, based on the number of bedrooms in each unit. Other rooms, such as a den, office, or similar extra space, are considered bedrooms when calculating density. Therefore, the number of rooms assigned to a unit is assigned as follows:

Efficiency apartment unit = 1 room
One-bedroom unit = 2 rooms
Two-bedroom unit = 3 rooms
Three-bedroom unit = 4 rooms
Four-bedroom unit = 5 rooms

The proposal has a variety of options that could result in either a 2-bedroom unit, a 3-bedroom unit or a 4-bedroom unit. The proposal could have as few as

Using this information, the density of the project is proposed as listed in the table on the next page. We have also included the maximum allowed under the RM-2 Zoning District for comparison:

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Table 6: Density Analysis

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	Proposed Number of Rooms/Units		
Single-Unit Buildings (3 units)	3 units x 5 rooms = 15 rooms		
If Townhomes all had 4 "bedrooms" (17 units)	17 units x 5 rooms = 85 rooms		
If Townhomes all had 3 "bedrooms" (17 units)	17 units x 4 rooms = 68 rooms		
If Townhomes all had 2 "bedrooms" (17 units)	17 units x 3 rooms = 51 rooms		
TOTAL	20 units/ 66 - 100 rooms		

At the least, the density is 11% under the ordinance standard for a multi-family project on this site; and at the most, the density is 35% over the ordinance standard. If the townhomes were an even mix of units having 2 to 4 bedrooms (or 67 rooms), then the density would be 9% below the ordinance standard.

Another way to look at density is to calculate "dwelling units per acre." We have estimated the density of other similar projects in Plymouth in the table on the next page. This will allow the Planning Commission to experience the density of the built projects and understand the character these projects offer, and how they fit into the existing streetscape.

Table 7: Similar Existing Projects

Project	Density	Comments
Brookside Village (Current Proposal)	20 units / 1.53 ac. = 13 DU/AC	2.5- story townhouses on Ann Arbor Trail.
Saxton's – Jewell/Maple PUD	10 units / 0.75 ac. = 13 DU/AC	2.5-story townhouses on Maple St.
Plymouth Trail Condominiums	29 units / 2.15 ac. = 13.5 DU/AC	1.0-2.0-story attached single-family on A2 Trail.
Daisy PUD	159 units / 10.47 ac. = 15 DU/AC	2.0-story attached single-family & 3.0-story townhouses on N. Union St.
A2 Trial & Hamilton	10 units / .52 ac. = 19 DU/AC	2.5 story townhouses on Ann Arbor Trail.
Hamilton St.	27 units / 1.13 ac. = 28 DU/AC	3.0-story condominium building on Hamilton St.

The project could build-out to be below or above the maximum number of rooms depending on how each unit is designed. If looking at the project via "dwelling units per acre," this project is on the low end of other similar projects in Plymouth.

If the Planning Commission deems that 17, 4-bedroom townhomes are appropriate (or 100 rooms for the entire project), then this would be a deviation from the ordinance (or over the maximum in the ordinance by 26 rooms, or 35%).

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In our opinion, we evaluate density on the land's ability to support the proposed development, as well as what "fits" within the context of the setting, and similar developments already built in the community. Our analysis above has provided the opinion that the proposal has a number of characteristics that fit into the character of the existing street. In addition, this project proposes a rate of "dwelling units per acre" which is on the low end of other similar projects in town. However, this site is not able to support the level of development proposed along the stream. As mentioned above, we think the 6 large townhome units along the rear of the property are too close to the stream.

Items to be Addressed: 1) Planning Commission to determine is potential density deviation is consistent with the intent of the Master Plan.

SITE PLAN

SCHEDULE OF REGULATIONS

Section 78-313 states that the schedule of regulations for each respective land use must be met, unless the Planning Commission and City Commission approve deviations that advance the objectives of the Zoning Ordinance. The proposed church is evaluated by the R-1 One-Family Residential District standards, while the proposed townhomes are evaluated by the RM-2 Multi-Family Residential District standards.

Table 8: Schedule of Regulations Requirements: Church Building

			R-1 Required	Proposed (Church)
Minimum Lot Size/Width		idth	3-acres / 200 feet road frontage	Approx. 0.72-acres / 81 feet road frontage**
Height of building			2 stories, 25 feet maximum	1 story, 20 feet
	Front (Ann Arbor Trail)		50 feet*	25 feet
	Sides	Least one	30 feet least*	10 feet
	Rear		50 feet*	114 feet
Frontage			Located on street with min. 86-foot right-of-way	Ann Arbor Trail – 66-foot right-of-way**

^{*}Per Special Land Use standards in Sec. 78-296.

Table 9: Schedule of Regulations Requirements: Townhome Buildings

			RM-2 Required	Proposed (Townhomes)
Minimum Lot Size/Width		Vidth	10,000 s.f. (No min. width req.)	Approx. 66,879 s.f.
Height of building			4 stories	2.5 stories, 25 feet
	Front (Ann Arbor	Trail)	25 feet, or equal to the height of the building (or 24.75 feet)***	43 feet***
	Sides	Least one	10 least / 20 total	10 feet (east) 17.9 feet (west)
	Rear		35 feet	35 feet
Distance Between Buildings		uildings	70 feet - Front to Front 70 feet - Rear to Rear 25 feet - End to End (sides) 50 feet - End to Front 50 Feet -End to Rear	N/A - Front to Front 31 feet - Rear to Rear N/A feet - End to End (sides) N/A feet - End to Front 33 Feet -End to Rear
Minimum usable open space		en space	150 s.f. x 43 to 77 beds = 6,450 s.f. 11,550 s.f.	?? s.f.

^{***}Sec. 78-191 states that ½ of the right-of-way width may be considered as a front yard setback. The Ann Arbor Trail right-of-way is 66-feet wide. Therefore, if ½ of the right-of-way width is counted toward the front setback, then the location of the townhomes along this street frontage is 43 feet (or 10-feet on the subject site, and 33-feet of right-of-way width).

^{**}The church already occupies this site, and currently doesn't meet these ordinance standards. We consider these conditions to be existing non-conformities that could be approved through the PUD process.

Side Setbacks: Section 78-296 requires a minimum 30-foot side setback for the church. The current building is located 39.8 feet away from the westerly property line. The proposal locates the church building 10-feet from the westerly property line. This is a deviation of the proposed project.

Distance Between Buildings: The ordinance requires a certain dimension between buildings. The purpose of these requirements is to ensure there is enough space for vehicular access, and to create a more campus-like setting. However, it's our opinion that these distances are more attuned to a suburban setting, and not a built-out city. Also, the other, similar developments in the City noted above do not fully comply with these requirements. Distance between buildings would be a project deviation.

Minimum Usable Open Space: Because the units may be built-out in a variety of ways, it's unknown if this standard could/will be met. In any case, the amount of usable open space should be shown on the plans.

Items to be Addressed: 1) Proposed side yard setback of church building. 2. Proposed distance between buildings for townhouse buildings. 3) Show proposed amount of usable open space on plans.

PARKING, LOADING

Again, the required parking is difficult to calculate given the flexibility in how the townhomes could be build-out (2 bedrooms to 4 bedrooms). The table below shows a range of required parking for the townhomes, parking required for the church, and the proposed parking shown on the site plan:

Parking Requirements

	Parking Required	Parking Provided
Townhouses	2 spaces per 2-bedrooms unit, and 2.5 spaces per units with 3 or more bedrooms =	2 garage spaces/unit plus 2 driveway spaces for 17 units
	$(3 \text{ units } \times 2.5) + (17 \text{ units } \times 2) = 42 \text{ spaces to}$ $(20 \text{ units } \times 2.5) = 50 \text{ spaces}$	(20 units x 2) + (17 x 2) = 74 spaces
Church Building	One parking space per 2 seats = 63 seats / 2 = 32 spaces	45 spaces
TOTAL	74 to 82 spaces	119 spaces

Number of Parking Spaces

The proposal exceeds the requirement for number of parking spaces. However, the three individual units along Ann Arbor Trail have no visitor parking spaces, and there are no visitor spaces outside of driveways. Will visitors to the three individual townhomes along Ann Arbor Trail be able to use the church's lot? If yes, how will this coordinate with the vehicles of Tonquish Creek Manor residents?

The church lot shows the required number of barrier-free parking spaces, with at least one van-accessible parking space (8-foot wide space with 8-foot wide aisle).

Location of Parking Lots

Sec. 78-296 (applicable to church parking) requires that parking lots be setback a minimum of 15-feet from the side and rear property lines. The proposed church parking lots are in the same location as the

existing church parking lot, and are located directly on the property lines. We consider this condition an existing non-conformity, which will be improved with the addition of parking lot islands.

Screening of Parking Lots

Section 78-203 requires a 10-foot landscaped strip between a parking lot and any abutting street. This requirement applies to the parking lot that abuts Joel R Street, as the parking lot does not abut Ann Arbor Trail. The current parking lot has no buffer, and pavement abuts the sidewalk along Joel R. The proposal shows two new landscape areas of 5-8-feet wide between the rear parking lot and the public sidewalk. We would consider this change to reduce an existing non-conformity.

Sec. 78-206 also requires that where a multi-family use is located next to a single-family residential district, a 4.5-6.5-tall wall, fence, or landscaped berm is required between land uses. Given the current site design, implementing this requirement is not feasible. The Planning Commission could consider this a deviation, and in our opinion, is logical.

Parking Lot/Space Dimensions

The dimensions of the proposed parking spaces meet ordinance requirements.

The maneuvering lane in the church lot meets the minimum width of 20-feet. However, the lane underneath the overhang (for drop-off/pick-up) is wide for a one-way lane, and could be narrowed. The need for such a wide lane, since it is one-way, should be provided.

The internal maneuvering lane in the townhouse portion of the project is 20-feet wide, meeting the minimum width in the ordinance.

Loading Space

The plans do not show any loading/unloading space. Given that the church has a reading room, the applicant should describe the types of delivery trucks visiting the site, and indicate where they would "stand" while making their delivery.

Clear Vision Area

No buildings are within the clear vision area along either street facade.

Items to be Addressed: 1) Will visitors to the three independent units on Ann Arbor Trail be able to use the church lot? If yes, how will this coordinate with parking offered to Tonquish Creek Manor residents? 2) Lack of screen wall/fence/landscaping between multi-family use and single-family district; Planning Commission to consider if acceptable deviation. 3) Applicant to provide reasoning on proposed width of pavement under church canopy given that it is a one-way lane. 4) Provide information on truck deliveries to the reading room, and proposed standing location on site while making deliveries.

CIRCULATION

Access to both the church and townhouse development are provided via two shared driveways, one from Ann Arbor Trail and a second from Joel R Street. Both driveways currently exist, but the Ann Arbor Trail driveway has been shifted to the east. We consider sharing the driveways between uses as a positive aspect of the plan.

Items to be Addressed: None.

SIDEWALKS

Currently, public sidewalks exist along both street frontages. The plans proposed to retain these walks.

A new sidewalk is proposed between the public sidewalk along Ann Arbor Trail and the Tonquish Creek trail via a new staircase at the back of the site. We consider this sidewalk a positive aspect of the plan, but an easement will be necessary to locate pavement between the stairs and the trail pavement.

Items to be Addressed: None.

LANDSCPAING/LIGHTING/SIGNAGE

Information regarding landscaping, lighting, and signage are components of a Final PUD Site Plan. We will evaluate these topics upon Final Site Plan review.

Items to be Addressed: None.

ARCHITECTURAL ELEVATIONS AND FLOOR PLANS

The plan set provides architectural elevations and floor plans of the proposed church, single-use residential buildings, and the multi-family townhouse buildings. However, the floor area of the townhome units has not been provided. We estimate that the smallest unit (38' x 26' footprint) would be 2,579 s.f., and the largest unit (35' x 29') would be 2,736 s.f. The applicant should confirm the possible floor area range of the townhomes on the plans. Also note that in the previous submission, the smallest unit (41.5 x 18.5) was approximately 2,160 s.f. and the large unit (35' x 26') was approximately 2,620 s.f. The number of units has gone down, but the size of the units has increased.

We have provided our opinions regarding the character of the proposed buildings under the "PUD Criteria" section of this review, as well as possible adjustments to the location of the townhouse units along the north side of the site to keep construction impacts out of the Tonquish Creek streambanks. We commend the applicant for designing "usable" front porches on the single-unit residential buildings.

Items to be Addressed: 1) Applicant to provide possible floor area range of proposed townhomes on plans.

RECOMMENDATIONS

We support the general concept illustrated in this PUD proposal, and think it meets most of the PUD criteria. However, there are a number of details that, in our opinion, need to be clarified before recommending Preliminary approval. Our main concern is that the layout of the project is too close to Tonquish Creek, and will have a negative impact on the creek, stream, and water quality. The Planning Commission should consider the proposed deviations in light of the proposed "public benefits" offered by the project (see Appendix), and discuss areas of non-compliance with the applicant. The applicant should provide additional information, and clarification of the following topics:

A. Preliminary PUD Plan Requirements:

- 1) Provide a narrative listing the PUD criteria (Sec. 78-311(c)), and describe how the project meets each.
- 2) Provide an explanation of why the submitted PUD is superior to a plan which could have been prepared under strict adherence to the Zoning Ordinance.
- 3) Show current land uses abutting subject site on plans.
- 4) Provide phasing description, if any.
- **B. PUD Criteria**: Provide additional information to complete evaluation of all PUD Eligibility criteria, including:
 - 1) Applicant to provide additional information about public benefits, as summarized on Pages 11 and 12 of this review.
 - 2) Confirmation by City Engineer that the City's water and sewer system has additional capacity to handle this development.
 - 3) Shift the northern townhouse units away from the top of the streambank.
 - 4) Provide height dimension (to the midpoint of the roof) of the office building to the east, and provide graphic comparison of this building with the proposed single-unit buildings along Ann Arbor Trail.
 - 5) Planning Commission to discuss one project inconsistency with Master Plan (multi-family/townhouse vs. single-family appearance).
 - 6) Applicant to confirm that a single entity will be responsible for implementing all aspects of the project (townhome portion and church portion) in conformance with the approved plans.
 - 7) Recommend Planning Commission condition any Preliminary PUD Plan approval on the applicant providing draft Condominium Documents with their Final PUD Plan submission.

C. Density:

1) Planning Commission to determine if potential density deviation is consistent with the intent of the Master Plan.

D. Area, Width, Height Setbacks:

- 1) Proposed side yard setback of church building.
- 2) Proposed distance between buildings for townhouse buildings.
- 3) Show proposed amount of usable open space on plans.

E. Parking/Loading.

- 1) Will visitors to the three independent units on Ann Arbor Trail be able to use the church lot? If yes, how will this coordinate with parking offered to Tonquish Creek Manor residents?
- 2) Lack of screen wall/fence/landscaping between multi-family use and single-family district; Planning Commission to consider if acceptable deviation.

- 3) Applicant to provide reasoning on proposed width of pavement under church canopy given that it is a one-way lane.
- 4) Provide information on truck deliveries to the reading room, and proposed standing location on site while making deliveries.

F. Architectural Elevations and Floor Plans.

1) Applicant to provide possible floor area range of proposed townhomes on plans.

CARLISLE/WORTMAN ASSOC., INC.

Sally M. Elmiger, AICP, LEED AP

Principal

#152-1804

cc: Greta Bolhuis

John Buzuvis Marleta Barr

APPENDIX:

Project Benefits that Could Not/Not Likely Part of Project without application of PUD Process		Project Deviations
1.	Project allows church to remain in Plymouth	1. 20 vs. max. of 10 units using underlying zoning
2.	Project offers housing type alternative not readily available in the City.	Townhouse design vs. single-family appearance (as called for in Master Plan).
3.	Tonquish Creek and Trail Restoration Plan (Prepared by ECT)	3. Possible 35% increase in density (as calculated using "bedrooms," as defined in the ordinance). The scope of this deviation depends on how the units are built-out.
		4. Church building side setback (10' vs. req. 30')
		5. Townhouse distance between buildings
Project Benefits that Require More Details		6. Townhouse min. usable open space.
1.	Shared parking with Tonquish Creek Manor residents (how many spaces, how often/when available, who may use them?)	7. Screen wall requirement between multi-family and single-family uses.
2.	Funding for some creek restoration work (how much?)	
3.	Creek restoration plan (need for plans prepared by ecological restoration professional with demonstrated experience in this work)	
4.	Deed land to City along creek to facilitate maintenance (where, how much land?)	
5.	Easement required for new staircase to creek trail.	
6.	New lights/benches along creek trail (how many, where?)	
7.	Tonquish Creek Manor pocket park (negative impacts on trees/streambank slopes)	
8.	Pocket park at church reading room (add bike racks & landscaping to plans)	

RECEIVED

CITY OF PLYMOUTHSITE PLAN REVIEW APPLICATION

Community Development Department
201 S. Main Street Plymouth, MI 48170
Ph. 734-453-1234 ext. 232
www.plymouthmi.gov

JAN 21 2024

CITY OF PLYMOUTH COMMUNITY DEVELOPMENT

I. Site/Project Information Site Address	Current Z	Current Zoning Classification Da		Date of Application		
980 W Ann Arbor Rd	ARC	Q	02/20/2024			
Name of Property Owner	Phone Number					
KC & AC Investments LLC		810-523-1614				
Mailing Address		Email Address (Required)				
50255 Boardwalk Ave	kacın	kacinvests@gmail.com				
City	State		Zip Code	N server		
Northville	MI		48167			
II Applicant and Contact Information						
II. Applicant and Contact Information Indicate Who the Applicant Is. If Property Owner, Skip to Section III.	Archite	ct Develope	r Eng	ineer × Lessee		
Applicant/Company Name	Phone No					
Soothing Dental PLLC Alejandra Cutt	er 248-	892-7651				
Applicant/Company Address	City		State	Zip Code		
496 W Ann Arbor trl Suite 201	Plym	Plymouth MI		48170		
Email Address (Required)						
dds@soothingdental.com						
III. Site Plan Designer and Contact Information Site Plan Designer Company Name	Phone Nu	ımber				
Vital Signs Livonia -Michael Nagy	200-250 200	42-4800				
Company Address	City		State	Zip Code		
37037 Schoolcraft Road	Livon	ia	MI	48150		
Registration Number Expiration Date	Б 11.4	Email Address (Required)				
Registration Number Expiration Date	Email Ac	ldress (Required)				
5306242 12/31/2024		ital@aol.cor	n			
The state of the s			To State - May			
5306242 12/31/2024 IV. Type of Project (Please Select All that Apply)	mcnv	ital@aol.cor	V. I	listoric District		
5306242 12/31/2024 IV. Type of Project (Please Select All that Apply) ■ Commercial □ Multi-Family □ New □ Remode	mcnv	ital@aol.cor ☐ Change of Use	V. He Is thi	Listoric District s project located in the oric District?		
5306242 12/31/2024 IV. Type of Project (Please Select All that Apply)	mcnv	ital@aol.cor	V. He Is thi	s project located in the oric District?		
IV. Type of Project (Please Select All that Apply) Commercial □ Multi-Family □ New □ Remode □ Mixed Use □ Industrial ■ Addition □ Interior	mcnv	ital@aol.cor ☐ Change of Use	V. He Is thi Histo	s project located in the oric District?		
IV. Type of Project (Please Select All that Apply) Commercial □ Multi-Family □ New □ Remode □ Mixed Use □ Industrial ■ Addition □ Interior VI. Description of Work	mcnv el Finish	ital@aol.cor ☐ Change of Use ☐ Special Land	V. F e Is thi Histo Use □Yo	s project located in the ric District?		
IV. Type of Project (Please Select All that Apply) ☐ Commercial ☐ Multi-Family ☐ New ☐ Remode ☐ Mixed Use ☐ Industrial ☐ Addition ☐ Interior VI. Description of Work Please See attached letter. Our West side sign p	mcnv el Finish	ital@aol.cor ☐ Change of Use ☐ Special Land	V. F e Is thi Histo Use □Yo	s project located in the ric District?		
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VII	I. Applicant Signature			
	ature of Applicant	Date		
	KG.	2/21/202	4	
T 777				
	II. Property Owner Signature ature of Property Owner	Date		
	XeC-	2/21/20	zy	
Sub	oscribed and sworn before me this 215 day of Feb	, 20 2	У	
	K ROLLINS Notary Public: County of Wayne My Commission Expires Oct 7, 2026 Acting in the County of WAYNE	f. (all— es: 10107/20210		
For	r Office Use Only	1991/1994/11A	nangishmilisisisisisisisisis	engilisisti/histolin
e-cities consenses		YES/DATE	NO	N/A
1.	Pre-Application Meeting	ettiitikkeete kiristiisiisiise valtitusta tääntyö teluisia niivatti kainnivistiidettiin valatuvaanimaan maan V		korinta maarin
2.	Digital Copy of Application Package	taan inimininteeta unuuntaintiitäätääääääääääääääääääääääääääää		angumenty permitte
3.	Public Hearing Notice	નહેલામાં ભાગમાં આવ્યા ભાગમાં તેમ ભાગમાં તેમ ભાગમાં તે <mark>યું</mark> ભાગમાં આપામાં ભાગમાં ભાગમાં ભાગમાં ભાગમાં ભાગમાં ભાગમ -	(unique un manuelle de la constante de la cons	esimentaria de la composition della composition
4.	CWA Review	itanin matuka 1960 ili ili ili ili ili ili ili ili ili il	spings of squares to the street three	erioren araban.
5.	Municipal Services Review	જેએ તામ એક તામ અને પાતાર માણિયા મામ અપાવ ભાગ તે વૈજ્ઞાના કેવના ભાગ લાગ મામ સાથે માના માના પાતાર પાતાર પાતાર પા -	nelpertremenserem	en processor de la composição de la comp
6.	Fire Department Review	ાં જાત મહામાં મહામાં મહામાં મહામાં ભાગમાં મહામાં મહામાં મહામાં મહામાં મહામાં મહામાં મહામાં મહામાં મહામાં મહામા	to control of the control of the control	dignostroja/ospija/osj
7.	Engineering Review	માન્ય ભાગમાં આવ્યા હોઇ અહિલા ભાગન લોકો અહિંતી મુક્તિએ મિક્તિએ મિક્તિએ મિક્તિએ અહિંતી અહિંતી અહિંતી અહિંતી અહિં 	Name and the section of the section	hierenness ennesse

IX. Site Plan Review Checklist

Plea	ase include the following applicable information on the site plan.	YES	NO	N/A
1.	Correct scale	[]	[]	[]
2.	Name of person preparing plan*	[]	[]	[]
3.	Date, north point	[]	[]	[]
4.	Property line dimension	[]	[]	[]
5.	Street right-of-way widths	[]	[]	
6.	Existing utilities (sewer, water, gas, etc.) and easements	[]	[]	
7.	Show adjacent property and buildings, including zoning	[]	[]	[]
8.	Existing topography, trees and other features	[]	[]	[]
9.	Off-site ground, parking lot, roadway, driveway and/or structure elevations for minimum distance of 50 feet	[]	[]	
10.	On-site grid of maximum 100 feet intervals each way (closer where rolling terrain warrants) and minimum 2.0 feet contours	[]	[]	[]
11.	Location of new structures including side and front yard setbacks and building length and width (show a general floor plan)	[]	[]	[]
12.	Number of dwelling units per building	[]	[]	[]
13.	Height of structure	[]	[]	[]
14.	Percent one room apartments (efficiencies)	[]	[]	[]
15.	Total number of rooms if multiple-family	[]	[]	[]
16.	Parking requirements met (See Section 78-270)	[]	[]	[]
17.	Number of units and bedrooms each building	[]	[]	
18.	Parking lot layout (showing paved area) including ingress and egress and service area		[]	
19.	Parking lot space dimensions	[]	[]	
20.	Loading and unloading space	[]	[]	
21.	Site grading and drainage plan (on-site elevations for pavements, drives, parking lots, curbs, sidewalks and finish grade at bldg.)			
22.	Utility connections (sanitary sewer, water, storm sewers)	[]	[]	[]
23.	On-site storm water retention		[]	[]
24.	Fire hydrants within 300 feet (on- and off-site)	[]	[]	
25.	Sidewalks and elevations	[]		[]
26.	Sedimentation and erosion control plan	[]	[]	
27.	Landscape plan showing plant materials to be used		[]	[]
28.	Sign requirements met			
29.	Require walls and fences or greenbelts	[]	[]	[]
30.	Corner clearance	[]	[]	anaisinnasunnas [
31.	Service drive needed	1 1	[]	[]
32.	Acceleration lanes and traffic pattern			
33.	Trash receptacle locations including screening type and height	[]		
34.	Mail box locations	[]		[]

Please include the following applicable information on the site plan.		YES		NO		N/A	
35.	Air conditioner unit locations	[]	[]	[]
36.	Special site features (play areas, pools, etc.)	[]	[]	[]
37.	Handicapped facilities	[]	[]	[]
38.	Building elevation drawings	[1]		1

^{*}Where property line surveys, topography, sewer, water or storm drains are shown, the name of the registered engineer or land surveyor preparing such elements of the plan shall be indicated on the plan.



February 20, 2024

Dear City of Plymouth Planning Commission,

This letter is written with the purpose of appealing to the Planning Commission to grant Soothing Dental PLLC the permission to place a sign in both sides of the brick tower that exists in the building located at 980 W. Ann Arbor Rd. This will be consistent with the pre-existing sign that Chase bank had at said location. In addition to these 2 signs, Chase Bank also had a ground level sign facing Ann Arbor Rd. Placing a sign facing the West side of the tower and the East side will allow for visibility from the traffic flowing in both directions.

The main entrance of the building does not run parallel the road, in which case one sign would have made sense. Because the main entrance faces east this building needs two signs in order to have the proper visibility for patients to find it. Lack of proper visibility will result on ineffective marketing, and frustration from patients driving from the west side. It will decrease community engagement and it will pose safety concerns. Patients coming from the west side could impede traffic and increase the potential for accidents since they are not being directed properly. Most importantly, if emergency services are needed it will delay the response if coming from the west.

Esthetically, having mirror image signs facing west and east will create consistency and balance.

Lack of signage on the west side of the building will completely conceal the type of business located in this building making it unidentifiable posing safety, economical and community engagement concerns.

I hope this letter explains the importance of having signage facing east and west.

Sincerely,

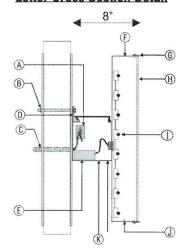
Dr. Alejandra Cutter DDS







Letter Cross Section Detail



- A listed disconnect switch
- B thru bolt
- C primary electrical source
- D mounting tab
- E power supply
- F 3" (.040) aluminum return
- G 1" trim cap
- H 1/8" thick acrylic face
- I white LED
- J weep holes
- K 5" deep aluminum raceway

LED ILLUMINATED CHANNEL LETTERS ON RACEWAYS WITH LOGO. WHITE ALUMINUM RETURNS, WHITE PLASTIC FACES, WHITE LED, BLACK TRIMCAP. DIGITALLY PRINTED VINYL OVERLAY ON LOGO FACE. ALUMINUM RACEWAY PAINTED PER CLIENT DIRECTION.

All electrical to be UL Listed and Labeled

CUSTOMER APPROVAL

SQUARE FOOTAGE:

41.2

CLIENT:

Soothing Dental

DDBESS:

980 W. Ann Arbor Road Plymouth, MI 48170

DATE

DATE:

1/23/24

VITAL SIGNS

SIGN MANUFACTURER

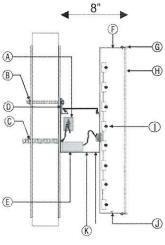
37037 Schoolcraft, Livonia, MI 48150 734-542-4800 (o) 734-542-4070 (f) mcnvital@aol.com







Letter Cross Section Detail



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(UL) LISTED