

Trustees
John Newman II
Gloria Peterson
Debbie Swanson
Ryan Hunter

ZONING BOARD OF APPEALS

WEDNESDAY August 7, 2024, @ 6:30 P.M.

If you need any assistance due to a disability, please contact the Planning Department at least 48 hours in advance of the meeting at planning@ypsitownship.org or 734-544-4000 ext. 1.

- Call Meeting to Order
- 2. Roll Call Determination of a quorum
- 3. Approval of Agenda
- 4. Approval of the October 04, 2023, Regular Meeting Minutes
- 5. Public Hearing

Applicant: Johnson Sign Company

Location: 1201 S. Huron Street, Ypsilanti, MI 48197

Parcel ID: K-11-37-420-004

Request: Article 15 – Sec. 1509.6: Permitted Signs in Form-Based Districts:

Request for variance to the ground sign requirements in form-based

districts.

Applicant: Vance Palmer

Location: 2789 Washtenaw Avenue, Ypsilanti, MI 48197

Parcel ID: K-11-06-303-003

Request: Article 11 – Sec. 1116.1: Veterinary Clinics: Request for variance to

allow fenced animal run to be located outside.

Applicant: Skilken Gold

Location: 755 S. Hewitt Rd., 2103 and 2059 W. Michigan Avenue, Ypsilanti, MI

48197

Parcel ID: K-11-18-100-019, K-11-39-350-023, and K-11-39-350-022

Request: Article 5 – Sec. 507.E: Transparency Requirements: Request for

variances to the transparency requirements on W. Michigan Ave.

and S. Hewitt St. facades in form-based districts.

Applicant: Skilken Gold

Location: 755 S. Hewitt Rd., 2103 and 2059 W. Michigan Avenue, Ypsilanti, MI

48197

Parcel ID: K-11-18-100-019, K-11-39-350-023 and K-11-39-350-022



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Request: Article 5 – Sec. 503.4: Building Form Types: Request for variance to

the building setback requirements along S. Hewitt Rd. in form-based

districts.

Applicant: Skilken Gold

Location: 755 S. Hewitt Rd., 2103 and 2059 W. Michigan Avenue, Ypsilanti, MI

48197

Parcel ID: K-11-18-100-019, K-11-39-350-023 and K-11-39-350-022

Request: Article 5 – Sec. 503.4: Building Form Types: Request for variance to

the parking lot location requirements in form-based districts.

6. Open discussion for issues not on the agenda

a. Planning Department report

b. Correspondence received.

c. Zoning Board of Appeals members

d. Members of the audience and public

7. Any other business that may come before the Zoning Board of Appeals

8. Adjournment

(THERE IS NO WORK SESSION)



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Zoning Board of Appeals Staff Report

August 07, 2024

Applicant: Johnson Sign Company, 2240 Lansing Avenue, Jackson, MI 49202

Location: 1201 S. Huron Street, Ypsilanti, MI 48197, Parcel K-11-37-420-004

Zoning: TC, Town Center with a Site Type D Designation

Action Requested: Request for variance to the sign requirements of Article 15 – Sec.

1506.6

Variance Request:

Request for variance to the ground sign requirements of Article 15 – Sec. 1506.6 – Permitted signs in form-based districts of the Township Zoning Ordinance to construct a ground sign that exceeds the height and size requirements allowed.

Location and Summary of Request:

The subject site is a 132-acre parcel, located at the S. Huron Street and James L. Hart Parkway Intersection, just south of the S. Huron and I-94 Interchange. The property is Zoned TC, Town Center with a Site Type D Designation. This property is owned by the Charter Township of Ypsilanti but is leased to the Eagle Crest Golf Course. The golf course was established in 1989 and is also home to the Marriott Hotel and Resort. Commercial and Industrial land uses surround the site in question.

The applicant is seeking relief from Article 15 – Sec. 1506.6 – Permitted signs in form-based districts. Johnson Sign Company are asking the Zoning Board of Appeals to consider granting them a 209 sq. ft. variance, and a 2-foot height variance to the required 32 sq. ft. sign area and 6-foot height requirement.

Cross References:

Article 15 – Sign Requirements Article 17 – Zoning Board of Appeals

CHARTER TOWNSHIP OF YPSILANTI ZONING BOARD OF APPEALS Wednesday, October 4, 2023 6:30 p.m.

COMMISSIONERS PRESENT

COMMISSIONERS ABSENT

Elizabeth El-Assadi Stan Eldridge Edward Burnett David Marshell Brad Hine Jeff Kenner

MANAGEMENT PRESENT

Fletcher Reyher, Planning and Development Coordinator Dennis McLain, Township Attorney

I. <u>CALL MEETING TO ORDER</u>

MOTION: Ms. El-Assadi called the meeting to order at 6:35 p.m.

II. ROLL CALL – DETERMINATION OF A QUORUM

Ms. El-Assadi completed the roll call and confirmed a quorum was established.

III. APPROVAL OF AGENDA

MOTION: Mr. Eldridge **MOVED** to approve the agenda. The **MOTION** was **SECONDED** by Mr. Burnett and **PASSED** by unanimous consent.

IV. APPROVAL OF THE SEPTEMBER 06, 2023, REGULAR MEETING MINUTES

MOTION: Mr. Eldridge **MOVED** to approve the September 6, 2023, Regular Meeting Minutes as presented. The **MOTION** was **SECONDED** by Mr. Burnett and **PASSED** by unanimous consent.

V. OLD BUSINESS

None.

VI. PUBLIC HEARING

• Applicant: Bryan & Arwen Mosher

Location: 2627 Southlawn Street, Ypsilanti, MI 48197

Parcel ID: K-11-06-379-007

Request: Article 4 – Sec. 406. One-Family Residential Districts:

Request for Variance to the rear yard setback requirements.

Mr. Reyher presented a report on behalf of the applicants, noting that they are requesting a variance of 30' rear yard setback as opposed to the required 35' setback. He notes that there is an exceptional circumstance for the property, which has a larger front yard setback of 30', resulting in a smaller rear yard. The proposed home addition encroaches 14' into the rear yard and would need to be reduced to 9' to meet the 35' rear yard setback, which would render the addition unusable to suit their growing family. This Variance would not be detrimental to surrounding properties or the character of the area. A large, wooded area is present that would block the view of this addition from adjacent commercial property.

MOTION: Mr. Eldridge **MOVED** to approve the variance request to the rear yard setback requirements as outlined in Article 4 – Sec. 406. One Family Residential Districts for the home addition for the property located at 2627 Southlawn Street, Ypsilanti, MI 48197, contingent that the owners obtain all required permits. The **MOTION** was **SECONDED** by Mr. Burnett and **PASSED** by unanimous consent.

Roll Call: Mr. Burnett – Yes, Mr. Eldridge – Yes, Ms. El-Assadi – Yes.

• Applicant: Jochen Willig

Location: 7909 Lake Crest Drive, Ypsilanti, MI 48197

Parcel ID: K-11-21-186-208

Request: Article 14 – Sec. 1401. Natural Feature Setback:

Request for Variance to the natural feature setback requirements.

Mr. Reyher presented a report on behalf of the applicant regarding a setback variance of a shed to a natural feature. The applicant previously applied for the addition of two sheds with additional information requested for a map amendment from FEMA to be submitted

as one shed was in a flood zone. Afterward, the zoning permit was approved for two sheds. A mistaken approval was previously submitted, and the follow-up is being discussed today. The shed is proposed to be 20' away from the lake as opposed to the required 50' setback. The applicant's property and surrounding properties have extraordinary circumstances regarding steep grades in rear yards down to the lake, with the home sitting at an approximate elevation of 742' with a slope of 54' from the home to the water's edge. Constructing a shed outside of the 50' setback is unsafe. The applicant currently has one 11' x 17' shed and a two-car garage. The second shed, at 12' x 16', would increase the enjoyment of the property for the owner. It is the opinion that this added shed will not negatively impact adjacent owners. The applicant has taken several steps to mitigate dangerous slopes in grade by way of landscaping.

The applicants addressed the Commission to support the report presented by Mr. Reyher. An adjacent owner (Don & Marian Brinkman) noted that they do not support the addition of a second shed variance as they believe that as the existing shed is visually intrusive, a second shed may negatively affect the view from the lake. An adjacent owner (Matt Williams) addressed the Commission, providing concerns over the stability of the existing shed, but the Commission clarified that they are considering a second shed. Another owner (Jeff Copmanas) addressed the Commission, stating that the applicants have taken great steps to ensure all matters are addressed in a manner consistent with planning and zoning.

Mr. Eldridge presented questions for clarification regarding setting a precedent with the number of existing features, among others.

MOTION: Mr. Eldridge **MOVED** to approve the variance request to the natural feature setback in the amount of 30' for the addition of a second shed for the property located at 7909 Lake Crest Drive, Ypsilanti, MI 48197, contingent that the shed not have a permanent foundation and shall be able to be moved or removed without significant damage to the surrounding area, the applicants will take due care upon construction, will not disturb the lake's edge, or utilize use of heavy machinery. The **MOTION** was **SECONDED** by Mr. Burnett and **PASSED** by unanimous consent.

VII. OPEN DISCUSSION FOR ISSUES NOT ON THE AGENDA

- a. PLANNING DEPARTMENT REPORT Mr. Reyher reported no current applications submitted and may not reconvene until 2024.
- b. CORRESPONDENCE RECEIVED None
- c. ZONING BOARD OF APPEALS MEMBERS None

d. MEMBERS OF THE AUDIENCE AND PUBLIC - None

VIII. OTHER BUSINESS THAT MAY COME BEFORE THE ZONING BOARD OF APPEALS

None

IX. <u>ADJOURNMENT</u>

MOTION: Mr. Eldridge **MOVED** to adjourn at 7:24 p.m. The **MOTION** was **SECONDED** by Mr. Burnett and **PASSED** by unanimous consent.

Respectfully submitted by Minutes Services.



Trustees
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Ryan Hunter

Aerial View - 1201 S. Huron Street



Per Sec. 1506.6

Parcels one (1) acre or greater: shall not exceed thirty-two (32) square feet in area. Additionally, Parcels one (1) acre or greater: shall not exceed six (6) feet in height.

Town Center Sign Requirements	Required	Proposed
Sign Square Footage	32 sq. ft.	241 sq. ft.
Sign Height	6-foot Maximum	8-foot tall



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Street View - 1201 S. Huron Street







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Analysis:

The Zoning Board of Appeals may grant a dimensional or non-use variance only upon a finding that compliance with the strict letter of the restrictions governing area, setbacks, frontage, height, bulk, density, or other dimensional provisions would create a practical difficulty and unreasonably present the use of the property. A finding of practical difficulty shall require demonstration that all the following conditions are met:

1. That there are exceptional or extraordinary circumstances or conditions applying to the property in question that do not apply generally to other properties or classes of uses in the same zoning district.

The property in question has unique characteristics that warrant the proposed variance. Specifically, the driveway entrance to the property is located at the first intersection approximately 1,000 feet south of the I-94 Highway interchange with a 45-mph speed limit. At 45-miles-per-hour, it would take less than one minute for a driver to travel this distance. This location and speed limit require signage that is easily visible to drivers who need to make relatively quick decisions due to the high-speed traffic and the proximity to the highway exit. Also, this entrance serves as a primary point of entry for visitors to this site, making effective signage crucial for safety and navigation.

Moreover, the parcel in question is very large (132 acres), with a wide frontage on Huron St. (over 1,000 feet). This condition does not generally apply to other properties in this zoning district and contributes to the uniqueness of the site.

2. That a variance is necessary for the preservation and enjoyment of a substantial property right possessed by other properties in the same zoning district and in the vicinity.

The variance is necessary to allow the applicant to enjoy the same substantial property rights possessed by other properties in the same zoning district and vicinity, including adequate identification of the golf course given the traffic speeds and expansive size of the property.

Furthermore, given the property's unique location as the first entrance off a highway interchange, adequate signage is essential for safe and efficient navigation.

That the authorizing of such a variance will not be a substantial detriment to adjacent property, will not be harmful to or alter the essential character of the area, and will not materially impair the purposes of this Ordinance or the public interest.

Variance relief for this property will not be a substantial detriment to, harmful to, or alter the essential character of the area. The new sign is adequately scaled relative to the size



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of the property and length of frontage to identify the entrance to the golf course, and not too large in relation to the size of the property to negatively impact the character of the area.

4. The property and resulting need for the variance has not been self-created by any action of the applicant or the applicant's predecessors.

The need for the variance arises from factors beyond the applicant's control, such as the property's unique location, roadway speed limits, size of the property, and visibility requirements. The applicant did not create these circumstances but must respond to them to ensure the property's successful use via adequate identification.

5. The proposed variance will be the minimum necessary and no variance shall be granted where a different solution not requiring a variance would be possible.

The proposed 8-foot tall, 241 sq. ft. sign is the minimum necessary to achieve the desired visibility and communication goals. The applicant has explored other options, but none would meet the requirements given the site conditions without a variance. The design of the proposed sign is also 51 sq. ft. (or 17%) smaller than the existing sign.

Suggested motions: The following suggested motions and conditions are provided to assist the Zoning Board of Appeals in making a complete and appropriate motion for this application. The ZBA may utilize, add, or reject any portion of the suggested motion or any conditions suggested herein, as deemed appropriate.

Postpone:

I move to postpone the variance requests at 1201 S. Huron Street, Ypsilanti, MI 48197, Parcel K-11-37-420-004 to the sign requirements of Section 1506.6 of the Township Zoning Ordinance for the construction of an 8-foot tall, 241, sq. ft. ground sign within the building envelope as shown on the plot plan included in the Zoning Board of Appeals Application dated June 26, 2024 to give the applicant an opportunity to address the comments made at this evening's meeting, and return with a revised proposal based on these comments.

Approve:

I move to approve the variance requests at 1201 S. Huron Street, Ypsilanti, MI 48197, Parcel K-11-37-420-004 to the sign requirements of Section 1506.6 of the Township Zoning Ordinance for the construction of an 8-foot tall, 241 sq. ft. ground sign within the building envelope as shown on the plot plan included in the Zoning Board of Appeals Application dated June 26, 2024. Granting of the requested variance meets the criteria for a non-use variance in Section 1704(D) of the Zoning Ordinance. Specifically, granting the requested variances is based on the following facts:



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- 1. There are exceptional conditions applying to this property that do not generally apply to other properties in this district, such as the size of the parcel, the entrance location relatively close to the highway interchange, and traffic speeds;
- 2. The variances will create adequate identification of the property's primary entrance, assisting in preserving safe traffic movements from a road with a 45-mph speed limit;
- 3. The variances will not be a substantial detriment to adjacent property and will not materially impair the purposes of this ordinance or the public interest,
- 4. The need for the variances is not self-created, as the applicant did not create the proximity to the highway interchange, or traffic speeds, and;
- 5. The proposed variances are the minimum necessary to adequately identify the golf course, given the site conditions of proximity to the highway, traffic speeds, and large property size.

This motion is further made with the following conditions:

1. The applicant shall obtain the required building permits and applicable trade permits for the construction of the sign.

Denial:

I move to deny the variance requests at 1201 S. Huron Street, Ypsilanti, MI 48197, Parcel K-11-37-420-004 to the sign requirements of Section 1506.6 of the Township Zoning Ordinance for the construction of an 8-foot tall, 241, sq. ft. ground sign within the building envelope as shown on the plot plan included in the Zoning Board of Appeals Application dated June 26, 2024., based on the following findings of fact that the requests do not meet the criteria in Section 1704(D) of the Zoning Ordinance. Specifically, the request does not comply with the following criteria: (ZBA states reasons for denial)

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2.			
_			

Fletcher Reyher

Respectfully Submitted,

Fletcher Reyher, AICP
Planning and Development Coordinator
Charter Township of Ypsilanti Planning Department

Charter Township of Ypsilanti Office of Community Standards 7200 S. Huron Drive, Ypsilanti, MI 48197 Phone: (734) 485-3943 Website betweet the standards

Website: https://ytown.org



ZONING BOARD OF APPEALS APPLICATION

JUN 2 6 2024

I. APPLICATION TYPE YF	PSILANTI TOWNSHIP	
Variance	OCS	
Exceptions and Special Approvals (I	ncludes: Temporary Uses and Structures)	
Administrative Review Appeal		
II. PROJECT LOCATION	Parcel ID #: K 11 37-420-004	Zoning TC
Lot Number: Subdivis	Parcel ID #: <u>K-11-</u> 37-420-004	20111118_1-5
Lot Number Subdivis		
III. APPLICANT INFORMATION		
Applicant: Johnson Sign Co	Phone: <u>7</u>	734-483-2000
Address: 2240 Lansing Ave	City: Jackson nsonsign.com agle Crest Golf Course Phone: 7	State: Mi Zip: 49202
Fax: Email: jess@joh	nsonsign.com	
Property Owner: Charter Twp of Ypsilanti - E	Eagle Crest Golf Course Phone: City: Ypsilanti	
Address: 7200 S Huron River Dr	City: Ypsilanti	State: MI Zip: <u>48197</u>
Fax: Email:		
Total: \$		
	✓ Non-residenti	ial: \$ 500.00
V. APPLICANT SIGNATURE	∠ Non-residenti	ial: \$ 500.00
	represents Eagle Crest Golf Course :	ial: \$ 500.00
The undersigned Johnson Sign Co	represents Eagle Crest Golf Course :	
The undersigned Johnson Sign Co Applicant 1. That Eagle Crest Golf Course is Property Owner	represents Eagle Crest Golf Course : Property Owner /are the owner(s) of lot(s) located gan, otherwise known as 1201 S Huron St	
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The undersigned Johnson Sign Co Applicant 1. That Eagle Crest Golf Course is Property Owner Subdivision , Ypsilanti Township, Michigation of TC Zoning District	represents Eagle Crest Golf Course : Property Owner /are the owner(s) of lot(s) located gan, otherwise known as 1201 S Huron St Address	in thesubdivision and the property is
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The undersigned Johnson Sign Co Applicant 1. That Eagle Crest Golf Course is Property Owner Subdivision, Ypsilanti Township, Michigation of TC Zoning District 2. That the petitioner hereby request Zoning Ordinance. 3. The petitioner further state that JJ	represents Eagle Crest Golf Course : Property Owner /are the owner(s) of lot(s) located	in thesubdivision and the property is e Of the Ypsilanti Township
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Charter Township of Ypsilanti Office of Community Standards 7200 S. Huron Drive, Ypsilanti, MI 48197 Phone: (734) 485-3943 Website: https://ytown.org

OFFICE USE ONLY

All	Zoning Board of Appeals Applications	2 10
	The application is filled out in its entirety. If the applicant is not the property owner, written and signed permission from the property owner is required. Fees Letter of interest of the applicant in the property	Plot plan or lot survey to scale showing the following: All property lines and dimensions All existing and proposed structures and dimensions Lot area calculations necessary to show compliance with regulations
		Easements and dimensions, if applicable Location of drives, sidewalks, and other paved areas on the property and on the adjacent streets. Location and dimensions of the nearest structures on adjacent properties.





Charter Township of Ypsilanti Office of Community Standards 7200 S. Huron Drive Ypsilanti, MI 48197

Letter of Intent for Zoning Variance For: Eagle Crest Golf Course 1201 S Huron St Ypsilanti, MI 48197

Zoning: TC

Parcel ID #: K -11-37-420-004

Dear Planning and Zoning Members,

We, Johnson Sign Co, are requesting a variance on behalf of Eagle Crest Golf Course, for the above address, to seek relief from the constraints of the sign ordinance standards set forth in Article XV, Sec. 1500.6 A.(1) pertaining to ground signs in the TC zoning district.

Eagle Crest Golf Course seeks to remove their existing 291 square foot, 21' tall sign and erect in its place a 241 square foot and 8' overall height sign that emulates the Marriott sign on the opposite side of the entrance drive. The proposed sign would exceed the ordinance by 209 square feet and 2 feet in height.

Granting of the requested variance would not be a detriment to the surrounding properties. The proposed sign provides an updated, clean, and uniform look to the area which is heavily traveled by drivers heading to and from I-94 and would serve to enhance the character of the area with the cohesive property signage.

Thank you for your consideration,

Sincerely,

Jessica Johnsen

Permit Coordinator Johnson Sign Co

JACKSON · LANSING · YPSILANTI · MANISTEE · SAGINAW



Dear Jim,

Eagle Crest Golf Club gives Johnson Sign Company permission to write a letter of intent to pursue the variance. Please proceed with the variance for the new front entrance sign at Eagle Crest Resort. This new sign will match the Marriott sign located on the south side of the entrance of the resort. We need to be in harmony with our neighbors and make the front entrance of this world-class resort look the same on both sides of the entrance. Our 35-year-old sign that is located on the north side of the entrance is outdated, has been repaired multiple times and is much bigger than the new sign we are proposing to Ypsilanti Township. This new sign is an upgrade for Eagle Crest Golf Club and will look great to our community.

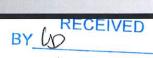
Thank you.

Wes Blevins, PGA General Manager

Eagle Crest Golf Club

New Single Sided Masonry Gateway Sign

SITE OVERVIEW



JUN 2 6 2024

YPSILANTI TOWNSHIP OCS



2240 Lansing Ave, Jackson, MI 49202 2900 Alpha Access St., Lansing, MI 48910 663 S. Mansfield, Ypsilanti, MI 48198 1965 Pine Creek Rd., Manistee, MI 49660 517 784 3720 | www.johnsonsign.com





INTERNATIONAL SIGN ASSOCIATION



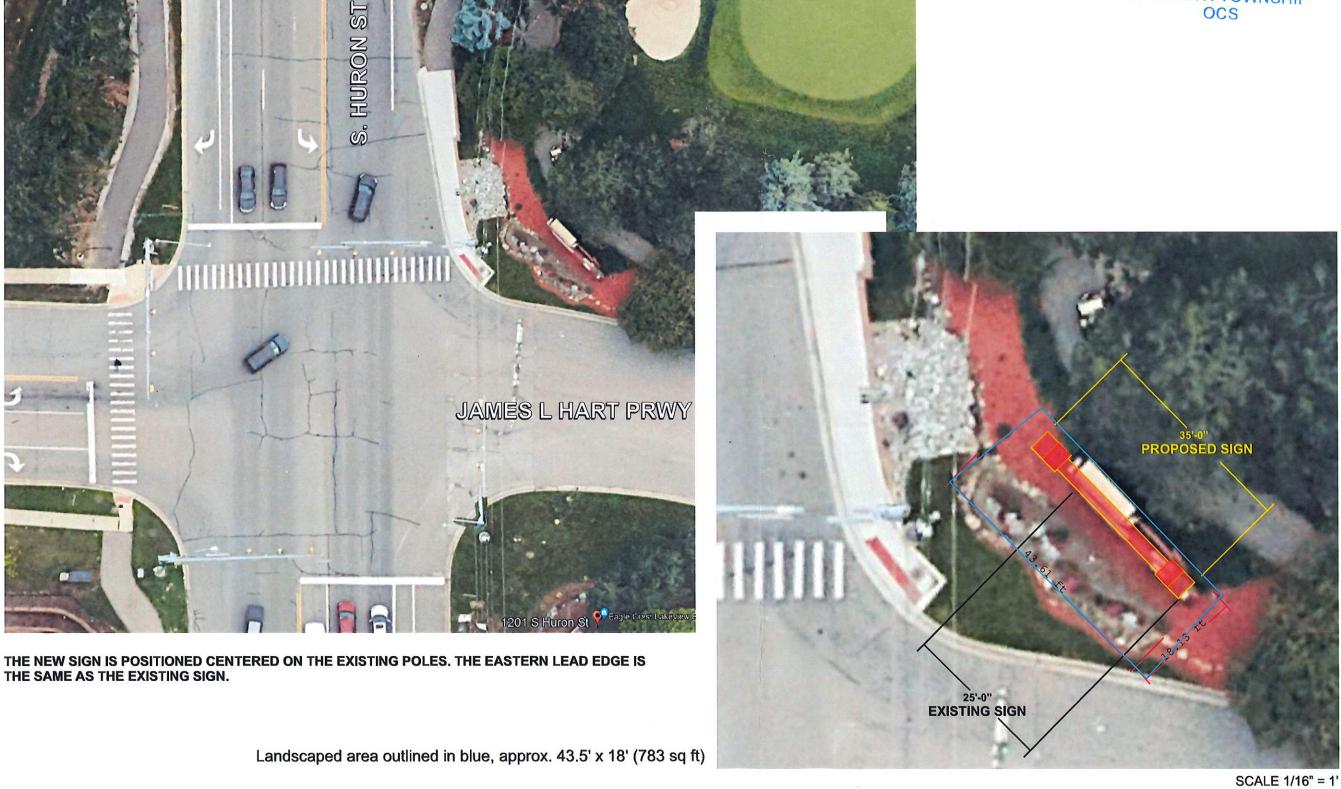
THIS SIGN IS INTENDED TO BE MANUFACTURED IN ACCORDANCE WITH ARTICLE 600 OF THE NATIONAL ELECTRICAL CODE AND/OR OTHER PROPER GROUNDING & BONDING OF THE SIGN
SIGN WILL BEAR UL LABEL(S). -SUITABLE FOR WET LOCATIONS-

DHNSON SIGN CO DOES NOT PROVIDE MARY ELECTRIC TO SIGN LOCATION

THIS DRAWING PROVIDED & INTENDED FOR CONCEPTUAL PURPOSES ONLY. THE FINISHED PRODUCT MAY BE SUBJECT TO MINOR & NECESSARY MODIFICATIONS TO AID OR ENABLE FABRICATION PROCEDURES

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# OF SETS	1 SINGLE SIDED	RETURN DEPTH 44" OVA	RACEWAY COLOR N.A.	DESIGNER	S WILKIE
FACE COLOR	SEE SPECS	TYPE OF INSTALL POLES / FOOTI	NGS TRANSFORMER N.A.	DATE	04/05/24
RETURN COLOR	STONE	TYPE OF FACE ALUMINUM / ST	TONE BALLAST N.A.	JOB NO.	231562
RETAINER COLOR	TO MATCH	RACEWAY D. H. L. N.A.	COMMENTS:	JOB NAME	2231562-12
LED COLOR	WHITE / RGB	HOUSINGS N.A.	SALESPERSON: JIM ANDERSON ADD	RESS: 1201 S.	Huron Street Ypsilanti, MI 48197

APPROVED BY:

DATE:

New Single Sided Masonry Gateway Sign







2240 Lansing Ave, Jackson, MI 49202 2900 Alpha Access St., Lansing, MI 48910 663 S. Mansfield, Ypsilanti, MI 48198 1965 Pine Creek Rd., Manistee, MI 49660 517 784 3720 | www.johnsonsign.com





INTERNATIONAL SIGN ASSOCIATION





IN ACCORDANCE WITH ARTICLE 600

NATIONAL ELECTRICAL CODE ANDIOR OTHER
NATIONAL ELECTRICAL CODE ANDIOR OTHER
APPLICABLE LOCAL CODES. THIS INCLUDES
PROPER GROUNDING & BONDING OF THE SIGN
SIGN WILL BEAR UL LABEL(S).

-SUITABLE FOR WET LOCATIONSIN ACCORDANCE WITH NEC 600

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	DATE:	

New Single Sided Masonry Gateway Sign



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2240 Lansing Ave, Jackson, MI 49202 2900 Alpha Access St., Lansing, MI 48910 663 S. Mansfield, Ypsilanti, MI 48198 1965 Pine Creek Rd., Manistee, MI 49660 517 784 3720 | www.johnsonsign.com





INTERNATIONAL SIGN ASSOCIATION



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THIS SIGN IS IN IENDED TO BE MANUFACTIONE
IN ACCORDANCE WITH ARTICLE 600 OF THE
NATIONAL ELECTRICAL CODE AND/OR OTHER
APPLICABLE LOCAL CODES. THIS INCLUDES
PROPER GROUNDING & BONDING OF THE SIGN
SIGN WILL BEAR UL LABEL(S).
-SUITABLE FOR WET LOCATIONSIN ACCORDANCE WITH NEC 600

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25.0				Hetrestes New York	CONTROL OF STREET	CHARLES THE THE PROPERTY OF THE PARTY OF THE	SON DECEMBER	CAR DO A	SALES OF		
	# OF SETS	1 SINGLE SIDED	RETURN DEPTH	44" OVA		RACEWAY COLOR N.A.		DESIG	NER	S WILKIE	
	FACE COLOR	SEE SPECS	TYPE OF INSTALL	POLES / FOOT	INGS	TRANSFORMER N.A.		DATE		04/05/24	
	RETURN COLOR	STONE	TYPE OF FACE	ALUMINUM / S	TONE	BALLAST N.A.		JOB	NO.	231562	,
	RETAINER COLOR	TO MATCH	RACEWAY D. H	l. L. N.A.		COMMENTS:		2 22/2		2231562-12	
	LED COLOR	WHITE / RGB	HOUSINGS N.A.		SALESPER	SON: JIM ANDERSON	ADDR	ESS: 1	201 S	. Huron Street Ypsilanti, MI 481	97

APPROVED BY:

DATE:

(1) SINGLE FACE ILLUMINATED STONE GATEWAY SIGN

(1) SET OF 20" HIGH INTERNALLY ILLUMINATED CHANNEL LETTERS GREEN TRIM CAP, RETURNS. AND TRANSLUCENT VINYL 1ST SURFACE WHITE ACM CONTOUR BACKER ATTACHED TO ALUMINUM RACEWAYS MOUNTED ON ALUMINUM CAP TOP OF STONE WALL

(1) SET OF 12" INTERNALLY ILLUMINATED CHANNEL LETTERS WHITE TRIM CAP, RETURNS, AND ACRYLIC FACES ON RACEWAY PAINTED TO MATCH STONE MOUNTED ON STONE WALL FACE (2) NON-LIT .25" ALUMINUM RAISED LOGOS STUD MOUNTED TO STONE COLUMNS FACES WITH

3M OPAQUE VINYL 1ST SURFACE (GAME ABOVE LETTERS PAINTED WHITE)

(1) 6' X 25' AFFINITY STONE (CAMBRIDGE) WALL AND

(2) STONE COLUMNS BUILD ON A INTERNAL STEEL STRUCTURE WITH (3) ALUMINUM 4" HIGH CAPS/ PAINTED TO MATCH 3M PUTTY 59 TEXTURED

SIGN WILL REQUIRE (3) 20A 120V DEDICATED CIRCUIT (BY OTHERS)

COLOR SPECS

WHITE



EMU GREEN - TBD



AFFINITY STONE CAMBRIDGE



PTM 3M PUTTY TEXTURED











2240 Lansing Ave., Jackson, MI 49202 2900 Alpha Access St, Lansing, MI 4891 663 S Mansfield St., Ypsilanti, MI 48197 1965 Pine Creek Rd, Manistee, MI 49660 517-784-3720/www.johnsonsign.com

JOB NAME:

EAGLE CREST GOLF

CLUB

LOCATION:

1201 S HURON ST.

YPSILANTI MI 48197

ACCOUNT REP: JA

DESIGNER:

REVISION:_

NOTES:

FURNISH & INSTALL

AS FOLLOWS

FILE NAME:

231562-11

SCALE:

3/8"=1"

This design and all material appearing hereon constitute the original unpublished work of Johnson Sign Co. may not be duplicated, used or disclosed without written consent.



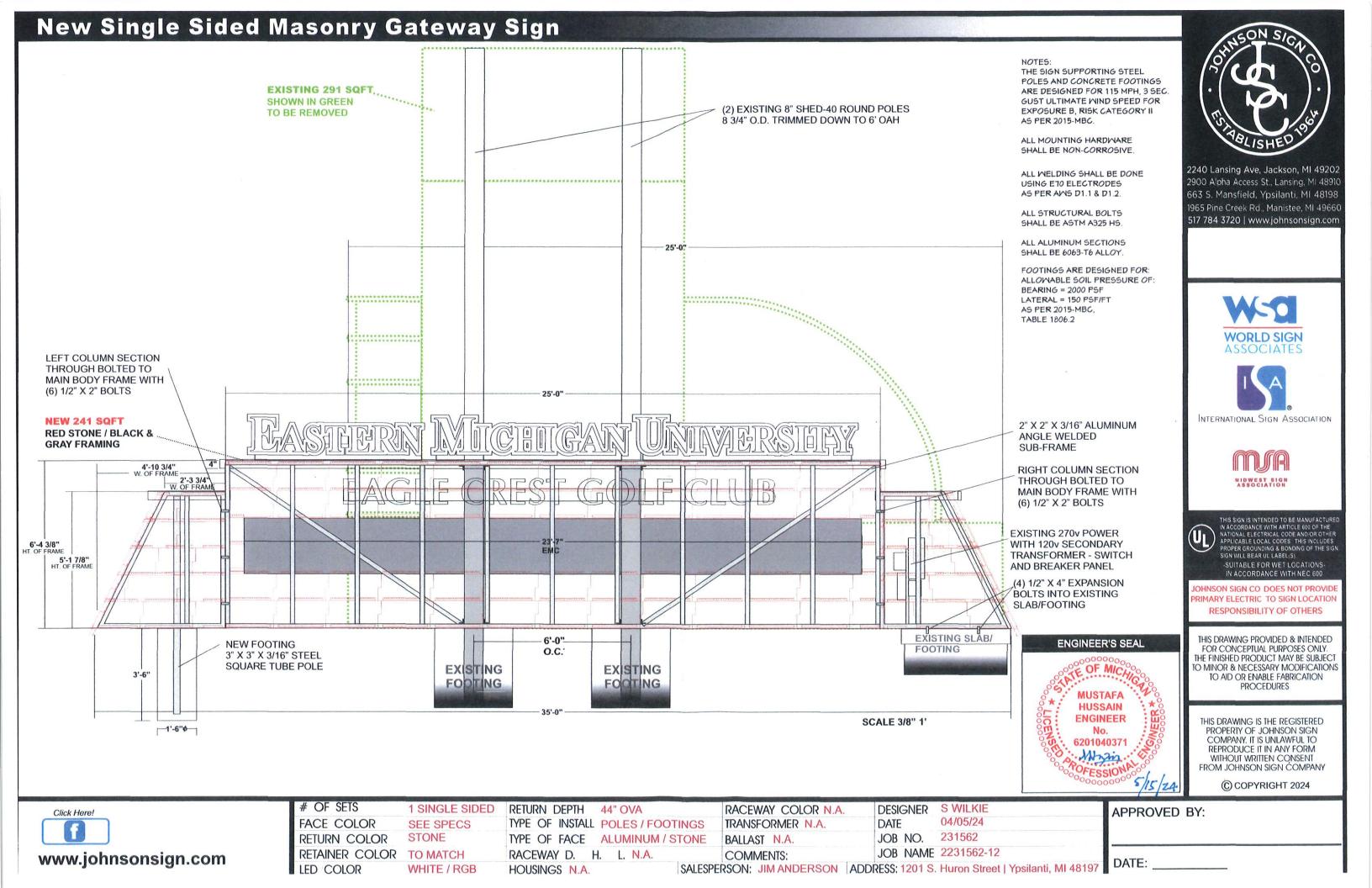
THIS SIGN IS INTENDED TO BE MANUFACTURED IN ACCORDANCE WITH ARTICLE 600 OF THE NATIONAL ELECTRICAL CODE AND/OR OTHER APPLICABLE LOCAL CODES. THIS INCLUDES PROPER GROUNDING & BONDING OF THE SIGN

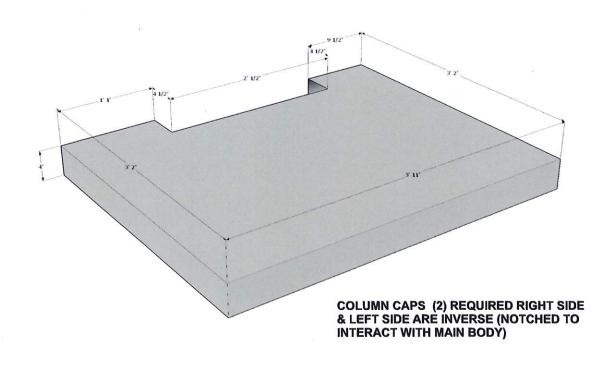
JOHNSON SIGN CO OOES NOT PROVIDE PRIMARY ELECTRIC TO SIGN LOCATION RESPONSIBILITY OF OTHER

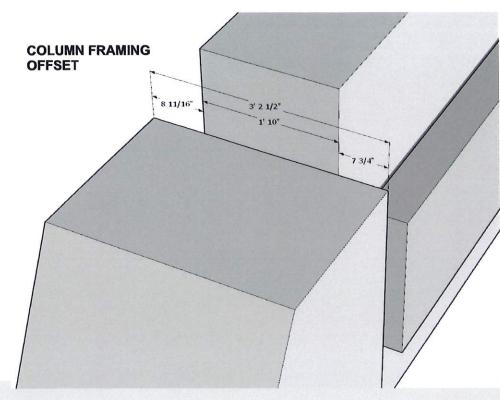
CUSTOMER APPROVAL:

DATE:

INTERNATIONAL SIGN ASSOCIATION

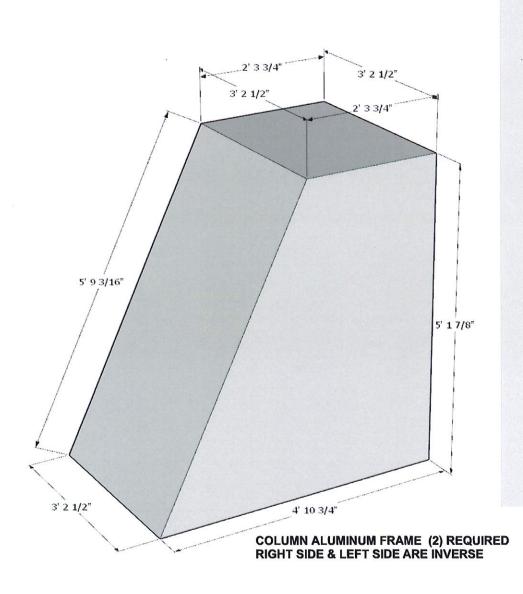


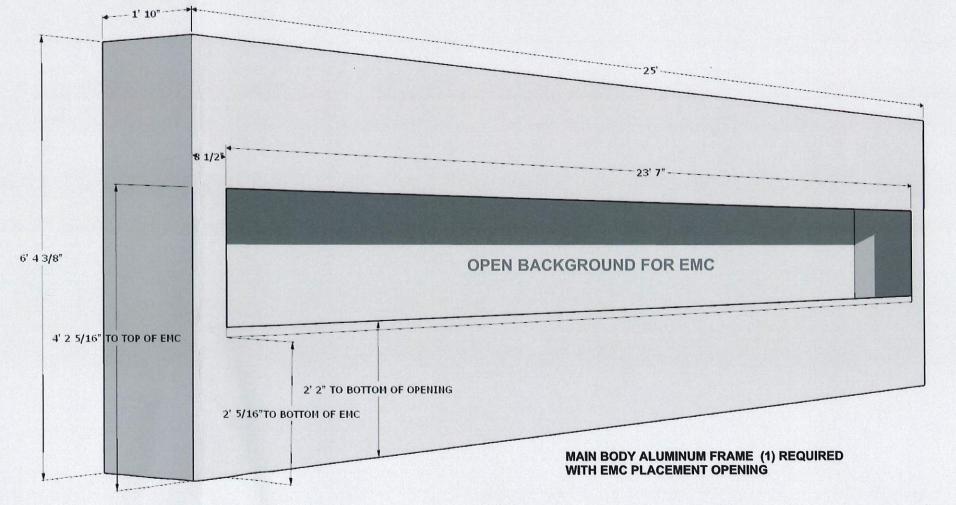






2240 Lansing Ave, Jackson, MI 49202 2900 Alpha Access St., Lansing, MI 48910 663 S. Mansfield, Ypsilanti, MI 48198 517 784 3720 | www.johnsonsign.com



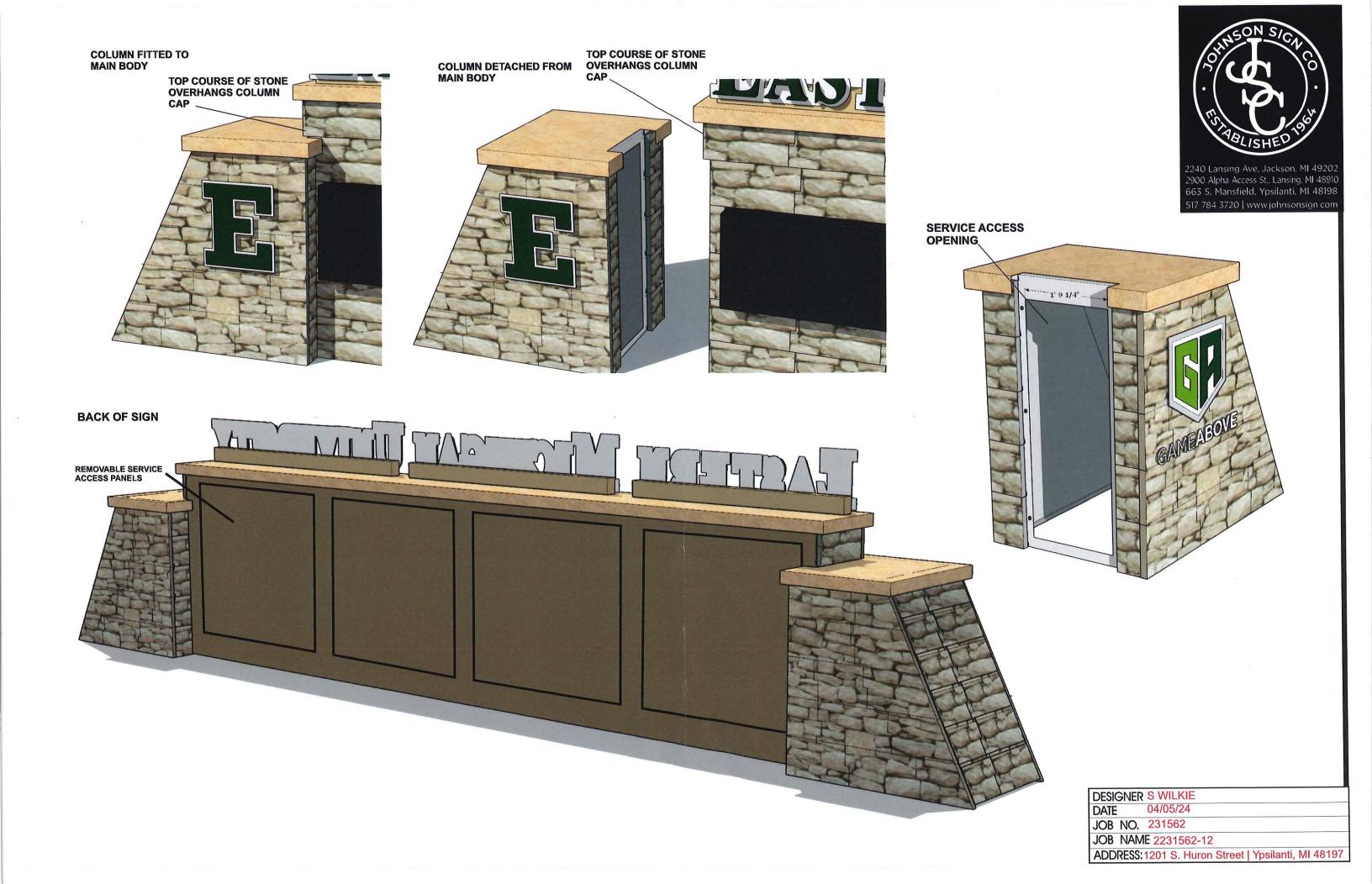


DESIGNER S WILKIE
DATE 04/05/24

JOB NO. 231562

JOB NAME 2231562-12

ADDRESS:1201 S. Huron Street | Ypsilanti, MI 48197





DESIGNER S WILKIE
DATE 04/05/24

JOB NO. 231562

JOB NAME 2231562-12
ADDRESS:1201 S. Huron Street | Ypsilanti, MI 48197



Trustees
John Newman II
Gloria Peterson
Debbie Swanson
Ryan Hunter

Zoning Board of Appeals Staff Report

August 07, 2024

Applicant: Vance Palmer, 6235 Corunna Road, Flint, MI 48532

Location: 2789 Washtenaw Avenue, Ypsilanti, MI 48197, Parcel K-11-06-303-003

Zoning: RC, Regional Corridor with a Site Type B Designation

Action Requested: Request for variance to the dog run requirements of Article 11 –

Sec. 1116.1

Variance Request:

Request for variance to the dog run requirements of Article 11 – Sec. 1116.1 – Veterinary Clinics of the Township Zoning Ordinance to construct a 35' x 65' outdoor dog run enclosed by a 6' tall chain-link fence behind the existing building.

Sec. 1116.1 requires that "veterinary clinics when such use is conducted entirely within an enclosed building. No animal kennels or animal runs shall be allowed outside the principal building. Animal kennels or runs within a principal building shall provide no windows which can be opened to the outside. All buildings are set back at least one hundred (100) feet from abutting residential district on the same side of the street."

Location and Summary of Request:

The subject site is a 0.946-acre parcel, located along Washtenaw Avenue. The property is zoned RC, Regional Corridor with a Site Type B Designation. This property is owned by Redd Guppy, LLC, and home to the Veterinarian Clinic, Dr. Paws who opened their doors to the public July of 2024.

The applicant is seeking relief from Article 11 – Sec. 1116.1 – Veterniary Clinics. Vance Palmer is asking the Zoning Board of Appeals to consider granting Dr. Paws a variance to allow a 35' x 65' outdoor dog behind the building. This dog run is not for boarding purposes, but to allow animals to do their business when they are at the clinic for medical services.

Cross References:

Article 11 – Sec. 1116. – Veterinary Clinics Article 17 – Zoning Board of Appeals



Trustees
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Gloria Peterson
Debbie Swanson
Ryan Hunter

Aerial View - 2789 Washtenaw Avenue



Street View - 2789 Washtenaw Avenue





Trustees
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Ryan Hunter

Analysis:

The Zoning Board of Appeals may grant a dimensional or non-use variance only upon a finding that compliance with the strict letter of the restrictions governing area, setbacks, frontage, height, bulk, density, or other dimensional provisions would create a practical difficulty and unreasonably present the use of the property. A finding of practical difficulty shall require demonstration that all the following conditions are met:

1. That there are exceptional or extraordinary circumstances or conditions applying to the property in question that do not apply generally to other properties or classes of uses in the same zoning district.

It seems that the property in question might have exceptional or extraordinary circumstances that are not generally applicable to other properties or classes of uses in the same zoning district. The nature of the veterinary clinic's operations, which includes the need for a designated area for dogs to relieve themselves, could be considered an exceptional circumstance.

2. That a variance is necessary for the preservation and enjoyment of a substantial property right possessed by other properties in the same zoning district and in the vicinity.

It is the Planning Department's opinion that the variance could be necessary for the preservation and enjoyment of a substantial property right possessed by other properties in the same zoning district and vicinity. The operational needs of the clinic, such as providing a space for dogs to relieve themselves, might justify this variance as a necessary allowance.

3. That the authorizing of such a variance will not be a substantial detriment to adjacent property, will not be harmful to or alter the essential character of the area, and will not materially impair the purposes of this Ordinance or the public interest.

It is the planning department's opinion that authorizing such a variance will not be a substantial detriment to adjacent properties, will not be harmful to or alter the essential character of the area, and will not materially impair the purposes of this Ordinance or the public interest. The proposed dog run is to be located behind the building, used only during business hours, and accessed solely by staff. The site is located along a busy commercial corridor (Washtenaw Avenue) and is surrounded by commercial businesses. The proposed dog run is located approximately 400' away from a residential property. There is a natural buffer located between the Dr. Paws site and the Westlawn neighborhood. Both traffic noise from Washtenaw Avenue and the natural buffer will help relieve some noise produced by this dog run. This dog run is not for day care operations, it is simply for the operation needs of the veterinarian clinic.



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4. The property and resulting need for the variance has not been self-created by any action of the applicant or the applicant's predecessors.

The planning department suggests that the need for the variance does not appear to be self-created by any action of the applicant or the applicant's predecessors. The operational requirements of a veterinary clinic necessitate an area for dogs to relieve themselves, which seems to be an inherent need rather than a self-created situation.

5. The proposed variance will be the minimum necessary and no variance shall be granted where a different solution not requiring a variance would be possible.

It is the planning department's opinion that the proposed variance appears to be the minimum necessary to meet the operational needs of the veterinary clinic. The dog run's size and location behind the building seem to be a practical solution that minimizes impact while addressing the clinic's requirements.

Suggested motions: The following suggested motions and conditions are provided to assist the Zoning Board of Appeals in making a complete and appropriate motion for this application. The ZBA may utilize, add, or reject any portion of the suggested motion or any conditions suggested herein, as deemed appropriate.

Postpone:

I move to postpone the variance request at 2789 Washtenaw Avenue, Ypsilanti, MI 48197, Parcel K-11-06-303-003 to the dog run requirements of Section 1116.1 of the Township Zoning Ordinance to allow a 35'W x 65'L x 6'H chain link dog run to be constructed within the building envelope as shown on the plot plan included in the Zoning Board of Appeals application dated June 28, 2024, to give the applicant an opportunity to address the comments made at this evening's meeting, and return with a revise proposal based on these comments.

Approve:

I move to approve the variance request at 2789 Washtenaw Avenue, Ypsilanti, MI 48197, Parcel K-11-06-303-003 to the dog run requirements of Section 1116.1 of the Township Zoning Ordinance to allow a 35'W x 65'L x 6'H chain link dog run to be constructed within the building envelope as shown on the plot plan included in the Zoning Board of Appeals application dated June 28, 2024. Granting of the requested variance meets the criteria for a non-use variance in Section 1704(D) of the Zoning Ordinance. Specifically, granting the requested variances is based on the following facts:

1. The nature of the veterinary clinic's operations, which includes the need for a designated area for dogs to relieve themselves, is considered an exceptional



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Gloria Peterson
Debbie Swanson
Ryan Hunter

circumstance;

- 2. The variance will allow the veterinary clinic to perform their jobs and care for animals:
- 3. The proposed dog run is to be located behind the building, used only during business hours, and accessed solely by staff. The dog run will not be seen by the public;
- 4. The operational requirements of a veterinary clinic necessitate an area for dogs to relieve themselves, which is not a self-created situation;
- 5. The variance appears to be the minimum necessary to meet the operational needs of the veterinary clinic.

This motion is further made with the following conditions:

1. The applicant shall obtain the required Zoning Permit for the construction of the dog run.

Denial:

I move to deny the variance request at 2789 Washtenaw Avenue, Ypsilanti, MI 48197, Parcel K-11-06-303-003 to the dog run requirements of Section 1116.1 of the Township Zoning Ordinance to allow a 35'W x 65'L x 6'H chain link dog run to be constructed within the building envelope as shown on the plot plan included in the Zoning Board of Appeals application dated June 28, 2024., based on the following findings of fact that the requests do not meet the criteria in Section 1704(D) of the Zoning Ordinance. Specifically, the request does not comply with the following criteria: (*ZBA states reasons for denial*)

1.	 	 	
2.			

Respectfully Submitted,

Fletcher Reyher

Fletcher Reyher, AICP Planning and Development Coordinator Charter Township of Ypsilanti Planning Department

Charter Township of Ypsilanti Office of Community Standards 7200 S. Huron Drive, Ypsilanti, MI 48197 Phone: (734) 544-4000 ext. #1 Website: https://ypsitownship.org

ZONING BOARD OF APPEALS APPLICATION

I. APPLICATION TYPE					
✓ Variance					
Exceptions and Special Approv	als (Includes: Temporary L	Ises and Struc	tures)		
Administrative Review Appeal					
II. PROJECT LOCATION					
Address: 2789 Washtenaw Ave	Parcel ID	t: K-11- 06-30	03-003	Zoning RC	
Lot Number: Sub	odivision:		- : =:1.		
III. APPLICANT INFORMATION					
Applicant: Vance Palmer			Phone: 810-280-2	720	
Address: 6235 Corunna Rd		City: Flint	Sta	te: MI Zip: 485	32
Fax: Email: var	nce.palmer@outlook.com				
Property Owner: Red Guppy LLC			Phone: 734-812	2-4730	
Address: 2789 Washtenaw Ave		City: Ypsilanti	Sta	te: MI Zip: 481	97
Fax: Email: cea	astmandvm@gmail.com				
IV. COST AND FEES	Donal de	-11			
Total: \$_500.60	Breakdown		esidential:	\$ 125.00	
		IN	on-residential:	\$ 500.00	
V. APPLICANT SIGNATURE					
V. AFFEICAIVI SIGNATURE					
The undersigned Vance Palmer	represents Rec	Guppy LLC			
Applican		Property Ov	vner *		
1 That Red Guppy LLC	is/are the owner(s) of I	ot/s)	located in the		
1. That Red Guppy LLC Property Owner	is/are the owner(s) or i	Lot	located in the _	Subdivision	
Subdivision, Ypsilanti Township, N	Michigan, otherwise know	1 as 2789 Wash	tenaw Ave	and the	property is
zoned RC			Address		
Zoning District					
2. That the petitioner hereby req	juest variance un	der Section 1	116 Article XI	of the Ypsilant	i Township
Zoning Ordinance.	/Regular Meeting		Section Article		
	11D				
3. The petitioner further state tha	t have/has read a	nd understand	ls the provisions of	said zoning ord	inance as it
applies to this petition.	initial				
4. That the following is submitted	in support of the petition (attach all pert	inent data to suppo	ort the request).	
1 0 //					
I'ma In	Vance Palmer		6/28/2024		
Applicant Signature	Print Name		Date		
Approprie Signature	rine ivaline		Date	1-1-1	

Charter Township of Ypsilanti Office of Community Standards 7200 S. Huron Drive, Ypsilanti, MI 48197 Phone: (734) 544-4000 ext. #1 Website: https://ypsitownship.org

OFFICE USE ONLY

All Zoning Board of Appeals Applications	
 □ The application is filled out in its entirety. □ If the applicant is not the property owner, written and signed permission from the property owner is required. □ Fees □ Letter of interest of the applicant in the property 	Plot plan or lot survey to scale showing the following: All property lines and dimensions All existing and proposed structures and dimensions Lot area calculations necessary to show compliance with regulations Easements and dimensions, if applicable Location of drives, sidewalks, and other paved areas on the property and on the adjacent streets. Location and dimensions of the nearest structures on adjacent properties.





MOTT FOUNDATION BUILDING 503 SOUTH SAGINAW STREET SUITE 100 FLINT, MICHIGAN 48502-1851 810.239.4691 gazall-lewis.com Info@gazall-lewis.com JOHN R. GAZALL, AIA, NCARB PRESIDENT

CHRISTOPHER A. NEDANIS, ASSOC. AIA VICE PRESIDENT

> ROBERT S. GAZALL, AIA, NCARB FOUNDER 1968-1999

MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS

June 27, 2024

Ypsilanti Township 7200 S. Huron River Drive Ypsilanti, MI 48197

Attn: Mr. Fletcher Reyher

Staff Planner

Re: Dr. Paws Veterinary Hospital – Variance Request

2789 Washtenaw Ave Ypsilanti, MI 48197

Dear Mr. Reyher,

Dr. Paws Veterinary Hospital is seeking a variance from Section 1116 to allow a fenced-in area for dogs. The new Owners at 2789 Washtenaw Avenue presented before Planning Commission on March 26 and received Final Site Plan Review approval on April 11, 2024. The building is currently being renovated for a new Veterinary Clinic.

We are pleased to provide the following information in regards to a variance request for Section 1116, Article XI of the Township Ordinance.

- Application Form
- Letter for a Variance Request
- Site Plan
- Site Survey
- Fee (under separate submittal)

Section 1116 states that Veterinary clinics shall be conducted entirely within an enclosed building. No animal kennels or animal runs shall be allowed outside the principal building.

This request is not for a kennel which is typically an enclosed shelter with a roof. Dogs will not be spending the night at this facility. The vet clinic will be open Monday – Friday at normal business hours and a half day on Saturdays.

This variance request is for an enclosed area which will allow staff to walk dogs in a safe and isolated environment. They will be on a leash and supervised at all times. The fenced-in area will help protect the dogs from running into adjacent yards, being exposed to traffic and parking vehicles and/or from running into a busy Washtenaw Avenue should an animal break loose from their collar and leash. It also helps to restrict the area for the dogs to do their business making clean up easier. Access will be close to the building to allow staff to open the back door directly into the fenced area to minimize escape risks.



MOTT FOUNDATION BUILDING 503 SOUTH SAGINAW STREET SUITE 100 FLINT, MICHIGAN 48502-1851 810.239.4691 gazall-lewis.com Info@gazall-lewis.com John R. Gazall, Aia, Ncarb President Christopher A. Nedanis, Assoc. Aia Vice President

> ROBERT S. GAZALL, AIA, NCARB FOUNDER 1968-1999

MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS

Being on a busy road, the fenced-in area provides an extra level of protection in case a dog gets loose and therefore can be contained. Their time outside is no different than someone walking their dog.

Not Self-Created

The variance request is not self-created as it is a condition of the Ordinance. It is the Owners' right to seek a variance based on the specific use of the property.

Veterinary clinics and hospitals are allowed within this zoning classification, however the Ordinance does not allow a dog run in any zoning district. Therefore, a variance is the only means to provide a secured outdoor area.

Substantial Property Right

The variance will increase the usability of the property.

Granting this variance will not be a substantial detriment to the public good or impair the intent of the Ordinance. It will not be harmful to or alter the essential character of the area. It will not materially impair the purposes of this Ordinance or public interest nor will it negatively impact traffic or public safety.

The proposed fence will be chain-linked for durability and surrounded by existing as well as new landscaping and coniferous trees to reduce visibility and noise.

Minimum Variance Necessary

The proposed fenced area will be 30' x 40' which is reduced from the area shown on the original site plan drawing. The area will allow the dogs ample space to move around safely.

The only time there will be more than one dog in the run at the same time will be if they are from the same family.

Compliance with Other Laws

The proposed fence will be installed in compliance with setback dimensions. The property does not abut any residential homes.

We appreciate your consideration for this request and look forward to answering any questions you may have.

Thank you.

Debbie Honea

Debbie Honea Project Manager

CC: Case Construction

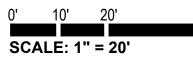
Drs. Eastman and Acuna

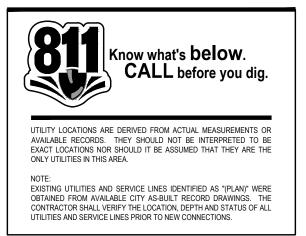


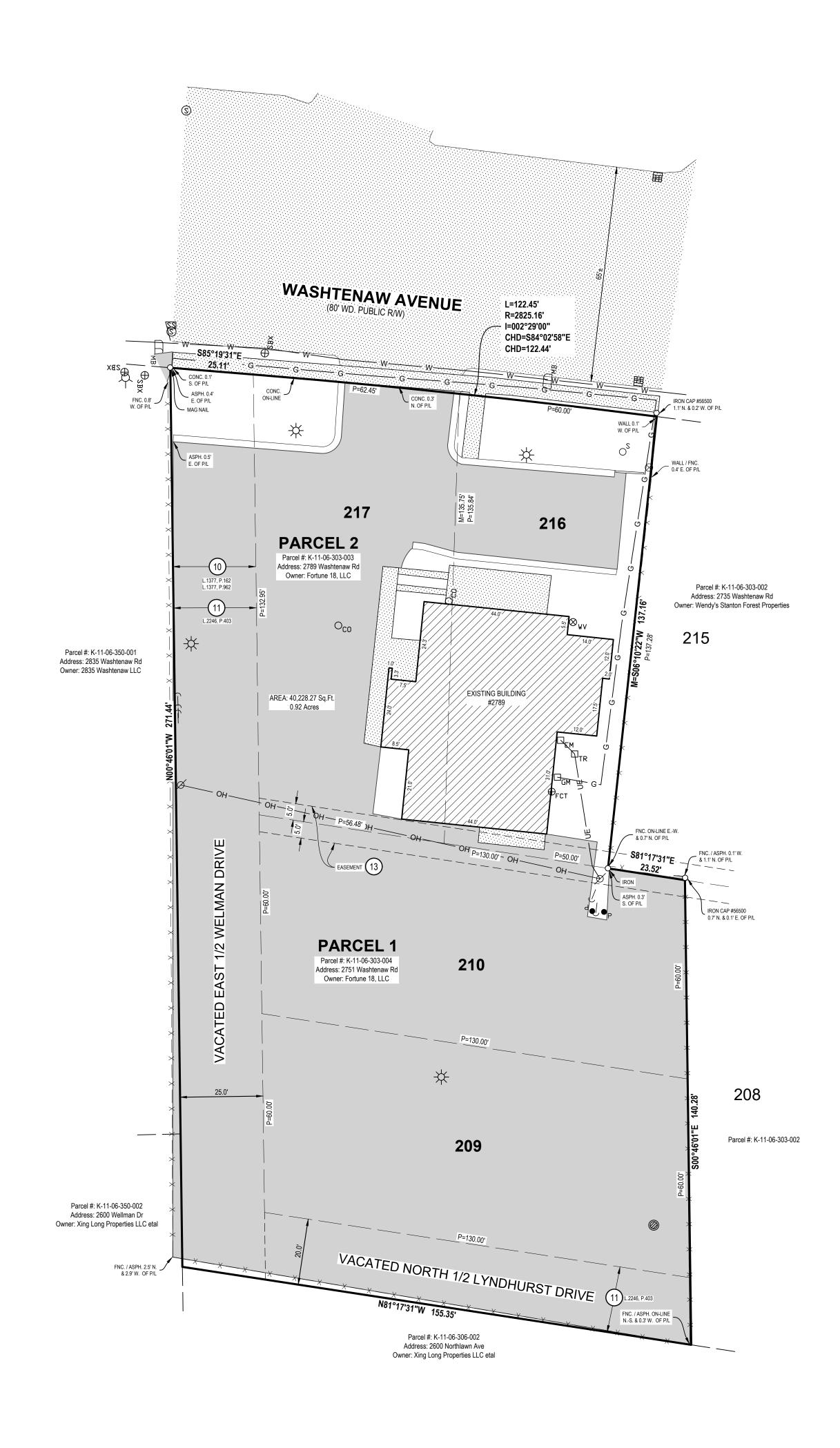
LEGEND	
0	Iron - Found as noted
	Catch Basin - Round
	Catch Basin - Square
\circ_{co}	Cleanout
\square_{EM}	Electric Meter
\oplus_{FCT}	Faucet
\square_{GM}	Gas Meter
(—	Guy Anchor
4	Hydrant
*	Light Pole
\square MB	Mailbox
E	Miss Dig Flag - Electric
<u>(G</u>	Miss Dig Flag - Gas
23	Miss Dig Flag - Sanitary
W	Miss Dig Flag - Water
$ullet_{P}$	Post
Ø	Utility Pole
\oplus^{ZBX}	Stop Box
OS	Sign
(2)	Sanitary Manhole
\square_{TR}	Transformer
\otimes_{WV}	Water Valve
—— UE ——	Electric Underground Line
— x — x —	Fence
—— G——	Gas Line
W	Watermain
	Asphalt



Existing Building









www.nederveld.com 800.222.1868 **ANN ARBOR** 3037 Miller Rd. Ann Arbor, MI 48103 Phone: 734.929.6963 CHICAGO COLUMBUS

GRAND RAPIDS

HOLLAND

INDIANAPOLIS

PREPARED FOR:

Redd Guppy, LLC

Jonie Acuna

1050 Abbey Court Northville, MI 48167

Date: 09.14.23

CREATED:

Drawn: R.Paramo

REVISIONS:

Ne

and

TITLE INFORMATION

TITLE DESCRIPTION

Number: 81-23888228-SCM, dated August 24, 2023.

Lots 209 and 210, Fairview Heights Number One, according to the plat thereof as recorded in Liber 7, Page 23 of Plats, Washtenaw County Records; ALSO the East 1/2 of vacated Welman Drive along said Lots 209 and 210; ALSO the North 1/2 of vacated Lyndhurst Drive along Lot 209.

The Title Description and Schedule B items hereon are from ATA National Title Group, LLC (underwritten by First American Title Insurance Company), File

Lots 216 and 217, Fairview Heights Number One, according to the plat thereof as recorded in Liber 7, Page 23 of Plats, Washtenaw County Records; ALSO the East 1/2 of vacated Welman Drive along said Lot 217.

SCHEDULE B - SECTION II NOTES

- Terms, conditions and provisions contained in, and easements created and/or reserved by, Resolution adopted by the Board of County Road Commissioners of the County of Washtenaw recorded in Liber 1377, Page 162, and re-recorded in Liber 1377, Page 962, Washtenaw County Records. The easement described in this document is shown on this survey.
- Terms, conditions and provisions contained in, and easements created and/or reserved by, Resolution adopted by the Board of County Road Commissioners of the County of Washtenaw recorded in Liber 2246, Page 403, Washtenaw County Records. The easement described in this document is shown on this survey.
- Terms, conditions and provisions contained in Special Conditional Use Agreement recorded in Liber 4915, Page 898, Washtenaw County Records. Not a survey matter.
- Easements over subject property as shown on the plat of Fairview Heights Number One, as recorded in Liber 7, Page 23 of Plats, Washtenaw County Records. The easement described in this document is shown on this survey.
- Lack of a right of direct access to and from Parcel 1. NOTE: This is included for informational purposes.

The Land is described as follows: Situated in the Township of Ypsilanti, County of Washtenaw, State of Michigan

SURVEYOR'S NOTES

- 1) ALTA TABLE "A" ITEM NO. 1 Existing and placed monuments at all major corners of the boundary of the property have been shown.
- 2) ALTA TABLE "A" ITEM NO. 2 Address of the surveyed property is 2789 Washtenaw Avenue, Ypsilanti, MI 48197.
- 3) ALTA TABLE "A" ITEM NO. 3 Flood Zone Classification: An examination of the National Flood Insurance Program's Flood Insurance Rate Map for Community Number 260542, Map Number 26161C0407E, with an Effective Date of April 3, 2012, shows this parcel to be located in Zone X (subject to map scale uncertainty). No field surveying was performed to determine this zone.
- 4) ALTA TABLE "A" ITEM NO. 4 Gross Land Area: 40,228.27 Square Feet / 0.92 Acres
- 5) ALTA TABLE "A" ITEM NO. 7(a) Exterior dimensions of all permanent buildings at ground level have been shown.
- 6) ALTA TABLE "A" ITEM NO. 8 Substantial features observed in the process of conducting fieldwork have been shown.
- 7) ALTA TABLE "A" ITEM NO. 13 Names of adjoining owners have been shown according to current tax records.
- 8) ALTA TABLE "A" ITEM NO. 16 Evidence of recent earth moving work, building construction or building additions observed in the process of conducting the fieldwork. None observed.
- 9) Note to the client, insurer, and lender Lacking excavation, the exact location of underground features cannot be accurately, completely, and reliably depicted. In addition, in some jurisdictions, 811 or other similar utility locate requests from surveyors may be ignored or result in an incomplete response. Where additional or more detailed information is required, the client is advised that excavation may be necessary.
- 10) Basis of Bearing: NAD83 Michigan State Planes, South Zone, International Foot
- 11) NOTE TO CONTRACTORS: 3 (THREE) WORKING DAYS BEFORE YOU DIG, CALL MISS DIG AT TOLL FREE 1-800-482-7171 FOR UTILITY LOCATIONS ON THE GROUND.
- 12) The land shown in this survey is the same as that described in ATA National Title Group, LLC, File Number: 81-23888228-SCM, dated August 24, 2023. 13) Access to property is from Washtenaw Avenue.

SURVEYOR'S CERTIFICATION

To ATA National Title Group, LLC; First American Title Insurance Company:

This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2021 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes Items 1, 2, 3, 4, 7(a), 8, 13, & 16 of Table A thereof. The fieldwork was completed on September 14, 2023.

September 14, 2023 Date of Plat or Map: _



Brandon G. Parrent Professional Surveyor No. 4001063096 Nederveld, Inc. bparrent@nederveld.com

STAMP:

2

PROJECT NO: 23500310

SHEET NO:

PROJECT DESCRIPTION:

THE EXISTING BUILDING AND SITE WILL BE IMPROVED FOR USE AS A NEW VETERINARY HOSPITAL. THE PROJECT INCLUDES NEW EXTERIOR PAINT TO AN EXISTING VACANT BUILDING AND AN OVERALL RE-DESIGN OF THE SITE.

PREVIOUS USES INCLUDE: A RESTAURANT AND USED CAR LOT. THE PROPOSED USE COMPLIES WITH THE CURRENT MIXED-USE ZONING.

THE NEW OWNERS WILL MAKE MANY SITE IMPROVEMENTS TO BE AS COMPLIANT WITH THE CURRENT ZONING ORDINANCE AS POSSIBLE. IMPROVEMENTS INCLUDE: REMOVING 46% OF THE EXISTING IMPERVIOUS SURFACE, PROVIDE NEW LANDSCAPING, NEW SIGNAGE, RE-STRIPE THE PARKING LOT, NEW DUMPSTER WITH ENCLOSURE, NEW SIDEWALKS AND BARRIER FREE RAMPS. THE EXISTING STORMWATER MANAGEMENT SHALL REMAIN AS A SHEET-DRAIN METHOD FOLLOWING NATURAL SLOPE TO THE EXISTING CATCH BASIN LOCATED IN THE SOUTHEAST CORNER OF THE PROPERTY. DUE TO THE LARGE PERCENTAGE OF REMOVED IMPERVIOUS SURFACE, DRAINAGE WILL IMPROVE PER THE INCREASED LAWN AREA THROUGHOUT THE SITE.

BUILDING CODE

2021 MICHIGAN REHABILITATION CODE 2015 MICHIGAN MECHANICAL CODE

2018 MICHIGAN PLUMBING CODE 2017 NATIONAL ELECTRICAL CODE WITH PART 8 STATE AMENDMENTS

USE GROUP CLASSIFICATION

"B" - BUSINESS

CONSTRUCTION TYPE

"5B" UNPROTECTED

EXISTING BUILDING BUILT IN 1973 3182 SQ. FT. TOTAL AREA (INTERIOR WALLS)

OCCUPANT LOAD

3182 S.F. / 100 = 32 MAXIMUM STAFF: 10

FIRE SUPPRESSION

NOT FIRE SUPPRESSED

CODAL NOTES

ALL EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE FROM WHICH EGRESS IS TO BE MADE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.

ALL NEW DOORS AND GLASS WITHIN 24" OF DOOR EDGE TO BE SAFETY

ALL FLOOR, CEILING AND WALL FINISHES SHALL COMPLY WITH SECTION 8 OF THE MICHIGAN BUILDING CODE.

GLASS/TEMPERED GLASS. PROVIDE EXIT SIGNS AS REQUIRED.

PROVIDE MEANS OF EGRESS ILLUMINATION (EMERGENCY LIGHTING) AT ALL AREAS REQUIRED. ARTIFICIAL LIGHTING INTENSITY OF ILLUMINATION SHALL NOT BE LESS THAN I FOOT CANDLE.

PROVIDE 18" x 60" CLEAR AREA ON PULL SIDE OF ALL DOORS AND 12" x 48" CLEAR AREA ON PUSH SIDE OF ALL DOORS.

LANDSCAPE SCHEDULE

SYMBOL		SPECIFICATION	<u>aty</u>
	PROPOSED CANOPY TREE	HACKBERRY	9
ZV.	PROPOSED DECIDUOUS SHRUB	DWARF LILAC	22
	PROPOSED EVERGREEN SHRUB	LOW SPREADING JUNIPER	18
	PROPOSED ORNAMENTAL TREE	CLEVELAND PEAR	8
\$	PROPOSED EVERGREEN	BLACK HILLS SPRUCE	12

PROPOSED TREES SHALL HAVE A MINIMUM OF 2" CALIPER OR 6' HIGH			
0	EXISTING TO REMAIN	VARIOUS SHRUBS TRIM AND PRUNE AS REQUIRED	
\odot	EXISTING TO REMAIN	VARIOUS DECIDUOUS TREES TRIM AND PRUNE AS REQUIRED	

SHEET INDEX CI.Ø SITE PLAN SITE SURVEY BY NEDERVELD

SITE DATA

ZONING: RC

SETBACKS: FRONT - 40' REAR - 30' SIDE - 10'

LOT SIZE: Ø.92 ACRES / 40,228.27 SQUARE FEET

PARCEL NUMBERS: SEE SHEET AL FOR SITE SURVEY

PROPOSED USE: VETERINARY CLINIC NUMBER OF EMPLOYEES: 10

OCCUPANT LOAD: 32 PERSONS

PARKING SPACES REQUIRED: 3182 / 250 S.F. = 13 BF SPACES REQUIRED: 1

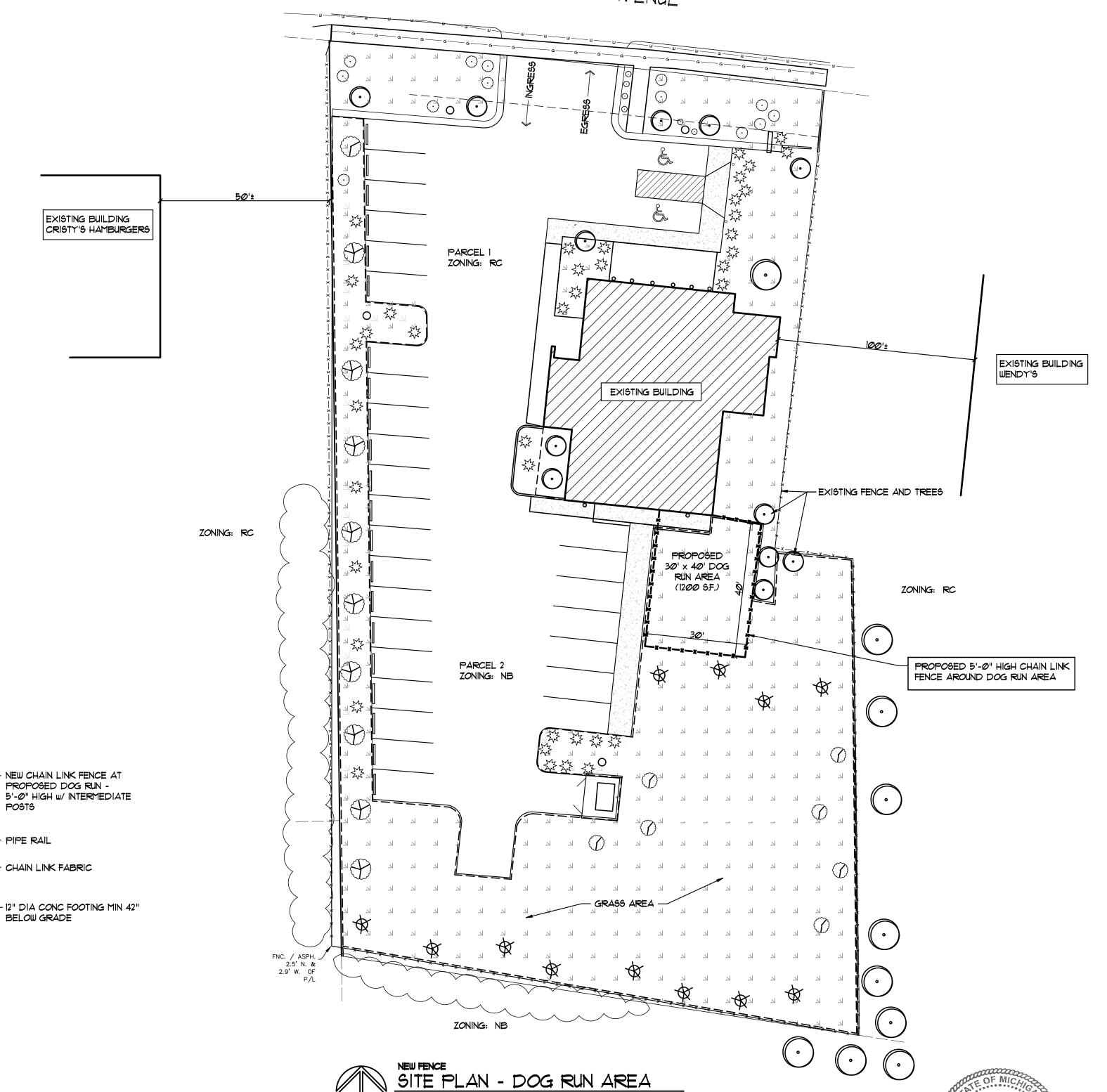
PARKING SPACES PROVIDED: 28 w/ 2 BF SPACES. TOTAL: 30

LEGAL DESCRIPTION:

(SEE ALSO SHEET AL) YP*61-34-35: LOTS 21, 217 FAIRVIEW HEIGHTS NUMBER ONE, ALSO THE E 1/2 OF VACATED WELMAN DRIVE

FENCE ELEVATION AT DOG RUN

WASHTENAW AVENUE



SCALE: 1" = 20'

JUNE 27, 2024 VARIANCE REQUEST SUBMITTAL GLA COMMISSION #2023-50



ARCHITECT

06/27/2024

REVISIONS

<u>8</u>

ARCHITEC

ASSOCIA

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VARIANCE REQUEST FOR NEW FENCE
AWS VETERINARY HOSPITAL

2023-50

Δ

DR



Trustees
John Newman II
Gloria Peterson
Debbie Swanson
Ryan Hunter

Zoning Board of Appeals Staff Report

August 07, 2024

Applicant: Skilken Gold

Project Name: Sheetz Fueling Station / Convenience Store

Plan Date: June 12, 2024

Location: 2103 E. Michigan Avenue, 2509 E. Michigan Avenue, and 755 S. Hewitt Road, Ypsilanti, MI 48197, Parcel K-11-39-350-023, K-11-39-350-022, and K-11-18-

100-019

Zoning: RC, Regional Corridor with a Site Type C Designation

Variance Request:

- Variance for Building setback from S. Hewitt Road.
- Variance for parking in front yard along S. Hewitt Road.
- Variance for deficient glazing on facades facing W. Michigan Avenue & S. Hewitt Road.

Location and Summary of Request:

The applicant is proposing to build a 6,132 sq. ft. convenience store/gas station and restaurant building, and eight (8) gas pumps (for a total of 16 fueling positions) at the southeast corner of W. Michigan Avenue and S. Hewitt Road. Other site features include an outdoor eating patio, parking, future EV charging stations, two air machines, outdoor sales of propane, ice, and windscreen fluid (shown on building elevations), and landscaping. This business will operate 24 hours per day, seven days a week.

This site is made up of three separate parcels. The applicant is proposing to split off the southern portion of the property to create a new parcel, which is not part of this development project.

Three variances are required to construct the project as designed:

- 1. Building setback from S. Hewitt Rd. further than permitted by Form Based ordinance standards. (Article 5 Sec. 503.4, Building Form Type). The building is set back 62.5 feet when a maximum of 10 feet is required.
- 2. Parking is in the front yard along S. Hewitt, which is not permitted in the Form Based ordinance standards. (Article 5, Sec. 503.4, Building Form Type)
- 3. Amount of glazing is deficient in W. Michigan Ave. and S. Hewitt St. façades. (Article 5 Sec. 503.7, Transparency Requirements).



Trustees John Newman II Gloria Peterson Debbie Swanson Ryan Hunter

Aerial View of Subject Properties:





Trustees
John Newman II
Gloria Peterson
Debbie Swanson
Ryan Hunter

Suggested motions (Building Setback from S. Hewitt Road):

The following suggested motions and conditions are provided to assist the Zoning Board of Appeals in making a complete and appropriate motion for this application. The ZBA may utilize, add, or reject any portion of the suggested motion or any conditions suggested herein, as deemed appropriate.

Postpone:

I move to postpone the variance request at 2103 E. Michigan Avenue, 2509 E. Michigan Avenue, and 755 S. Hewitt Road, Ypsilanti, MI 48197, Parcel K-11-39-350-023, K-11-39-350-022, and K-11-18-100-019 to the building setback requirements from S. Hewitt Road outlined in Article 5 – Sec. 503.4 as indicated within the building envelope as shown on the site plan included in the Zoning Board of Appeals Packet dated June 12, 2024, to give the applicant an opportunity to address the comments made at this evening's meeting, and return with a revise proposal based on these comments.

Approve:

I move to approve the variance request at 2103 E. Michigan Avenue, 2509 E. Michigan Avenue, and 755 S. Hewitt Road, Ypsilanti, MI 48197, Parcel K-11-39-350-023, K-11-39-350-022, and K-11-18-100-019 to the building setback requirements to S. Hewitt Road outlined in Article 5 – Sec. 503.4 and indicated within the building envelope as shown on the site plan included in the Zoning Board of Appeals Packet dated June 12, 2024. Granting of the requested variance meets the criteria for a non-use variance in Section 1704(D) of the Zoning Ordinance. Specifically, granting the requested variances is based on the following facts:

- 1. The site is occupied by a road easement in the northwest corner, as shown on Sheet C-6. The ordinance requires that the building be placed at the 10-foot buildto-line, which is the line 10-feet from the front property line along a street. Because of this road easement, the building cannot be located 10 feet from the S. Hewitt Rd. property line. Therefore, special circumstances exist on this property that make compliance with the ordinance for building location impossible.
- To locate the building on the site, the applicant cannot put it in the easement. Locating the building out of the easement means that the building cannot meet the build-to-line requirement. Granting the building location variance will allow development of this site.
- 3. The building is proposed as close to the corner as possible, given the existing easement along S. Hewitt.
- 4. The applicant did not create the existing easement along S. Hewitt.
- 5. The location of the building is 10 feet away from the edge of the easement, making the requested variance the minimum necessary.

Denial:



Trustees
John Newman II
Gloria Peterson
Debbie Swanson
Ryan Hunter

I move to deny the variance request at 2103 E. Michigan Avenue, 2509 E. Michigan Avenue, and 755 S. Hewitt Road, Ypsilanti, MI 48197, Parcel K-11-39-350-023, K-11-39-350-022, and K-11-18-100-019 to the building setback requirements from S. Hewitt Road outlined in Article 5 – Sec. 503.4 and indicated within the building envelope as shown on the site plan included in the Zoning Board of Appeals Packet dated June 12, 2024, based on the following findings of fact that the requests do not meet the criteria in Section 1704(D) of the Zoning Ordinance. Specifically, the request does not comply with the following criteria: (*ZBA states reasons for denial*)

1.		 	
2			

Suggested motions (Parking in front yard along S. Hewitt):

The following suggested motions and conditions are provided to assist the Zoning Board of Appeals in making a complete and appropriate motion for this application. The ZBA may utilize, add, or reject any portion of the suggested motion or any conditions suggested herein, as deemed appropriate.

Postpone:

I move to postpone the variance request at 2103 E. Michigan Avenue, 2509 E. Michigan Avenue, and 755 S. Hewitt Road, Ypsilanti, MI 48197, Parcel K-11-39-350-023, K-11-39-350-022, and K-11-18-100-019 to the parking location requirements outlined in Article 5 – Sec. 503.4 and indicated within the building envelope as shown on the site plan included in the Zoning Board of Appeals Packet dated June 12, 2024, to give the applicant an opportunity to address the comments made at this evening's meeting, and return with a revise proposal based on these comments.

Approve:

I move to approve the variance request at 2103 E. Michigan Avenue, 2509 E. Michigan Avenue, and 755 S. Hewitt Road, Ypsilanti, MI 48197, Parcel K-11-39-350-023, K-11-39-350-022, and K-11-18-100-019 to the parking location requirements outlined in Article 5 – Sec. 503.4 and indicated within the building envelope as shown on the site plan included in the Zoning Board of Appeals Packet dated June 12, 2024. Granting of the requested variance meets the criteria for a non-use variance in Section 1704(D) of the Zoning Ordinance. Specifically, granting the requested variances is based on the following facts:

1. The location of the building is complicated by the existing easement. This sets the building further east on the property, lessening the space to locate compliant



Trustees
John Newman II
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parking spaces outside of the front yard along S. Hewitt.

- 2. The required location of the building necessitates the parking be shifted into the front yard along S. Hewitt St., given the fuel pumps and canopy occupying the rear yard behind the building. The applicant is not proposing any more parking spaces than required.
- 3. Authorizing the variance to locate parking on the west side of the site vs. the east side of the site will reduce activity near the residences to the east, helping to maintain the residential character to the east.
- 4. Because of the easement, the building is set further back from S. Hewitt than the ordinance calls for, limiting the possible locations for required parking that keeps the business activity away from the residences to the east.
- 5. The location of the six parking spaces is 30-feet from the S. Hewitt St. property line, and approximately 32-53 feet ahead of the S. Hewitt St. building façade. The location of these six spaces also accommodates the 14 parking spaces along the building. We consider this variance to be the minimum necessary because the project is only proposing the required number of parking spaces, and locating the six spaces on the west side of the site keeps the activity in the parking lot as far from the residential neighbors as possible.

Denial:

I move to deny the variance request at 2103 E. Michigan Avenue, 2509 E. Michigan Avenue, and 755 S. Hewitt Road, Ypsilanti, MI 48197, Parcel K-11-39-350-023, K-11-39-350-022, and K-11-18-100-019 to the parking location requirements outlined in Article 5 – Sec. 503.4 and indicated within the building envelope as shown on the site plan included in the Zoning Board of Appeals Packet dated June 12, 2024, based on the following findings of fact that the requests do not meet the criteria in Section 1704(D) of the Zoning Ordinance. Specifically, the request does not comply with the following criteria: (*ZBA states reasons for denial*)

1.		
2.	 	

Suggested motions (Transparency Requirements):

The following suggested motions and conditions are provided to assist the Zoning Board of Appeals in making a complete and appropriate motion for this application. The ZBA may utilize, add, or reject any portion of the suggested motion or any conditions suggested herein, as deemed appropriate.



Trustees John Newman II Gloria Peterson Debbie Swanson Ryan Hunter

Postpone:

I move to postpone the variance request at 2103 E. Michigan Avenue, 2509 E. Michigan Avenue, and 755 S. Hewitt Road, Ypsilanti, MI 48197, Parcel K-11-39-350-023, K-11-39-350-022, and K-11-18-100-019 to the transparency requirements outlined in Article 5 – Sec. 503.7 and indicated within the building envelope as shown on the site plan included in the Zoning Board of Appeals Packet dated June 12, 2024, to give the applicant an opportunity to address the comments made at this evening's meeting, and return with a revise proposal based on these comments.

Approve:

1.

2.

I move to approve the variance request at 2103 E. Michigan Avenue, 2509 E. Michigan
Avenue, and 755 S. Hewitt Road, Ypsilanti, MI 48197, Parcel K-11-39-350-023, K-11-39-
350-022, and K-11-18-100-019 to the transparency requirements outlined in Article 5 -
Sec. 503.7 and indicated within the building envelope as shown on the site plan included
in the Zoning Board of Appeals Packet dated June 12, 2024. Granting of the requested
variance meets the criteria for a non-use variance in Section 1704(D) of the Zoning
Ordinance. Specifically, granting the requested variances is based on the following facts:

Denial:
I move to deny the variance request at 2103 E. Michigan Avenue, 2509 E. Michigan Avenue, and 755 S. Hewitt Road, Ypsilanti, MI 48197, Parcel K-11-39-350-023, K-11-39-350-022, and K-11-18-100-019 to the parking location requirements as indicated within the building envelope as shown on the site plan included in the Zoning Board of Appeals Packet dated June 12, 2024, based on the following findings of fact that the requests do not meet the criteria in Section 1704(D) of the Zoning Ordinance. Specifically, the request does not comply with the following criteria: (<i>ZBA states reasons for denial</i>)
1.
2.



Trustees
John Newman II
Gloria Peterson
Debbie Swanson
Ryan Hunter

Respectfully Submitted,

Fletcher Reyher

Fletcher Reyher, AICP Planning and Development Coordinator Charter Township of Ypsilanti Planning Department



Date: July 30, 2024

Zoning Board of Appeals – Variance Analysis For Ypsilanti Township, Michigan

Applicant: Silken Gold, represented by Derick Riba

Project Name: Sheetz Fueling Station/Convenience Store

Plan Date: June 12, 2024

Location: 2509 & 2103 W. Michigan Avenue, and 755 S. Hewitt

Zoning: RC – Regional Corridor – Form Based District

Action Requested: Variance for:

Building setback from S. Hewitt Rd.

Parking in front yard along S. Hewitt Rd.

• Deficient glazing on facades facing W. Michigan Ave. & S. Hewitt Rd.

PROJECT DESCRIPTION

The applicant is proposing to build a 6,132 s.f. convenience store/gas station and restaurant building, and eight (8) gas pumps (for a total of 16 fueling positions) at the southeast corner of W. Michigan Avenue and S. Hewitt Road. Other site features include an outdoor eating patio, parking, future EV charging stations, two air machines, outdoor sales of propane, ice, and windscreen fluid (shown on building elevations), and landscaping. This business will operate 24 hours per day, seven days a week.

This site is made up of three separate parcels. The applicant is proposing to split off the southern portion of the property to create a new parcel, which is not part of this development project.

Three variances are required to construct the project as designed:

- 1) Building setback from S. Hewitt Rd. further than permitted by Form Based ordinance standards. (Article 5 Sec. 503.4, Building Form Type). The building is set back 62.5 feet when a maximum of 10-feet is required.
- 2) Parking is in front yard along S. Hewitt, which is not permitted in the Form Based ordinance standards. (Article 5, Sec. 503.4, Building Form Type)
- 3) Amount of glazing is deficient in W. Michigan Ave. and S. Hewitt St. façades. (Article 5 Sec. 503.7, Transparency Requirements). The ordinance requires 50% of the first floor adjacent to a street to be transparent glazing. The project proposes the following:

	Proposed Glazing				
	Transparent Glazing	Faux Window Glazing*	Total		
W. Michigan Ave.	8.93%	17.8%	26.8%		
S. Hewitt St.	11.03%	5,62%	16.65%		

^{*}Sec. 507, Design Standards, subsection "E", Transparency, states that the use of tinted, reflective, or opaque glass (such as the faux windows in this proposal) does not meet the definition of façade transparency.

APPEAL AND DEMONSTRATION OF PRACTICAL DIFFICULTY

The Zoning Board of Appeals may grant a dimensional or non-use variance only upon a finding that compliance with the strict letter of the restrictions governing area, setbacks, frontage, height, bulk, density, or other dimensional provisions would create a practical difficulty and unreasonably prevent the use of the property. A finding of practical difficulty shall require demonstration that all the following conditions are met. We have evaluated the proposal against the criteria in the ordinance, and provide comments after each:

- (1) That there are exceptional or extraordinary circumstances or conditions applying to the property in question that do not apply generally to other properties or classes of uses in the same zoning district. Exceptional or extraordinary circumstances or conditions include but may not be limited to:
 - a. exceptional narrowness, shallowness, or shape of a specific property;
 - b. exceptional topographic conditions;
 - c. any other physical situation on the land, building or structure deemed by the Zoning Board of Appeals to be extraordinary; or,
 - d. development characteristics of land immediately adjoining the property in question that creates an exceptional constraint.

CWA Comments:

Building Location: The site is occupied by a road easement in the northwest corner, as shown on Sheet C-6. The ordinance requires that the building be placed at the 10-foot build-to-line, which is the line 10-feet from the front property line along a street. Because of this road easement, the building cannot be located 10-feet from the S. Hewitt Rd. property line. Therefore, special circumstances exist on this property that make compliance with the ordinance for building location impossible.

Parking Location: The ordinance requires that parking be located in the side or rear yard. The proposal locates six (6) parking spaces in the front yard along S. Hewitt Rd. The ordinance definition of a "front" yard is: "An open space extending the full width of the lot, the depth of which is the minimum horizontal distance between the front lot line and the nearest line of the main building." The six parking spaces are closer to S. Hewitt Rd. than the building. We consider the following to create special circumstances for the location of these six spaces:

- a. The site is a corner lot, with two front yards.
- b. The fueling station component of the project requires that the interior of the site be occupied by the fuel pumps and canopy, requiring parking to be located around the perimeter of the site. (Note: The 12 spaces to the east of the building are located in a "side" yard, as defined by the ordinance: "Side Yard. An open space between a main building and the side lot line, extending from the front yard to the rear yard, the width of which is the horizontal distance from the nearest point of the side lot line to the nearest point of the main building.")
- c. The location of the building is complicated by the existing easement. This sets the building further east on the property, lessening the space to locate compliant parking spaces outside of the front yard along S. Hewitt.
- d. The east side of the site abuts a residential neighborhood. Placing these six spaces away from the neighbors reduces potential impacts to these neighbors.

Transparency. The Architectural Design Standards in the Form Based Districts are intended to create a character for the district that encourages the greatest amount of visual interest and architectural consistency. One way this is accomplished is by requiring the first floors of all buildings be designed to encourage and complement pedestrian-scaled activity by the use of windows and doors so that active uses within the building are visible from or accessible to the street. The standard requires 50% of any façade facing a right-of-way be occupied by windows and doors. The façade facing W. Michigan Ave. is 8.93% transparent, and the façade facing S. Hewitt Rd. is 11.03% transparent.

The applicant has not provided any floor plans to show how the interior of the building coordinates with the location of doors and windows. Floor plans should be provided with the variance request to allow the Zoning Board of Appeals to confirm windows/doors would interfere with these facilities.

The submittal includes building facades of the "back" elevation (which faces W. Michigan Ave.), and the "left" elevation (which faces S. Hewitt Rd.).

W. Michigan Ave. Façade. In our opinion, the façade facing W. Michigan Ave. is not designed as a "front" façade, welcoming pedestrians to the building. Utility cabinets are located on this façade, as well as the scuppers for stormwater conveyance. It is clearly a "back" as labeled. The focus of this building is toward the parking lots (or the east and south sides of the building). We consider the W. Michigan Ave. façade an important façade to achieve the goals of the Form-Based ordinance. Has the applicant investigated using the "picture window" style shown on the east elevation to create a "front" façade along W. Michigan Ave.? Has making the windows taller been investigated to increase the transparency? Has the applicant considered allowing customers to view the activity in the food preparation area? Would it be possible to have a pedestrian door on the W. Michigan Ave. side of the building? The W. Michigan façade should be modified to better meet the transparency requirement.

<u>S. Hewitt Façade</u>. Has the applicant considered flipping the orientation of the building, and locating the patio (with the associated window/door configuration) on the west side facing S. Hewitt? This would eliminate the need for a transparency variance. Since the six parking spaces along S. Hewitt are located in the easement, we would assume that an outdoor patio would also be permitted in the easement; however, there appears to be enough space to locate the patio here without encroaching on the easement. The Form-Based ordinance would encourage locating the patio along the street-side of the project. This location could also be more pleasant for patio users rather than overlooking a parking lot. Lastly, placing the patio on this side of the building will screen any activity in the patio from the residences to the east.

(2) That a variance is necessary for the preservation and enjoyment of a substantial property right possessed by other properties in the same zoning district and in the vicinity;

Building Location: To locate the building on the site, the applicant cannot put it in the easement. Locating the building out of the easement means that the building cannot meet the build-to-line requirement. Granting the building location variance will allow development of this site.

Parking Location: The required location of the building necessitates the parking be shifted into the front yard along S. Hewitt St., given the fuel pumps and canopy occupying the rear yard behind the building. The applicant is not proposing any more parking spaces than required.

Transparency.

<u>W. Michigan Ave. Façade</u>. The variance for transparency on the W. Michigan Ave. facade is not necessary to preserve a substantial property right possessed by other properties. The Form-Based standards are relatively new, and existing businesses along this corridor were developed before this standard was in place. The intent of the ordinance is to establish a pedestrian-oriented corridor as new developments are established. The applicant should address the questions posed in #1 above, and also explain why the transparency requirements for the W. Michigan façade cannot be met along this street-facing frontage.

<u>S. Hewitt Façade.</u> The applicant should respond to the possibility of locating the patio, and the associated windows/doors, on the west façade that faces S. Hewitt St. to eliminate the need for this variance.

(3) That the authorizing of such variance will not be a substantial detriment to adjacent property, will not be harmful to or alter the essential character of the area, and will not materially impair the purposes of this ordinance or the public interest;

Building Location: The building is proposed as close to the corner as possible, given the existing easement along S. Hewitt.

Parking Location: Authorizing the variance to locate parking on the west side of the site vs. the east side of the site will reduce activity near the residences to the east, helping to maintain the residential character to the east.

Transparency.

<u>W. Michigan Ave. Façade</u>. The intent of the transparency requirement is to establish a pedestrianoriented corridor as new developments are established. Meeting this requirement along W. Michigan Ave. will present a "front" along the street, and will establish the desired pedestrian character. In our opinion, granting the variance will impair he purpose of the Form-Based ordinance standards.

<u>S. Hewitt Façade.</u> The applicant should respond to the possibility of locating the patio, and the associated windows/doors, on the west façade that faces S. Hewitt St. to eliminate the need for this variance.

(4) The problem and resulting need for the variance has not been self-created by any action of the applicant or the applicant's predecessors; and

Building Location: The applicant did not create the existing easement along S. Hewitt.

Parking Location: Because of the easement, the building is set further back from S. Hewitt than the ordinance calls for, limiting the possible locations for required parking that keeps the business activity away from the residences to the east.

Transparency.

<u>W. Michigan Ave. Façade</u>. This building is being designed from the ground up, and the proposed design requires the requested transparency variance. The "back-of-house" activities can still be accommodated if larger/taller windows or a door are incorporated on the W. Michigan Ave. façade into the "public" portion of the building. Also, many restaurants allow their customers to view food preparation areas.

<u>S. Hewitt Façade.</u> The applicant should respond to the possibility of locating the patio, and the associated windows/doors, on the west façade that faces S. Hewitt St. to eliminate the need for this variance.

(5) The proposed variance will be the minimum necessary and no variance shall be granted where a different solution not requiring a variance would be possible.

Building Location: The location of the building is 10-feet away from the edge of the easement, making the requested variance the minimum necessary.

Parking Location: The location of the six parking spaces is 30-feet from the S. Hewitt St. property line, and approximately 32-53 feet ahead of the S. Hewitt St. building façade. The location of these six spaces also accommodates the 14 parking spaces along the building. We consider this variance to be the minimum necessary because the project is only proposing the required number of parking spaces, and locating the six spaces on the west side of the site keeps the activity in the parking lot as far from the residential neighbors as possible.

Transparency.

<u>W. Michigan Ave. Façade</u>. Other options that could minimize this variance include adding larger/taller windows or a door into the "public" portion of the building, and/or allowing customers to view food preparation areas.

<u>S. Hewitt Façade.</u> An alternative to the variance includes locating the patio, and the associated windows/doors, on the west façade that faces S. Hewitt St., which would eliminate the need for this variance.

RECOMMENDATIONS

In our opinion, the subject site has a practical difficulty (existing road easement along S. Hewitt St.) that prevents the applicant from meeting the build-to-line requirement (building setback from a street), and the requirement prohibiting a parking lot in a front yard. These requests also meet the other criteria in the ordinance to justify a variance.

However, regarding the transparency variance requests, the applicant should provide/respond to the following:

- 1) Floor plans should be provided with the variance request.
- 2) <u>W. Michigan Ave. Transparency Variance</u>. The applicant should respond to the following, and offer other options to increase the transparency on the W. Michigan Ave. façade:
 - a. Has the applicant investigated using the "picture window" style shown on the east elevation to create a "front façade" along W. Michigan Ave.?
 - b. Has making the windows taller been investigated to increase the transparency?
 - c. Has the applicant considered allowing customers to view the activity in the food preparation area?
 - d. Would it be possible to add a pedestrian door on the W. Michigan Ave. side of the building?
- 3) <u>S. Hewitt St. Transparency Variance</u>. ZBA and applicant to discuss flipping the orientation of the building, and locating the patio (with the associated window/door configuration) on the west side of the building, facing S. Hewitt. Benefits this could provide include:
 - a. Eliminate the need for a transparency variance along the S. Hewitt St. frontage.
 - b. Location could be developed to be more pleasant for patio users, as they wouldn't be overlooking a parking lot.
 - c. Locating the patio on the west side of the building would buffer activity on the patio from the residents to the east.

CARLISLE/WORTMAN ASSOC., INC.

Sally M. Elmiger, AICP, LEED AP

Principal

Charter Township of Ypsilanti Office of Community Standards 7200 S. Huron Drive, Ypsilanti, MI 48197 Phone: (734) 544-4000 ext. #1 Website: https://ypsitownship.org

ZONING BOARD OF APPEALS APPLICATION

I. APPLICATION TYPE			
☐ Variance			
☐ Exceptions and Special Appro	ovals (Includes: Temporary Uses	s and Structures)	
☐ Administrative Review Appea	al		
II. PROJECT LOCATION			
Address:	Parcel ID #· K	-11-	Zoning
Lot Number: Si	ubdivision:		
III. APPLICANT INFORMATION			
		Phone:	
Applicant:	City	/: St	ate: Zip:
Fax: Email: _			
Property Owner:			
Address:	City	/:St	ate: Zip:
Fax: Email: _			
V. APPLICANT SIGNATURE		Non-residential:	\$ 500.00
The undersigned	represents	:	
Applic	ant	Property Owner	
1. ThatProperty Owner	is/are the owner(s) of lot(s	s) located in the	
Subdivision , Ypsilanti Township,	Michigan, otherwise known as	Lot SAddress	Subdivision and the property is
zoned			
2. That the petitioner hereby re	equest unde	r Section Article	of the Ypsilanti Township
Zoning Ordinance.	/Regular Meeting		
3. The petitioner further state the	Applicant	understands the provisions of	of said zoning ordinance as it
applies to this petition.	Initial		
4. That the following is submitted	d in support of the petition (att	ach all pertinent data to sup	port the request).
Duf hil			
Applicant Signature	Print Name	Date	



Charter Township of Ypsilanti Office of Community Standards 7200 S. Huron Drive, Ypsilanti, MI 48197 Phone: (734) 544-4000 ext. #1 Website: https://ypsitownship.org

OFFICE USE ONLY

All Zoning Board of Appeals Applications	
 ☐ The application is filled out in its entirety. ☐ If the applicant is not the property owner, written and signed permission from the property owner is required. ☐ Fees 	Plot plan or lot survey to scale showing the following: All property lines and dimensions All existing and proposed structures and dimensions Lot area calculations necessary to show compliance with
Letter of interest of the applicant in the property	regulations Easements and dimensions, if applicable Location of drives, sidewalks, and other paved areas on the property and on the adjacent streets. Location and dimensions of the nearest structures on adjacent properties.



STONEFIELD

July 11, 2024

Fletcher Reyher, AICP Planning & Development 7200 S. Huron River Drive Ypsilanti, MI 48197

RE: Sheetz Development – Zoning Board of Appeals K11-39-350-022, K11-39-350-023, K11-05-100-019 2103 West Michigan Avenue Ypsilanti Township, Washtenaw County, Michigan

Fletcher:

Stonefield Engineering and Design is pleased to submit documents for your review for the above referenced project. Please find the following items enclosed.

ITEM DESCRIPTION	DATED	COPIES	PREPARED BY
Site Development Plans	06-12-2024	email	Stonefield Engineering & Design
Architectural Plans	04-08-2024	email	Convenience Architecture
Zoning Board of Appeals Application	07-08-2024	1	Skilken Gold
Purchase Agreement	03-19-2024	email	Casto
Check for \$500.00		1	Stonefield Engineering & Design

Please consider the following summaries as a part of the zoning board of appeals application:

Front Build-to-Line

(62.5 FT proposed, 10 FT required (Planning Commission may waive this requirement up to 30 FT)):

- 1. The existing property contains an approximately 55 FT x 28 FT easement that is located at the corner of the lot. The easement restricts the ability to adhere to the 10 FT build-to-line along South Hewitt.
- The requested variance would require the proposed development to be setback substantially farther from US-12 than what is required by the zoning code and would reduce the building visibility compared to buildings that are able to adhere to the build-to requirements.
- 3. Authorizing the requested variance will not be detrimental to the essential character of the area but rather allow the development to more closely align with the form-based districts objectives.
- 4. The easement in question benefits the county road commission and is not self-created.
- 5. The requested variance is the minimum necessary to ensure an additional setback variance is not required for the build-to-line along Michigan Avenue.



Parking within Hewitt Street Front Yard (30.0 FT proposed, 62.5 FT required):

- 1. The existing property contains an approximately 55 FT x 28 FT easement that is located at the corner of the lot. The easement restricts the ability to adhere to the 10 FT build-to-line along South Hewitt which in turn requires the building and front yard to be set back significantly from the Hewitt frontage that what is desired by the zoning code.
- 2. The requested variance is necessary to allow for development consistent with other properties in the district. The design follows the intent of the form based zoning and ensures the largest setback possible from the residences to the east and screens the fueling canopy to the greatest extent possible.
- 3. Authorizing the requested variance will not be detrimental to the essential character of the area but rather allow the development to more closely align with the form-based districts objectives. Additionally, approval of this variance will maintain a larger setback from the residentially parcels to the East.
- 4. The easement that necessitates this grant benefits the county road commission and is not self-created.
- 5. The requested variance is the minimum necessary to most closely adhere to the form-based zoning standards while not negatively impacting the residential parcels to the East.

First floor transparency when facing the right-of-way Michigan Avenue Elevation (26.8% proposed, 50% required): S. Hewitt Road Elevation (16.65% proposed, 50% required):

- I. Commercial properties at the same intersection do not adhere to the same standard the proposed development is required to adhere to. The proposed project has adhered to the required standard to the greatest extent possible.
- 2. The variance requested is the minimum necessary to develop the site in a manner consistent with other commercial parcels in the vicinity.
- 3. The requested variance will not be detrimental to adjacent properties but will rather allow for a vacant commercial parcel to be developed. The variance will not impair the purpose of this ordinance as it is the minimum variance necessary to allow this development to move forward.
- 4. The requested variance is necessary for a unique business to be located on the subject property. The need for this variance stems from needing to have a "back of house" to allow for restaurant operations to occur while maintaining welcoming entrances on 3-sides of the building for customers.
- 5. The requested variance is the minimum necessary to allow the property to be developed as presented. The variance will allow for back of house operations to occur while also adhering to the Township setback requirements to the greatest extent possible.

Please contact our office if you have any questions or comments regarding this submission.

Best Regards,

Eric Williams, PE ewilliams@stonefieldeng.com

Stonefield Engineering and Design, LLC

ie William

Kevin Heffernan, PE kheffernan@stonefieldeng.com

Then Allen

Stonefield Engineering and Design, LLC



March 19, 2024

Charter Township of Ypsilanti Office of Community Standards 7200 S. Huron Drive Ypsilanti, MI 48197

Re: Real Estate Purchase and Sale Agreement dated January 23, 2023 between Commercial Site Acquisitions, Inc., ("Buyer") and RNA Of Ann Arbor, Incorporated and Wholesale Group of Ann Arbor, Inc. ("Seller") Re: 2059 W Michigan Ave, Ypsilanti, MI 48197 and 755 S Hewitt Road, Ypsilanti, MI 48197 ("Property")

Commercial Site Acquisitions, Inc, the Buyer of the above referenced Property, hereby grants to Morse Road Development LLC, Skilken Gold, Sheetz, and their assignors, agents, or tenants, permission to perform the following as it pertains to their due diligence for the purchase of the Property:

- Reference the Property parcel(s);
- Seek approval for:
 - o Special Land Use Permit;
 - o Preliminary Site Plan Approval; and
 - o Any variances related to the development of the site for the fuel and convenience use.

Please feel free to contact me with any questions or concerns.

Sincerely,

Jason M. Freeman

Vice President, Commercial Site Acquisitions, Inc.

REAL ESTATE PURCHASE AND SALE AGREEMENT

THIS REAL ESTATE PURCHASE AND SALE AGREEMENT (this "Agreement") is made and entered into as of the Effective Date, by and among R.N.A. OF ANN ARBOR, INCORPORATED, a Michigan corporation ("R.N.A.") and WHOLESALE GROUP OF ANN ARBOR, INC., a Michigan Corporation ("Wholesale"; together with R.N.A., collectively, "Seller"), and COMMERCIAL SITE ACQUISITIONS, INC., an Ohio corporation ("Buyer").

WITNESSETH:

WHEREAS, the Seller is the owner of marketable fee simple interest in the real property situated in the City of Ypsilanti, Washtenaw County, Michigan, consisting of: (i) approximately 1.84 acres of land known as 2059 W. Michigan Avenue, Ypsilanti, Michigan 48197, Washtenaw County Parcel Number K-11-39-350-022, titled in R.N.A., and (ii) approximately 3.99 acres of land known as 755 S. Hewitt Road, Ypsilanti, Michigan 48197, Washtenaw County Parcel Number K-11-18-100-019, titled in Wholesale; and

WHEREAS, Buyer desires to purchase the Property (as defined below) and other rights described herein.

NOW, THEREFORE, for good and valuable consideration, the parties hereto agree as follows:

1. PROPERTY. Subject to the terms and conditions of this Agreement, Seller agrees to sell to Buyer and Buyer agrees to purchase from Seller, in accordance with the provisions of this Agreement, the following described property: (i) all of Seller's right, title and interest in and to Washtenaw County, Parcel Nos. K-11-39-350-022 and K-11-18-100-019, consisting of approximately 5.83 acres of land, as the same is described and/or depicted on Exhibit A attached hereto and made a part hereof; (ii) all riparian, oil, gas and mineral rights and all privileges, governmental permits and approvals, impact fee credits, development rights, warranties, contracts, improvements, easements, and other rights, interests and appurtenances to the Property; and (iii) all intangible property and all plans, specifications, studies and reports owned or controlled by Seller related to the Property (collectively, the "Property").

2. PURCHASE PRICE. The total purchase price for the Property to be paid to Seller by
Buyer (the "Purchase Price") shall be the sum of
. The Purchase Price shall be paid to Seller at Closing, plus or minus prorations and other
adjustments as provided in this Agreement, including all Deposit(s) (hereinafter defined) credited against
the Purchase Price, by federal wire transfer of immediately available funds to Title Company.

3. <u>EARNEST MONEY.</u>

3.1 Earnest Money Deposit. Within seven (7) business days of the Effective Date, Buyer shall deposit into escrow with the Title Company its earnest money deposit in the amount of the "Deposit"). The Deposit shall be held as follows: (i) at Closing, the Deposit shall be delivered to Seller and credited against the Purchase Price and all interest (if any) earned on the Deposit shall be paid to Buyer or credited against the Purchase Price; (ii) if Seller fails or refuses to perform, or any contingency is not satisfied or waived, the Deposit shall be returned to Buyer in accordance with this Agreement; or (iii) if Buyer fails or refuses to perform, the Deposit shall be paid to Seller in accordance with Section 11 of this Agreement. If the parties are unable to agree upon the

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the date first above written.

SELLER:
R.N.A. OF ANN ARBOR, INCORPORATED, a Michigan corporation
Ву:
Print Name: Mufrd Farhou
Its: C.F.D
Date: 1/23/2023
WHOLESALE GROUP OF ANN ARBOR, INC., a Michigan corporation
Rv: 111
Print Name: Mutic Farha Its: C.E.O
Its: $C \cdot \overline{E} \cdot D$
Date: 123/2023
BUYER:
COMMERCIAL SITE ACQUISITIONS, INC. an Ohio corporation
a fil it
By: Cullion
Print Name: The Wiffwitz
Its: 1/P
Date: 1/23/23



March 19, 2024

Charter Township of Ypsilanti Office of Community Standards 7200 S. Huron Drive Ypsilanti, MI 48197

Re: Real Estate Purchase and Sale Contract dated February 7, 2023 between Commercial Site Acquisitions, Inc, ("Buyer") and Lewis Frye Jr and Gale M Frye ("Seller") Re: 2103 W Michigan Ave, Ypsilanti, MI 48197 ("Property")

Commercial Site Acquisitions, Inc, the Buyer of the above referenced Property, hereby grants to Morse Road Development LLC, Skilken Gold, Sheetz, and their assignors, agents, or tenants, permission to perform the following as it pertains to their due diligence for the purchase of the Property:

- Reference the Property parcel(s);
- Seek approval for:
 - o Special Land Use Permit;
 - o Preliminary Site Plan Approval; and
 - o Any variances related to the development of the site for the fuel and convenience use.

Please feel free to contact me with any questions or concerns.

Sincerely,

Jason M. Freeman

Vice President, Commercial Site Acquisitions, Inc.

Real Estate Purchase and Sale Contract

This Real Estate Purchase and Sale Contract (the "Contract") is entered into as of the Effective Date, by and among LEWIS FRYE JR. and GAYLE M. FRYE, married individuals (the "Selfer"), and COMMERCIAL SITE ACQUISITIONS, INC., an Ohio corporation (the "Buyor"), who hereby agree as follows:

- PROPERTY DESCRIPTION: Buyer offers to purchase from the Seller in accordance with the provisions of this Contract, the
 following described real estate including, without limitation, appurtenant rights, privileges, easements and other rights and
 interests related thereto located in the City of Ypsitanti, County of Washtenaw, State of Michigan, and known as: 2103 W.
 Michigan Avenue, Ypsilanti, Michigan 48197, Washtenaw County Parcel No. K-11-39-350-023 (the "Property"), a description
 and/or depiction of which is attached hereto as Exhibit A.
- 2. PRICE AND TERMS: Buyer shall pay the purchase price of Price") to Seller at Closing by wire transfer or by bank cashler's check.
- 3. CONTINGENCIES: Property Inspection: Buyer, at Buyer's expense shall have one hundred twenty (120) days after the full execution of this Contract (the "Due Diligence Period") to evaluate the Property and have the Property and all improvements, fixtures and equipment inspected, including soils tests and environmental assessments. Seller shall cooperate in making the Property reasonably available for such inspection(s). Buyer agrees to indemnify and hold Seller harmless from any injury or damage caused by such inspection(s), except to the extent arising from or related to the acts or omissions of Seller or any pre-existing conditions of the Property discovered by Buyer. If Buyer is not satisfied with the Property, in Buyer's sole discretion, Buyer may terminate this Contract by delivering written notice of such termination to Seller prior to expiration of the Due Diligence Period, as may be extended below, and the Deposit shall be returned to Buyer. Fallure of Buyer to deliver written termination notice within such time period shall constitute a waiver of Buyer's right to terminate pursuant to this provision.

Notwithstanding anything herein to the contrary, Buyer shall have the option to extend the Due Diligence Period for two (2) periods of forty-five (45) days each to allow Buyer to continue to inspect the Property, provided Buyer has delivered, prior to the expiration of the initial Due Diligence Period or prior extension period, as applicable: (a) written notice to Seller of its election to extend the Due Diligence Period, and (b) an extension payment of "Extension Payment") to the Title Company. Any Extension Payment shall be non-refundable to Buyer once made, except in the event of Seller's default as set forth in Section 11 of this Contract, but any Extension Payment, and all interest (if any) earned shall be applied to (or credited against) the Purchase Price at Closing. The term "Due Diligence Period" as used herein shall be deemed to include the extended time periods contemplated in this paragraph, provided such extension is duly and timely exercised.

- 4. POSSESSION: Seller shall deliver exclusive possession of the Property to Buyer at Closing subject to no tenancies.
- DAMAGE OR DESTRUCTION OF PROPERTY: Risk of physical loss to the Property and any improvements shall be borne by Seller until Closing and during its period of post-closing occupancy.
- 6. EVIDENCE OF TITLE: Buyer may obtain an owner's title insurance commitment during the Due Diigence Period and, at Closing, an owner's title policy in the amount of the Purchase Price. The title commitment and policy shall be issued by Devon Title, or its affiliate, 1880 Crooks Road, Troy, Michigan 48084, attention: Rana Abu-Jouden, at (248) 273-4300, rabujoudeh@devontitle.com (the "Title Company"). Buyer and Seller shall each pay fifty percent (60%) of the costs, fees and premium for owner's policy and any endorsements to remove the standard title exceptions. Buyer shall pay the costs, fees and premium for any lender's policy, any lender endorsements and any other endorsements to the owner's policy (i.e., in addition to those required to remove the standard title exceptions). Buyer and seller shall each pay fifty percent (50%) of all other costs of the Title Company, including any escrow fees, closing fees and document coordination fees. Buyer may obtain a survey during the Due Diligence Period at its own cost. At Closing, Seller shall deliver such documents as may reasonably be required to convey and vest title to the Property in the Buyer and to enable the Title Company to issue the title policy.
- 7. CONVEYANCE AND CLOSING: The closing of this transaction (the "Closing") shall occur within fifteen (15) days after expiration of the Due Diligence Period. At Closing, Buyer shall pay all conveyance and/or transfer fees, and Selfer shall convey title to the Property to Buyer by a limited warranty deed. Buyer shall pay for all recording fees and all other Closing costs, including any escrow fees owed to the Title Company.
- 8. TAXES AND ASSESSMENTS: All real estate taxes, assessments, and any payments in lieu thereof pursuant to state laws applicable to the Property (collectively, "Taxes") for the calendar year of Closing shall be apportioned and prorated on a per-diem basis between the parties as of the date of Closing, regardless of the collection date therefore, Seller's share of such pro-ration shall be based upon the number of days in such calendar year which precede (but do not include) the date of Closing and Buyer's share shall be based on the number of days in such year that include and follow the date of Closing. Seller shall also pay or credit against the Purchase Price at Closing all other unpaid Taxes that are a lien for years prior to Closing.

BUYER:	SELTER!!!
COMMERCIAL SITE ACQUISITONS, INC., an Ohio corporation By:	Lewis Fry LEWIS FRYE JR. Gayle M Fry
Name: JASON FREMAN Title: VICE PRESIDENT	GAYLE M. FRYE Date: 02/05/23
Date: 2/7/23	
BUYER'S ADDRESS FOR NOTICES:	SELLER'S ADDRESS

250 Civic Center Drive, Suite 500
Columbus, OH 43215
Attention: Jason Freeman, Steven Dankof Jr., and Rachel Stine

Email: ifreeman@castoinfo.com and sdankof@castoinfo.com and rstine@castoinfo.com

SELLER'S	ADDRESS	FOR	NOTICE	PURPO	SES:

2290 Draper Avenue Ypsilanti, MI 48197 Attention: Lewis Frye Jr. and Gayle M. Frye Email: mrlewisfryejr@gmail.com

544EEETZ

SHEETZ, INCORPORATED
5700 SIXTH AVENUE
ALTOONA, PA 16602
(814) 946-3611

NEW SHEETZ STORE "YPSILANTI"

INT. OF MICHIGAN AVENUE AND HEWITT ROAD YPSILANTI, MICHIGAN

SIGNAGE SQUARE FOOTAGE BREAKDOWN

BUILDING ELEVATIONS

SHEETZ SIGN = 16.55 SQ. FT. \times 2 = 33.10 SQ. FT.

TOTAL = 33.10 SQ. FT.

33.10 SQ. FT.

GAS PRICE MONUMENT

SIGN

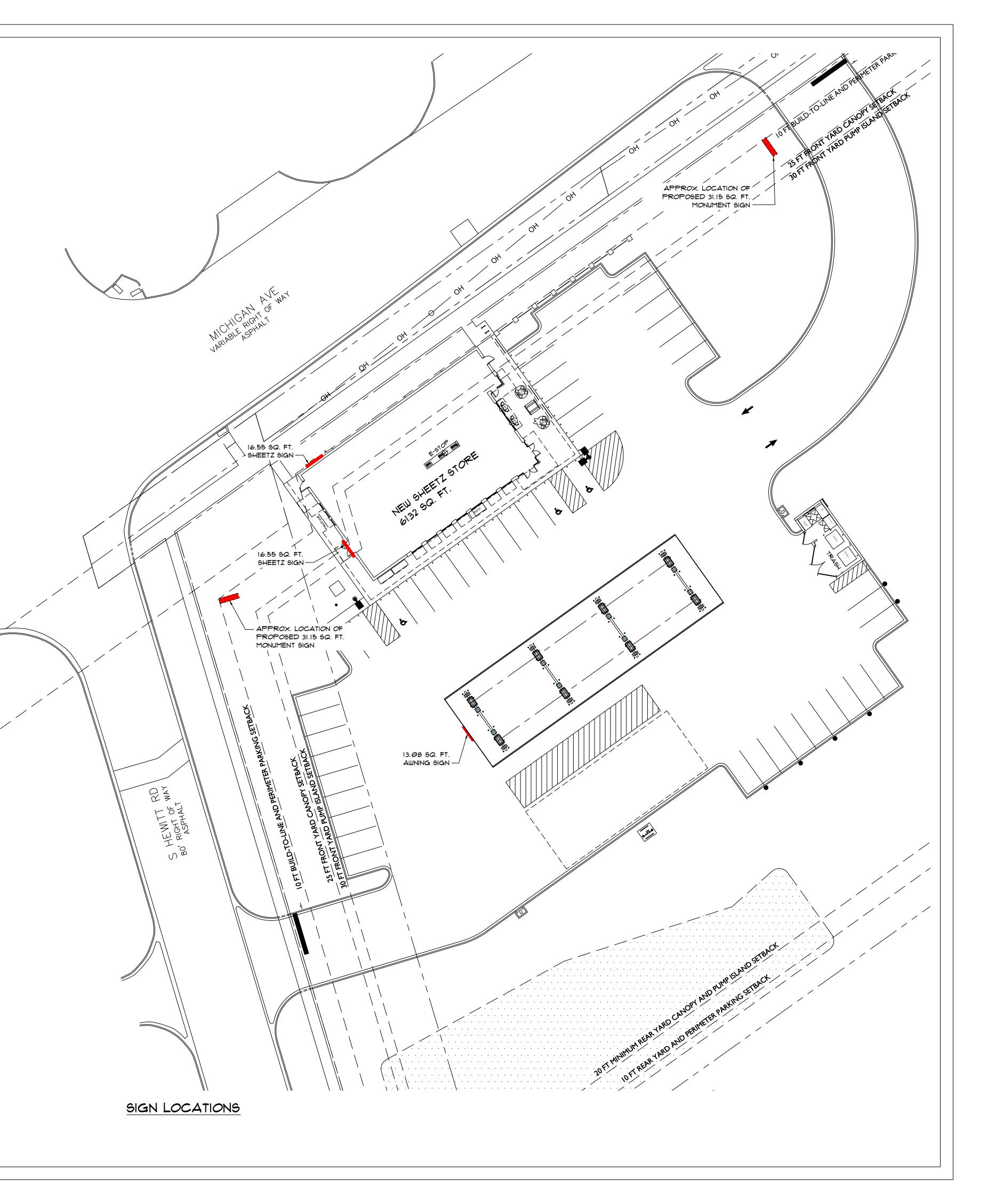
SHEETZ SIGN = 12.13 SQ. FT. \times 1 = 12.13 SQ. FT. GAS PRICE SIGN = 19.02 SQ. FT. \times 1 = 19.02 SQ. FT.

TOTAL = 31.15 SQ. FT. × 2 = 62.30 SQ. FT.

GAS CANOPY AWNING SHEETZ SIGN AREA = 13.08 SQ. FT. X 1 = 13.08 SQ. FT.

FUEL OFFERING FLAG AREA = 2.76 SQ. FT. $\times 16$ = 44.16 SQ. FT.

TOTAL = 57.24 SQ. FT. 57.24 SQ. FT.





FRONT ELEVATION (SOUTHEAST)

FIRST FLOOR GLA	FIRST FLOOR GLAZING CALCULATION (2' TO 8')							
FRONT EL	FRONT ELEVATION = 626 SQ FT							
DESCRIPTION	AREA (SQ FT)	% OF COVERAGE						
TRANSPARENT GLAZING	196.10	31.33%						
FAUX WINDOW GLAZING	N/A	N/A						
TOTAL GLAZING	196.10	31.33%						

TYPICAL EXTERIOR ELEVATION NOTES:

- ALL LIGHTS SHOWN ABOVE AND/OR BELOW DOORS OR WINDOWS ARE
 TO BE CENTERED ON THE DOOR OR WINDOW UNLESS NOTED
 OTHERWISE
- FIXTURES/EQUIPMENT BETWEEN TWO DOORS OR WINDOWS ARE TO BE CENTERED EQUALLY.
- EXTERIOR SEALANT FOR STONE SHALL COMPLY WITH SECTION 07 9005
 JOINT SEALANTS, GENERAL BUILDING FASCADE WEATHER SEALANT

AND SHALL MATCH THE COLOR OF THE STORE. EXTERIOR ELEVATION KEYNOTES:

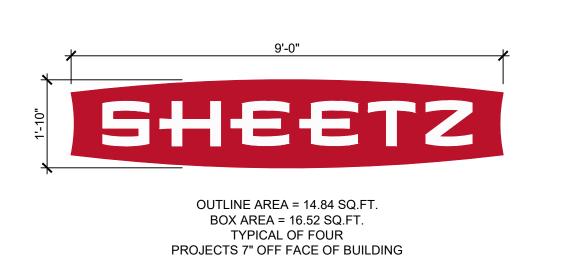
- BRICK VENEER, COLOR: 680 BY CONTINENTAL BRICK COMPANY. SEE MASONRY SPEC
- 2 CAST STONE SILL, COLOR: CRAB ORCHARD. SEE MASONRY SPEC
- 3 ANCHORED CAST STONE MASONRY VENEER, COLOR: CRAB ORCHARD. SEE MASONRY SPEC
- 4 EXTERIOR LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS
- ARCHITECTURAL CANOPY, COLOR: REGAL RED, PREMIUM TWO-COAT KYNAR FINISH
- 6 BRICK PAVER WALKWAY
- 7 LIGHTED CURVED FASCIA CANOPY ATTACHMENT
- (8) METAL COPING, COLOR: DARK BRONZE
- 9 WALL MOUNTED BUILDING SIGN, SEE SHEET A200.
- 10 STANDING SEAM METAL ROOF, COLOR: BRITE RED
- 11) ROOF EQUIPMENT SCREEN, COLOR: DARK BRONZE
- (12) GUTTER, COLOR TO MATCH CUPOLA COLOR
- (13) DOWNSPOUT, COLOR: DARK BRONZE
- 14 DRIVE-THRU WINDOW (IF APPLICABLE)
- METAL STANDING SEAM SHED STYLE AWNING AND FRAME ASSEMBLY, ROOF COLOR: BRITE RED, FRAME COLOR: DARK BRONZE
- BRICK SOLDIER COURSE, COLOR: 680 BY CONTINENTAL BRICK
- COMPANY. SEE MASONRY SPEC
- 17 BRICK ROWLOCK COURSE, COLOR: 680 BY CONTINENTAL BRICK COMPANY. SEE MASONRY SPEC
- (18) CONTROL JOINT, SEE MASONRY SPEC
- 19 STEEL ROOF LADDER AND CRANKY POST, COLOR: DARK BRONZE
- STANDARD THROUGH WALL SCUPPER WITH CONDUCTOR HEAD & DOWNSPOUT, COLOR: DARK BRONZE
- 21) OVERFLOW SCUPPER
- 22 ALUMINUM STOREFRONT SYSTEM, SEE A600
- 23) EXTERIOR HOSE BIB, REFER TO PLUMBING DRAWINGS
- (24) OUTDOOR FURNITURE
- (25) ELECTRICAL RECEPTACLE, REFER TO ELECTRICAL DRAWINGS
- 26 ELECTRICAL EQUIPMENT, REFER TO ELECTRICAL DRAWINGS
- 27) HM DOOR AND FRAME, COLOR: DARK BRONZE
- (28) EMERGENCY WATER CONNECTION, REFER TO PLUMBING DRAWINGS
- SEAMLESS ALUM PANEL SYSTEM WITH EXPOSED FASTENERS, COLOR: DARK BRONZE
- (30) PROPANE LOCKER
- 31 ICE MERCHANDISER
- (32) RTI FILLPORT
- (33) STEEL BOLLARD, COLOR: DARK BRONZE
- (34) CO2 FILLPORT
- 35) DECORATIVE ALUMINUM FENCE, COLOR DARK BRONZE
- AUTOMATIC DOOR PUSH PLATE AND BOLLARD, BOLLARD COLOR:
 DARK BRONZE

 GAS METER AND RISER, REFER TO CIVIL UTILITY PLAN, COLOR: DARK BRONZE
- BRONZE

 (38) NOT USED.
- LIGHT CHANNEL AT PARAPET COPING. SEE ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.



FIRST FLOOR GLAZING CALCULATION (2' TO 8')							
LEFT ELEVATION = 496 SQ FT							
DESCRIPTION	AREA (SQ FT)	% OF COVERAGE					
TRANSPARENT GLAZING	198.73	40.07%					
FAUX WINDOW GLAZING	N/A	N/A					
TOTAL GLAZING	198.73	40.07%					





Convenience Architecture and Design P.C.

351 Sheetz Way, Claysburg, PA 16625

phone (814) 239-6013 email tcolumbu@sheetz.com web site www.sheetz.com

PROJECT NAME:

NEW SHEETZ STORE

YPSILANTI S. HEWITT ROAD

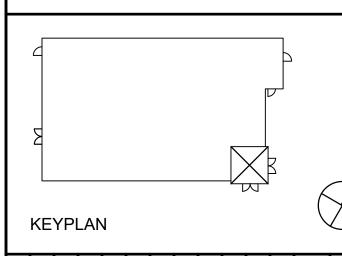
Int. of South Hewitt Road and Michigan Avenue Ypsilanti, MI

OWNER: SHEETZ, INC.

5700 SIXTH AVE. ALTOONA, PA 16602

CONSULTANT

PROFESSIONAL



ISSUE: 04.02.2024

SITE ID NO: 214556

AUTHOR BY: RJK, JNW

REVIEW BY: RJH

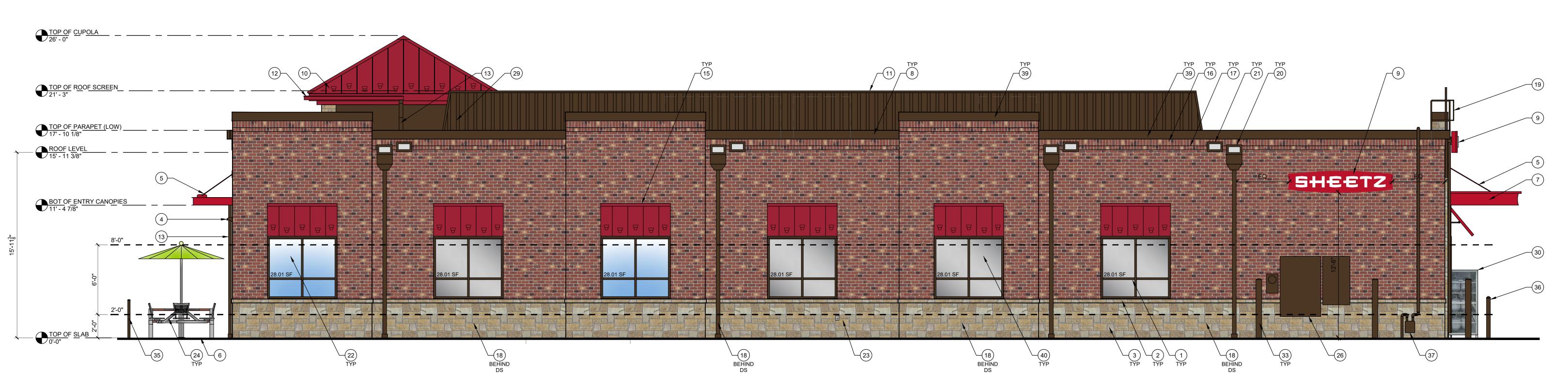
VERSION:

EXTERIOR ELEVATIONS

6132R_v1.6

PRELIMIN

A200



3 BACK ELEVATION (NORTHWEST)

FIRST FLOOR GLAZING CALCULATION (2' TO 8')							
REAR ELEVATION = 627 SQ FT							
DESCRIPTION	AREA (SQ FT)	% OF COVERAGE					
TRANSPARENT GLAZING	56.02	8.93%					
FAUX WINDOW GLAZING	112.04	17.87%					
TOTAL GLAZING	168.06	26.80%					

TYPICAL EXTERIOR ELEVATION NOTES

- ALL LIGHTS SHOWN ABOVE AND/OR BELOW DOORS OR WINDOWS ARE
 TO BE CENTERED ON THE DOOR OR WINDOW UNLESS NOTED
 OTHERWISE
- FIXTURES/EQUIPMENT BETWEEN TWO DOORS OR WINDOWS ARE TO BE CENTERED EQUALLY.
- EXTERIOR SEALANT FOR STONE SHALL COMPLY WITH SECTION 07 9005
 JOINT SEALANTS, GENERAL BUILDING FASCADE WEATHER SEALANT
 AND SHALL MATCH THE COLOR OF THE STORE.
- EXTERIOR ELEVATION KEYNOTES:
- BRICK VENEER, COLOR: 680 BY CONTINENTAL BRICK COMPANY. SEE MASONRY SPEC
- 2 CAST STONE SILL, COLOR: CRAB ORCHARD. SEE MASONRY SPEC
 ANCHORED CAST STONE MASONRY VENEER, COLOR: CRAB ORCHARD.
- 3 SEE MASONRY SPEC
 4 EXTERIOR LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS
- ARCHITECTURAL CANOPY, COLOR: REGAL RED, PREMIUM TWO-COAT KYNAR FINISH
- 6 BRICK PAVER WALKWAY
- 7 LIGHTED CURVED FASCIA CANOPY ATTACHMENT
- 8 METAL COPING, COLOR: DARK BRONZE
- 9 WALL MOUNTED BUILDING SIGN, SEE SHEET A200.
- (10) STANDING SEAM METAL ROOF, COLOR: BRITE RED
- (11) ROOF EQUIPMENT SCREEN, COLOR: DARK BRONZE
 (12) GUTTER, COLOR TO MATCH CUPOLA COLOR
- (13) DOWNSPOUT, COLOR: DARK BRONZE
- 14) DRIVE-THRU WINDOW (IF APPLICABLE)

(18) CONTROL JOINT, SEE MASONRY SPEC

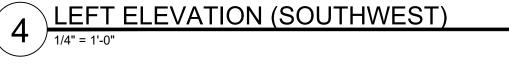
- METAL STANDING SEAM SHED STYLE AWNING AND FRAME ASSEMBLY,

 ROOF COLOR: BRITE RED. FRAME COLOR: DARK BRONZE
- ROOF COLOR: BRITE RED, FRAME COLOR: DARK BRONZE
 BRICK SOLDIER COURSE, COLOR: 680 BY CONTINENTAL BRICK
- COMPANY, SEE MASONRY SPEC

 BRICK ROWLOCK COLIRSE COLOR: 680 BY CONTINENTAL BRICK
- BRICK ROWLOCK COURSE, COLOR: 680 BY CONTINENTAL BRICK COMPANY. SEE MASONRY SPEC
- (19) STEEL ROOF LADDER AND CRANKY POST, COLOR: DARK BRONZE
- STANDARD THROUGH WALL SCUPPER WITH CONDUCTOR HEAD & DOWNSPOUT, COLOR: DARK BRONZE
- (21) OVERFLOW SCUPPER
- (22) ALUMINUM STOREFRONT SYSTEM, SEE A600
- 23) EXTERIOR HOSE BIB, REFER TO PLUMBING DRAWINGS
- 24) OUTDOOR FURNITURE
- (25) ELECTRICAL RECEPTACLE, REFER TO ELECTRICAL DRAWINGS
- (26) ELECTRICAL EQUIPMENT, REFER TO ELECTRICAL DRAWINGS
- (27) HM DOOR AND FRAME, COLOR: DARK BRONZE
- (28) EMERGENCY WATER CONNECTION, REFER TO PLUMBING DRAWINGS
- SEAMLESS ALUM PANEL SYSTEM WITH EXPOSED FASTENERS, COLOR:
- DARK BRONZE

 30 PROPANE LOCKER
- (31) ICE MERCHANDISER
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- (35) DECORATIVE ALUMINUM FENCE, COLOR DARK BRONZE
- AUTOMATIC DOOR PUSH PLATE AND BOLLARD, BOLLARD COLOR: DARK BRONZE
- GAS METER AND RISER, REFER TO CIVIL UTILITY PLAN, COLOR: DARK BRONZE
- (38) NOT USED.
- UIGHT CHANNEL AT PARAPET COPING. SEE ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.





 FIRST FLOOR GLAZING CALCULATION (2' TO 8')

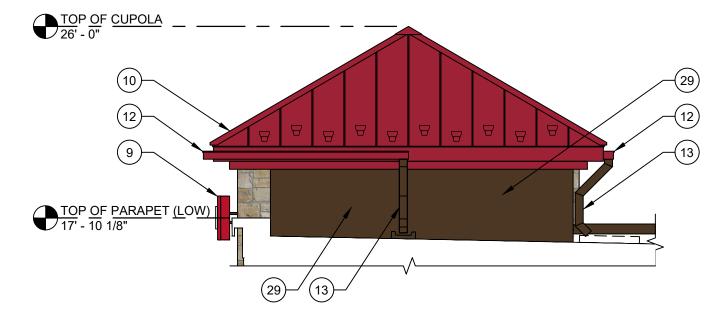
 RIGHT ELEVATION = 498 SQ FT

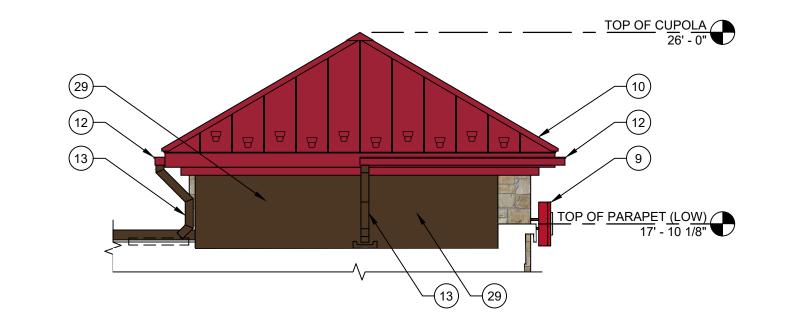
 DESCRIPTION
 AREA (SQ FT)
 % OF COVERAGE

 TRANSPARENT GLAZING BETWEEN
 54.94
 11.03%

 FAUX WINDOW GLAZING
 28.01
 5.62%

 TOTAL GLAZING
 82.95
 16.65%





5 CUPOLA ELEVATION FROM ROOF

6 CUPOLA ELEVATION FROM ROOF

Convenience Architecture and Design P.C.
351 Sheetz Way, Claysburg, PA 16625

phone (814) 239-6013 email tcolumbu@sheetz.com web site www.sheetz.com

PROJECT NAME:

NEW SHEETZ STORE

YPSILANTI S. HEWITT ROAD

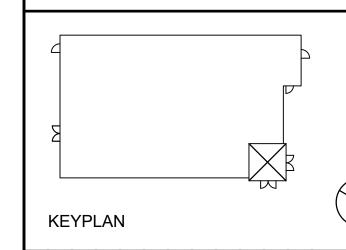
Int. of South Hewitt Road and Michigan Avenue Ypsilanti, MI

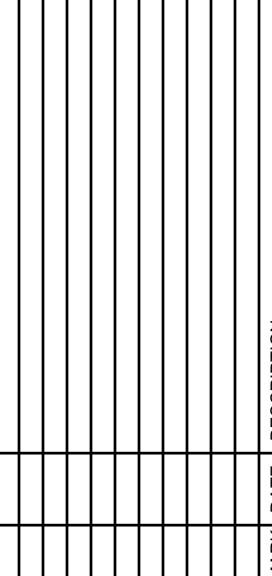
OWNER: SHEETZ, INC.

5700 SIXTH AVE. ALTOONA, PA 16602

CONSULTANT

PROFESSIONAL





ISSUE: 04.02.2024

SITE ID NO: 214556

AUTHOR BY: RJK, JNW

REVIEW BY: RJH

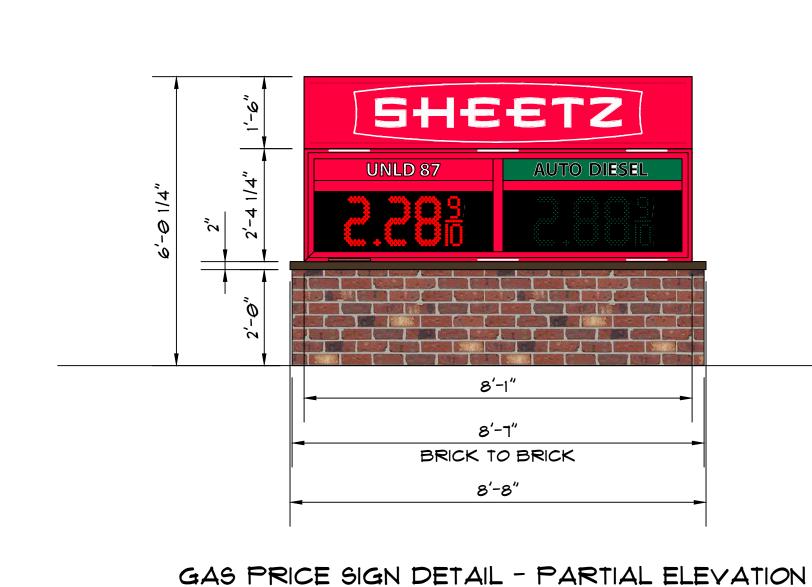
6132R_v1.6

PRELIMIN

VERSION:

EXTERIOR ELEVATIONS

A201



8'-7"

BRICK TO BRICK

SIGN CABINET

-8'-1" L × 3'-10"H × 24"D SIGN CABINET

PLAN VIEW

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

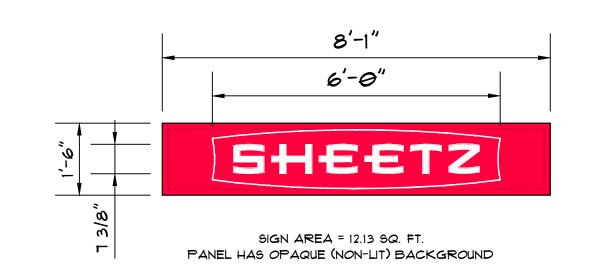
BRICK BASE BELOW —

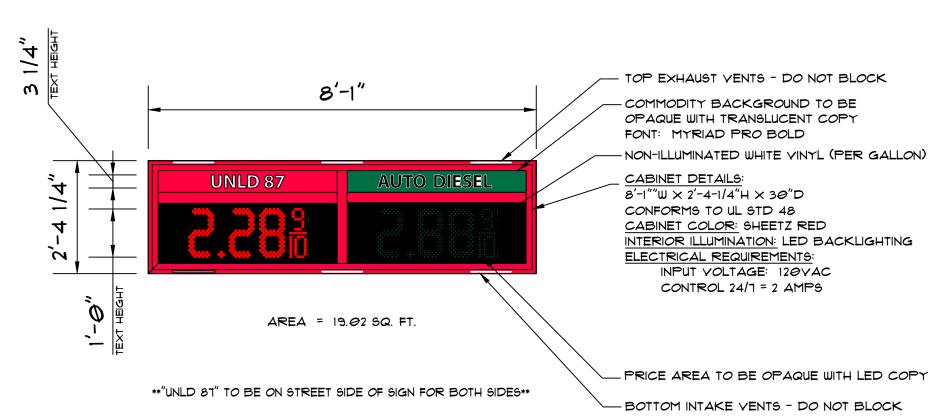
SCALE: 1/2" = 1'-0"

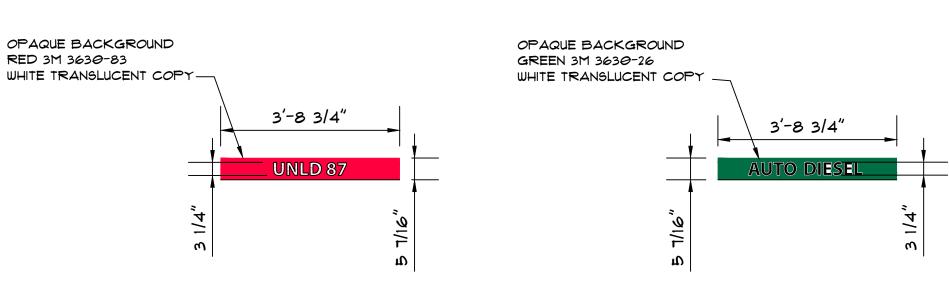
BRICK VENEER BASE TO MATCH BUILDING -

2'-0" 2'-0" 2'-6"

MONUMENT SIGN SIDE ELEVATION SCALE: 1/2"=1'-0"







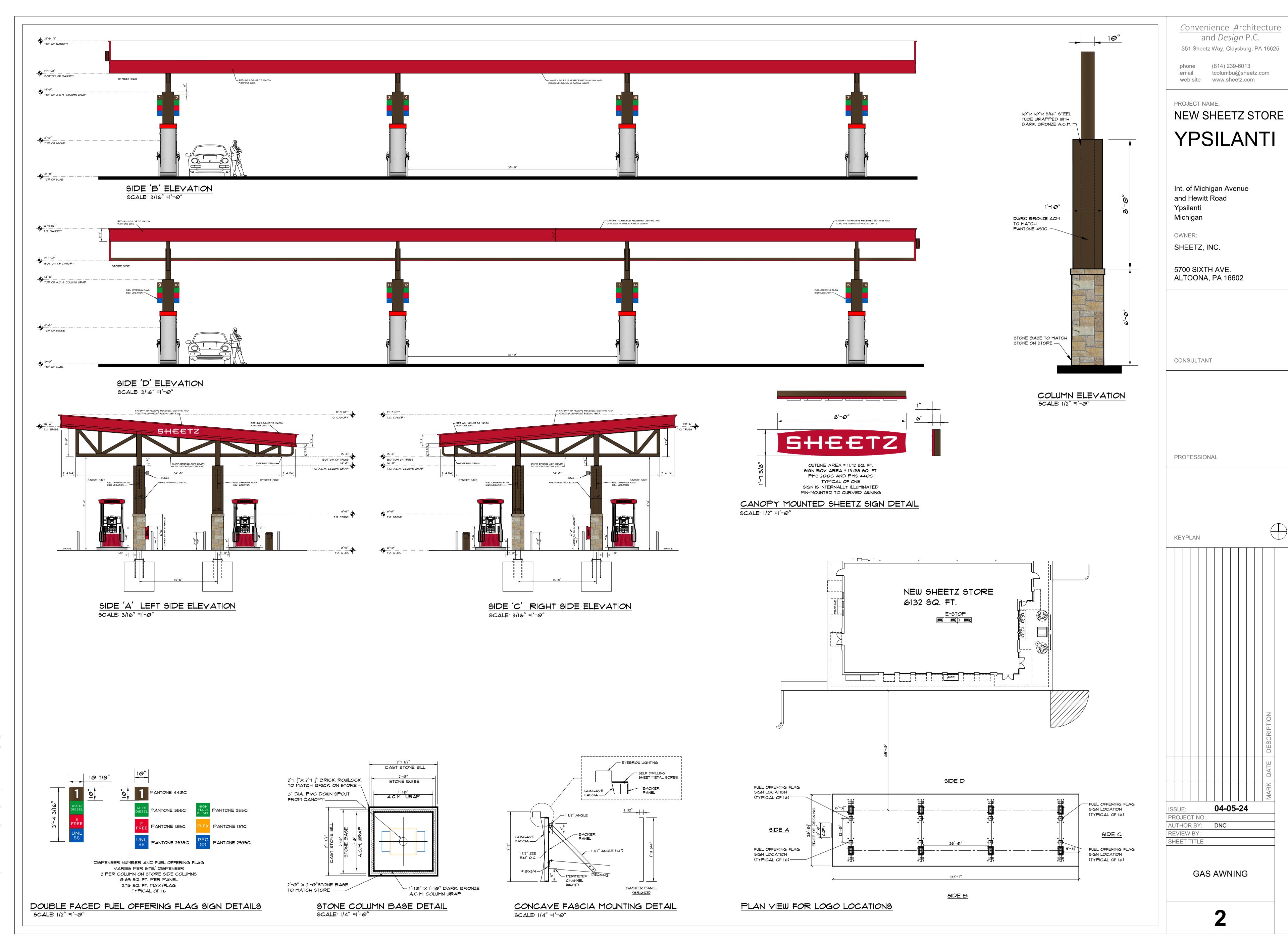
SIGN CABINET DETAILS TOTAL SIGN AREAS: 31.15 SQ. FT.

*SIGN IS TYPICAL OF TWO

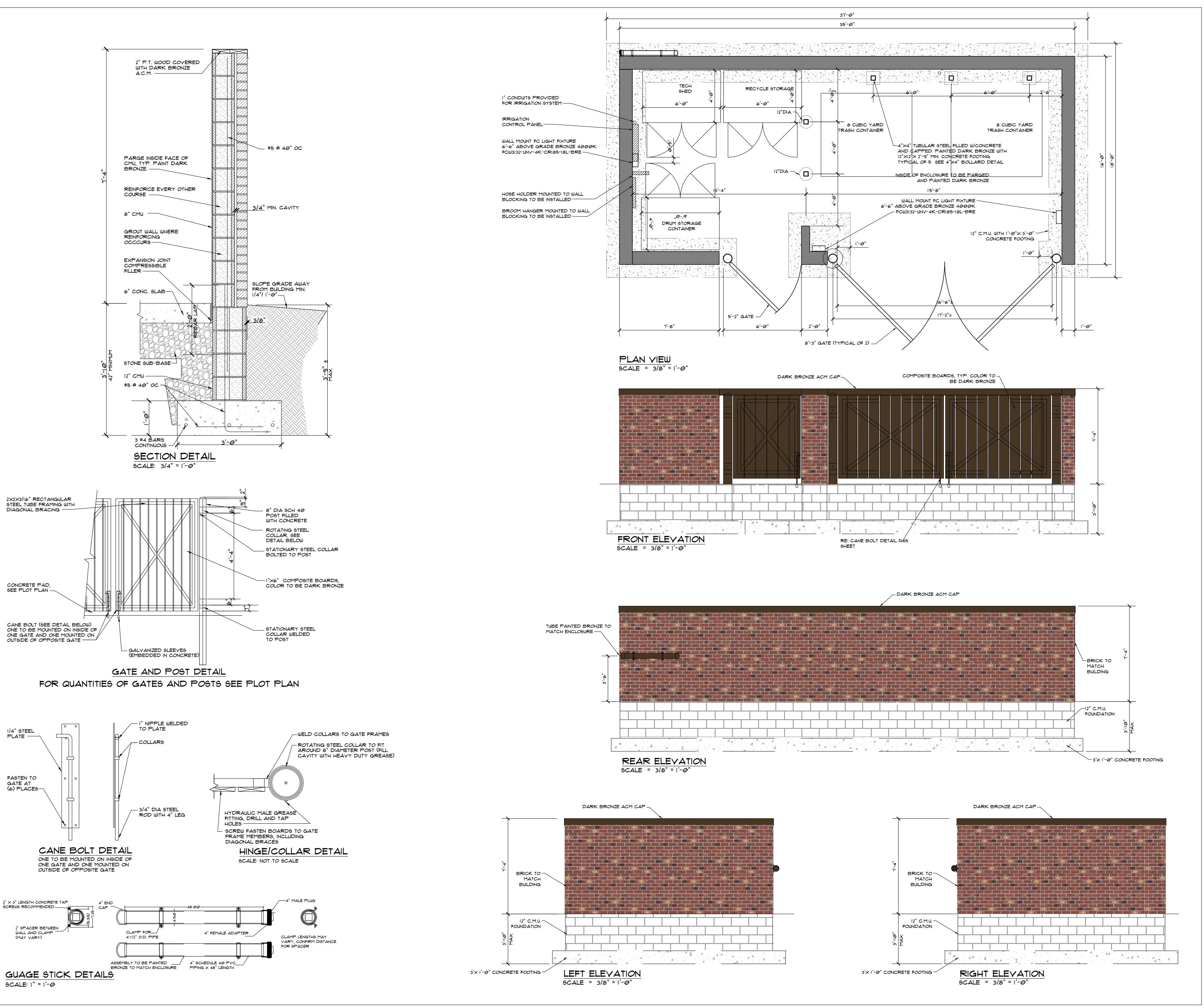
AREA: 31.15 SQ. FT.

Convenience Architecture and *Design* P.C. 351 Sheetz Way, Claysburg, PA 16625 phone (814) 239-6013 tcolumbu@sheetz.com web site www.sheetz.com PROJECT NAME: NEW SHEETZ STORE **YPSILANTI** Int. of Michigan Avenue and Hewitt Road Michigan SHEETZ, INC. 5700 SIXTH AVE. ALTOONA, PA 16602 CONSULTANT **PROFESSIONAL** KEYPLAN 04-05-24 PROJECT NO: AUTHOR BY: DNC **REVIEW BY:** SHEET TITLE MONUMENT SIGN

DETAILS



G:\Sites\under-contract\MI-214556-Ypsilanti-Hewitt Road\Sign Package\MI-Ypsilanti-Hewitt-awning.dwg, 4/5/2024 1:54:13



1/4" STEEL

PLATE -

FASTEN TO GATE AT

Convenience Architecture and *Design* P.C.

351 Sheetz Way, Claysburg, PA 16625

(814) 239-6013 phone tcolumbu@sheetz.com email www.sheetz.com

PROJECT NAME:

NEW SHEETZ STORE

YPSILANTI

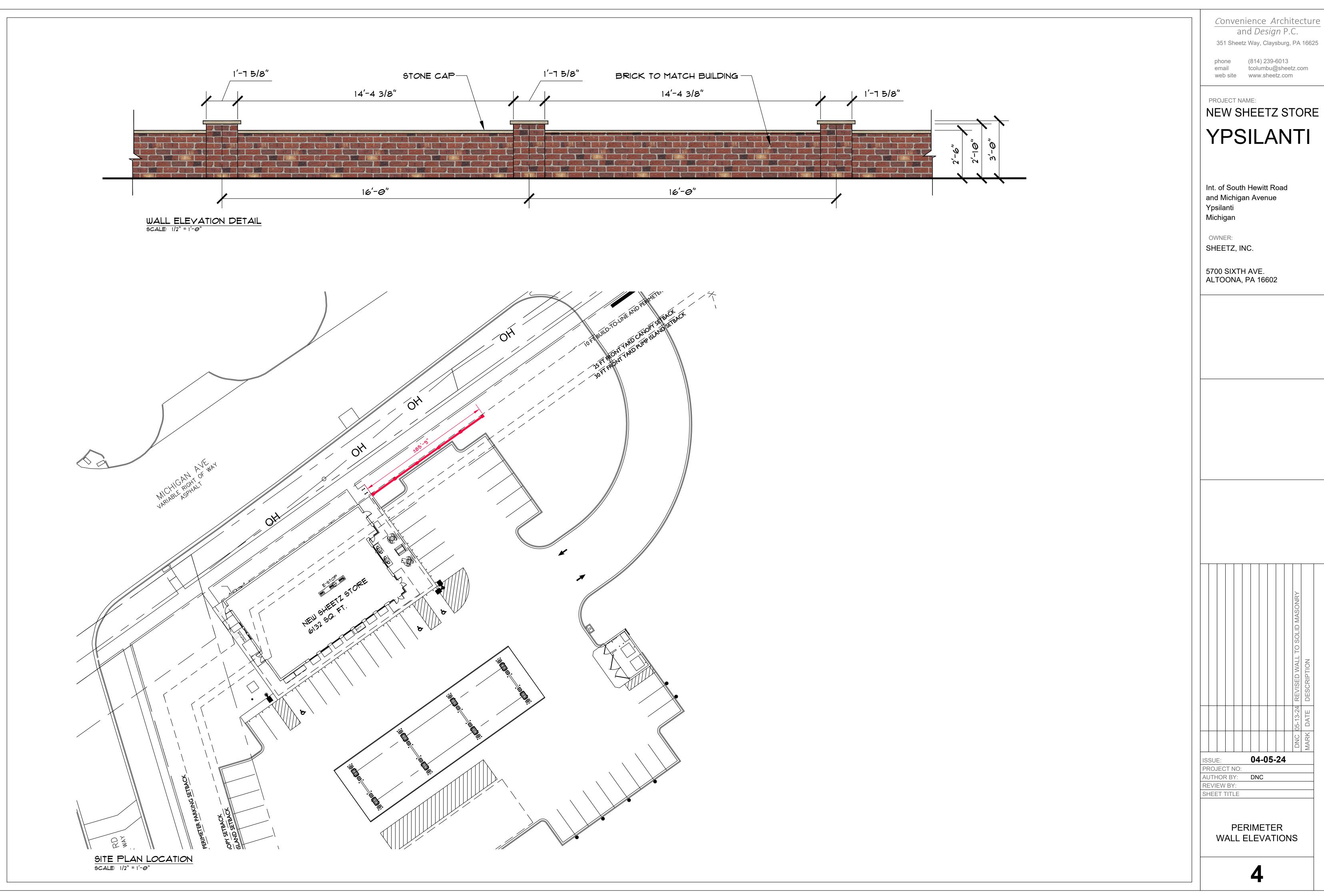
Int. of South Hewitt Road and Michigan Avenue Ypsilanti Michigan

OWNER:

SHEETZ, INC.

5700 SIXTH AVE. ALTOONA, PA 16602

04-05-24 ISSUE: PROJECT NO: AUTHOR BY: DNC REVIEW BY: SHEET TITLE TRASH **ENCLOSURE**



Convenience Architecture

SCALE: I" = 1000'±

LOCATION MAP

SITE DEVELOPMENT PLANS

FOR

SHEETZ

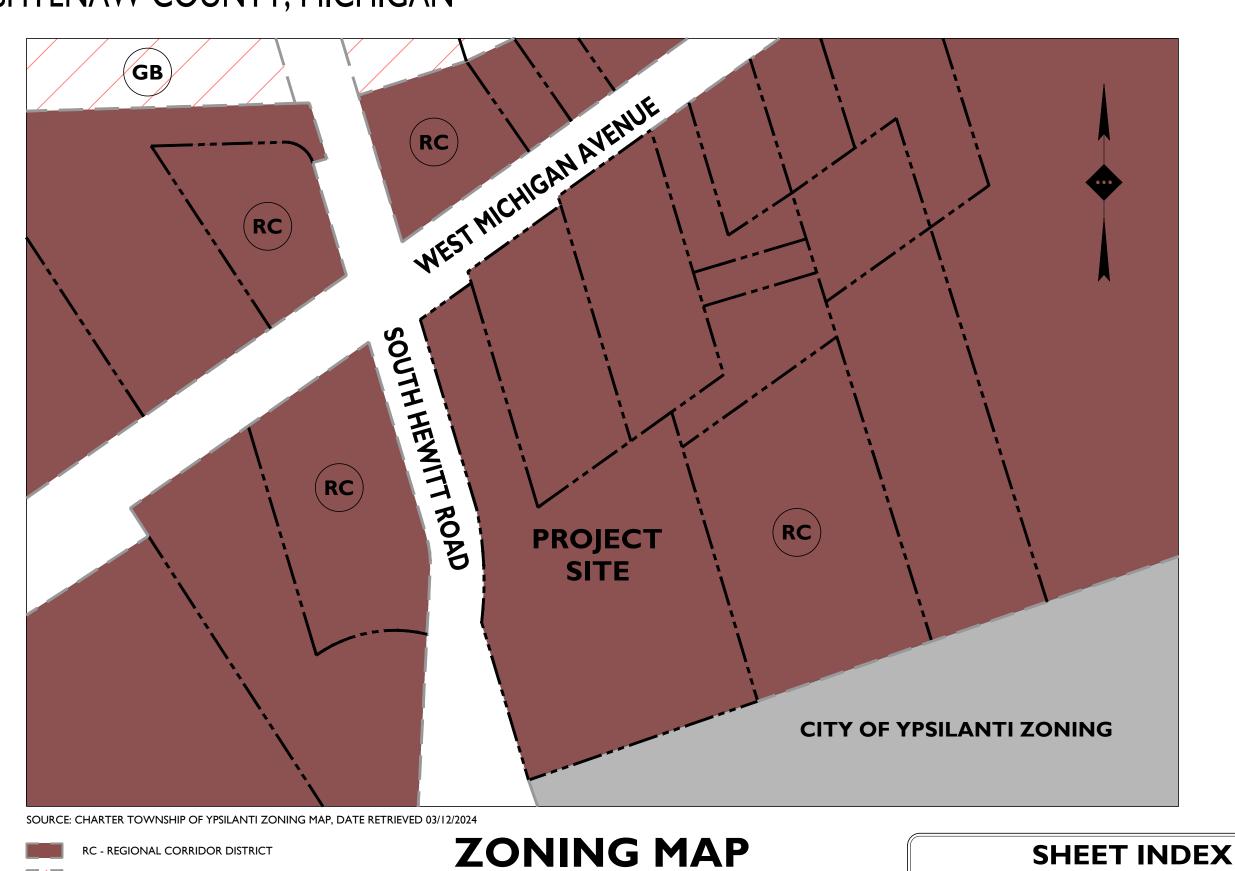
PROPOSED CONVENIENCE STORE AND FUEL SALES

PID: K11-39-350-022, K-11-39-350-023, K-11-18-100-019 2103 WEST MICHIGAN AVENUE CHARTER TOWNSHIP OF YPSILANTI, WASHTENAW COUNTY, MICHIGAN

PROJECT SOURCE: NEARMAP ONLINE MAPPING SYSTEM, DATE RETRIEVED 12/22/2023

AERIAL MAP

SCALE: $I'' = 150' \pm$



PLANS PREPARED BY:

PROJECT NARRATIVE:

THE PROJECT PROPOSES A 6,139 SF CONVENIENCE STORE (PERMITTED USE) AND RESTAURANT (PERMITTED USE) WITH FUEL SALES (SPECIAL LAND USE) AT THE SOUTHEAST CORNER OF WEST MICHIGAN AVENUE AND SOUTH HEWITT ROAD. THE SITE IS LOCATED WITHIN THE RC - REGIONAL CORRIDOR DISTRICT. THE BUILDING IS PROPOSED ALONG THE HARD CORNER, WITH THE FUEL CANOPY AND PUMPS TO THE SOUTH. PARKING IS PROVIDED WITHIN THE SIDE AND REAR YARDS; 62 SPACES ARE PROPOSED WHERE 60 ARE REQUIRED. OUTDOOR SEATING IS PROVIDED ALONG THE EASTERN FACADE OF THE BUILDING. LANDSCAPING IS PROPOSED TO SCREEN THE SITE FROM ABUTTING RIGHTS-OF-WAY AND RESIDENTIAL PROPERTIES. STORMWATER WILL BE DETAINED AND RELEASED TO THE EXISTING WETLANDS ON THE SOUTHERN PORTION OF





GB - GENERAL BUSINESS DISTRICT

Detroit, MI · New York, NY · Boston, MA Princeton, NJ · Tampa, FL · Rutherford, NJ www.stonefieldeng.com

607 Shelby Suite 200, Detroit, MI 48226 Phone 248.247.1115

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 12/08/23** ARCHITECTURAL PLANS PREPARED BY CONVENIENCE

SCALE: I" = 150'±

- ARCHITECTURE AND DESIGN P.C., DATED 12/08/2023
- **AERIAL MAP PROVIDED BY NEARMAP ONLINE MAPPING SYSTEM, DATE RETRIEVED 12/22/2023**
- LOCATION MAP PROVIDED BY USGS TOPOGRAPHICAL MAPS, DATED RETRIEVED 12/22/2023
- 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

SHEET INDEX						
DRAWING TITLE	SHEET#					
COVER SHEET	C-I					
DEMOLITION / TREE REMOVAL PLAN	C-2					
TREE REMOVAL PLAN & SITE PLAN OVERLAY	C-3					
TREE INVENTORY	C-4 & C-5					
SITE PLAN	C-6					
TRUCK CIRCULATION	C-7					
GRADING PLAN	C-9 & C-10					
STORMWATER MANAGEMENT PLAN	C-11 THRU C-13					
UTILITY PLAN	C-14					
LANDSCAPING PLAN	C-15 & C-16					
LANDSCAPING DETAILS	C-17					
SOIL EROSION & SEDIMENT CONTROL PLAN	C-18					
CONSTRUCTION DETAILS	C-19 THRU C-21					
STORMWATER MANAGEMENT CALCULATIONS	C-22					

SHEET INDEX		
RAWING TITLE	SHEET#	
LTA / NSPS LAND TITLE SURVEY	2 OF 2	

			REVISED FOR SITE PLAN REVIEW	FOR SITE PLAN REVIEW	FOR SITE PLAN REVIEW	DESCRIPTION
			КН	NB/JD	NB/JD	ВҮ
			06/12/2024	05/09/2024	04/09/2024	DATE
			3	2	-	ISSUE

APPLICANT

DRIBA@SKILKENGOLD.COM

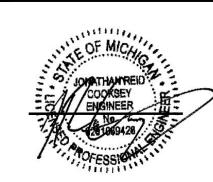
STONEFIELD ENGINEERING & DESIGN, LLC

ENGINEER

4270 MORSE ROAD COLUMBUS, OH 43230

NOT APPROVED FOR CONSTRUCTION





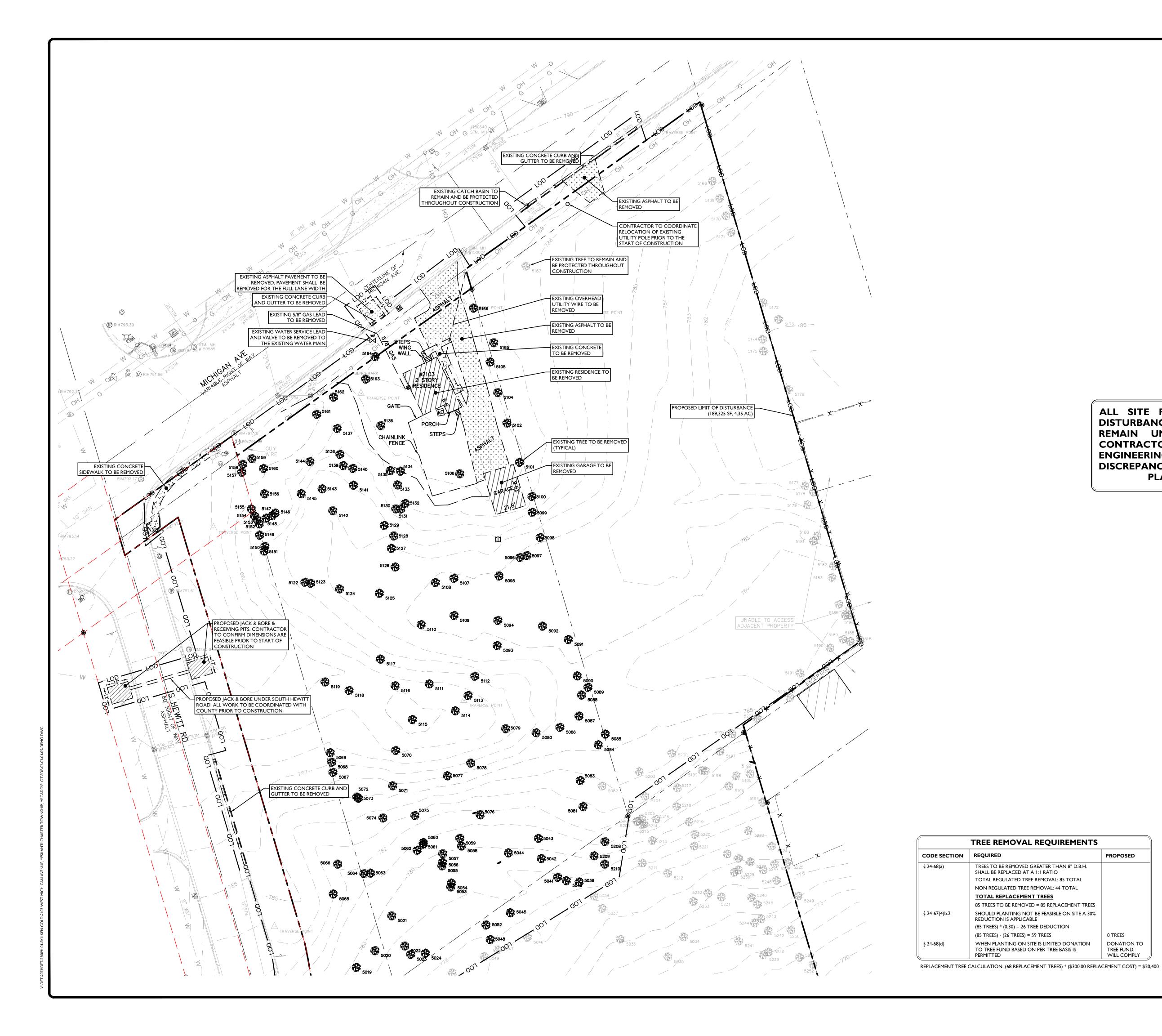


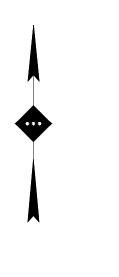
SCALE: AS SHOWN PROJECT ID: DET-230091.0

COVER SHEET

DRAWING:

C-I





SYMBOL

DESCRIPTION

FEATURE TO BE REMOVED / DEMOLISHED

LIMIT OF DISTURBANCE

CONCRETE TO BE REMOVED

ASPHALT TO BE REMOVED

TREE TO BE REMOVED

ALL SITE FEATURES WITHIN THE LIMIT OF DISTURBANCE INDICATED ON THIS PLAN ARE TO REMAIN UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL NOTIFY STONEFIELD **ENGINEERING & DESIGN, LLC. IF SIGNIFICANT** DISCREPANCIES ARE DISCERNED BETWEEN THIS PLAN AND FIELD CONDITIONS



DEMOLITION NOTES

DONATION TO

TREE FUND;

- 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.



					REVISED FOR SITE PLAN REVIEW	FOR SITE PLAN REVIEW	FOR SITE PLAN REVIEW	DESCRIPTION	
					КН	NB/JD	NB/JD	ВУ	
					06/12/2024	05/09/2024	04/09/2024	DATE	
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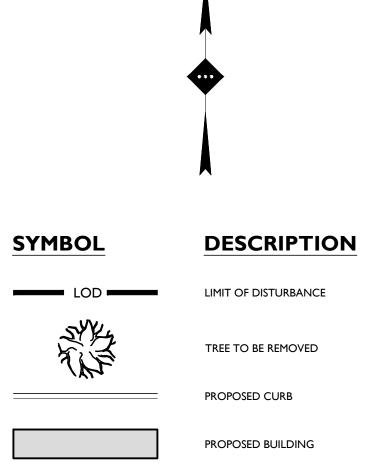


I" = 30' PROJECT ID: DET-230091.01

DEMOLITION / TREE REMOVAL PLAN

DRAWING:





PROPOSED CONCRETE

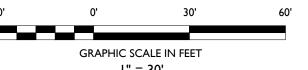
PROPOSED GRADING CONTOUR

ALL SITE FEATURES WITHIN THE LIMIT OF DISTURBANCE INDICATED ON THIS PLAN ARE TO REMAIN UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC. IF SIGNIFICANT DISCREPANCIES ARE DISCERNED BETWEEN THIS PLAN AND FIELD CONDITIONS



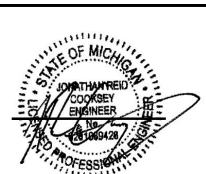
- I. THE WORK REFLECTED ON THE DEMOLITION PLAN IS TO PROVIDE GENERAL INFORMATION TOWARDS THE EXISTING ITEMS TO BE DEMOLISHED AND/OR REMOVED. THE CONTRACTOR IS RESPONSIBLE
- 2. THE CONTRACTOR IS RESPONSIBLE TO DETERMINE THE MEANS AND METHODS OF DEMOLITION ACTIVITIES.
 3. EXPLOSIVES SHALL NOT BE USED UNLESS 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.
- 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
- 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



					REVISED FOR SITE PLAN REVIEW	FOR SITE PLAN REVIEW	FOR SITE PLAN REVIEW	DESCRIPTION
					КН	NB/JD	NB/JD	ВҮ
					06/12/2024	05/09/2024	04/09/2024	DATE
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NOT APPROVED FOR CONSTRUCTION





I" = 30' PROJECT ID: DET-230091.01

TREE REMOVAL PLAN & SITE PLAN OVERLAY

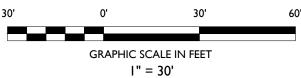
DRAWING:

DEMOLITION NOTES

DONATION TO TREE FUND;

TO REVIEW THE ENTIRE PLAN SET AND ASSOCIATED REPORTS/REFERENCE DOCUMENTS INCLUDING ALL DEMOLITION ACTIVITIES AND INCIDENTAL TASKS NECESSARY TO COMPLETE THE SITE IMPROVEMENTS.

MATERIAL WAS COMPACTED TO A SUITABLE CONDITION. COMPLIANCE WITH THE ABOVE REGULATIONS.

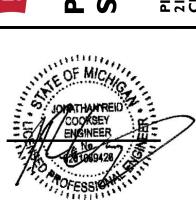


#	d.b.h.	Сапору	est Michigan Avenu				(N) Not Regulated (s = size, sp = species, c =	Historic (H)	
	(inches)	Radius (feet)	Botanical Name	Common Name	Condition	Comments	condition)	Specimen (S)	Reccomendation
4992	14	15	Juglans spp.	Walnut	poor	- Extensive rot/hollow @ crotch	N (c)		To Remain
4993	9/7	9	Catalpa speciosa	Northern Catalpa	fair	- Contorted crown			To Remain
4994	13	14	Populus deltoides	Cottonwood	fair	- Dead branch(es)			To Remain
4995	14	15	Populus deltoides	Cottonwood	fair	- Bent/crooked/bowed leader			To Remain
4996	10	11	Ulmus pumila	Siberian Elm	fair	- Bent/crooked/bowed leader			To Remain
4997	15	16	Populus deltoides	Cottonwood	fair	- I-sided crown			To Remain
4998	10	П	Populus deltoides	Cottonwood	fair	- I-sided crown			To Remain
4999	7	7	Salix spp.	Willow	poor	- HAZARD - Broken trunk/leader	N (s, c)		To Remain
5000	13	14	Populus deltoides	Cottonwood	fair	- Bent/crooked/bowed leader	14 (3, 2)		To Remain
			•						
5001	14	15	Populus deltoides	Cottonwood	fair	- Dead branch(es)			To Remain
5002	13	14	Populus deltoides	Cottonwood	fair	- Contorted crown			To Remain
5003	16	17	Juglans spp.	Walnut	fair	- Dead branch(es)			To Remain
5004	18	19	Juglans spp.	Walnut	good				To Remain
5005	17 / 15	18	Morus spp.	Mulberry	poor	- Lean > 45 degrees	N (c)		To Remain
5006	23		_		dead		N (c)		To Remain
5007	17	18	Morus spp.	Mulberry	fair	- Contorted crown			To Remain
5008	33	10	Populus deltoides	Cottonwood	poor	- 75% or more dead	N (c)		To Remain
5009	8	8	Juglans spp.	Walnut	' fair	- Dead branch(es)	()		To Remain
	9					` ′			
5010		9	Catalpa speciosa	Northern Catalpa	fair	- Dead branch(es)			To Remain
5011	9	9	Ulmus spp.	Elm	good				To Remain
5012	10	11	Juglans spp.	Walnut	fair	- Dead branch(es)			To Remain
5013	8/4	8	Juglans spp.	Walnut	fair	- Contorted crown			To Remain
5014	8	8	Juglans spp.	Walnut	fair	- Dead branch(es)			To Remain
5015	7/6	7	Juglans spp.	Walnut	fair	- 'V'-shaped crotch(es)	N (s)		To Remain
5016	15	5	Malus spp.	Apple / Crabapple	poor	- 75% or more dead	N (c)		To Remain
5017	7	7	Juglans spp.	Walnut	good		N (s)		To Remain
	-					C	14 (2)		
5018	11	12	Acer negundo	Boxelder	fair	- Contorted crown			To Be Remove
5019	9	9	Juglans spp.	Walnut	fair	- Dead branch(es)			To Be Remove
5020	10	П	Juglans spp.	Walnut	fair	- Bent/crooked/bowed leader			To Be Remove
5021	21	22	Juglans spp.	Walnut	fair	- Dead branch(es)			To Be Remove
5022	10	П	Juglans spp.	Walnut	fair	- Dead branch(es)			To Be Remove
5023	10	11	Tilia americana	American Linden	good	, ,			To Be Remove
5024	26	20	Prunus serotina	Black Cherry	poor	- 50% or more dead	N (c)		To Be Remove
5025	8	8		,	•	- Bent/crooked/bowed leader	11 (c)		To Remain
			Prunus spp.	Cherry	fair				
5026	9	9	Juglans spp.	Walnut	fair	- Contorted crown			To Remain
5027	26	27	Prunus serotina	Black Cherry	fair	- Dead branch(es)			To Remain
5028	9	9	Juglans spp.	Walnut	fair	- Bent/crooked/bowed leader			To Remain
5029	8	8	Juglans spp.	Walnut	fair	- Bent/crooked/bowed leader			To Remain
5030	9	9	Catalpa speciosa	Northern Catalpa	fair	- Dead branch(es)			To Remain
5031	9	9	 Juglans spp.	Walnut	good	, ,			To Remain
5032	12	13	Catalpa speciosa	Northern Catalpa	fair	- Contorted crown			To Remain
5033	11	10	Juglans spp.	Walnut	poor	- Split(ting)/break(ing) apart	N (c)		To Remain
						- Spire(ung)/bi eak(ing) apart	IV (C)		
5034	10	II.	Juglans spp.	Walnut	good				To Remain
5035	8	8	Juglans spp.	Walnut	good				To Remain
5036	9	9	Juglans spp.	Walnut	good				To Remain
5037	22	23	Prunus serotina	Black Cherry	poor	- 50% or more dead	N (c)		To Remain
5038	18	19	Ulmus spp.	Elm	fair	- I-sided crown			To Remain
5039	12	13	Ulmus spp.	Elm	fair	- Contorted crown			To Be Removed
5040	18	15	Prunus serotina	Black Cherry	poor	- Split(ting)/break(ing) apart	N (c)		To Be Removed
5041	14	15	Prunus serotina	Black Cherry	 fair	- Dead branch(es)	()		To Be Removed
5042	8	8	Juglans spp.	Walnut	fair	- Dead branch(es)			To Be Remove
						` ′			
5043	12/6	13	Juglans spp.	Walnut	fair	- Contorted crown			To Be Remove
5044	12/9	13	Juglans spp.	Walnut	poor	- Split(ting)/break(ing) apart	N (c)		To Be Remove
5045	14/7	15	Ulmus spp.	Elm	fair	- Contorted crown			To Be Removed
5046	10	П	Prunus serotina	Black Cherry	fair	- Bent/crooked/bowed leader			To Remain
5047	8	8	Prunus serotina	Black Cherry	fair	- Bent/crooked/bowed leader			To Remain
5048	12	13	Prunus serotina	Black Cherry	poor	- Extensive rot & dead branches	N (c)		
	17	18	Prunus serotina	,	<u>'</u>		(-)		To Be Removed
5049			LLAHAS SCLOUNG	Black Cherry	poor	- Extensive rot & dead branches	N (c)		To Be Removed
		, ,		•	<u>'</u>		N (c)		To Remain
5050	11	5	Prunus serotina	Black Cherry	poor	- 75% or more dead	` ,		To Remain To Remain
5050 5051	12	13	Prunus serotina Prunus serotina	Black Cherry Black Cherry	poor fair	- 75% or more dead - Bent/crooked/bowed leader	N (c)		To Remain To Remain To Remain
5050 5051 5052	12	13	Prunus serotina Prunus serotina Acer negundo	Black Cherry Black Cherry Boxelder	poor fair poor	- 75% or more dead - Bent/crooked/bowed leader arger trunk(s) dead & substantial	N (c)		To Remain To Remain To Remain To Be Remove
5050 5051 5052 5053	12 21/9/9 10	13	Prunus serotina Prunus serotina	Black Cherry Black Cherry	poor fair poor fair	- 75% or more dead - Bent/crooked/bowed leader	N (c) N (c) N (c)		To Remain To Remain To Remain To Be Removed
5050 5051 5052	12	13	Prunus serotina Prunus serotina Acer negundo Prunus spp. —	Black Cherry Black Cherry Boxelder	poor fair poor	- 75% or more dead - Bent/crooked/bowed leader arger trunk(s) dead & substantial	N (c)		To Remain To Remain To Remain To Be Removed To Be Removed To Be Removed
5050 5051 5052 5053	12 21/9/9 10	13 10	Prunus serotina Prunus serotina Acer negundo	Black Cherry Black Cherry Boxelder	poor fair poor fair	- 75% or more dead - Bent/crooked/bowed leader arger trunk(s) dead & substantial	N (c) N (c) N (c)		To Remain To Remain To Remain To Be Removed To Be Removed To Be Removed
5050 5051 5052 5053 5054	12 21/9/9 10 8	13 10 11	Prunus serotina Prunus serotina Acer negundo Prunus spp. —	Black Cherry Black Cherry Boxelder Cherry	poor fair poor fair dead	- 75% or more dead - Bent/crooked/bowed leader arger trunk(s) dead & substantial - Vine-choked	N (c) N (c) N (c)		To Remain To Remain To Remain To Be Removed To Be Removed To Be Removed To Be Removed
5050 5051 5052 5053 5054 5055	12 21/9/9 10 8 8	13 10 11 8	Prunus serotina Prunus serotina Acer negundo Prunus spp. — Acer negundo	Black Cherry Black Cherry Boxelder Cherry Boxelder	poor fair poor fair dead fair	- 75% or more dead - Bent/crooked/bowed leader arger trunk(s) dead & substantial - Vine-choked - Contorted crown	N (c) N (c) N (c)		To Remain To Remain To Remain To Be Removed
5050 5051 5052 5053 5054 5055 5056	12 21/9/9 10 8 8 8	13 10 11 8 8	Prunus serotina Prunus serotina Acer negundo Prunus spp. — Acer negundo Acer negundo	Black Cherry Black Cherry Boxelder Cherry Boxelder Boxelder	poor fair poor fair dead fair fair	- 75% or more dead - Bent/crooked/bowed leader arger trunk(s) dead & substantial - Vine-choked - Contorted crown - Bent/crooked/bowed leader	N (c) N (c) N (c) N (c) N (c)		To Remain To Remain To Remain To Be Removed
5050 5051 5052 5053 5054 5055 5056 5057	12 21/9/9 10 8 8 8 8	13 10 11 8 8 8	Prunus serotina Prunus serotina Acer negundo Prunus spp. — Acer negundo Acer negundo Prunus spp. — — — — — — — — — — — — — — — — — —	Black Cherry Black Cherry Boxelder Cherry Boxelder Boxelder Cherry	poor fair poor fair dead fair fair poor dead	- 75% or more dead - Bent/crooked/bowed leader arger trunk(s) dead & substantial - Vine-choked - Contorted crown - Bent/crooked/bowed leader - 75% or more dead	N (c)		To Remain To Remain To Remain To Remain To Be Removed
5050 5051 5052 5053 5054 5055 5056 5057 5058	12 21/9/9 10 8 8 8 8 8	13 10 11 8 8 8 8	Prunus serotina Prunus serotina Acer negundo Prunus spp. — Acer negundo Acer negundo Prunus spp. — Prunus spp.	Black Cherry Black Cherry Boxelder Cherry Boxelder Boxelder Cherry Cherry	poor fair poor fair dead fair fair poor dead poor	- 75% or more dead - Bent/crooked/bowed leader arger trunk(s) dead & substantial - Vine-choked - Contorted crown - Bent/crooked/bowed leader - 75% or more dead - 50% or more dead	N (c) N (c) N (c) N (c) N (c)		To Remain To Remain To Remain To Remain To Be Removed
5050 5051 5052 5053 5054 5055 5056 5057 5058 5059 5060	12 21/9/9 10 8 8 8 8 8 9/9/7	13 10 11 8 8 8 8 9	Prunus serotina Prunus serotina Acer negundo Prunus spp. — Acer negundo Acer negundo Prunus spp. — Prunus spp. Ulmus spp.	Black Cherry Black Cherry Boxelder Cherry Boxelder Boxelder Cherry Cherry Elm	poor fair poor fair dead fair fair poor dead poor fair	- 75% or more dead - Bent/crooked/bowed leader arger trunk(s) dead & substantial - Vine-choked - Contorted crown - Bent/crooked/bowed leader - 75% or more dead - 50% or more dead - Contorted crown	N (c)		To Remain To Remain To Remain To Remain To Be Removed
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5050 5051 5052 5053 5054 5055 5056 5057 5058 5059 5060	12 21/9/9 10 8 8 8 8 8 9/9/7 9	13 10 11 8 8 8 8 9	Prunus serotina Prunus serotina Acer negundo Prunus spp. — Acer negundo Acer negundo Prunus spp. — Prunus spp. Ulmus spp.	Black Cherry Black Cherry Boxelder Cherry Boxelder Boxelder Cherry Cherry Elm	poor fair poor fair dead fair fair poor dead poor fair	- 75% or more dead - Bent/crooked/bowed leader arger trunk(s) dead & substantial - Vine-choked - Contorted crown - Bent/crooked/bowed leader - 75% or more dead - 50% or more dead - Contorted crown	N (c)		To Remain To Remain To Remain To Remain To Be Remove
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5050 5051 5052 5053 5054 5055 5056 5057 5058 5059 5060 5061 5062 5063	12 21/9/9 10 8 8 8 8 8 9/9/7 9 8 11	13 10 11 8 8 8 8 9 9 9	Prunus serotina Prunus serotina Acer negundo Prunus spp. — Acer negundo Acer negundo Prunus spp. — Prunus spp. Ulmus spp. Populus deltoides — —	Black Cherry Black Cherry Boxelder Cherry Boxelder Boxelder Cherry Cherry Elm Cottonwood	poor fair poor fair dead fair fair poor dead poor fair poor dead dead dead	- 75% or more dead - Bent/crooked/bowed leader arger trunk(s) dead & substantial - Vine-choked - Contorted crown - Bent/crooked/bowed leader - 75% or more dead - Contorted crown - 50% or more dead	N (c)		To Remain To Remain To Remain To Remain To Be Removed
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I KEE 30	JKVET CO	JMPLETEL	J BY KEM-	IEC SUKVE	YING DATE	:1) 9/29/202

5081 5082 5083 5084	H		1 , ,	3.4.7.1		B 11 1()		
5083	_	12	Juglans spp.	Walnut	fair	- Dead branch(es)		To Be Removed
	9	9	Juglans spp.	Walnut	fair	- Bent/crooked/bowed leader		To Remain
5084	9	9	Juglans spp.	Walnut	fair	- Bent/crooked/bowed leader		To Be Removed
	9	9	Juglans spp.	Walnut	good			To Be Removed
5085	7	7	Juglans spp.	Walnut	good		N (s)	To Be Removed
5086	14/4	15	Juglans spp.	Walnut	fair	- Smaller trunk(s) dead	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	To Be Removed
5087	10/8		Catalpa speciosa	Northern Catalpa	fair fair	- Contorted crown		To Be Removed
			<u> </u>	•		- Contorted crown		
880	8	8	Juglans spp.	Walnut	good			To Be Removed
089	24	20	Prunus serotina	Black Cherry	poor	- 50% or more dead	N (c)	To Be Removed
090	20	15	Prunus serotina	Black Cherry	poor	- 50% or more dead	N (c)	To Be Removed
091	21	22	Juglans spp.	Walnut	good	+		To Be Removed
						B. 1		
092	9	9	Juglans spp.	Walnut	fair	- Broken branch(es)		To Be Removed
093	22	20	Prunus serotina	Black Cherry	fair	- Dead branch(es)		To Be Removed
5094	25	26	Prunus serotina	Black Cherry	fair	- Rot in trunk		To Be Removed
5095	32	34	Prunus serotina	Black Cherry	fair	- Dead branch(es)		To Be Removed
	,			,		,	NI/)	
5096	28	25	Prunus serotina	Black Cherry	poor	- 50% or more dead	N (c)	To Be Removed
5097	27	25	Prunus serotina	Black Cherry	poor	- Extensive rot & dead branches	N (c)	To Be Removed
5098	8	8	Juglans spp.	Walnut	fair	- Bent/crooked/bowed leader		To Be Removed
5099	16 / 10 /	10	Acer negundo	Boxelder	poor	- Split(ting)/break(ing) apart	N (c)	To Be Removed
5100	17/9	18	Acer negundo	Boxelder	•	- Extensive rot & dead branches		To Be Removed
			-		poor		N (c)	
5101	12	13	Morus spp.	Mulberry	fair	- Contorted crown		To Be Removed
5102	10	11	Juglans spp.	Walnut	fair	- I-sided crown		To Be Removed
5103	23	24	Ulmus spp.	Elm	fair	- Dead branch(es)		To Remain
5104	11/11	12	Morus spp.	Mulberry	poor	- Extensive rot & dead branches	N (c)	To Be Removed
	,		<u> </u>	•	poor		· · · · · · · · · · · · · · · · · · ·	
5105	7	7	Morus spp.	Mulberry	fair	- Contorted crown	N (s)	To Be Removed
5106	10	11	Acer platanoides	Norway Maple	good			To Be Removed
5107	П	12	Juglans spp.	Walnut	good			To Be Removed
5108	10	11	Juglans spp.	Walnut	fair	- Broken branch(es)		To Be Removed
						- Di Okeli Di alicii(es)		
5109	11	12	Celtis occidentalis	Hackberry	good			To Be Removed
5110	29	25	Prunus serotina	Black Cherry	poor	- 50% or more dead	N (c)	To Be Removed
5111	28	20	Prunus serotina	Black Cherry	poor	- Extensive rot & dead branches	N (c)	To Be Removed
5112	26	20	Prunus serotina	Black Cherry	•	- 50% or more dead	N (c)	To Be Removed
	_		riulius seround	•	poor	- 50% OF HIOTE dead		
5113	10		_		dead		N (c)	To Be Removed
5114	10/4/2	П	Ulmus spp.	Elm	fair	- Contorted crown		To Be Removed
5115	18	10	Prunus serotina	Black Cherry	poor	- 75% or more dead	N (c)	To Be Removed
5116	14	15	Pseudotsuga menziesii	Douglasfir	fair	ower/shaded branches dead/missing	.,	To Be Removed
5117	9	9	Juglans spp.	Walnut	fair 	- Contorted crown		To Be Removed
5118	12	13	Juglans spp.	Walnut	good			To Be Removed
5119	8	5	Ulmus pumila	Siberian Elm	poor	- 50% or more dead	N (c)	To Be Removed
5120	12 /		<u>, </u>		dead	+	N (c)	To Be Removed
	_					11-11 /	· · ·	
5121	49	45	Acer saccharinum	Silver Maple	poor	- Hollow/extensive rot	N (c)	To Remain
5122	12 / 12	13	Juglans spp.	Walnut	fair	- Contorted crown		To Be Removed
5123	13	14	Juglans spp.	Walnut	fair	- Leaning		To Be Removed
5124	13	14	Juglans spp.	Walnut	fair	- Bent/crooked/bowed leader		To Be Removed
5125	8/7	8	Acer platanoides	Norway Maple	fair	- Contorted crown		To Be Removed
5126	8	8	Juglans spp.	Walnut	fair	- Contorted crown		To Be Removed
5127	8	5	Juglans spp.	Walnut	poor	- 50% or more dead	N (c)	To Be Removed
5128	13 / 13 / 11	14	Juglans spp.	Walnut	 fair	- 'V'-shaped crotch(es)	· · · · · · · · · · · · · · · · · · ·	To Be Removed
						. , ,		
5129	12	13	Juglans spp.	Walnut	fair	- I-sided crown		To Be Removed
5130	9	9	Juglans spp.	Walnut	fair	- Dead branch(es)		To Be Removed
5131	П	12	Juglans spp.	Walnut	good			To Be Removed
5132	8/7/3	8		Mulberry	fair	- Smaller trunk(s) dead		To Be Removed
			Morus spp.	*		` '		
5133	7/4	7	Acer negundo	Boxelder	fair	- Contorted crown	N (s)	To Be Removed
	8	8	l	Black Cherry	fair	- I-sided crown		To Be Removed
5134			Prunus serotina					TO BE REMOVED
	8	8		Black Cherry	fair	- Leaning		
5135	8	8	Prunus serotina	Black Cherry	fair	- Leaning	N (c)	To Be Removed
5135 5136	31/21	33	Prunus serotina Morus spp.	Mulberry	poor	- Split(ting)/break(ing) apart	N (c)	To Be Removed To Be Removed
5135			Prunus serotina	,			N (c)	To Be Removed
5135 5136 5137	31/21	33	Prunus serotina Morus spp.	Mulberry	poor	- Split(ting)/break(ing) apart	N (c)	To Be Removed To Be Removed
5135 5136 5137 5138	31 / 21	33 13 8	Prunus serotina Morus spp. Acer platanoides Ulmus spp.	Mulberry Norway Maple	poor fair	- Split(ting)/break(ing) apart - Leaning	N (c)	To Be Removed To Be Removed To Be Removed
5135 5136 5137 5138 5139	31 / 21 12 8 8	33 13 8 8	Prunus serotina Morus spp. Acer platanoides Ulmus spp. Ulmus pumila	Mulberry Norway Maple Elm Siberian Elm	poor fair fair fair	- Split(ting)/break(ing) apart - Leaning - Contorted crown - Extensive rot & dead branches	N (c)	To Be Removed
5135 5136 5137 5138 5139 5140	31 / 21 12 8 8 14 / 8	33 13 8 8 15	Prunus serotina Morus spp. Acer platanoides Ulmus spp. Ulmus pumila Morus spp.	Mulberry Norway Maple Elm	poor fair fair fair fair	- Split(ting)/break(ing) apart - Leaning - Contorted crown		To Be Removed
5135 5136 5137 5138 5139 5140	31 / 21 12 8 8	33 13 8 8 15	Prunus serotina Morus spp. Acer platanoides Ulmus spp. Ulmus pumila	Mulberry Norway Maple Elm Siberian Elm Mulberry	poor fair fair fair	- Split(ting)/break(ing) apart - Leaning - Contorted crown - Extensive rot & dead branches - Contorted crown	N (c)	To Be Removed
5135 5136 5137 5138	31 / 21 12 8 8 14 / 8	33 13 8 8 15	Prunus serotina Morus spp. Acer platanoides Ulmus spp. Ulmus pumila Morus spp.	Mulberry Norway Maple Elm Siberian Elm Mulberry	poor fair fair fair fair	- Split(ting)/break(ing) apart - Leaning - Contorted crown - Extensive rot & dead branches		To Be Removed
5135 5136 5137 5138 5139 5140 5141 5142	31 / 21 12 8 8 14 / 8 8 / 8 / 6 /	33 13 8 8 15	Prunus serotina Morus spp. Acer platanoides Ulmus spp. Ulmus pumila Morus spp. — Juglans spp.	Mulberry Norway Maple Elm Siberian Elm Mulberry	poor fair fair fair fair dead	- Split(ting)/break(ing) apart - Leaning - Contorted crown - Extensive rot & dead branches - Contorted crown		To Be Removed
5135 5136 5137 5138 5139 5140 5141 5142 5143	31/21 12 8 8 14/8 8/8/6/	33 13 8 8 15 12	Prunus serotina Morus spp. Acer platanoides Ulmus spp. Ulmus pumila Morus spp. — Juglans spp. Juglans spp.	Mulberry Norway Maple Elm Siberian Elm Mulberry Walnut Walnut	poor fair fair fair dead fair fair	- Split(ting)/break(ing) apart - Leaning - Contorted crown - Extensive rot & dead branches - Contorted crown - Contorted crown - Dead branch(es)		To Be Removed
5135 5136 5137 5138 5139 5140 5141 5142 5143 5144	31 / 21 12 8 8 14 / 8 8 / 8 / 6 / 11 11	33 13 8 8 15 12 12	Prunus serotina Morus spp. Acer platanoides Ulmus spp. Ulmus pumila Morus spp. — Juglans spp. Juglans spp. Juglans spp. Juglans spp.	Mulberry Norway Maple Elm Siberian Elm Mulberry Walnut Walnut Walnut	poor fair fair fair dead fair fair	- Split(ting)/break(ing) apart - Leaning - Contorted crown - Extensive rot & dead branches - Contorted crown - Contorted crown - Dead branch(es) - Bent/crooked/bowed leader		To Be Removed
5135 5136 5137 5138 5139 5140 5141 5142 5143 5144 5145	31/21 12 8 8 14/8 8/8/6/ 11 13 8	33 13 8 8 8 15 12 12 14 8	Prunus serotina Morus spp. Acer platanoides Ulmus spp. Ulmus pumila Morus spp. — Juglans spp. Juglans spp. Juglans spp. Juglans spp. Juglans spp.	Mulberry Norway Maple Elm Siberian Elm Mulberry Walnut Walnut Walnut Walnut Walnut	poor fair fair fair dead fair fair	- Split(ting)/break(ing) apart - Leaning - Contorted crown - Extensive rot & dead branches - Contorted crown - Contorted crown - Dead branch(es) - Bent/crooked/bowed leader - Bent/crooked/bowed leader	N (c)	To Be Removed
5135 5136 5137 5138 5139 5140 5141 5142 5143 5144 5145	31 / 21 12 8 8 14 / 8 8 / 8 / 6 / 11 11	33 13 8 8 15 12 12	Prunus serotina Morus spp. Acer platanoides Ulmus spp. Ulmus pumila Morus spp. — Juglans spp. Juglans spp. Juglans spp. Juglans spp.	Mulberry Norway Maple Elm Siberian Elm Mulberry Walnut Walnut Walnut	poor fair fair fair dead fair fair	- Split(ting)/break(ing) apart - Leaning - Contorted crown - Extensive rot & dead branches - Contorted crown - Contorted crown - Dead branch(es) - Bent/crooked/bowed leader		To Be Removed
5135 5136 5137 5138 5139 5140 5141 5142 5143 5144 5145 5146	31/21 12 8 8 14/8 8/8/6/ 11 13 8	33 13 8 8 8 15 12 12 14 8	Prunus serotina Morus spp. Acer platanoides Ulmus spp. Ulmus pumila Morus spp. — Juglans spp. Juglans spp. Juglans spp. Juglans spp. Juglans spp.	Mulberry Norway Maple Elm Siberian Elm Mulberry Walnut Walnut Walnut Walnut Walnut	poor fair fair fair dead fair fair fair	- Split(ting)/break(ing) apart - Leaning - Contorted crown - Extensive rot & dead branches - Contorted crown - Contorted crown - Dead branch(es) - Bent/crooked/bowed leader - Bent/crooked/bowed leader	N (c)	To Be Removed
5135 5136 5137 5138 5139 5140 5141 5142 5143 5144 5145 5146 5147	31/21 12 8 8 14/8 8/8/6/ 11 13 8 17 21	33 13 8 8 8 15 12 12 14 8 5 22	Prunus serotina Morus spp. Acer platanoides Ulmus spp. Ulmus pumila Morus spp. — Juglans spp. Juglans spp. Juglans spp. Juglans spp. Acer platanoides Acer platanoides	Mulberry Norway Maple Elm Siberian Elm Mulberry Walnut Walnut Walnut Walnut Norway Maple Norway Maple	poor fair fair fair dead fair fair fair fair fair fair fair fair	- Split(ting)/break(ing) apart - Leaning - Contorted crown - Extensive rot & dead branches - Contorted crown - Contorted crown - Dead branch(es) - Bent/crooked/bowed leader - Bent/crooked/bowed leader - 75% or more dead	N (c)	To Be Removed
5135 5136 5137 5138 5139 5140 5141 5142 5143 5144 5145 5146 5147 5148	31 / 21 12 8 8 14 / 8 8 / 8 / 6 / 11 13 8 17 21 17	33 13 8 8 8 15 12 12 14 8 5 22 18	Prunus serotina Morus spp. Acer platanoides Ulmus spp. Ulmus pumila Morus spp. — Juglans spp. Juglans spp. Juglans spp. Juglans spp. Acer platanoides Acer platanoides Acer platanoides	Mulberry Norway Maple Elm Siberian Elm Mulberry Walnut Walnut Walnut Walnut Norway Maple Norway Maple Norway Maple	poor fair fair fair dead fair fair fair fair fair fair good	- Split(ting)/break(ing) apart - Leaning - Contorted crown - Extensive rot & dead branches - Contorted crown - Contorted crown - Dead branch(es) - Bent/crooked/bowed leader - Bent/crooked/bowed leader - 75% or more dead - I-sided crown	N (c)	To Be Removed
5135 5136 5137 5138 5139 5140 5141 5142 5143 5144 5145 5146 5147 5148 5149	31 / 21 12 8 8 14 / 8 8 / 8 / 6 / 11 13 8 17 21 17	33 13 8 8 8 15 12 12 14 8 5 22 18 15	Prunus serotina Morus spp. Acer platanoides Ulmus spp. Ulmus pumila Morus spp. — Juglans spp. Juglans spp. Juglans spp. Juglans spp. Acer platanoides Acer platanoides Acer platanoides	Mulberry Norway Maple Elm Siberian Elm Mulberry Walnut Walnut Walnut Norway Maple Norway Maple Norway Maple Norway Maple	poor fair fair fair dead fair fair fair fair fair fair fair fair	- Split(ting)/break(ing) apart - Leaning - Contorted crown - Extensive rot & dead branches - Contorted crown - Contorted crown - Dead branch(es) - Bent/crooked/bowed leader - Bent/crooked/bowed leader - 75% or more dead - 1-sided crown	N (c) N (c)	To Be Removed
5135 5136 5137 5138 5139 5140 5141 5142 5143 5144 5145 5146 5147 5148 5149	31 / 21 12 8 8 14 / 8 8 / 8 / 6 / 11 13 8 17 21 17	33 13 8 8 8 15 12 12 14 8 5 22 18	Prunus serotina Morus spp. Acer platanoides Ulmus spp. Ulmus pumila Morus spp. — Juglans spp. Juglans spp. Juglans spp. Juglans spp. Acer platanoides Acer platanoides Acer platanoides	Mulberry Norway Maple Elm Siberian Elm Mulberry Walnut Walnut Walnut Walnut Norway Maple Norway Maple Norway Maple	poor fair fair fair dead fair fair fair fair fair fair good	- Split(ting)/break(ing) apart - Leaning - Contorted crown - Extensive rot & dead branches - Contorted crown - Contorted crown - Dead branch(es) - Bent/crooked/bowed leader - Bent/crooked/bowed leader - 75% or more dead - I-sided crown	N (c)	To Be Removed
5135 5136 5137 5138 5139 5140 5141 5142 5143 5144 5145 5146 5147 5148 5149 5150	31 / 21 12 8 8 14 / 8 8 / 8 / 6 / 11 13 8 17 21 17	33 13 8 8 8 15 12 12 14 8 5 22 18 15	Prunus serotina Morus spp. Acer platanoides Ulmus spp. Ulmus pumila Morus spp. — Juglans spp. Juglans spp. Juglans spp. Juglans spp. Acer platanoides Acer platanoides Acer platanoides	Mulberry Norway Maple Elm Siberian Elm Mulberry Walnut Walnut Walnut Norway Maple Norway Maple Norway Maple Norway Maple	poor fair fair fair dead fair fair fair fair fair good	- Split(ting)/break(ing) apart - Leaning - Contorted crown - Extensive rot & dead branches - Contorted crown - Contorted crown - Dead branch(es) - Bent/crooked/bowed leader - Bent/crooked/bowed leader - 75% or more dead - 1-sided crown	N (c) N (c)	To Be Removed
5135 5136 5137 5138 5139 5140 5141 5142 5143 5144 5145 5146 5147 5148 5149 5150	31 / 21 12 8 8 14 / 8 8 / 8 / 6 / 11 13 8 17 21 17 17 11 14 / 13	33 13 8 8 8 15 12 12 14 8 5 22 18 15 12 15	Prunus serotina Morus spp. Acer platanoides Ulmus spp. Ulmus pumila Morus spp. Juglans spp. Juglans spp. Juglans spp. Acer platanoides	Mulberry Norway Maple Elm Siberian Elm Mulberry Walnut Walnut Walnut Norway Maple	poor fair fair fair dead fair fair fair fair fair goor fair good poor poor fair	- Split(ting)/break(ing) apart - Leaning - Contorted crown - Extensive rot & dead branches - Contorted crown - Contorted crown - Dead branch(es) - Bent/crooked/bowed leader - Bent/crooked/bowed leader - 75% or more dead - I-sided crown - 75% or more dead - Extensive rot & dead branches - Contorted crown	N (c) N (c)	To Be Removed
5135 5136 5137 5138 5139 5140 5141 5142 5143 5144 5145 5146 5147 5148 5149 5150 5151	31 / 21 12 8 8 14 / 8 8 / 8 / 6 / 11 13 8 17 21 17 17 11 14 / 13 15	33 13 8 8 8 15 12 12 14 8 5 22 18 15 12 15 16	Prunus serotina Morus spp. Acer platanoides Ulmus spp. Ulmus pumila Morus spp. — Juglans spp. Juglans spp. Juglans spp. Acer platanoides	Mulberry Norway Maple Elm Siberian Elm Mulberry Walnut Walnut Walnut Norway Maple	poor fair fair fair dead fair fair fair fair fair fair fair poor fair good poor poor fair	- Split(ting)/break(ing) apart - Leaning - Contorted crown - Extensive rot & dead branches - Contorted crown - Contorted crown - Dead branch(es) - Bent/crooked/bowed leader - Bent/crooked/bowed leader - 75% or more dead - I-sided crown - 75% or more dead - Extensive rot & dead branches - Contorted crown - Contorted crown	N (c) N (c)	To Be Removed
5135 5136 5137 5138 5139 5140 5141 5142 5143 5144 5145 5146 5147 5148 5149 5150 5151 5152 5153	31 / 21 12 8 8 8 14 / 8 8 / 8 / 6 / 11 11 13 8 17 21 17 17 11 14 / 13 15 10 / 3	33 13 8 8 8 15 12 12 14 8 5 22 18 15 12 15 16 11	Prunus serotina Morus spp. Acer platanoides Ulmus spp. Ulmus pumila Morus spp. Juglans spp. Juglans spp. Juglans spp. Acer platanoides	Mulberry Norway Maple Elm Siberian Elm Mulberry Walnut Walnut Walnut Norway Maple	poor fair fair fair dead fair fair fair fair fair fair fair poor fair good poor poor fair fair	- Split(ting)/break(ing) apart - Leaning - Contorted crown - Extensive rot & dead branches - Contorted crown - Contorted crown - Dead branch(es) - Bent/crooked/bowed leader - Bent/crooked/bowed leader - 75% or more dead - I-sided crown - 75% or more dead - Extensive rot & dead branches - Contorted crown - Contorted crown - Smaller trunk(s) dead	N (c) N (c)	To Be Removed
5135 5136 5137 5138 5139 5140 5141 5142 5143 5144 5145 5146 5147 5148 5149 5150 5151 5152	31 / 21 12 8 8 14 / 8 8 / 8 / 6 / 11 13 8 17 21 17 17 11 14 / 13 15	33 13 8 8 8 15 12 12 14 8 5 22 18 15 12 15 16	Prunus serotina Morus spp. Acer platanoides Ulmus spp. Ulmus pumila Morus spp. — Juglans spp. Juglans spp. Juglans spp. Acer platanoides	Mulberry Norway Maple Elm Siberian Elm Mulberry Walnut Walnut Walnut Norway Maple	poor fair fair fair dead fair fair fair fair fair fair fair poor fair good poor poor fair	- Split(ting)/break(ing) apart - Leaning - Contorted crown - Extensive rot & dead branches - Contorted crown - Contorted crown - Dead branch(es) - Bent/crooked/bowed leader - Bent/crooked/bowed leader - 75% or more dead - I-sided crown - 75% or more dead - Extensive rot & dead branches - Contorted crown - Contorted crown	N (c) N (c)	To Be Removed
5135 5136 5137 5138 5139 5140 5141 5142 5143 5144 5145 5146 5147 5148 5149 5150 5151 5152 5153	31 / 21 12 8 8 8 14 / 8 8 / 8 / 6 / 11 11 13 8 17 21 17 17 11 14 / 13 15 10 / 3	33 13 8 8 8 15 12 12 14 8 5 22 18 15 12 15 16 11	Prunus serotina Morus spp. Acer platanoides Ulmus spp. Ulmus pumila Morus spp. Juglans spp. Juglans spp. Juglans spp. Acer platanoides	Mulberry Norway Maple Elm Siberian Elm Mulberry Walnut Walnut Walnut Norway Maple	poor fair fair fair dead fair fair fair fair fair fair fair poor fair good poor poor fair fair	- Split(ting)/break(ing) apart - Leaning - Contorted crown - Extensive rot & dead branches - Contorted crown - Contorted crown - Dead branch(es) - Bent/crooked/bowed leader - Bent/crooked/bowed leader - 75% or more dead - I-sided crown - 75% or more dead - Extensive rot & dead branches - Contorted crown - Contorted crown - Smaller trunk(s) dead	N (c) N (c)	To Be Removed
5135 5136 5137 5138 5139 5140 5141 5142 5143 5144 5145 5146 5147 5148 5149 5150 5151 5152 5153 5154	31/21 12 8 8 8 14/8 8/8/6/ 11 11 13 8 17 21 17 17 17 11 14/13 15 10/3 10 10	33 13 8 8 8 15 12 12 14 8 5 22 18 15 16 11 11	Prunus serotina Morus spp. Acer platanoides Ulmus spp. Ulmus pumila Morus spp. Juglans spp. Juglans spp. Juglans spp. Acer platanoides	Mulberry Norway Maple Elm Siberian Elm Mulberry Walnut Walnut Walnut Norway Maple	poor fair fair fair dead fair fair fair fair fair fair poor fair good poor poor fair fair fair	- Split(ting)/break(ing) apart - Leaning - Contorted crown - Extensive rot & dead branches - Contorted crown - Contorted crown - Dead branch(es) - Bent/crooked/bowed leader - Bent/crooked/bowed leader - 75% or more dead - I-sided crown - 75% or more dead - Extensive rot & dead branches - Contorted crown - Contorted crown - Smaller trunk(s) dead - Contorted crown - Contorted crown - Contorted crown - Contorted crown	N (c) N (c)	To Be Removed
5135 5136 5137 5138 5139 5140 5141 5142 5143 5144 5145 5146 5147 5148 5149 5150 5151 5152 5153 5154	31/21 12 8 8 8 14/8 8/8/6/ 11 11 13 8 17 21 17 17 11 14/13 15 10/3 10 10 13	33 13 8 8 8 15 12 12 14 8 5 22 18 15 16 11 11 11 14	Prunus serotina Morus spp. Acer platanoides Ulmus spp. Ulmus pumila Morus spp. — Juglans spp. Juglans spp. Juglans spp. Acer platanoides	Mulberry Norway Maple Elm Siberian Elm Mulberry Walnut Walnut Walnut Norway Maple	poor fair fair fair dead fair fair fair fair fair fair fair poor fair good poor poor fair fair fair fair	- Split(ting)/break(ing) apart - Leaning - Contorted crown - Extensive rot & dead branches - Contorted crown - Dead branch(es) - Bent/crooked/bowed leader - Bent/crooked/bowed leader - 75% or more dead - I-sided crown - 75% or more dead - Extensive rot & dead branches - Contorted crown - Contorted crown - Smaller trunk(s) dead - Contorted crown	N (c) N (c)	To Be Removed
5135 5136 5137 5138 5139 5140 5141 5142 5143 5144 5145 5146 5147 5148 5150 5151 5152 5153 5154 5155 5156	31/21 12 8 8 8 14/8 8/8/6/ 11 11 13 8 17 21 17 17 17 11 14/13 15 10/3 10 10	33 13 8 8 8 15 12 12 14 8 5 22 18 15 16 11 11	Prunus serotina Morus spp. Acer platanoides Ulmus spp. Ulmus pumila Morus spp. Juglans spp. Juglans spp. Juglans spp. Acer platanoides	Mulberry Norway Maple Elm Siberian Elm Mulberry Walnut Walnut Walnut Norway Maple	poor fair fair fair dead fair fair fair fair fair fair poor fair good poor poor fair fair fair	- Split(ting)/break(ing) apart - Leaning - Contorted crown - Extensive rot & dead branches - Contorted crown - Contorted crown - Dead branch(es) - Bent/crooked/bowed leader - Bent/crooked/bowed leader - 75% or more dead - I-sided crown - 75% or more dead - Extensive rot & dead branches - Contorted crown - Smaller trunk(s) dead - Contorted crown	N (c) N (c)	To Be Removed
5135 5136 5137 5138 5139 5140 5141 5142 5143 5144 5145 5146 5147 5148 5149 5150 5151 5152 5153 5154 5155 5156 5157	31/21 12 8 8 8 14/8 8/8/6/ 11 11 13 8 17 21 17 17 11 14/13 15 10/3 10 10 13	33 13 8 8 8 15 12 12 14 8 5 22 18 15 16 11 11 11 14	Prunus serotina Morus spp. Acer platanoides Ulmus spp. Ulmus pumila Morus spp. — Juglans spp. Juglans spp. Juglans spp. Acer platanoides	Mulberry Norway Maple Elm Siberian Elm Mulberry Walnut Walnut Walnut Norway Maple	poor fair fair fair dead fair fair fair fair fair fair fair poor fair good poor poor fair fair fair fair	- Split(ting)/break(ing) apart - Leaning - Contorted crown - Extensive rot & dead branches - Contorted crown - Dead branch(es) - Bent/crooked/bowed leader - Bent/crooked/bowed leader - 75% or more dead - I-sided crown - 75% or more dead - Extensive rot & dead branches - Contorted crown - Contorted crown - Smaller trunk(s) dead - Contorted crown	N (c) N (c)	To Be Removed
5135 5136 5137 5138 5139 5140 5141 5142 5143 5144 5145 5146 5147 5148 5149 5150 5151 5152 5153 5154 5155 5156 5157 5158	31/21 12 8 8 8 14/8 8/8/6/ 11 11 13 8 17 21 17 17 17 11 14/13 15 10/3 10 10 13 9	33 13 8 8 8 15 12 12 14 8 5 22 18 15 16 11 11 14 9	Prunus serotina Morus spp. Acer platanoides Ulmus spp. Ulmus pumila Morus spp. — Juglans spp. Juglans spp. Juglans spp. Acer platanoides	Mulberry Norway Maple Elm Siberian Elm Mulberry Walnut Walnut Walnut Norway Maple	poor fair fair fair dead fair fair fair fair fair fair fair poor fair good poor poor fair fair fair fair fair fair fair fai	- Split(ting)/break(ing) apart - Leaning - Contorted crown - Extensive rot & dead branches - Contorted crown - Contorted crown - Dead branch(es) - Bent/crooked/bowed leader - Bent/crooked/bowed leader - 75% or more dead - I-sided crown - 75% or more dead - Extensive rot & dead branches - Contorted crown - Smaller trunk(s) dead - Contorted crown	N (c) N (c)	To Be Removed
5135 5136 5137 5138 5139 5140 5141 5142 5143 5144 5145 5146 5147 5148 5149 5150 5151 5152 5153 5154 5155 5155 5156 5157 5158 5159	31/21 12 8 8 8 14/8 8/8/6/ 11 11 13 8 17 21 17 17 17 11 14/13 15 10/3 10 10 13 9 8 18/18	33 13 8 8 8 15 12 12 14 8 5 22 18 15 16 11 11 14 9 8 20	Prunus serotina Morus spp. Acer platanoides Ulmus spp. Ulmus pumila Morus spp.	Mulberry Norway Maple Elm Siberian Elm Mulberry Walnut Walnut Walnut Walnut Norway Maple	poor fair fair fair dead fair fair fair fair fair fair poor fair good poor poor fair fair fair fair fair fair fair fai	- Split(ting)/break(ing) apart - Leaning - Contorted crown - Extensive rot & dead branches - Contorted crown - Dead branch(es) - Bent/crooked/bowed leader - Bent/crooked/bowed leader - 75% or more dead - I-sided crown - 75% or more dead - Extensive rot & dead branches - Contorted crown - Contorted crown - Smaller trunk(s) dead - Contorted crown	N (c) N (c)	To Be Removed
5135 5136 5137 5138 5139 5140 5141 5142 5143 5144 5145 5146 5147 5148 5149 5150 5151 5152 5153 5154 5155 5156 5157 5158 5159 5160	31/21 12 8 8 8 14/8 8/8/6/ 11 11 13 8 17 21 17 17 11 14/13 15 10/3 10 10 13 9 8 18/18 23	33 13 8 8 8 15 12 12 14 8 5 22 18 15 11 11 11 14 9 8 20 24	Prunus serotina Morus spp. Acer platanoides Ulmus spp. Ulmus pumila Morus spp. — Juglans spp. Juglans spp. Juglans spp. Acer platanoides	Mulberry Norway Maple Elm Siberian Elm Mulberry Walnut Walnut Walnut Norway Maple	poor fair fair fair dead fair fair fair fair fair fair poor fair good poor poor fair fair fair fair fair fair fair fai	- Split(ting)/break(ing) apart - Leaning - Contorted crown - Extensive rot & dead branches - Contorted crown - Dead branch(es) - Bent/crooked/bowed leader - Bent/crooked/bowed leader - 75% or more dead - I-sided crown - 75% or more dead - Extensive rot & dead branches - Contorted crown - Contorted crown - Smaller trunk(s) dead - Contorted crown - Contorted crown	N (c) N (c)	To Be Removed
5135 5136 5137 5138 5139 5140 5141 5142 5143 5144 5145 5146 5147 5148 5149 5150 5151 5152 5153 5154 5155 5156 5157 5158 5159 5160	31/21 12 8 8 8 14/8 8/8/6/ 11 11 13 8 17 21 17 17 17 11 14/13 15 10/3 10 10 13 9 8 18/18	33 13 8 8 8 15 12 12 14 8 5 22 18 15 16 11 11 14 9 8 20	Prunus serotina Morus spp. Acer platanoides Ulmus spp. Ulmus pumila Morus spp.	Mulberry Norway Maple Elm Siberian Elm Mulberry Walnut Walnut Walnut Walnut Norway Maple	poor fair fair fair dead fair fair fair fair fair fair poor fair good poor poor fair fair fair fair fair fair fair fai	- Split(ting)/break(ing) apart - Leaning - Contorted crown - Extensive rot & dead branches - Contorted crown - Dead branch(es) - Bent/crooked/bowed leader - Bent/crooked/bowed leader - 75% or more dead - I-sided crown - 75% or more dead - Extensive rot & dead branches - Contorted crown - Contorted crown - Smaller trunk(s) dead - Contorted crown	N (c) N (c)	To Be Removed
5135 5136 5137 5138 5139 5140 5141 5142 5143 5144 5145 5146 5147 5148 5149 5150 5151 5152 5153 5154 5155 5155 5156 5157 5158 5159 5160 5161	31/21 12 8 8 8 14/8 8/8/6/ 11 11 13 8 17 21 17 17 11 14/13 15 10/3 10 10 13 9 8 18/18 23	33 13 8 8 8 15 12 12 14 8 5 22 18 15 11 11 11 14 9 8 20 24	Prunus serotina Morus spp. Acer platanoides Ulmus spp. Ulmus pumila Morus spp. — Juglans spp. Juglans spp. Juglans spp. Acer platanoides	Mulberry Norway Maple Elm Siberian Elm Mulberry Walnut Walnut Walnut Norway Maple	poor fair fair fair dead fair fair fair fair fair fair poor fair good poor poor fair fair fair fair fair fair fair fai	- Split(ting)/break(ing) apart - Leaning - Contorted crown - Extensive rot & dead branches - Contorted crown - Dead branch(es) - Bent/crooked/bowed leader - Bent/crooked/bowed leader - 75% or more dead - I-sided crown - 75% or more dead - Extensive rot & dead branches - Contorted crown - Contorted crown - Smaller trunk(s) dead - Contorted crown - Contorted crown	N (c) N (c)	To Be Removed
5135 5136 5137 5138 5139 5140 5141 5142 5143 5144 5145 5146 5147 5148 5149 5150 5151 5152 5153 5154 5155 5156 5157 5158 5159 5160 5161 5162	31 / 21 12 8 8 14 / 8 8 / 8 / 6 / 11 13 8 17 21 17 17 11 14 / 13 15 10 / 3 10 10 13 9 8 18 / 18 23 8 11 / 10	33 13 8 8 8 15 12 12 14 8 5 22 18 15 11 11 11 14 9 8 20 24 8 12	Prunus serotina Morus spp. Acer platanoides Ulmus spp. Ulmus pumila Morus spp. — Juglans spp. Juglans spp. Juglans spp. Juglans spp. Acer platanoides	Mulberry Norway Maple Elm Siberian Elm Mulberry Walnut Walnut Walnut Norway Maple	poor fair fair fair dead fair fair fair fair fair fair poor fair good poor poor fair fair fair fair fair fair fair fai	- Split(ting)/break(ing) apart - Leaning - Contorted crown - Extensive rot & dead branches - Contorted crown - Dead branch(es) - Bent/crooked/bowed leader - Bent/crooked/bowed leader - 75% or more dead - I-sided crown - Tontorted crown - Contorted crown - Contorted crown - Smaller trunk(s) dead - Contorted crown - Girdling root(s) - I-sided crown - 'V'-shaped crotch(es)	N (c) N (c) N (c) N (c)	To Be Removed
5135 5136 5137 5138 5139 5140 5141 5142 5143 5144 5145 5146 5147 5148 5149 5150 5151 5152 5153 5154 5155 5155 5156 5157 5158 5159 5160 5161 5162 5163	31/21 12 8 8 8 14/8 8/8/6/ 11 11 13 8 17 21 17 17 17 11 14/13 15 10/3 10 10 13 9 8 18/18 23 8 11/10 31	33 13 8 8 8 15 12 12 14 8 5 22 18 15 16 11 11 11 14 9 8 20 24 8 12 33	Prunus serotina Morus spp. Acer platanoides Ulmus spp. Ulmus pumila Morus spp. — Juglans spp. Juglans spp. Juglans spp. Acer platanoides	Mulberry Norway Maple Elm Siberian Elm Mulberry Walnut Walnut Walnut Walnut Norway Maple	poor fair fair fair dead fair fair fair fair fair poor fair good poor poor fair fair fair fair fair fair fair fai	- Split(ting)/break(ing) apart - Leaning - Contorted crown - Extensive rot & dead branches - Contorted crown - Dead branch(es) - Bent/crooked/bowed leader - Bent/crooked/bowed leader - 75% or more dead - I-sided crown - 75% or more dead - Extensive rot & dead branches - Contorted crown - Smaller trunk(s) dead - Contorted crown - Gontorted crown - Gontorted crown - I-sided crown - 'V'-shaped crotch(es) - I-sided crown - 'V'-shaped crotch(es) - Extensive rot & dead branches	N (c) N (c)	To Be Removed
5135 5136 5137 5138 5139 5140 5141 5142 5143 5144 5145 5146 5147 5148 5149 5150 5151 5152 5153 5154 5155 5156 5157 5158 5159 5160 5161 5162 5163 5164	31 / 21 12 8 8 14 / 8 8 / 8 / 6 / 11 13 8 17 21 17 17 11 14 / 13 15 10 / 3 10 10 13 9 8 18 / 18 23 8 11 / 10 31 30	33 13 8 8 8 15 12 12 14 8 5 22 18 15 15 11 11 11 11 14 9 8 20 24 8 12 33 32	Prunus serotina Morus spp. Acer platanoides Ulmus spp. Ulmus pumila Morus spp. — Juglans spp. Juglans spp. Juglans spp. Acer platanoides Ulmus pumila	Mulberry Norway Maple Elm Siberian Elm Mulberry Walnut Walnut Walnut Norway Maple	poor fair fair fair dead fair fair fair fair fair fair poor fair good poor poor fair fair fair fair fair fair fair fai	- Split(ting)/break(ing) apart - Leaning - Contorted crown - Extensive rot & dead branches - Contorted crown - Dead branch(es) - Bent/crooked/bowed leader - Bent/crooked/bowed leader - 75% or more dead - I-sided crown - Tontorted crown - Contorted crown - Contorted crown - Smaller trunk(s) dead - Contorted crown - Girdling root(s) - I-sided crown - 'V'-shaped crotch(es) - Extensive rot & dead branches - Dead branch(es)	N (c) N (c) N (c) N (c)	To Be Removed
5135 5136 5137 5138 5139 5140 5141 5142 5143 5144 5145 5146 5147 5148 5149 5150 5151 5152 5153 5154 5155 5156 5157 5158 5159 5160 5161 5162 5163 5164	31/21 12 8 8 8 14/8 8/8/6/ 11 11 13 8 17 21 17 17 17 11 14/13 15 10/3 10 10 13 9 8 18/18 23 8 11/10 31	33 13 8 8 8 15 12 12 14 8 5 22 18 15 16 11 11 11 14 9 8 20 24 8 12 33	Prunus serotina Morus spp. Acer platanoides Ulmus spp. Ulmus pumila Morus spp. — Juglans spp. Juglans spp. Juglans spp. Acer platanoides	Mulberry Norway Maple Elm Siberian Elm Mulberry Walnut Walnut Walnut Walnut Norway Maple	poor fair fair fair dead fair fair fair fair fair poor fair good poor poor fair fair fair fair fair fair fair fai	- Split(ting)/break(ing) apart - Leaning - Contorted crown - Extensive rot & dead branches - Contorted crown - Dead branch(es) - Bent/crooked/bowed leader - Bent/crooked/bowed leader - 75% or more dead - I-sided crown - 75% or more dead - Extensive rot & dead branches - Contorted crown - Smaller trunk(s) dead - Contorted crown - Gontorted crown - Gontorted crown - I-sided crown - 'V'-shaped crotch(es) - I-sided crown - 'V'-shaped crotch(es) - Extensive rot & dead branches	N (c) N (c) N (c) N (c)	To Be Removed
5135 5136 5137 5138 5139 5140 5141 5142 5143 5144 5145 5146 5147 5148 5149 5150 5151 5152 5153 5154 5155 5155 5156 5157 5158 5159 5160 5161 5162 5163 5164 5165	31/21 12 8 8 8 14/8 8/8/6/ 11 11 13 8 17 21 17 17 17 11 14/13 15 10/3 10 10 13 9 8 18/18 23 8 11/10 31 30 13/13/8	33 13 8 8 8 15 12 12 14 8 5 22 18 15 16 11 11 11 14 9 8 20 24 8 12 33 32 15	Prunus serotina Morus spp. Acer platanoides Ulmus spp. Ulmus pumila Morus spp. — Juglans spp. Juglans spp. Juglans spp. Acer platanoides	Mulberry Norway Maple Elm Siberian Elm Mulberry Walnut Walnut Walnut Walnut Norway Maple Siberian Elm Arborvitae	poor fair fair fair dead fair fair fair fair fair poor fair good poor poor fair fair fair fair fair fair fair fai	- Split(ting)/break(ing) apart - Leaning - Contorted crown - Extensive rot & dead branches - Contorted crown - Dead branch(es) - Bent/crooked/bowed leader - Bent/crooked/bowed leader - 75% or more dead - I-sided crown - 75% or more dead - Extensive rot & dead branches - Contorted crown - Smaller trunk(s) dead - Contorted crown - I-sided crown - Contorted crown - Contorted crown - I-sided crown - 'V'-shaped crotch(es) - Girdling root(s) - I-sided crown - 'V'-shaped crotch(es) - Extensive rot & dead branches - Dead branch(es) - Smaller trunk(s) dead	N (c) N (c) N (c) N (c)	To Be Removed
5135 5136 5137 5138 5139 5140 5141 5142 5143 5144 5145 5146 5147 5148 5149 5150 5151 5152 5153 5154 5155 5156 5157 5158 5159 5160 5161 5162 5163 5164 5165 5165 5166	31/21 12 8 8 8 14/8 8/8/6/ 11 11 13 8 17 21 17 17 17 11 14/13 15 10/3 10 10 13 9 8 18/18 23 8 11/10 31 30 13/13/8 16	33 13 8 8 8 15 12 12 14 8 5 22 18 15 15 11 11 11 14 9 8 20 24 8 12 33 32 15 17	Prunus serotina Morus spp. Acer platanoides Ulmus spp. Ulmus pumila Morus spp. — Juglans spp. Juglans spp. Juglans spp. Acer platanoides	Mulberry Norway Maple Elm Siberian Elm Mulberry Walnut Walnut Walnut Walnut Norway Maple Siberian Elm Arborvitae Norway Maple	poor fair fair fair dead fair fair fair fair fair fair poor fair good poor poor fair fair fair fair fair fair fair fai	- Split(ting)/break(ing) apart - Leaning - Contorted crown - Extensive rot & dead branches - Contorted crown - Dead branch(es) - Bent/crooked/bowed leader - Bent/crooked/bowed leader - 75% or more dead - I-sided crown - Tontorted crown - Contorted crown - Contorted crown - Smaller trunk(s) dead - Contorted crown - Girdling root(s) - I-sided crown - 'V'-shaped crotch(es) - Extensive rot & dead branches - Dead branch(es)	N (c) N (c) N (c) N (c)	To Be Removed
5135 5136 5137 5138 5139 5140 5141 5142 5143 5144 5145 5146 5147 5148 5149 5150 5151 5152 5153 5154 5155 5155 5156 5157 5158 5159 5160 5161 5162 5163 5164 5165 5166 5167	31/21 12 8 8 8 14/8 8/8/6/ 11 11 13 8 17 21 17 17 17 11 14/13 15 10/3 10 10 13 9 8 18/18 23 8 11/10 31 30 13/13/8 16 29	33 13 8 8 8 15 12 12 14 8 5 22 18 15 16 11 11 11 14 9 8 20 24 8 12 33 32 15 17 30	Prunus serotina Morus spp. Acer platanoides Ulmus spp. Ulmus pumila Morus spp. — Juglans spp. Juglans spp. Juglans spp. Acer platanoides	Mulberry Norway Maple Elm Siberian Elm Mulberry Walnut Walnut Walnut Walnut Norway Maple Siberian Elm Arborvitae Norway Maple	poor fair fair fair dead fair fair fair fair fair poor fair good poor poor fair fair fair fair fair fair fair fai	- Split(ting)/break(ing) apart - Leaning - Contorted crown - Extensive rot & dead branches - Contorted crown - Dead branch(es) - Bent/crooked/bowed leader - Bent/crooked/bowed leader - 75% or more dead - I-sided crown - 75% or more dead - Extensive rot & dead branches - Contorted crown - Smaller trunk(s) dead - Contorted crown - I-sided crown - Contorted crown - Contorted crown - I-sided crown - 'V'-shaped crotch(es) - Girdling root(s) - I-sided crown - 'V'-shaped crotch(es) - Extensive rot & dead branches - Dead branch(es) - Smaller trunk(s) dead	N (c) N (c) N (c) N (c)	To Be Removed
5135 5136 5137 5138 5139 5140 5141 5142 5143 5144 5145 5146 5147 5148 5149 5150 5151 5152 5153 5154 5155 5155 5157 5158 5157 5158 5157 5158 5157 5160 5161 5162 5163 5164 5165 5166 5167	31/21 12 8 8 8 14/8 8/8/6/ 11 11 13 8 17 21 17 17 17 11 14/13 15 10/3 10 10 13 9 8 18/18 23 8 11/10 31 30 13/13/8 16	33 13 8 8 8 15 12 12 14 8 5 22 18 15 15 11 11 11 14 9 8 20 24 8 12 33 32 15 17	Prunus serotina Morus spp. Acer platanoides Ulmus spp. Ulmus pumila Morus spp. — Juglans spp. Juglans spp. Juglans spp. Acer platanoides	Mulberry Norway Maple Elm Siberian Elm Mulberry Walnut Walnut Walnut Walnut Norway Maple Siberian Elm Arborvitae Norway Maple	poor fair fair fair dead fair fair fair fair fair fair poor fair good poor poor fair fair fair fair fair fair fair fai	- Split(ting)/break(ing) apart - Leaning - Contorted crown - Extensive rot & dead branches - Contorted crown - Dead branch(es) - Bent/crooked/bowed leader - Bent/crooked/bowed leader - 75% or more dead - I-sided crown - 75% or more dead - Extensive rot & dead branches - Contorted crown - Smaller trunk(s) dead - Contorted crown - I-sided crown - Contorted crown - Contorted crown - I-sided crown - 'V'-shaped crotch(es) - Girdling root(s) - I-sided crown - 'V'-shaped crotch(es) - Extensive rot & dead branches - Dead branch(es) - Smaller trunk(s) dead	N (c) N (c) N (c) N (c)	To Be Removed
5135 5136 5137 5138 5139 5140 5141 5142 5143 5144 5145 5146 5147 5148 5149 5150 5151 5152 5153 5154 5155 5155 5156 5157 5158 5159 5160 5161 5162 5163 5164 5165	31/21 12 8 8 8 14/8 8/8/6/ 11 11 13 8 17 21 17 17 17 11 14/13 15 10/3 10 10 13 9 8 18/18 23 8 11/10 31 30 13/13/8 16 29	33 13 8 8 8 15 12 12 14 8 5 22 18 15 16 11 11 11 14 9 8 20 24 8 12 33 32 15 17 30	Prunus serotina Morus spp. Acer platanoides Ulmus spp. Ulmus pumila Morus spp. — Juglans spp. Juglans spp. Juglans spp. Acer platanoides	Mulberry Norway Maple Elm Siberian Elm Mulberry Walnut Walnut Walnut Walnut Norway Maple Siberian Elm Arborvitae Norway Maple	poor fair fair fair dead fair fair fair fair fair poor fair good poor poor fair fair fair fair fair fair fair fai	- Split(ting)/break(ing) apart - Leaning - Contorted crown - Extensive rot & dead branches - Contorted crown - Dead branch(es) - Bent/crooked/bowed leader - Bent/crooked/bowed leader - 75% or more dead - I-sided crown - 75% or more dead - Extensive rot & dead branches - Contorted crown - Smaller trunk(s) dead - Contorted crown - I-sided crown - Contorted crown - Contorted crown - I-sided crown - 'V'-shaped crotch(es) - Girdling root(s) - I-sided crown - 'V'-shaped crotch(es) - Extensive rot & dead branches - Dead branch(es) - Smaller trunk(s) dead	N (c) N (c) N (c) N (c)	To Be Removed
5135 5136 5137 5138 5139 5140 5141 5142 5143 5144 5145 5146 5147 5148 5149 5150 5151 5152 5153 5154 5155 5156 5157 5158 5159 5160 5161 5162 5163 5164 5165 5167 5168	31/21 12 8 8 8 14/8 8/8/6/ 11 11 13 8 17 21 17 17 17 11 14/13 15 10/3 10 10 13 9 8 18/18 23 8 11/10 31 30 13/13/8 16 29 13	33 13 8 8 8 8 15 12 12 14 8 5 22 18 15 16 11 11 11 14 9 8 20 24 8 12 33 32 15 17 30 14	Prunus serotina Morus spp. Acer platanoides Ulmus spp. Ulmus pumila Morus spp. — Juglans spp. Juglans spp. Juglans spp. Acer platanoides Juglans spp. Juglans spp. Acer saccharinum Ulmus pumila Thuja spp. Acer platanoides ditsia triacanthos 'Inern Acer platanoides	Mulberry Norway Maple Elm Siberian Elm Mulberry Walnut Walnut Walnut Norway Maple Siberian Elm Arborvitae Norway Maple Iless Honeylocust (fe	poor fair fair fair dead fair fair fair fair fair fair good poor poor fair fair fair fair fair fair fair fai	- Split(ting)/break(ing) apart - Leaning - Contorted crown - Extensive rot & dead branches - Contorted crown - Dead branch(es) - Bent/crooked/bowed leader - Bent/crooked/bowed leader - 75% or more dead - I-sided crown - 75% or more dead - Extensive rot & dead branches - Contorted crown - Smaller trunk(s) dead - Contorted crown - I-sided crown - Contorted crown - Contorted crown - I-sided crown - 'V'-shaped crotch(es) - Girdling root(s) - I-sided crown - 'V'-shaped crotch(es) - Extensive rot & dead branches - Dead branch(es) - Smaller trunk(s) dead	N (c) N (c) N (c) N (c)	To Be Removed

TREE SURVEY COMPLETED BY KEM-TEC SURVEYING DATED 9/29/2023.





I" = 30' PROJECT ID: DET-230091.01

TREE INVENTORY

5172	I	1	1	T T		T T		
	18	19	Quercus spp.	Oak (white family)	good			To Remain
5173	21	22	Juglans spp.	Walnut	good			To Remain
5174	10	11		Walnut		- Contorted crown		To Remain
			Juglans spp.		fair			
5175	13	14	Juglans spp.	Walnut	fair	- Bent/crooked/bowed leader		To Remain
5176	30 / 28	35	Quercus spp.	Oak (white family)	fair	- 'V'-shaped crotch(es)		To Remain
5177	32	34	Ulmus spp.	Elm	fair	- Smaller trunk(s) dead		To Remain
			1			- Smarter trunk(s) dead		
5178	9		-		dead		N (c)	To Remain
5179	27	28	Quercus spp.	Oak (red family)	fair	- Leaning		To Remain
5180	11	5	Prunus spp.	Cherry	poor	- 75% or more dead	N (c)	To Remain
			• • • • • • • • • • • • • • • • • • • •	· ·	•			
5181	11	10	Prunus spp.	Cherry	poor	- 50% or more dead	N (c)	To Remain
5182	10	11	Acer rubrum	Red Maple	fair	- Bent/crooked/bowed leader		To Remain
5183	8	5	Prunus spp.	Cherry	poor	- 75% or more dead	N (c)	To Remain
5184	12	5		,	· · · · · · · · · · · · · · · · · · ·	- 75% or more dead	N (c)	To Remain
		3	Prunus spp.	Cherry	poor	- 73% or more dead		
5185	11		_		dead		N (c)	To Remain
5186	11		_		dead		N (c)	To Remain
5187	15	5	Prunus spp.	Cherry	poor	- 75% or more dead	N (c)	To Remain
				· '	<u> </u>		11 (5)	
5188	20 /	21	Prunus serotina	Black Cherry	fair	- 'V'-shaped crotch(es)		To Remain
5189	16	17	Prunus serotina	Black Cherry	fair	- Dead branch(es)		To Remain
5190	20		_		dead		N (c)	To Remain
5191	25	26	Acar nagunda	Boxelder		- Extensive rot & dead branches	N (c)	To Remain
	_		Acer negundo		poor		Ν (ε)	
5192	26	27	Prunus serotina	Black Cherry	fair	- Dead branch(es)		To Remain
5193	22	23	Ulmus spp.	Elm	fair	- Dead branch(es)		To Remain
5194	8	8	Juglans spp.	Walnut	fair	- Bent/crooked/bowed leader		To Remain
								
5195	7	7	Ulmus spp.	Elm	fair	- Contorted crown	N (s)	To Remain
5196	10	5	Prunus serotina	Black Cherry	poor	- 75% or more dead	N (c)	To Remain
5197	13	14	Acer platanoides	Norway Maple	fair	- Leaning		To Remain
5198	23	10	Acer negundo	Boxelder		- 75% or more dead	N (c)	To Remain
					poor	- 75/6 OF HIOTE dead	··	
5199	- 11		_		dead		N (c)	To Remain
5200	8	8	Juglans spp.	Walnut	fair	- Bent/crooked/bowed leader		To Remain
5201	20	21	Prunus serotina	Black Cherry	good			To Remain
				,				
5202	20	21	Prunus serotina	Black Cherry	good			To Remain
5203	8	8	Juglans spp.	Walnut	good			To Remain
5204	20	21	Prunus serotina	Black Cherry	fair	- Dead branch(es)		To Remain
				· ·		2.2.2.3.101(23)	N1 /_\	
5205	11		_		dead		N (c)	To Remain
5206	14	15	Prunus serotina	Black Cherry	fair	- Contorted crown		To Remain
5207	12	13	Prunus serotina	Black Cherry	poor	- 50% or more dead	N (c)	To Remain
5208	23	24	Prunus serotina	Black Cherry	fair	- Dead branch(es)	()	To Be Removed
				,		` '		
5209	7	7	Ulmus spp.	Elm	fair	- Contorted crown	N (s)	To Be Removed
5210	12	13	Ulmus spp.	Elm	fair	- Bent/crooked/bowed leader		To Be Removed
5211	12	13	Ulmus spp.	Elm	fair	- Bent/crooked/bowed leader		To Remain
5212	10	11	Ulmus spp.	Elm	fair	- Bent/crooked/bowed leader		To Remain
5213	25	26	Quercus spp.	Oak (red family)	poor	unk compromised from large wo	N (c)	To Remain
5214	13	10	Prunus serotina	Black Cherry	 fair	- Unusually small crown	. ,	To Remain
				,		-		
5215	25	20	Morus spp.	Mulberry	poor	- Split(ting)/break(ing) apart	N (c)	To Remain
5216	13		_		dead		N (c)	To Remain
5217	23		Morus spp.	Mulberry	poor	Partially uprooted / knocked ove	N (c)	To Remain
				· ·	•	, ,	(5)	
5218	12	13	Prunus serotina	Black Cherry	fair	- Bent/crooked/bowed leader		To Remain
5219	25	26	Prunus serotina	Black Cherry	fair	- Dead branch(es)		To Remain
5220	8	8	Ulmus spp.	Elm	fair	- Contorted crown		To Remain
5221	9	5	Prunus serotina	Black Cherry	poor	- 50% or more dead	N (c)	To Remain
	_			·			. , ,	
5222	12	5	Prunus serotina	Black Cherry	poor	- 75% or more dead	N (c)	To Remain
5223	9	9	Ulmus spp.	Elm	fair	- Contorted crown		To Remain
5224	14	15	Ulmus spp.	Elm	fair	- Bent/crooked/bowed leader		To Remain
5225	9	9	Prunus serotina	Black Cherry	fair	- Unusually small crown		To Remain
5226	8	8	Acer platanoides	Norway Maple	good			To Remain
5227	15	16	Prunus serotina	Black Cherry	fair	- Broken branch(es)		To Remain
5228	12	13	Prunus serotina	Black Cherry	fair	- Unusually small crown		To Remain
						- Ondsdany sman crown		
5229	14		_		dead		N (c)	To Remain
5230	15	16	Acer negundo	Boxelder	poor	d branches, leaning, & contorted of	N (c)	To Remain
5231	13	14	Ulmus spp.	Elm	fair	- Contorted crown		To Remain
5232	18	19	Prunus serotina	Black Cherry	fair	- I-sided crown		To Remain
				,				
5233	9	9	Ulmus spp.	Elm	fair	- Contorted crown		To Remain
5234	7	7	Juglans spp.	Walnut	fair	- Rot in trunk	N(s)	To Remain
5235	8	8	Juglans spp.	Walnut	fair	- Bent/crooked/bowed leader		To Remain
5236	8	8	Juglans spp.	Walnut	good			To Remain
						D		
5237	8	8	Ulmus spp.	Elm	fair 	- Bent/crooked/bowed leader		To Remain
II FARO	10	11		Walnut	fair			To Remain
5238		''	Juglans spp.		ian	- Broken branch(es)		1 TO Remain
5238	15	16	Juglans spp. Ulmus spp.	Elm	fair	- Broken branch(es) - Bent/crooked/bowed leader		To Remain
5239		16	Ulmus spp.	Elm	fair	- Bent/crooked/bowed leader		To Remain
5239 5240	17/8	16 18	Ulmus spp. Morus spp.	Elm Mulberry	fair fair	- Bent/crooked/bowed leader - Leaning		To Remain To Remain
5239		16	Ulmus spp.	Elm	fair	- Bent/crooked/bowed leader	N (c)	To Remain
5239 5240	17/8	16 18	Ulmus spp. Morus spp.	Elm Mulberry	fair fair	- Bent/crooked/bowed leader - Leaning	N (c)	To Remain To Remain
5239 5240 5241 5242	17 / 8 16 9	16 18 17 9	Ulmus spp. Morus spp. Prunus spp. Ulmus spp.	Elm Mulberry Cherry Elm	fair fair poor good	- Bent/crooked/bowed leader - Leaning lot, dead branches, & significant le	N (c)	To Remain To Remain To Remain To Remain
5239 5240 5241 5242 5243	17 / 8 16 9 23	16 18 17 9	Ulmus spp. Morus spp. Prunus spp. Ulmus spp. Prunus spp.	Elm Mulberry Cherry Elm Cherry	fair fair poor good fair	- Bent/crooked/bowed leader - Leaning ot, dead branches, & significant le - Gall(s)/canker(s) on trunk		To Remain To Remain To Remain To Remain To Remain To Remain
5239 5240 5241 5242 5243 5244	17 / 8 16 9 23 7	16 18 17 9 24 7	Ulmus spp. Morus spp. Prunus spp. Ulmus spp.	Elm Mulberry Cherry Elm Cherry Elm	fair fair poor good	- Bent/crooked/bowed leader - Leaning ot, dead branches, & significant le - Gall(s)/canker(s) on trunk - Contorted crown	N (c) N (s)	To Remain
5239 5240 5241 5242 5243	17 / 8 16 9 23	16 18 17 9	Ulmus spp. Morus spp. Prunus spp. Ulmus spp. Prunus spp.	Elm Mulberry Cherry Elm Cherry	fair fair poor good fair	- Bent/crooked/bowed leader - Leaning ot, dead branches, & significant le - Gall(s)/canker(s) on trunk		To Remain To Remain To Remain To Remain To Remain To Remain
5239 5240 5241 5242 5243 5244	17 / 8 16 9 23 7	16 18 17 9 24 7	Ulmus spp. Morus spp. Prunus spp. Ulmus spp. Prunus spp. Ulmus spp.	Elm Mulberry Cherry Elm Cherry Elm	fair fair poor good fair fair	- Bent/crooked/bowed leader - Leaning ot, dead branches, & significant le - Gall(s)/canker(s) on trunk - Contorted crown		To Remain
5239 5240 5241 5242 5243 5244 5245 5246	17 / 8 16 9 23 7 16	16 18 17 9 24 7 17	Ulmus spp. Morus spp. Prunus spp. Ulmus spp. Prunus spp. Ulmus spp. Ulmus spp. Prunus serotina Prunus serotina	Elm Mulberry Cherry Elm Cherry Elm Black Cherry Black Cherry	fair fair poor good fair fair fair poor	- Bent/crooked/bowed leader - Leaning tot, dead branches, & significant le - Gall(s)/canker(s) on trunk - Contorted crown - I-sided crown - Extensive rot & dead branches	N (s)	To Remain
5239 5240 5241 5242 5243 5244 5245 5246 5247	17 / 8 16 9 23 7 16 16	16 18 17 9 24 7 17 17	Ulmus spp. Morus spp. Prunus spp. Ulmus spp. Prunus spp. Ulmus spp. Prunus serotina Prunus serotina Prunus serotina	Elm Mulberry Cherry Elm Cherry Elm Black Cherry Black Cherry Black Cherry	fair poor good fair fair fair fair poor fair	- Bent/crooked/bowed leader - Leaning lot, dead branches, & significant le - Gall(s)/canker(s) on trunk - Contorted crown - I-sided crown - Extensive rot & dead branches - Unusually small crown	N (s)	To Remain
5239 5240 5241 5242 5243 5244 5245 5246	17 / 8 16 9 23 7 16	16 18 17 9 24 7 17	Ulmus spp. Morus spp. Prunus spp. Ulmus spp. Prunus spp. Ulmus spp. Ulmus spp. Prunus serotina Prunus serotina	Elm Mulberry Cherry Elm Cherry Elm Black Cherry Black Cherry	fair fair poor good fair fair fair poor	- Bent/crooked/bowed leader - Leaning lot, dead branches, & significant le - Gall(s)/canker(s) on trunk - Contorted crown - I-sided crown - Extensive rot & dead branches - Unusually small crown - Bent/crooked/bowed leader	N (s)	To Remain
5239 5240 5241 5242 5243 5244 5245 5246 5247	17 / 8 16 9 23 7 16 16	16 18 17 9 24 7 17 17	Ulmus spp. Morus spp. Prunus spp. Ulmus spp. Prunus spp. Ulmus spp. Prunus serotina Prunus serotina Prunus serotina	Elm Mulberry Cherry Elm Cherry Elm Black Cherry Black Cherry Black Cherry	fair poor good fair fair fair fair poor fair	- Bent/crooked/bowed leader - Leaning lot, dead branches, & significant le - Gall(s)/canker(s) on trunk - Contorted crown - I-sided crown - Extensive rot & dead branches - Unusually small crown	N (s)	To Remain
5239 5240 5241 5242 5243 5244 5245 5246 5247 5248 5249	17 / 8 16 9 23 7 16 16 11 17 9	16 18 17 9 24 7 17 17 12 18	Ulmus spp. Morus spp. Prunus spp. Ulmus spp. Prunus spp. Ulmus spp. Prunus serotina Prunus serotina Prunus serotina Prunus serotina Prunus serotina Prunus serotina	Elm Mulberry Cherry Elm Cherry Elm Black Cherry Black Cherry Black Cherry Black Cherry Black Cherry	fair fair poor good fair fair fair poor fair fair	- Bent/crooked/bowed leader - Leaning lot, dead branches, & significant le - Gall(s)/canker(s) on trunk - Contorted crown - I-sided crown - Extensive rot & dead branches - Unusually small crown - Bent/crooked/bowed leader - Bent/crooked/bowed leader	N (s)	To Remain
5239 5240 5241 5242 5243 5244 5245 5246 5247 5248 5249 5250	17 / 8 16 9 23 7 16 16 11 17 9	16 18 17 9 24 7 17 17 12 18 9	Ulmus spp. Morus spp. Prunus spp. Ulmus spp. Prunus spp. Ulmus spp. Prunus serotina Prunus serotina Prunus serotina Prunus serotina Prunus serotina Prunus serotina Acer platanoides	Elm Mulberry Cherry Elm Cherry Elm Black Cherry Black Cherry Black Cherry Black Cherry Norway Maple	fair fair poor good fair fair fair poor fair fair fair	- Bent/crooked/bowed leader - Leaning tot, dead branches, & significant le - Gall(s)/canker(s) on trunk - Contorted crown - I-sided crown - Extensive rot & dead branches - Unusually small crown - Bent/crooked/bowed leader - Bent/crooked/bowed leader	N (s)	To Remain
5239 5240 5241 5242 5243 5244 5245 5246 5247 5248 5249	17/8 16 9 23 7 16 16 11 17 9 11	16 18 17 9 24 7 17 17 12 18 9 12 14	Ulmus spp. Morus spp. Prunus spp. Ulmus spp. Prunus spp. Ulmus spp. Prunus serotina Prunus serotina Prunus serotina Prunus serotina Prunus serotina Prunus serotina	Elm Mulberry Cherry Elm Cherry Elm Black Cherry	fair fair poor good fair fair fair poor fair fair	- Bent/crooked/bowed leader - Leaning lot, dead branches, & significant le - Gall(s)/canker(s) on trunk - Contorted crown - I-sided crown - Extensive rot & dead branches - Unusually small crown - Bent/crooked/bowed leader - Bent/crooked/bowed leader - Contorted crown - Dead branch(es)	N (s)	To Remain
5239 5240 5241 5242 5243 5244 5245 5246 5247 5248 5249 5250	17 / 8 16 9 23 7 16 16 11 17 9	16 18 17 9 24 7 17 17 12 18 9	Ulmus spp. Morus spp. Prunus spp. Ulmus spp. Prunus spp. Ulmus spp. Prunus serotina Prunus serotina Prunus serotina Prunus serotina Prunus serotina Prunus serotina Acer platanoides	Elm Mulberry Cherry Elm Cherry Elm Black Cherry Black Cherry Black Cherry Black Cherry Norway Maple	fair fair poor good fair fair fair poor fair fair fair	- Bent/crooked/bowed leader - Leaning tot, dead branches, & significant le - Gall(s)/canker(s) on trunk - Contorted crown - I-sided crown - Extensive rot & dead branches - Unusually small crown - Bent/crooked/bowed leader - Bent/crooked/bowed leader	N (s)	To Remain
5239 5240 5241 5242 5243 5244 5245 5246 5247 5248 5249 5250 5251	17/8 16 9 23 7 16 16 11 17 9 11	16 18 17 9 24 7 17 17 12 18 9 12 14	Ulmus spp. Morus spp. Prunus spp. Ulmus spp. Prunus spp. Ulmus spp. Prunus serotina Carya spp.	Elm Mulberry Cherry Elm Cherry Elm Black Cherry	fair fair poor good fair fair fair fair fair fair fair fair	- Bent/crooked/bowed leader - Leaning lot, dead branches, & significant le - Gall(s)/canker(s) on trunk - Contorted crown - I-sided crown - Extensive rot & dead branches - Unusually small crown - Bent/crooked/bowed leader - Bent/crooked/bowed leader - Contorted crown - Dead branch(es)	N (s)	To Remain
5239 5240 5241 5242 5243 5244 5245 5246 5247 5248 5249 5250 5251 5252	17 / 8 16 9 23 7 16 16 11 17 9 11 13 29 10	16 18 17 9 24 7 17 17 12 18 9 12 14 30 11	Ulmus spp. Morus spp. Prunus spp. Ulmus spp. Prunus spp. Ulmus spp. Prunus serotina Carya spp. Ulmus spp.	Elm Mulberry Cherry Elm Cherry Elm Black Cherry Black Cherry Black Cherry Black Cherry Black Cherry Black Cherry Hack Cherry Norway Maple Black Cherry Hickory Elm	fair fair poor good fair fair fair fair fair fair fair fair	- Bent/crooked/bowed leader - Leaning lot, dead branches, & significant le - Gall(s)/canker(s) on trunk - Contorted crown - I-sided crown - Extensive rot & dead branches - Unusually small crown - Bent/crooked/bowed leader - Bent/crooked/bowed leader - Contorted crown - Dead branch(es) - Gall(s)/canker(s) on trunk	N (s)	To Remain
5239 5240 5241 5242 5243 5244 5245 5246 5247 5248 5249 5250 5251 5252 5253	17 / 8 16 9 23 7 16 16 11 17 9 11 13 29 10 12	16 18 17 9 24 7 17 17 12 18 9 12 14 30 11	Ulmus spp. Morus spp. Prunus spp. Ulmus spp. Prunus spp. Ulmus spp. Prunus serotina Prunus serotina Prunus serotina Prunus serotina Prunus serotina Prunus serotina Carya spp. Ulmus spp. Juglans spp.	Elm Mulberry Cherry Elm Cherry Elm Black Cherry Black Cherry Black Cherry Black Cherry Black Cherry Hack Cherry Lack Cherry Black Cherry Lack Cherry Lack Cherry Norway Maple Black Cherry Hickory Elm Walnut	fair fair poor good fair fair fair fair fair fair fair fair	- Bent/crooked/bowed leader - Leaning lot, dead branches, & significant le - Gall(s)/canker(s) on trunk - Contorted crown - I-sided crown - Extensive rot & dead branches - Unusually small crown - Bent/crooked/bowed leader - Bent/crooked/bowed leader - Contorted crown - Dead branch(es) - Gall(s)/canker(s) on trunk	N (s) N (c)	To Remain
5239 5240 5241 5242 5243 5244 5245 5246 5247 5248 5249 5250 5251 5252	17 / 8 16 9 23 7 16 16 11 17 9 11 13 29 10	16 18 17 9 24 7 17 17 12 18 9 12 14 30 11	Ulmus spp. Morus spp. Prunus spp. Ulmus spp. Prunus spp. Ulmus spp. Prunus serotina Carya spp. Ulmus spp.	Elm Mulberry Cherry Elm Cherry Elm Black Cherry Black Cherry Black Cherry Black Cherry Black Cherry Black Cherry Hack Cherry Norway Maple Black Cherry Hickory Elm	fair fair poor good fair fair fair fair fair fair fair fair	- Bent/crooked/bowed leader - Leaning lot, dead branches, & significant le - Gall(s)/canker(s) on trunk - Contorted crown - I-sided crown - Extensive rot & dead branches - Unusually small crown - Bent/crooked/bowed leader - Bent/crooked/bowed leader - Contorted crown - Dead branch(es) - Gall(s)/canker(s) on trunk	N (s)	To Remain
5239 5240 5241 5242 5243 5244 5245 5246 5247 5248 5249 5250 5251 5252 5253	17 / 8 16 9 23 7 16 16 11 17 9 11 13 29 10 12	16 18 17 9 24 7 17 17 12 18 9 12 14 30 11	Ulmus spp. Morus spp. Prunus spp. Ulmus spp. Prunus spp. Ulmus spp. Prunus serotina Prunus serotina Prunus serotina Prunus serotina Prunus serotina Prunus serotina Carya spp. Ulmus spp. Juglans spp.	Elm Mulberry Cherry Elm Cherry Elm Black Cherry Black Cherry Black Cherry Black Cherry Black Cherry Hack Cherry Lack Cherry Black Cherry Lack Cherry Lack Cherry Norway Maple Black Cherry Hickory Elm Walnut	fair fair poor good fair fair fair fair fair fair fair fair	- Bent/crooked/bowed leader - Leaning lot, dead branches, & significant le - Gall(s)/canker(s) on trunk - Contorted crown - I-sided crown - Extensive rot & dead branches - Unusually small crown - Bent/crooked/bowed leader - Bent/crooked/bowed leader - Contorted crown - Dead branch(es) - Gall(s)/canker(s) on trunk	N (s) N (c)	To Remain
5239 5240 5241 5242 5243 5244 5245 5246 5247 5248 5249 5250 5251 5252 5253 5254 5255	17/8 16 9 23 7 16 16 11 17 9 11 13 29 10 12 7 21	16 18 17 9 24 7 17 17 12 18 9 12 14 30 11 13 7	Ulmus spp. Morus spp. Prunus spp. Ulmus spp. Prunus spp. Ulmus spp. Prunus serotina Prunus serotina Prunus serotina Prunus serotina Prunus serotina Acer platanoides Prunus serotina Carya spp. Ulmus spp. Juglans spp. Ulmus spp. Ulmus spp. Morus spp.	Elm Mulberry Cherry Elm Cherry Elm Black Cherry Black Cherry Black Cherry Black Cherry Black Cherry Hickory Elm Walnut Elm Mulberry	fair fair poor good fair fair fair fair fair fair fair fair	- Bent/crooked/bowed leader - Leaning lot, dead branches, & significant le - Gall(s)/canker(s) on trunk - Contorted crown - I-sided crown - Extensive rot & dead branches - Unusually small crown - Bent/crooked/bowed leader - Bent/crooked/bowed leader - Contorted crown - Dead branch(es) - Gall(s)/canker(s) on trunk - Bent/crooked/bowed leader	N (s) N (c)	To Remain
5239 5240 5241 5242 5243 5244 5245 5246 5247 5248 5249 5250 5251 5252 5253 5254 5255 5256 5257	17/8 16 9 23 7 16 16 11 17 9 11 13 29 10 12 7 21	16 18 17 9 24 7 17 17 12 18 9 12 14 30 11 13 7 22 12	Ulmus spp. Morus spp. Prunus spp. Ulmus spp. Ulmus spp. Ulmus spp. Prunus serotina Prunus serotina Prunus serotina Prunus serotina Prunus serotina Acer platanoides Prunus serotina Carya spp. Ulmus spp. Juglans spp. Ulmus spp. Morus spp. Morus spp.	Elm Mulberry Cherry Elm Cherry Elm Black Cherry Black Cherry Black Cherry Black Cherry Black Cherry Black Cherry Cherry Black Cherry Black Cherry Black Cherry Norway Maple Black Cherry Hickory Elm Walnut Elm Mulberry Mulberry	fair fair poor good fair fair fair poor fair fair fair fair fair good good poor fair	- Bent/crooked/bowed leader - Leaning lot, dead branches, & significant le - Gall(s)/canker(s) on trunk - Contorted crown - I-sided crown - Extensive rot & dead branches - Unusually small crown - Bent/crooked/bowed leader - Bent/crooked/bowed leader - Contorted crown - Dead branch(es) - Gall(s)/canker(s) on trunk - Bent/crooked/bowed leader unk compromised from large wo - Contorted crown	N (s) N (c) N (s) N (s) N (s)	To Remain
5239 5240 5241 5242 5243 5244 5245 5246 5247 5248 5249 5250 5251 5252 5253 5254 5255 5256 5257 5258	17/8 16 9 23 7 16 16 11 17 9 11 13 29 10 12 7 21 11 16	16 18 17 9 24 7 17 17 12 18 9 12 14 30 11 13 7 22 12 10	Ulmus spp. Morus spp. Prunus spp. Ulmus spp. Prunus spp. Ulmus spp. Prunus serotina Prunus serotina Prunus serotina Prunus serotina Prunus serotina Acer platanoides Prunus serotina Carya spp. Ulmus spp. Juglans spp. Ulmus spp. Ulmus spp. Morus spp.	Elm Mulberry Cherry Elm Cherry Elm Black Cherry Black Cherry Black Cherry Black Cherry Hickory Elm Walnut Elm Mulberry Mulberry Black Cherry	fair fair poor good fair fair fair fair fair fair fair fair	- Bent/crooked/bowed leader - Leaning lot, dead branches, & significant le - Gall(s)/canker(s) on trunk - Contorted crown - I-sided crown - Extensive rot & dead branches - Unusually small crown - Bent/crooked/bowed leader - Bent/crooked/bowed leader - Contorted crown - Dead branch(es) - Gall(s)/canker(s) on trunk - Bent/crooked/bowed leader unk compromised from large wo - Contorted crown - 75% or more dead	N (s) N (c)	To Remain
5239 5240 5241 5242 5243 5244 5245 5246 5247 5248 5249 5250 5251 5252 5253 5254 5255 5256 5257	17/8 16 9 23 7 16 16 11 17 9 11 13 29 10 12 7 21	16 18 17 9 24 7 17 17 12 18 9 12 14 30 11 13 7 22 12	Ulmus spp. Morus spp. Prunus spp. Ulmus spp. Ulmus spp. Ulmus spp. Prunus serotina Prunus serotina Prunus serotina Prunus serotina Prunus serotina Acer platanoides Prunus serotina Carya spp. Ulmus spp. Juglans spp. Ulmus spp. Morus spp. Morus spp.	Elm Mulberry Cherry Elm Cherry Elm Black Cherry Black Cherry Black Cherry Black Cherry Black Cherry Black Cherry Cherry Black Cherry Black Cherry Black Cherry Norway Maple Black Cherry Hickory Elm Walnut Elm Mulberry Mulberry	fair fair poor good fair fair fair poor fair fair fair fair fair good good poor fair	- Bent/crooked/bowed leader - Leaning lot, dead branches, & significant le - Gall(s)/canker(s) on trunk - Contorted crown - I-sided crown - Extensive rot & dead branches - Unusually small crown - Bent/crooked/bowed leader - Bent/crooked/bowed leader - Contorted crown - Dead branch(es) - Gall(s)/canker(s) on trunk - Bent/crooked/bowed leader unk compromised from large wo - Contorted crown	N (s) N (c) N (s) N (s) N (s)	To Remain
5239 5240 5241 5242 5243 5244 5245 5246 5247 5248 5249 5250 5251 5252 5253 5254 5255 5256 5257 5258	17/8 16 9 23 7 16 16 11 17 9 11 13 29 10 12 7 21 11 16 10	16 18 17 9 24 7 17 17 12 18 9 12 14 30 11 13 7 22 12 10 11	Ulmus spp. Morus spp. Prunus spp. Ulmus spp. Ulmus spp. Ulmus spp. Prunus serotina Prunus serotina Prunus serotina Prunus serotina Prunus serotina Acer platanoides Prunus serotina Carya spp. Ulmus spp. Juglans spp. Ulmus spp. Morus spp. Morus spp. Prunus serotina Prunus serotina	Elm Mulberry Cherry Elm Cherry Elm Black Cherry Black Cherry Black Cherry Black Cherry Hickory Elm Walnut Elm Mulberry Mulberry Black Cherry	fair fair poor good fair fair fair fair fair fair fair fair	- Bent/crooked/bowed leader - Leaning lot, dead branches, & significant le - Gall(s)/canker(s) on trunk - Contorted crown - I-sided crown - Extensive rot & dead branches - Unusually small crown - Bent/crooked/bowed leader - Bent/crooked/bowed leader - Contorted crown - Dead branch(es) - Gall(s)/canker(s) on trunk - Bent/crooked/bowed leader unk compromised from large wo - Contorted crown - 75% or more dead - Dead branch(es)	N (s) N (c) N (s) N (s) N (c)	To Remain
5239 5240 5241 5242 5243 5244 5245 5246 5247 5248 5249 5250 5251 5252 5253 5254 5255 5256 5257 5258 5259	17/8 16 9 23 7 16 16 11 17 9 11 13 29 10 12 7 21 11 16 10 9/2	16 18 17 9 24 7 17 17 12 18 9 12 14 30 11 13 7 22 12 10 11 9	Ulmus spp. Morus spp. Prunus spp. Ulmus spp. Prunus spp. Ulmus spp. Prunus serotina Prunus serotina Prunus serotina Prunus serotina Prunus serotina Acer platanoides Prunus serotina Carya spp. Ulmus spp. Juglans spp. Ulmus spp. Morus spp. Morus spp. Prunus serotina Rhamnus cathartica	Elm Mulberry Cherry Elm Cherry Elm Black Cherry Black Cherry Black Cherry Black Cherry Hack Cherry Norway Maple Black Cherry Hickory Elm Walnut Elm Mulberry Mulberry Black Cherry Common Buckthorn	fair fair poor good fair fair fair fair fair fair fair fair	- Bent/crooked/bowed leader - Leaning lot, dead branches, & significant le - Gall(s)/canker(s) on trunk - Contorted crown - I-sided crown - Extensive rot & dead branches - Unusually small crown - Bent/crooked/bowed leader - Bent/crooked/bowed leader - Contorted crown - Dead branch(es) - Gall(s)/canker(s) on trunk - Bent/crooked/bowed leader unk compromised from large wo - Contorted crown - 75% or more dead - Dead branch(es) nker(s)/gall(s) & rot throughout t	N (s) N (c) N (s) N (s) N (c) N (c)	To Remain
5239 5240 5241 5242 5243 5244 5245 5246 5247 5248 5249 5250 5251 5252 5253 5254 5255 5256 5257 5258 5259 5260 5261	17/8 16 9 23 7 16 16 11 17 9 11 13 29 10 12 7 21 11 16 10 9/2 11/8/5/	16 18 17 9 24 7 17 17 12 18 9 12 14 30 11 13 7 22 12 10 11 9	Ulmus spp. Morus spp. Prunus spp. Ulmus spp. Prunus spp. Ulmus spp. Prunus serotina Prunus serotina Prunus serotina Prunus serotina Acer platanoides Prunus serotina Carya spp. Ulmus spp. Juglans spp. Ulmus spp. Funus serotina Rorus serotina Rorus spp. Rorus spp. Anorus spp. Prunus serotina Prunus serotina Rorus spp. Rorus spp. Rorus spp. Rorus serotina Prunus serotina	Elm Mulberry Cherry Elm Cherry Elm Black Cherry Black Cherry Black Cherry Black Cherry Norway Maple Black Cherry Lickory Elm Walnut Elm Mulberry Mulberry Black Cherry Common Buckthorn	fair fair poor good fair fair fair fair fair fair fair fair	- Bent/crooked/bowed leader - Leaning lot, dead branches, & significant le - Gall(s)/canker(s) on trunk - Contorted crown - I-sided crown - Extensive rot & dead branches - Unusually small crown - Bent/crooked/bowed leader - Bent/crooked/bowed leader - Contorted crown - Dead branch(es) - Gall(s)/canker(s) on trunk - Bent/crooked/bowed leader unk compromised from large wo - Contorted crown - 75% or more dead - Dead branch(es) nker(s)/gall(s) & rot throughout to	N (s) N (c) N (s) N (s) N (c)	To Remain
5239 5240 5241 5242 5243 5244 5245 5246 5247 5248 5249 5250 5251 5252 5253 5254 5255 5256 5257 5258 5259	17/8 16 9 23 7 16 16 11 17 9 11 13 29 10 12 7 21 11 16 10 9/2	16 18 17 9 24 7 17 17 12 18 9 12 14 30 11 13 7 22 12 10 11 9	Ulmus spp. Morus spp. Prunus spp. Ulmus spp. Prunus spp. Ulmus spp. Prunus serotina Prunus serotina Prunus serotina Prunus serotina Prunus serotina Acer platanoides Prunus serotina Carya spp. Ulmus spp. Juglans spp. Ulmus spp. Morus spp. Morus spp. Prunus serotina Rhamnus cathartica	Elm Mulberry Cherry Elm Cherry Elm Black Cherry Black Cherry Black Cherry Black Cherry Hack Cherry Norway Maple Black Cherry Hickory Elm Walnut Elm Mulberry Mulberry Black Cherry Common Buckthorn	fair fair poor good fair fair fair fair fair fair fair fair	- Bent/crooked/bowed leader - Leaning lot, dead branches, & significant le - Gall(s)/canker(s) on trunk - Contorted crown - I-sided crown - Extensive rot & dead branches - Unusually small crown - Bent/crooked/bowed leader - Bent/crooked/bowed leader - Contorted crown - Dead branch(es) - Gall(s)/canker(s) on trunk - Bent/crooked/bowed leader unk compromised from large wo - Contorted crown - 75% or more dead - Dead branch(es) nker(s)/gall(s) & rot throughout t	N (s) N (c) N (s) N (s) N (c) N (c)	To Remain
5239 5240 5241 5242 5243 5244 5245 5246 5247 5248 5249 5250 5251 5252 5253 5254 5255 5256 5257 5258 5259 5260 5261	17/8 16 9 23 7 16 16 11 17 9 11 13 29 10 12 7 21 11 16 10 9/2 11/8/5/	16 18 17 9 24 7 17 17 12 18 9 12 14 30 11 13 7 22 12 10 11 9 12 13	Ulmus spp. Morus spp. Prunus spp. Ulmus spp. Prunus spp. Ulmus spp. Prunus serotina Prunus serotina Prunus serotina Prunus serotina Prunus serotina Acer platanoides Prunus serotina Carya spp. Ulmus spp. Juglans spp. Ulmus spp. Morus spp. Morus spp. Prunus serotina Rhamnus cathartica Rhamnus cathartica	Elm Mulberry Cherry Elm Cherry Elm Black Cherry Black Cherry Black Cherry Black Cherry Norway Maple Black Cherry Hickory Elm Walnut Elm Mulberry Mulberry Black Cherry Common Buckthorn Norway Maple	fair fair poor good fair fair fair fair fair fair fair fair	- Bent/crooked/bowed leader - Leaning lot, dead branches, & significant le - Gall(s)/canker(s) on trunk - Contorted crown - I-sided crown - Extensive rot & dead branches - Unusually small crown - Bent/crooked/bowed leader - Bent/crooked/bowed leader - Contorted crown - Dead branch(es) - Gall(s)/canker(s) on trunk - Bent/crooked/bowed leader unk compromised from large wo - Contorted crown - 75% or more dead - Dead branch(es) nker(s)/gall(s) & rot throughout to	N (s) N (c) N (s) N (s) N (c) N (c)	To Remain
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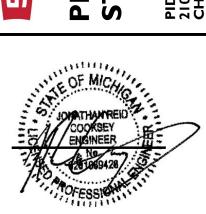
TREE SURVEY COMPLETED BY KEM	-TEC SURVEYING DATED 9/29/202

5265	14/11	5	Prunus serotina	Black Cherry	poor	- 75% or more dead	N (c)	To Remain
5266	8/4	5	Rhamnus cathartica	Common Buckthorn	poor	- 50% or more dead	N (c)	To Remain
5267	8	5	Prunus serotina	Black Cherry	poor	- 50% or more dead	N (c)	To Remain
5268	21	22	Populus deltoides	Cottonwood	good			To Remain
5269	17/10	18	Morus spp.	Mulberry	poor	- Extensive rot/hollow @ crotch	N (c)	To Remain
5270	8/3	8	Salix spp.	Willow	fair	- Rot in trunk		To Remain
5271	16	17	Populus deltoides	Cottonwood	good			To Remain
5272	8/3/3/	8	Rhamnus cathartica	Common Buckthorn	poor	- Hollow/extensive rot	N (c)	To Remain
5273	П	12	Prunus serotina	Black Cherry	good			To Remain
5274	10	П	Ulmus spp.	Elm	fair	- Leaning		To Remain
5275	8	5	Ulmus spp.	Elm	poor	- 75% or more dead	N (c)	To Remain
5276	27	20	Prunus serotina	Black Cherry	poor	- 75% or more dead	N (c)	To Remain
5277	17	18	Prunus serotina	Black Cherry	poor	- Hollow/extensive rot	N (c)	To Remain
5278	12	13	Ulmus spp.	Elm	fair	- I-sided crown		To Remain
5279	10	П	Ulmus spp.	Elm	good			To Remain
5280	12 / 4 /	13	Rhamnus cathartica	Common Buckthorn	poor	nker(s)/gall(s) & rot throughout t	N (c)	To Remain
5281	7 / 5 /	7	Rhamnus cathartica	Common Buckthorn	poor	nker(s)/gall(s) & rot throughout t	N (s, c)	To Remain
5282	25	26	Ulmus spp.	Elm	good			To Remain
5283	8	8	Ulmus spp.	Elm	fair	- Bent/crooked/bowed leader		To Remain
5284	9	9	Ulmus spp.	Elm	fair	- Bent/crooked/bowed leader		To Remain
5285	9	9	Populus deltoides	Cottonwood	fair	- Rot in trunk		To Remain
5286	П	12	Ulmus spp.	Elm	good			To Remain
5287	7	7	Prunus spp.	Cherry	fair	- Leaning	N (s)	To Remain
5288	9 /	9	Rhamnus cathartica	Common Buckthorn	poor	- 50% or more dead	N (c)	To Remain
5289	19	20	Juglans spp.	Walnut	good			To Remain
5290	12	13	Morus spp.	Mulberry	poor	- Split(ting)/break(ing) apart	N (c)	To Remain
5291	14	15	Juglans spp.	Walnut	fair	- Bent/crooked/bowed leader		To Remain
5292	15		_		dead		N (c)	To Remain
5293	13	14	Juglans spp.	Walnut	fair	· Vertical crack(s)/scar(s) on trunk		To Remain

TREE SURVEY COMPLETED BY KEM-TEC SURVEYING DATED 9/29/2023.

NOT APPROVED FOR CONSTRUCTION



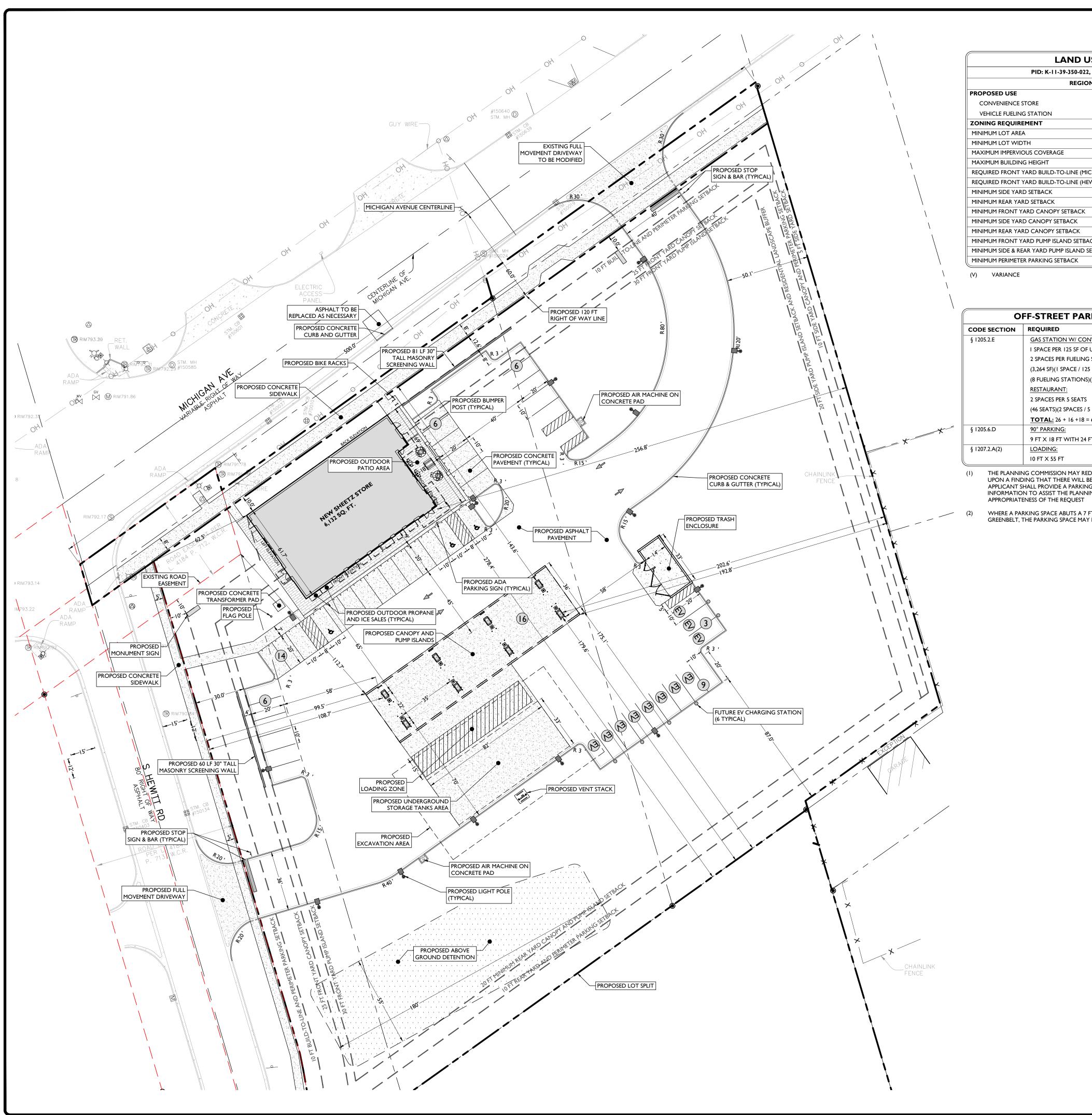


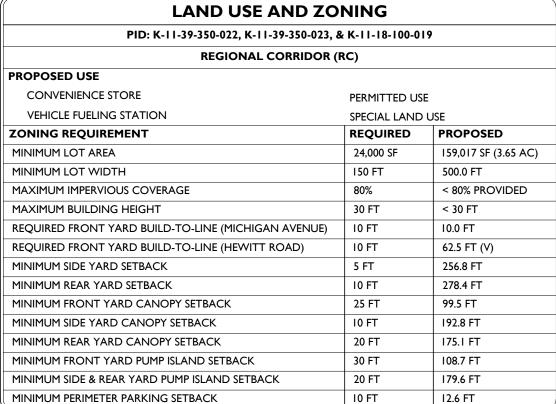




I" = 30' PROJECT ID: DET-230091.01

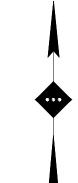
TREE INVENTORY





OFF-STREET PARKING REQUIREMENTS						
CODE SECTION	REQUIRED	PROPOSED				
§ 1205.2.E	GAS STATION W/ CONVENIENCE STORE:	60 SPACES				
	I SPACE PER 125 SF OF UFA PLUS					
	2 SPACES PER FUELING STATION					
	(3,264 SF)(1 SPACE / 125 SF) = 26 SPACES					
	(8 FUELING STATIONS)(2 SPACES / STATION) = 16 SPACES					
	RESTAURANT:					
	2 SPACES PER 5 SEATS					
	(46 SEATS)(2 SPACES / 5 SEATS) = 18 SPACES					
	TOTAL: 26 + 16 + 18 = 60 SPACES (1)					
§ 1205.6.D	90° PARKING:	10 FT X 20 FT				
	9 FT X 18 FT WITH 24 FT AISLE (2)	W/ 40 FT AISLE				
§ 1207.2.A(2)	LOADING:	15 FT × 82 FT				
	10 FT X 55 FT					

- THE PLANNING COMMISSION MAY REDUCE THE PARKING REQUIREMENTS BASED UPON A FINDING THAT THERE WILL BE A LOWER DEMAND FOR PARKING. THE APPLICANT SHALL PROVIDE A PARKING STUDY WITH ADEQUATE DETAIL AND INFORMATION TO ASSIST THE PLANNING COMMISSION TO DETERMINE THE
- WHERE A PARKING SPACE ABUTS A 7 FT WIDE SIDEWALK OR A 10 FT WIDE GREENBELT, THE PARKING SPACE MAY BE REDUCED BY 2 FT IN LENGTH



SYMBOL

SETBACK LINE

PROPOSED BUILDING

DESCRIPTION PROPERTY LINE PROPOSED CURB PROPOSED CONCRETE PROPOSED BRICK PAVERS PROPOSED SCREENING FENCE PROPOSED BUILDING DOORS PROPOSED ABOVE GROUND DETENTION BASIN

GENERAL NOTES

- I. THE CONTRACTOR SHALL VERIFY AND FAMILIARIZE THEMSELVES WITH THE EXISTING SITE CONDITIONS AND THE PROPOSED SCOPE OF WORK (INCLUDING DIMENSIONS, LAYOUT, ETC.) PRIOR TO INITIATING THE IMPROVEMENTS IDENTIFIED WITHIN THESE DOCUMENTS. SHOULD ANY DISCREPANCY BE FOUND BETWEEN THE EXISTING SITE CONDITIONS AND THE PROPOSED WORK THE CONTRACTOR SHALL NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC. PRIOR TO THE START OF CONSTRUCTION.
- 2. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND ENSURE THAT ALL REQUIRED APPROVALS HAVE BEEN OBTAINED PRIOR TO THE START OF CONSTRUCTION. COPIES OF ALL REQUIRED PERMITS AND APPROVALS SHALL BE KEPT ON SITE AT ALL TIMES
- DURING CONSTRUCTION. 3. ALL CONTRACTORS WILL, TO THE FULLEST EXTENT PERMITTED BY LAW, INDEMNIFY AND HOLD HARMLESS STONEFIELD ENGINEERING & DESIGN, LLC. AND IT'S SUB-CONSULTANTS FROM AND AGAINST ANY DAMAGES AND LIABILITIES INCLUDING ATTORNEY'S FEES ARISING OUT OF CLAIMS BY EMPLOYEES OF THE CONTRACTOR IN ADDITION TO CLAIMS CONNECTED TO THE PROJECT AS A RESULT OF NOT CARRYING THE PROPER INSURANCE FOR WORKERS COMPENSATION, LIABILITY INSURANCE, AND LIMITS OF COMMERCIAL GENERAL
- LIABILITY INSURANCE. 4. THE CONTRACTOR SHALL NOT DEVIATE FROM THE PROPOSED IMPROVEMENTS IDENTIFIED WITHIN THIS PLAN SET UNLESS APPROVAL IS PROVIDED IN WRITING BY STONEFIELD ENGINEERING & DESIGN,
- 5. THE CONTRACTOR IS RESPONSIBLE TO DETERMINE THE MEANS AND
- METHODS OF CONSTRUCTION. 6. THE CONTRACTOR SHALL NOT PERFORM ANY WORK OR CAUSE DISTURBANCE ON A PRIVATE PROPERTY NOT CONTROLLED BY THE
- PERSON OR ENTITY WHO HAS AUTHORIZED THE WORK WITHOUT PRIOR WRITTEN CONSENT FROM THE OWNER OF THE PRIVATE PROPERTY. 7. THE CONTRACTOR IS RESPONSIBLE TO RESTORE ANY DAMAGED OR UNDERMINED STRUCTURE OR SITE FEATURE THAT IS IDENTIFIED TO REMAIN ON THE PLAN SET. ALL REPAIRS SHALL USE NEW MATERIALS
- TO RESTORE THE FEATURE TO ITS EXISTING CONDITION AT THE CONTRACTORS EXPENSE. 8. CONTRACTOR IS RESPONSIBLE TO PROVIDE THE APPROPRIATE SHOP DRAWINGS, PRODUCT DATA, AND OTHER REQUIRED SUBMITTALS FOR REVIEW. STONEFIELD ENGINEERING & DESIGN, LLC. WILL REVIEW
- REFLECTED WITHIN THE PLAN SET. 9. THE CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL IN ACCORDANCE WITH MANUAL ON UNIFORM TRAFFIC CONTROL

THE SUBMITTALS IN ACCORDANCE WITH THE DESIGN INTENT AS

- DEVICES, LATEST EDITION. 10. THE CONTRACTOR IS REQUIRED TO PERFORM ALL WORK IN THE PUBLIC RIGHT-OF-WAY IN ACCORDANCE WITH THE APPROPRIATE GOVERNING AUTHORITY AND SHALL BE RESPONSIBLE FOR THE PROCUREMENT OF STREET OPENING PERMITS.
- 11. THE CONTRACTOR IS REQUIRED TO RETAIN AN OSHA CERTIFIED SAFETY INSPECTOR TO BE PRESENT ON SITE AT ALL TIMES DURING CONSTRUCTION & DEMOLITION ACTIVITIES. 12. SHOULD AN EMPLOYEE OF STONEFIELD ENGINEERING & DESIGN, LLC.

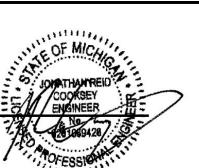
BE PRESENT ON SITE AT ANY TIME DURING CONSTRUCTION, IT DOES NOT RELIEVE THE CONTRACTOR OF ANY OF THE RESPONSIBILITIES AND REQUIREMENTS LISTED IN THE NOTES WITHIN THIS PLAN SET.

GRAPHIC SCALE IN FEET

I" = 30'

						REVISED FOR SITE PLAN REVIEW	FOR SITE PLAN REVIEW	FOR SITE PLAN REVIEW	DESCRIPTION
						КН	NB/JD	NB/JD	ВУ
						06/12/2024	05/09/2024	04/09/2024	DATE
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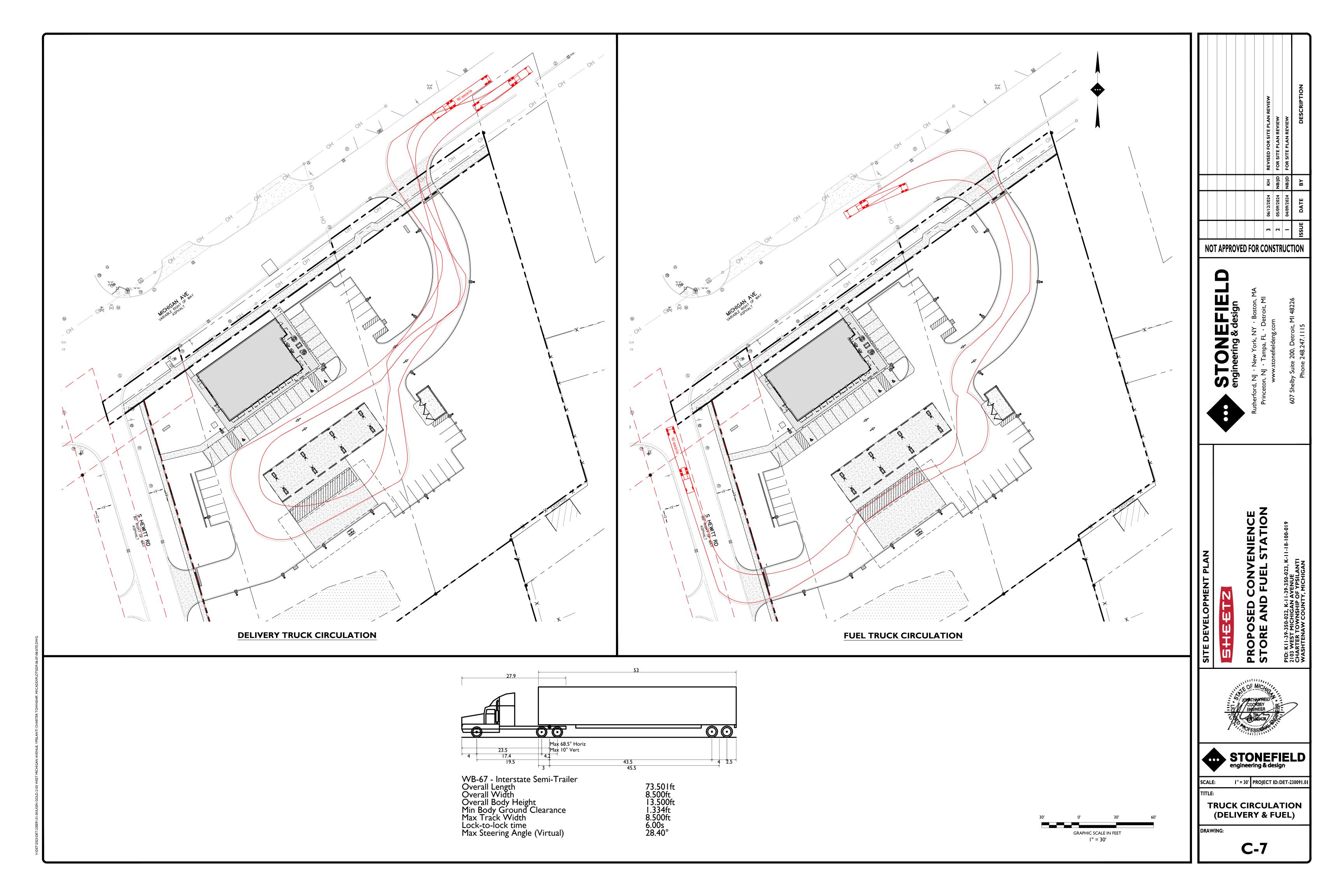


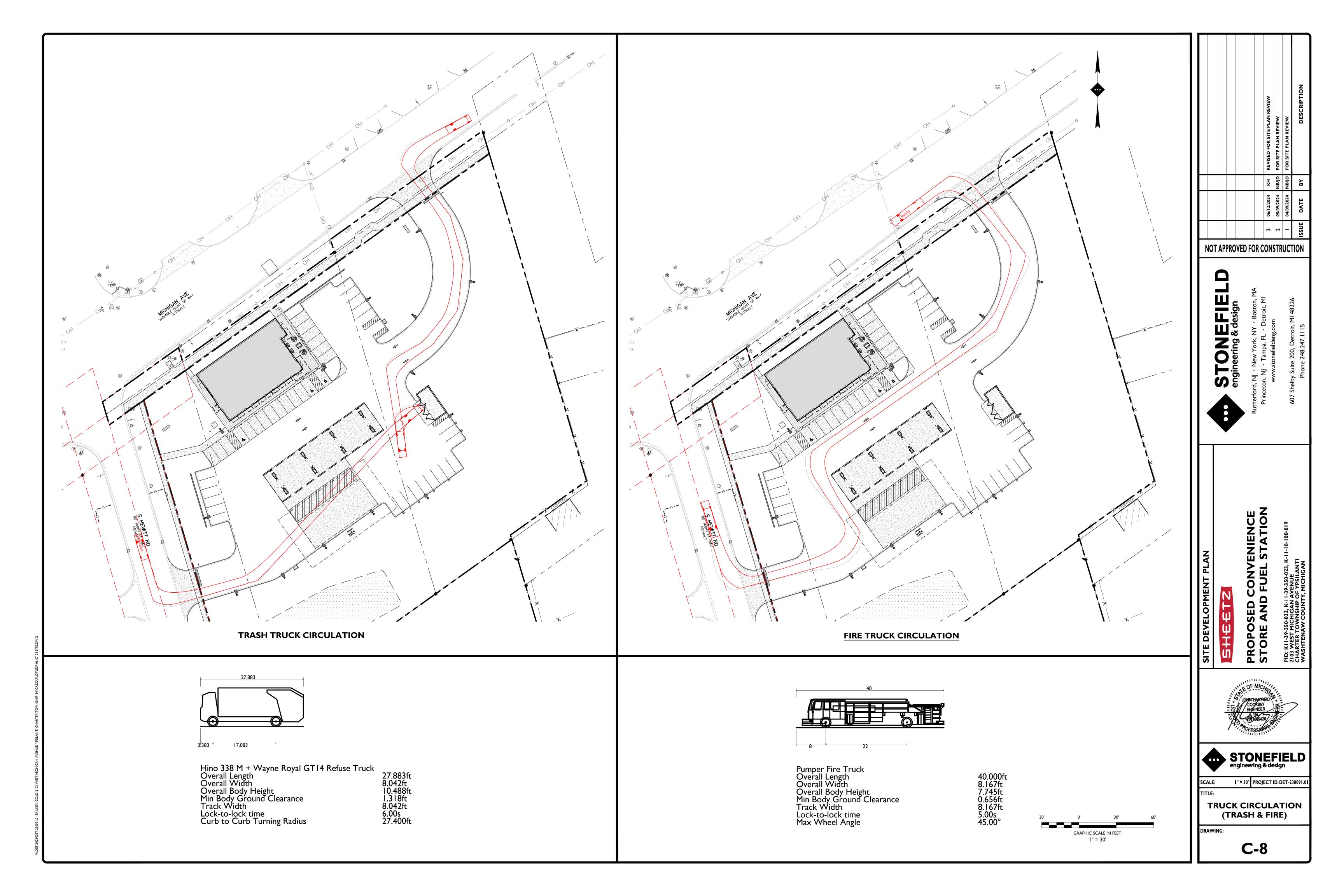


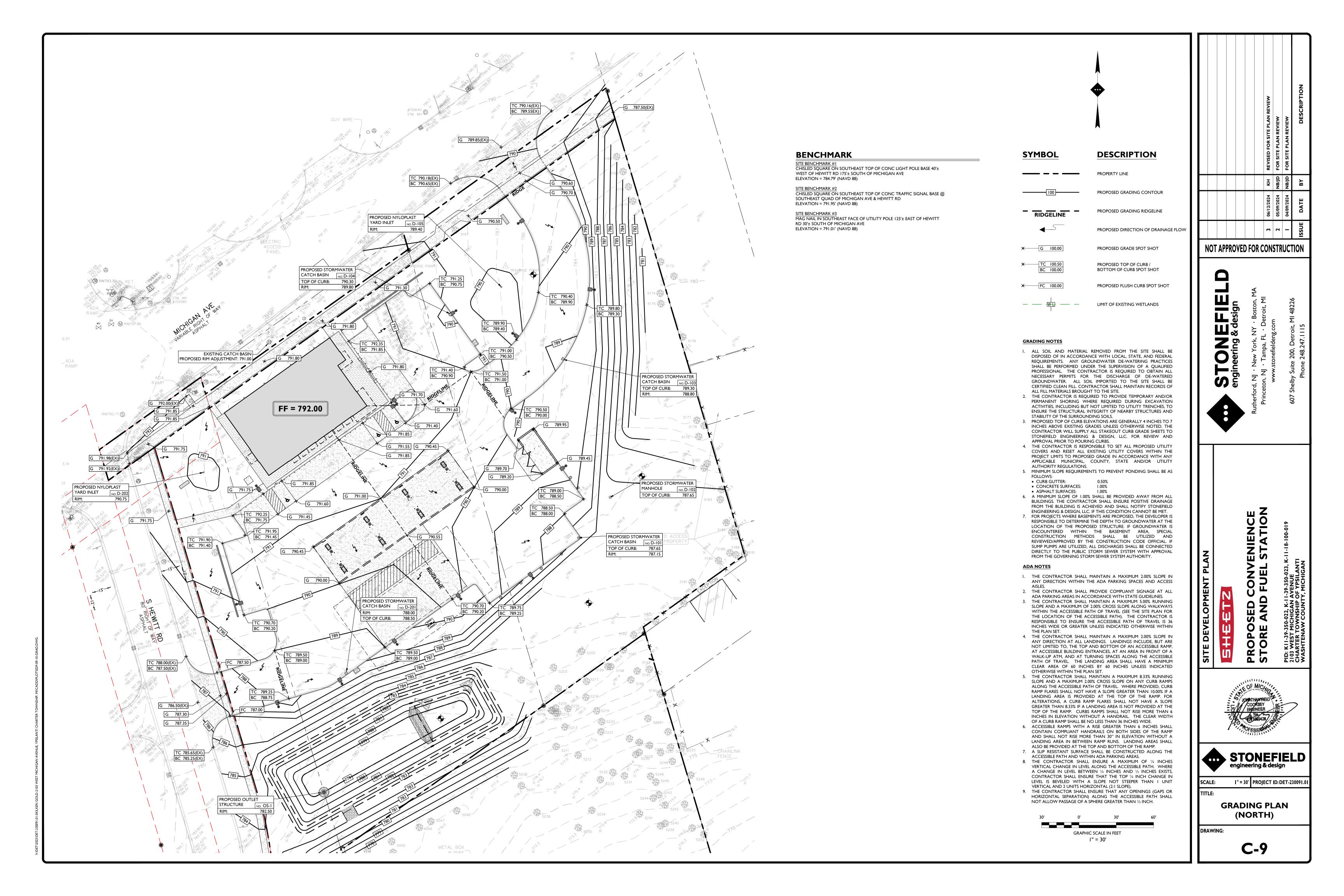
I" = 30' PROJECT ID: DET-230091.01

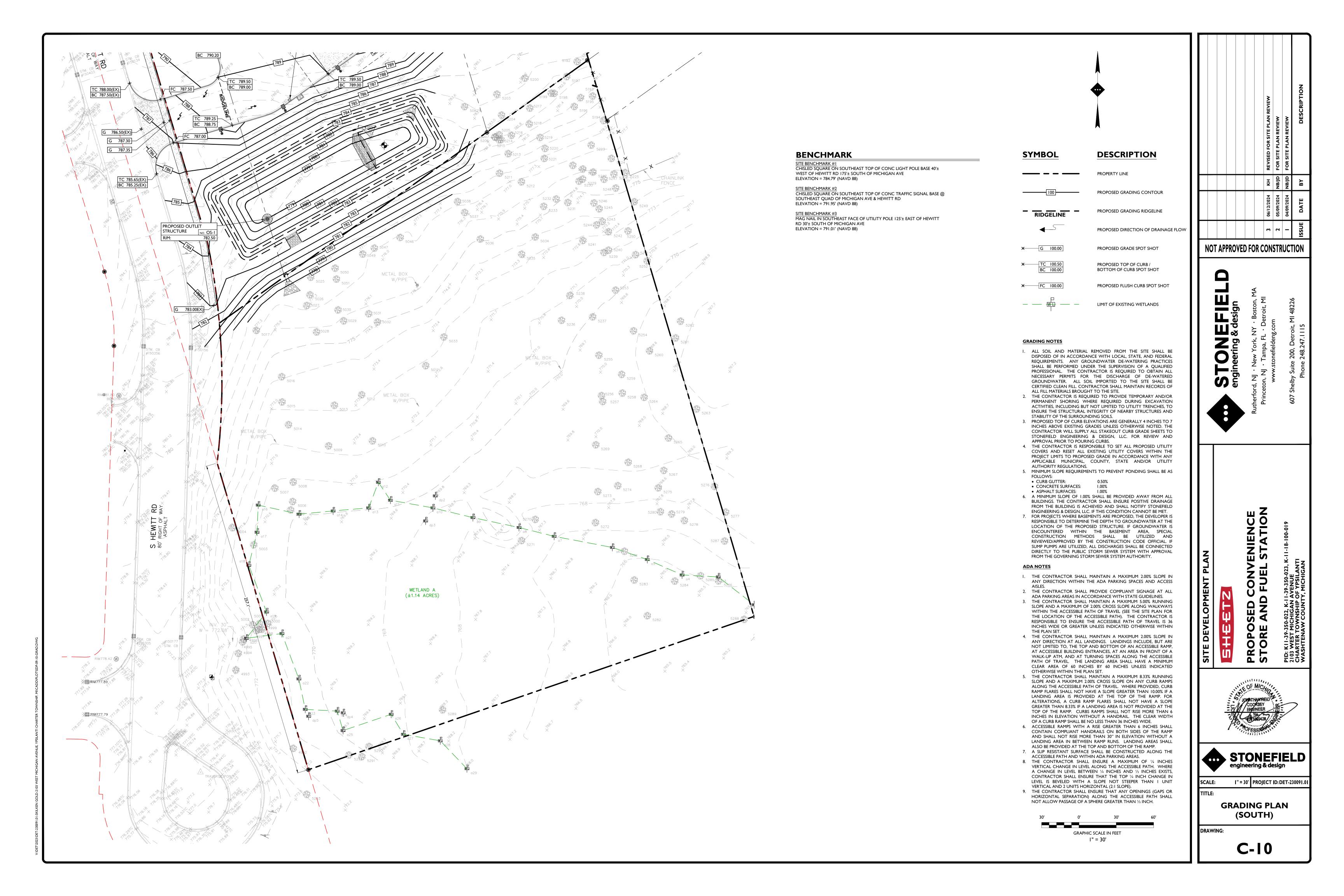
SITE PLAN

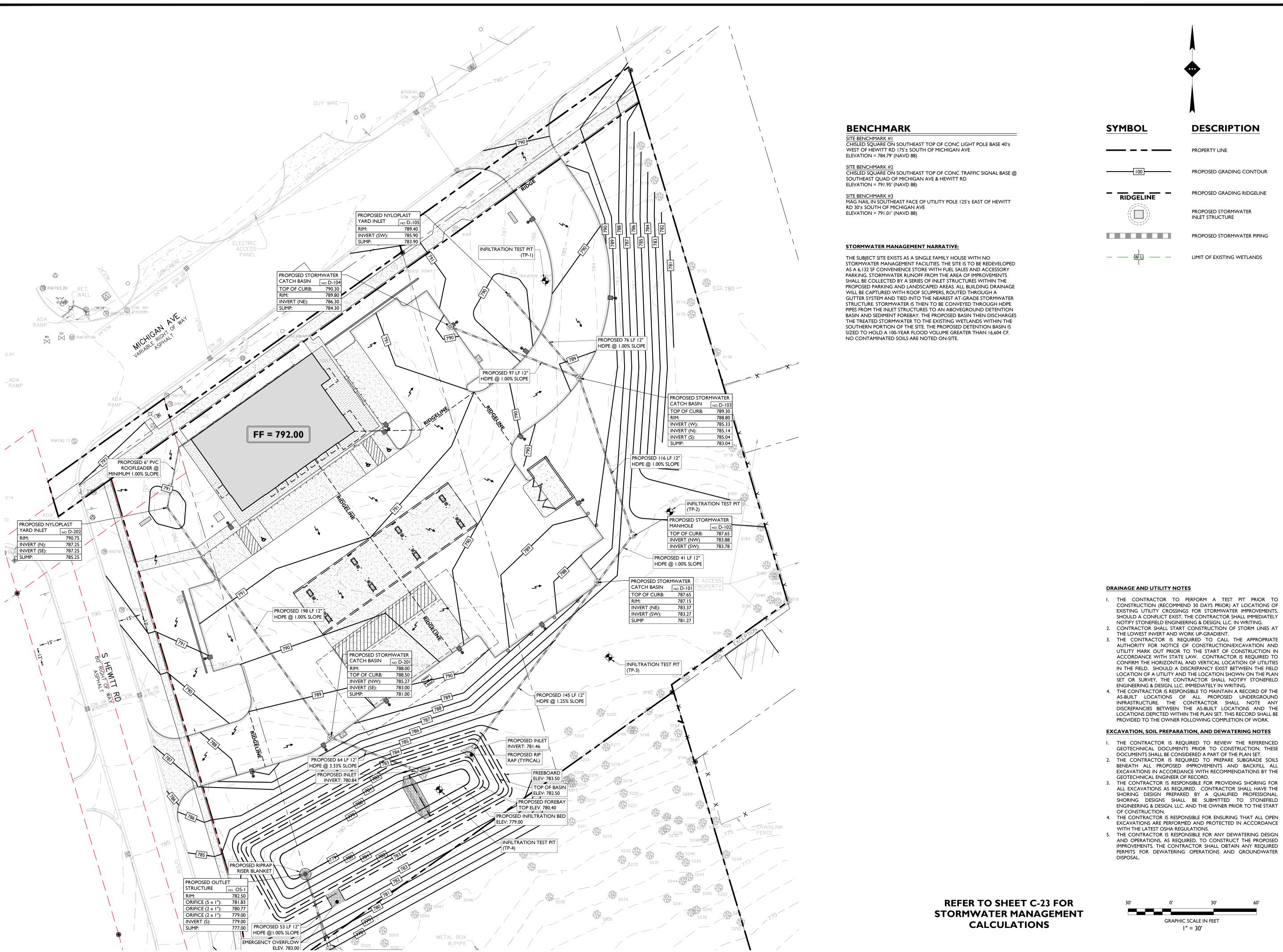
DRAWING:











SYMBOL

DESCRIPTION

PROPERTY LINE

PROPOSED GRADING CONTOUR

PROPOSED GRADING RIDGELINE

PROPOSED STORMWATER INLET STRUCTURE

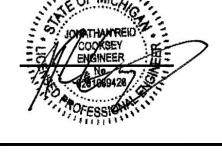
PROPOSED STORMWATER PIPING

LIMIT OF EXISTING WETLANDS

NOT APPROVED FOR CONSTRUCTION



SED CAND OP OR



STONEFIELD engineering & design

I" = 30' PROJECT ID: DET-230091.01

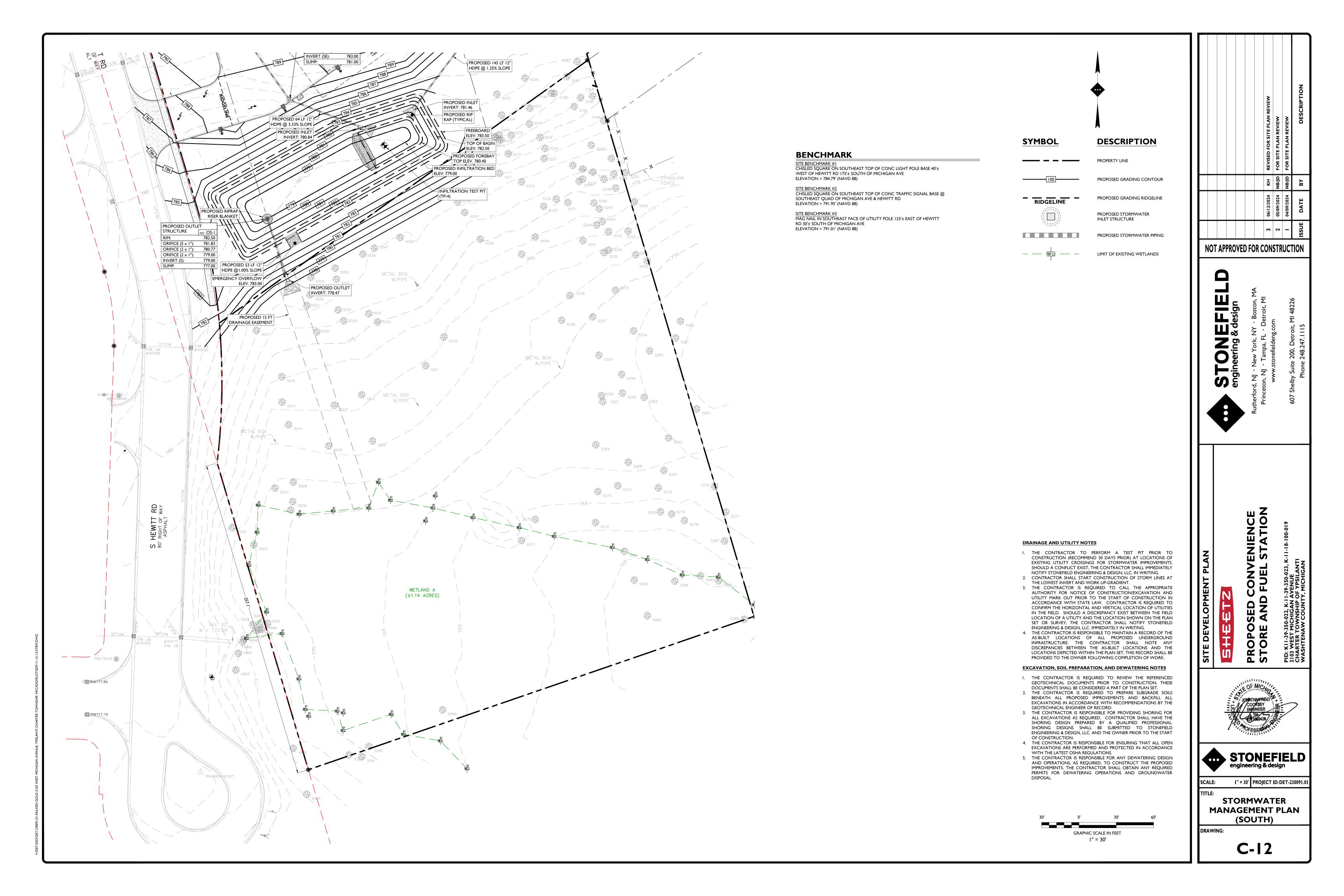
STORMWATER MANAGEMENT PLAN

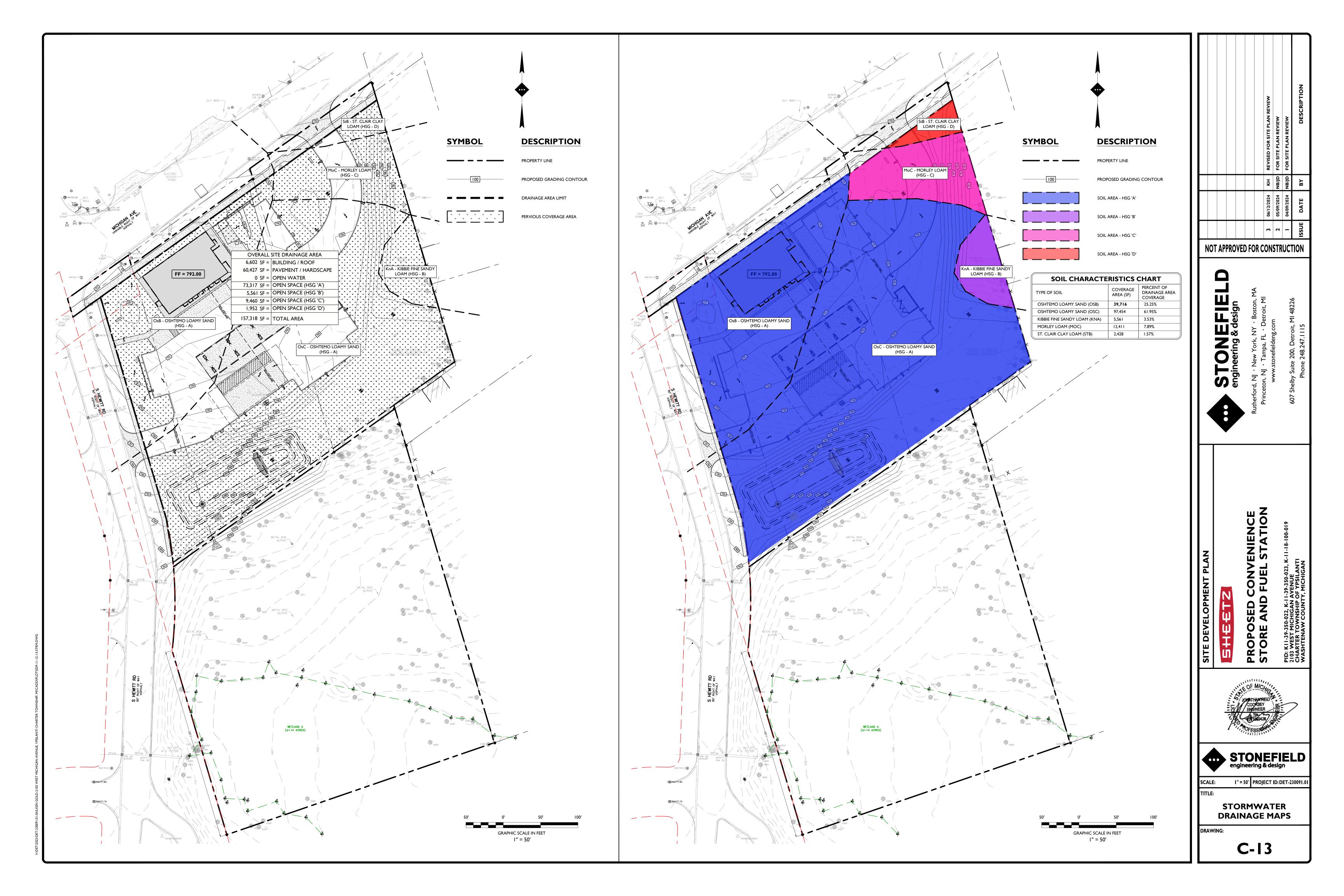
(NORTH) DRAWING:

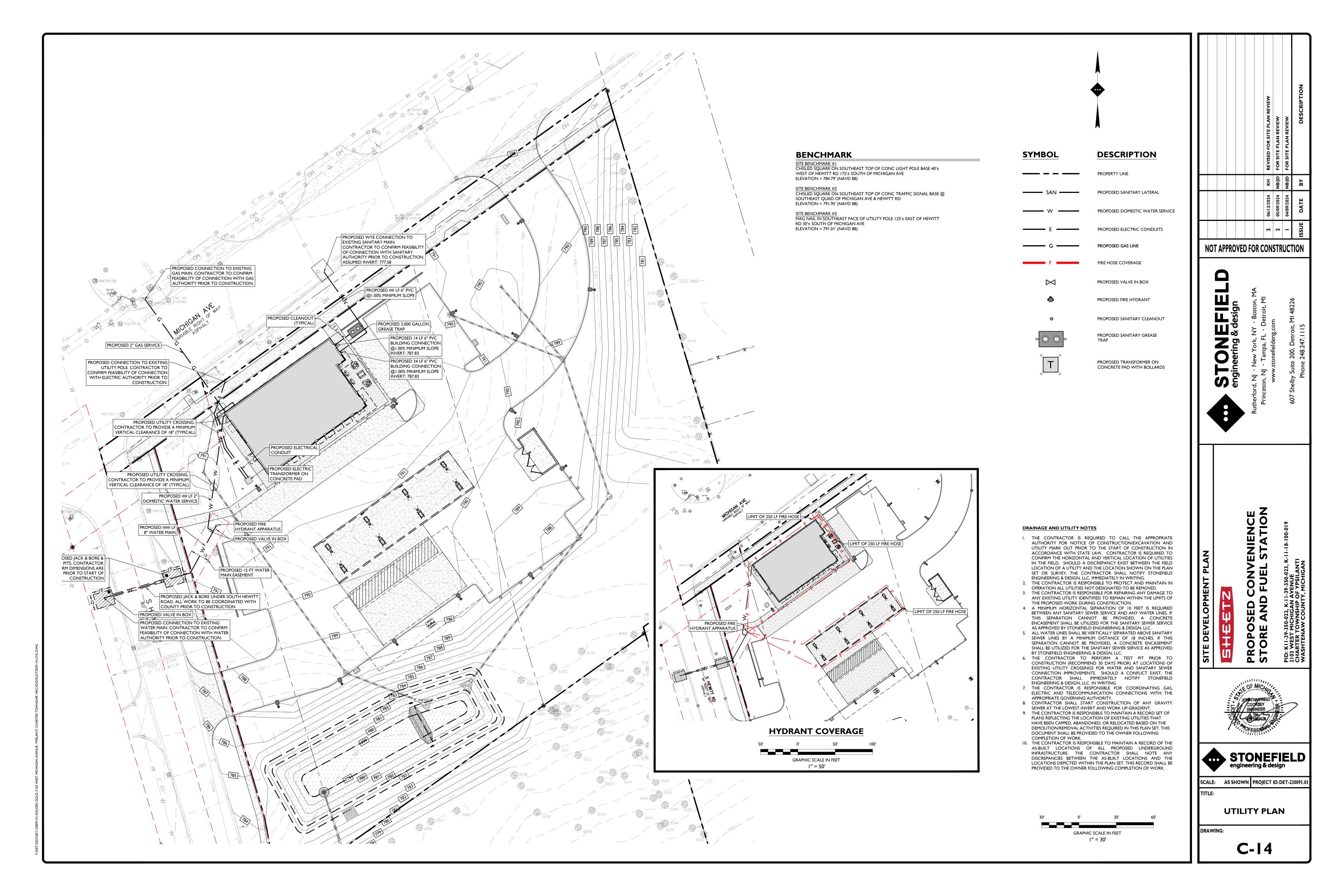
GRAPHIC SCALE IN FEET

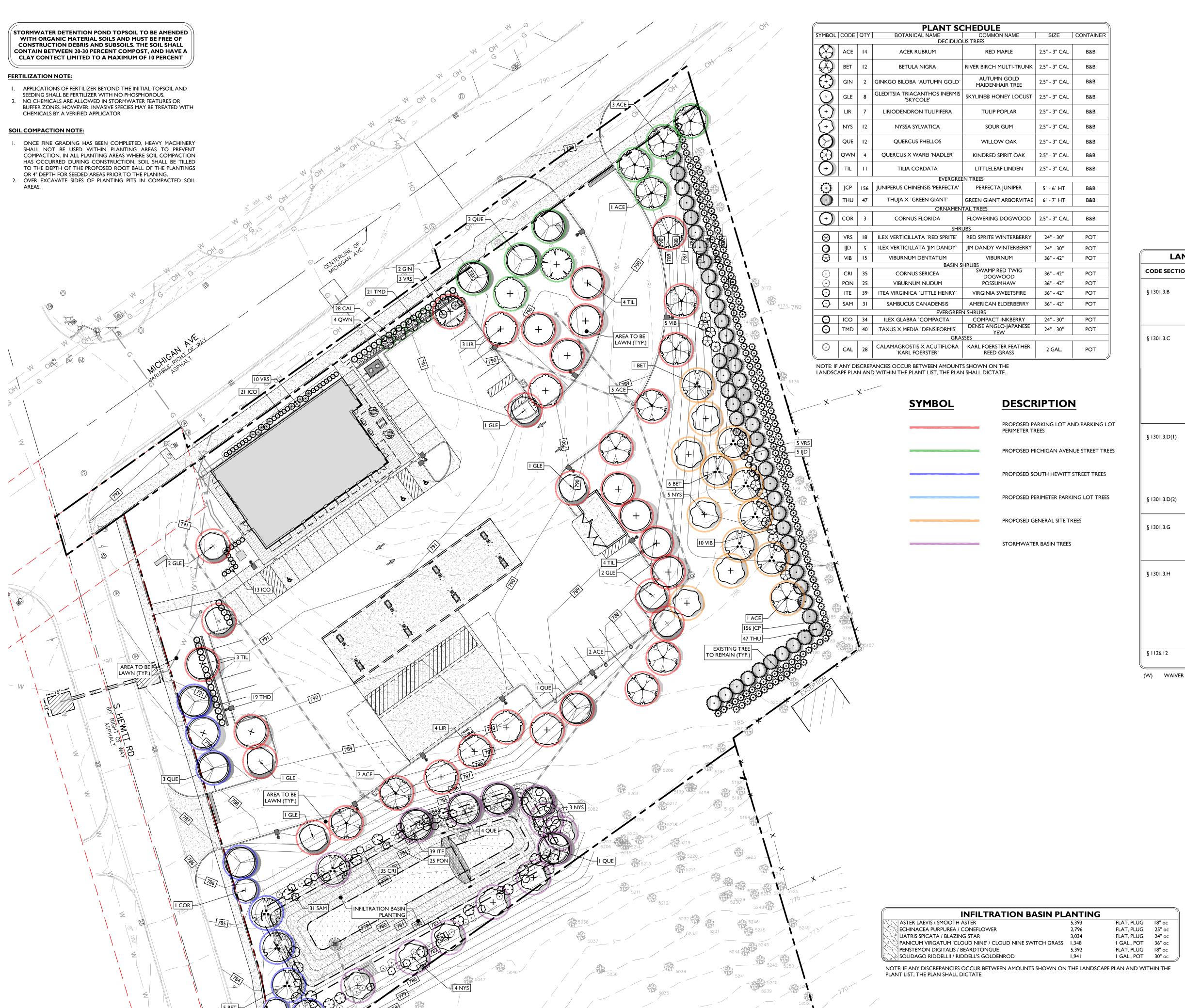
I" = 30'

C-II











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

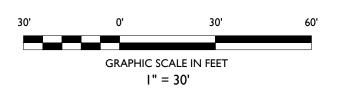
LAND	SCAPING AND BUFFER REQUIREM	IEN I S
CODE SECTION	REQUIRED	PROPOSED
	GENERAL LANDSCAPING:	
§ 1301.3.B	(I) TREE PER I,000 SF	
	(12,617 SF)/(1 TREE/1,000 SF) = 13 TREES	13 TREES
	(I) SHRUB PER 500 SF	
	(12,617 SF)/(1 SHRUB/500 SF) = 25 SHRUBS	25 SHRUBS
	STREET YARD LANDSCAPING:	
§ 1301.3.C	(I) TREE PER 40 LF, (I) ORNAMENTAL TREE PER 100 LF, & (I) SHRUB PER 10 LF	
	MICHIGAN AVENUE: 400 LF	
	TREE: (400 LF)/(40 LF) = 10 TREES	10 TREES
	ORNAMENTAL TREE: (400 LF)/(100 LF) = 4 TREES	4 TREES
	SHRUB: (400 LF)/(10) = 40 SHRUBS	52 SHRUBS
	SOUTH HEWITT ROAD: 309 LF	
	TREE: (309 LF)/(40 LF) = 8 TREES	8 TREES
	ORNAMENTAL TREE: (309 LF)/(100 LF) = 3 TREES	3 TREES
	SHRUB: (309 LF)/(10) = 31 SHRUBS	31 SHRUBS
	PARKING LOT LANDSCAPING:	
§ 1301.3.D(1)	(I) TREE PER 2,000 SF OF PAVED DRIVEWAY	
	(56,081 SF)/(2,000 SF) = 28 TREES	28 TREES
	NO MORE THAN 12 SPACES IN A ROW	DOES NOT COMPLY (W
	EACH TREE SHALL CONTAIN 150 SF OF LANDSCAPE AREA	COMPLIES
	ISLANDS SHALL BE NO LESS THAN 5 FT IN ANY DIRECTION	COMPLIES
1301.3.D(2)	(I) TREE PER 40 LF OF PARKING LOT PERIMETER	
	(299 LF)/(40 LF) = 7 TREES	7 TREES
	BASIN POND LANDSCAPING:	
1301.3.G	TOTAL PERIMETER: 649 LF	
	(I) TREE AND (I0) SHRUBS PER (50) LF	
	TREE: (649 LF)/(50 LF) = 13 TREES	13 TREES
	SHRUB: (649 LF)/(50 LF) = 13 * (10) = 130 SHRUBS	130 SHRUBS
	SCREENING:	
§ 1301.3.H	AUTOMOTIVE: SCREEN 3	
	SCREEN 3: (I) LARGE EVERGREEN TREE PER IO LF & (I) NARROW EVERGREEN TREE PER 3 LF EAST PROPERTY LINE: 365 LF	
	LARGE EVERGREEN: (365 LF)/(10 LF) = 37 TREES	37 TREES
		122 TREES
	NARROW EVERGREEN: (365 LF)/(3) = 122 TREES SOUTH PROPERTY LINE: 100 LF	122 INCES
		IO TREES
	LARGE EVERGREEN: (100 LF)/(10 LF) = 10 TREES	
\$ 1124 I2	NARROW EVERGREEN: (100 LF)/(3) = 155 TREES	155 TREES
§ 1126.12	RESIDENTIAL SCREENING: 6 FT OBSCURING WALL	NONE (W)

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.

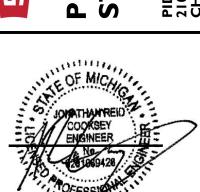
LANDSCAPING NOTES

- I. THE CONTRACTOR SHALL RESTORE ALL DISTURBED GRASS AND LANDSCAPED AREAS TO MATCH EXISTING CONDITIONS UNLESS INDICATED OTHERWISE WITHIN THE PLAN SET.
- 2. 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



	REVISED FOR SITE PLAN REVIEW	FOR SITE PLAN REVIEW	FOR SITE PLAN REVIEW	DESCRIPTION
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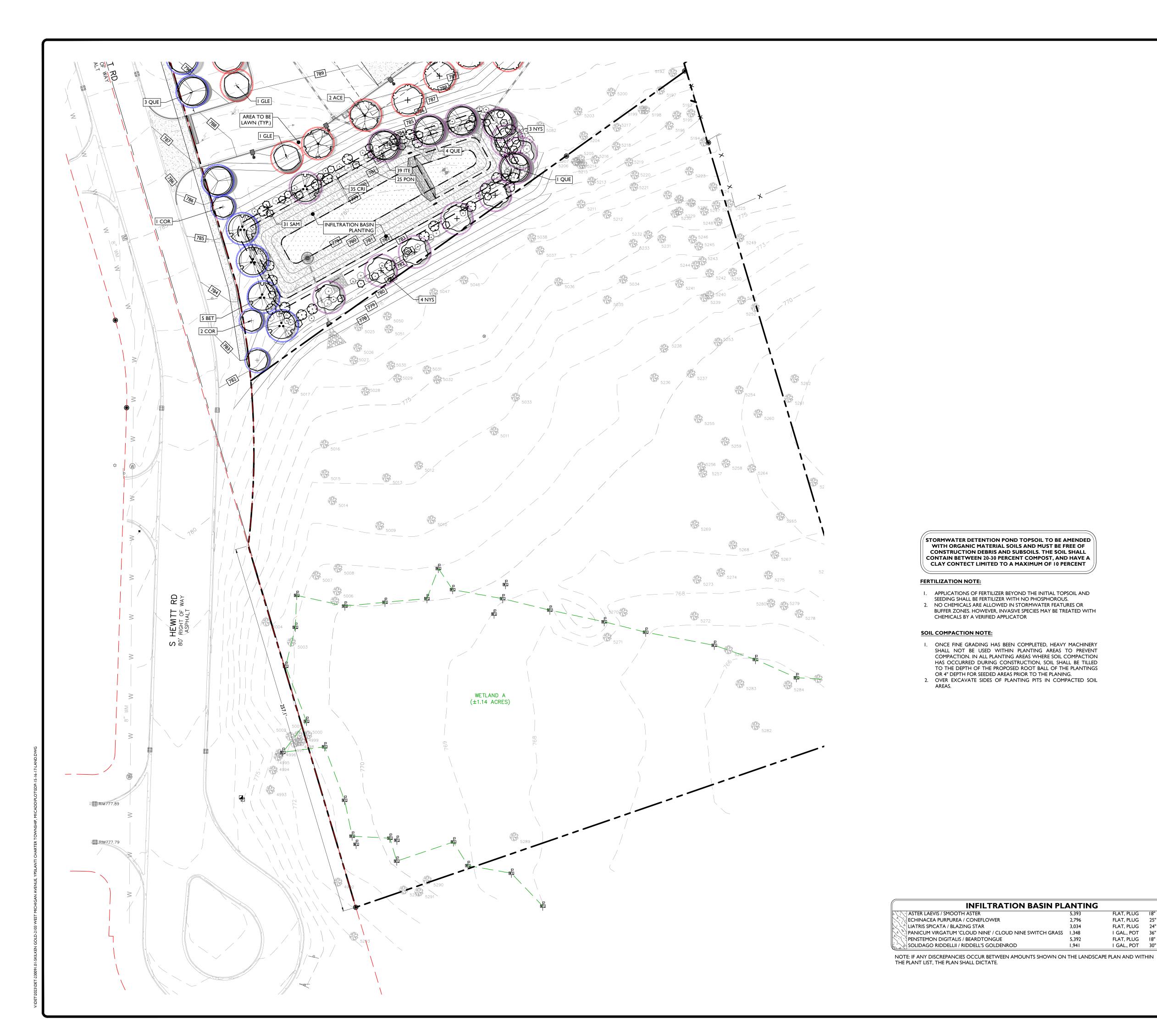




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LANDSCAPING PLAN (NORTH)

DRAWING:





STORMWATER DETENTION POND TOPSOIL TO BE AMENDED
WITH ORGANIC MATERIAL SOILS AND MUST BE FREE OF CONSTRUCTION DEBRIS AND SUBSOILS. THE SOIL SHALL CONTAIN BETWEEN 20-30 PERCENT COMPOST, AND HAVE A CLAY CONTECT LIMITED TO A MAXIMUM OF 10 PERCENT

FERTILIZATION NOTE:

- APPLICATIONS OF FERTILIZER BEYOND THE INITIAL TOPSOIL AND SEEDING SHALL BE FERTILIZER WITH NO PHOSPHOROUS. 2. NO CHEMICALS ARE ALLOWED IN STORMWATER FEATURES OR BUFFER ZONES. HOWEVER, INVASIVE SPECIES MAY BE TREATED WITH
- **SOIL COMPACTION NOTE:**

CHEMICALS BY A VERIFIED APPLICATOR

I. ONCE FINE GRADING HAS BEEN COMPLETED, HEAVY MACHINERY SHALL NOT BE USED WITHIN PLANTING AREAS TO PREVENT COMPACTION. IN ALL PLANTING AREAS WHERE SOIL COMPACTION HAS OCCURRED DURING CONSTRUCTION, SOIL SHALL BE TILLED TO THE DEPTH OF THE PROPOSED ROOT BALL OF THE PLANTINGS OR 4" DEPTH FOR SEEDED AREAS PRIOR TO THE PLANING. 2. OVER EXCAVATE SIDES OF PLANTING PITS IN COMPACTED SOIL

INFILTRATION BASIN PLANTING

FLAT, PLUG 18" oc

FLAT, PLUG 25" oc

FLAT, PLUG 24" oc I GAL., POT 36" oc

FLAT, PLUG 18" oc

I GAL., POT 30" oc

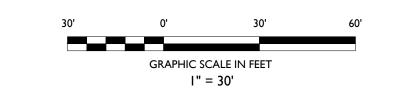
SYMBOL	DESCRIPTION
	PROPOSED PARKING LOT AND PARKING LOT PERIMETER TREES
	PROPOSED MICHIGAN AVENUE STREET TREES
	PROPOSED SOUTH HEWITT STREET TREES
	PROPOSED PERIMETER PARKING LOT TREES
	PROPOSED GENERAL SITE TREES
	STORMWATER BASIN TREES

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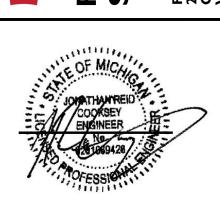
LANDSCAPING NOTES

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- 2. 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 1 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



			REVISED FOR SITE PLAN REVIEW	FOR SITE PLAN REVIEW	FOR SITE PLAN REVIEW	DESCRIPTION	
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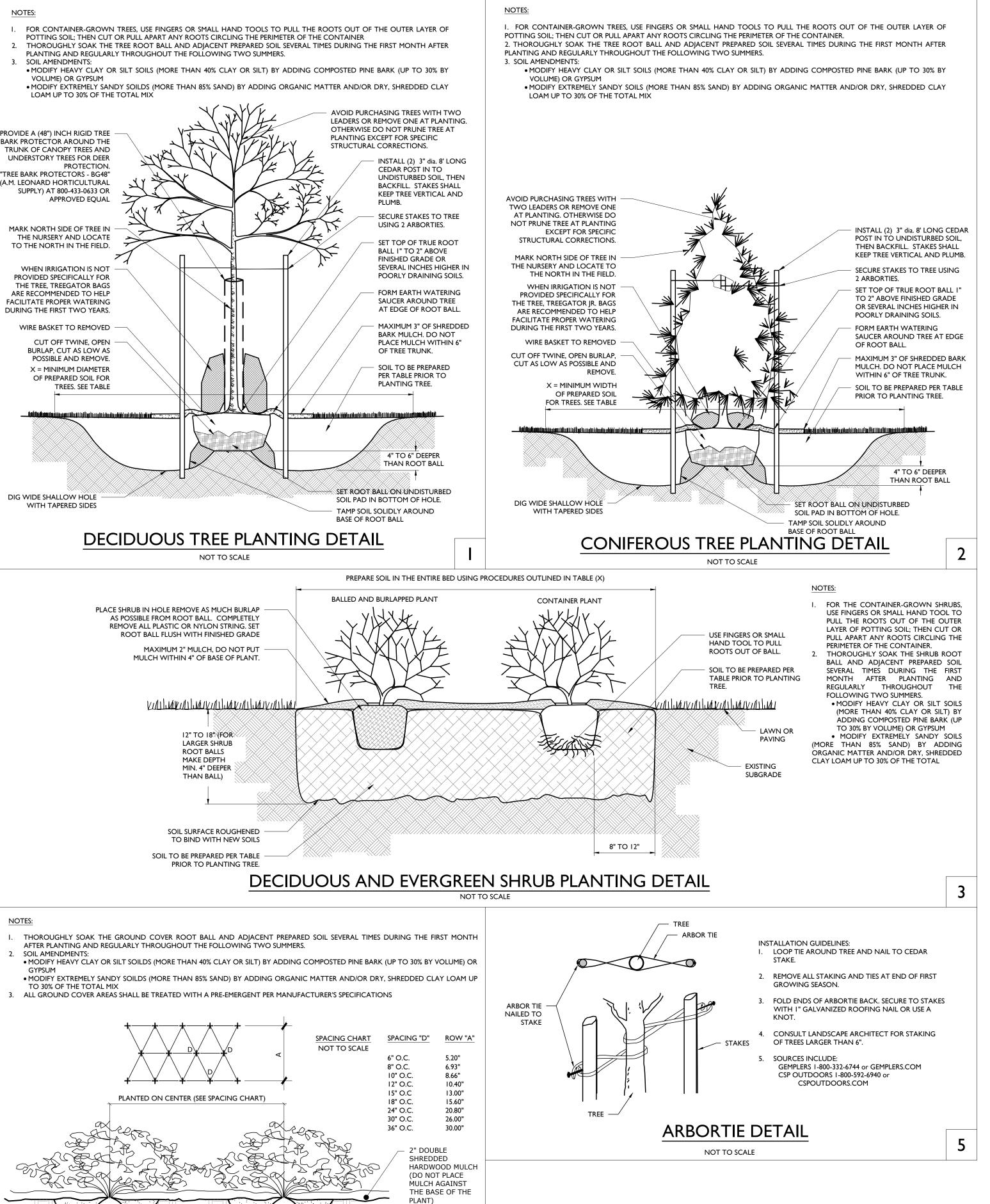


I" = 30' PROJECT ID: DET-230091.01

LANDSCAPING PLAN

(SOUTH)

DRAWING:



GENTLY PULL ROOTS AWAY FROM TOPSOIL MASS WITH

1 PART SOIL AMENDMENT

(BASED ON SOIL TEST)

3 PARTS NATIVE TOPSOIL

FINGERS

GROUND COVER/PERENNIAL/ANNUAL

PLANTING DETAIL

BACKFILL SOIL

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
- IN ORDER TO AVOID DAMAGE TO ROOTS, BARK OR LOWER BRANCHES, NO VEHICLE, EQUIPMENT, 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 EARTH FILL IS PLACED. NEW EARTH 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.
- 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."

IF APPLICABLE, TREE WELL INSTALLATION SHALL BE IN ACCORDANCE WITH THE PROVIDED "TREE WELL 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 PROIECT SITE S. 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
- PROIECT 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 THREE INCH (3") 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
- 12. 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
- 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 AROUND ITS PERIMETER, AT A DEPTH OF ABOUT 4 INCHES.

	IRRIGATION DURING ESTABLIS	SHMENT
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 MONTHS, WEEKLY UNTIL ESTABLISHED	TWICE WEEKLY FOR FOUR TO FIVE MONTHS

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 iniury 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, AND LEAF LOSS. PLANTS THAT REMAIN UNPLANTED FOR A PERIOD OF TIME GREATER THAN THREE (3) DAYS SHALL BE HEALED IN WITH TOPSOIL OR MULCH AND WATERED AS REQUIRED TO PRESERVE ROOT MOISTURE. 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 INIURED PLANTS SHALL BE REMOVED.
- 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)

(31/AKTIINO SEI TEITDEK 13).		
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

- CERCIS CANADENSIS LIQUIDAMBAR VARIETIES TAXUX B REPANDENS **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

AUTHORITIES SHALL BE APPROVED AND PAID FOR BY THE OWNER.

- 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
- 4. THE CONTRACTOR SHALL INSTRUCT THE OWNER AS TO THE PROPER CARE AND MAINTENANCE OF ALL PLANTINGS.

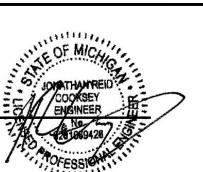
LAWN (SEED OR SOD) NOTES:

- . SEED MIXTURE SHALL BE FRESH, CLEAN, NEW CROP SEED. SOD SHALL BE STRONGLY ROOTED, UNIFORM IN THICKNESS, AND FREE OF WEEDS, DISEASE, AND PESTS.
- L 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.'
- 5. 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.

						REVISED FOR SITE PLAN REVIEW	FOR SITE PLAN REVIEW	FOR SITE PLAN REVIEW	DESCRIPTION
						КН	NB/JD	NB/JD	ВҮ
						06/12/2024	05/09/2024	04/09/2024	DATE
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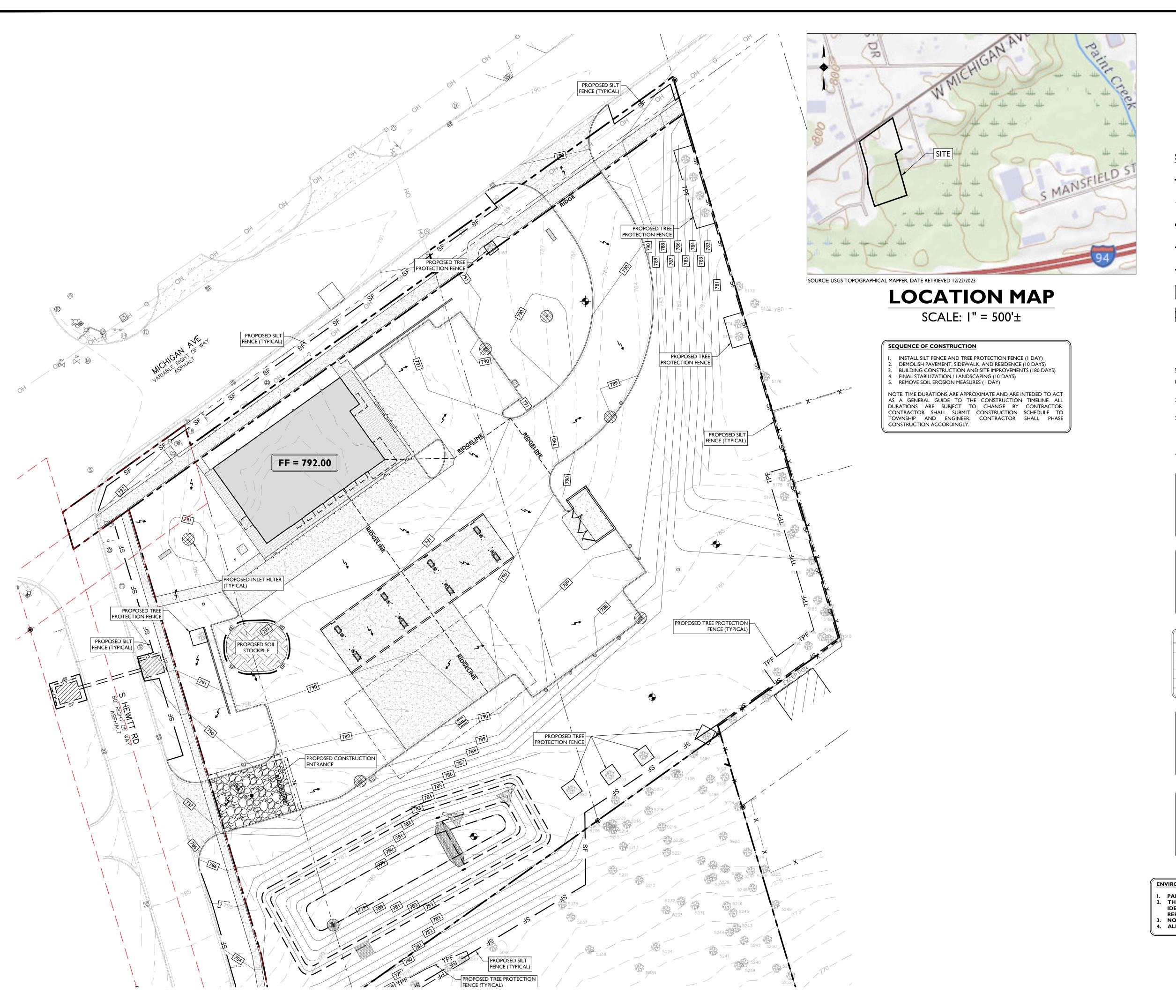




SCALE: AS SHOWN PROJECT ID: DET-230091.

LANDSCAPING DETAILS

DRAWING:





DESCRIPTION SYMBOL PROPERTY BOUNDARY ADJACENT PROPERTY BOUNDARY PROPOSED LIMIT OF DISTURBANCE PROPOSED SILT FENCE PROPOSED TREE PROTECTION FENCE PROPOSED STOCKPILE & EQUIPMENT STORAGE PROPOSED STABILIZED CONSTRUCTION ENTRANCE PROPOSED INLET PROTECTION FILTER

SOIL EROSION AND SEDIMENT CONTROL NOTES

- THE CONTRACTOR IS RESPONSIBLE FOR SOIL EROSION AND SEDIMENT CONTROL IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS.

 THE CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL IN COMPLIANCE WITH LOCAL, STATE, AND FEDERAL AIR QUALITY STANDARDS. STANDARDS.
- 3. THE CONTRACTOR IS RESPONSIBLE TO INSPECT ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES WEEKLY AND AFTER A PRECIPITATION EVENT GREATER THAN I INCH. THE CONTRACTOR SHALL MAINTAIN AN INSPECTION LOG ON SITE AND DOCUMENT CORRECTIVE ACTION TAKEN THROUGHOUT THE COURSE OF CONSTRUCTION AS REQUIRED.
- 4. ALL DEBRIS WITHIN PROPERTY LIMITS TO BE PICKED UP WEEKLY OR AS

SOIL CHARACTE	RISTICS CHART
TYPE OF SOIL	OSHTEMO LOAMY SAND (OsC)
PERCENT OF SITE COVERAGE	53.7%
HYDROLOGIC SOIL GROUP	A
DEPTH TO RESTRICTIVE LAYER	> 80 INCHES
SOIL PERMEABILITY	1.98 TO 5.95 IN / HR
DEPTH TO WATER TABLE	> 80 INCHES

SOIL CHARACTE	RISTICS CHART
TYPE OF SOIL	OSHTEMO LOAMY SAND (OsB)
PERCENT OF SITE COVERAGE	23.8%
HYDROLOGIC SOIL GROUP	A
DEPTH TO RESTRICTIVE LAYER	> 80 INCHES
SOIL PERMEABILITY	1.98 TO 5.95 IN / HR
DEPTH TO WATER TABLE	> 80 INCHES
<u> </u>	

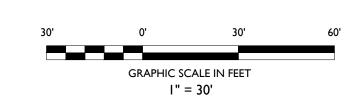
SOIL CHARACTE	RISTICS CHART
TYPE OF SOIL	KIBBIE FINE SANDY LOAM (KnA)
PERCENT OF SITE COVERAGE	13.0%
HYDROLOGIC SOIL GROUP	B/D
DEPTH TO RESTRICTIVE LAYER	> 80 INCHES
SOIL PERMEABILITY	0.57 TO 1.98 IN / HR
DEPTH TO WATER TABLE	12 TO 24 INCHES

RISTICS CHART
ST. CLAIR CLAY LOAM (StB)
4.8%
D
> 80 INCHES
0.06 TO 0.20 IN / HR
24 TO 36 INCHES

SOIL CHARACTERISTICS CHART				
TYPE OF SOIL	MORLEY LOAM (MoC)			
PERCENT OF SITE COVERAGE	4.7%			
HYDROLOGIC SOIL GROUP	С			
DEPTH TO RESTRICTIVE LAYER	26 TO 40 INCHES			
SOIL PERMEABILITY	0.01 TO 0.20 IN / HR			
DEPTH TO WATER TABLE	> 80 INCHES			

ENVIRONMENTAL NOTES:

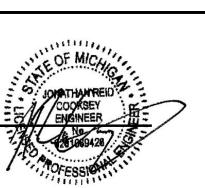
- PAINT CREEK IS LOCATED ± 2,210 FT TO THE EAST OF THE SITE
 THE SOUTHERN PORTION OF PARCEL 2 CONTAINS WETLANDS IDENTIFIED PER ASTI ENVIRONMENTAL WETLAND DELINEATION
- 3. NO PORTION OF THIS SITE LIES WITHIN A FLOOD HAZARD AREA
 4. ALL ELEVATIONS SHOWN ARE BASED ON NAVD 1988 DATUM



					REVISED FOR SITE PLAN REVIEW	FOR SITE PLAN REVIEW	FOR SITE PLAN REVIEW	DESCRIPTION
					КН	NB/JD	NB/JD	ВҮ
					06/12/2024	05/09/2024	04/09/2024	DATE
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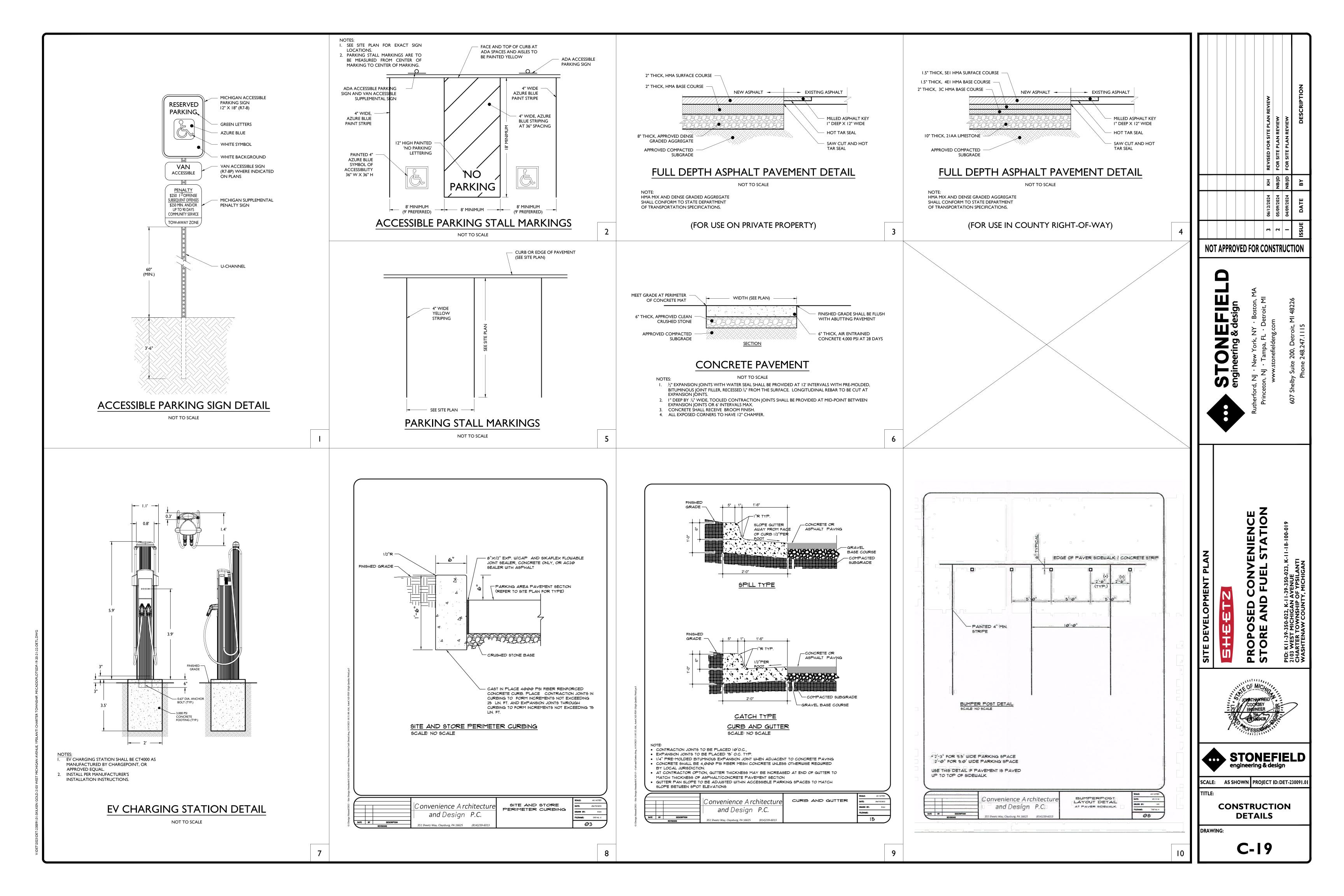


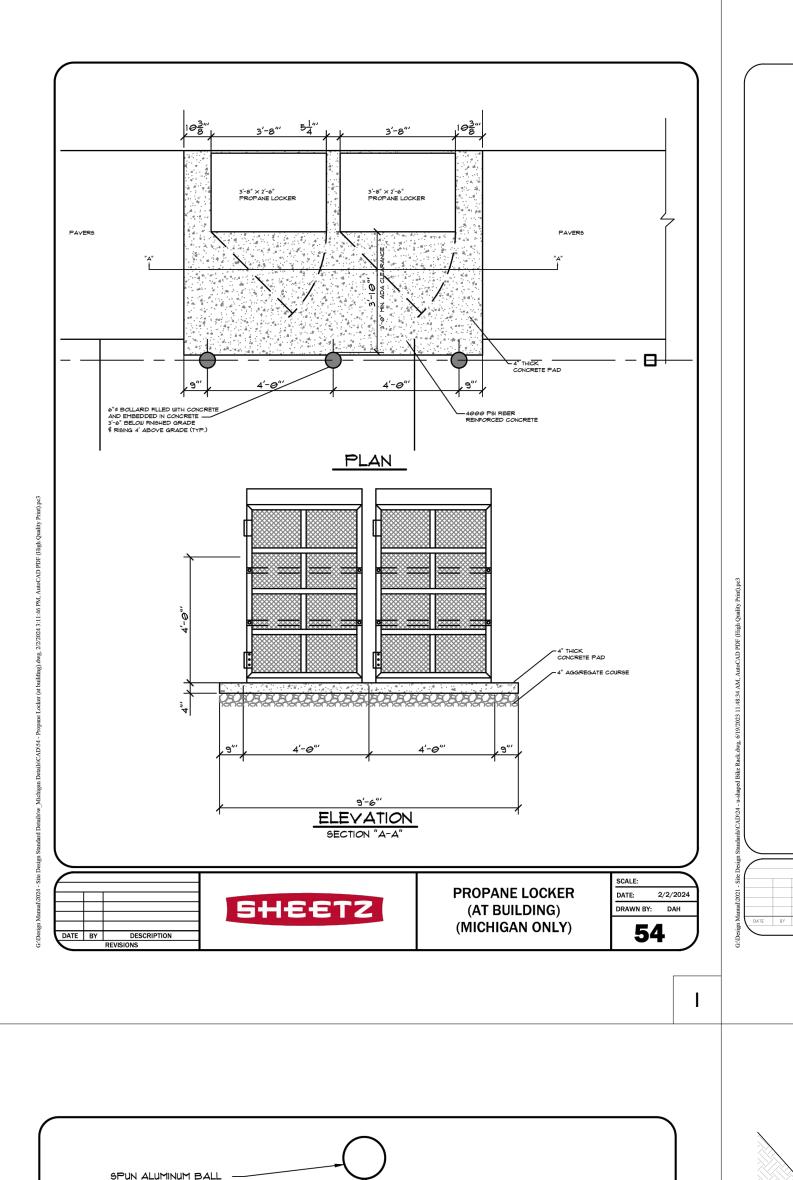
I" = 30' PROJECT ID: DET-230091.0

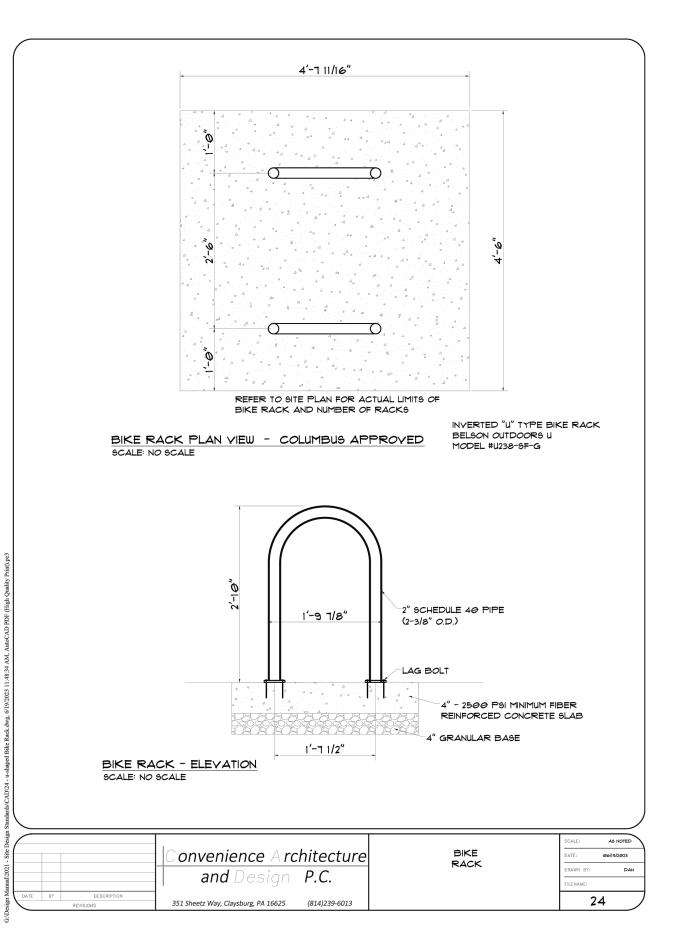
PLAN

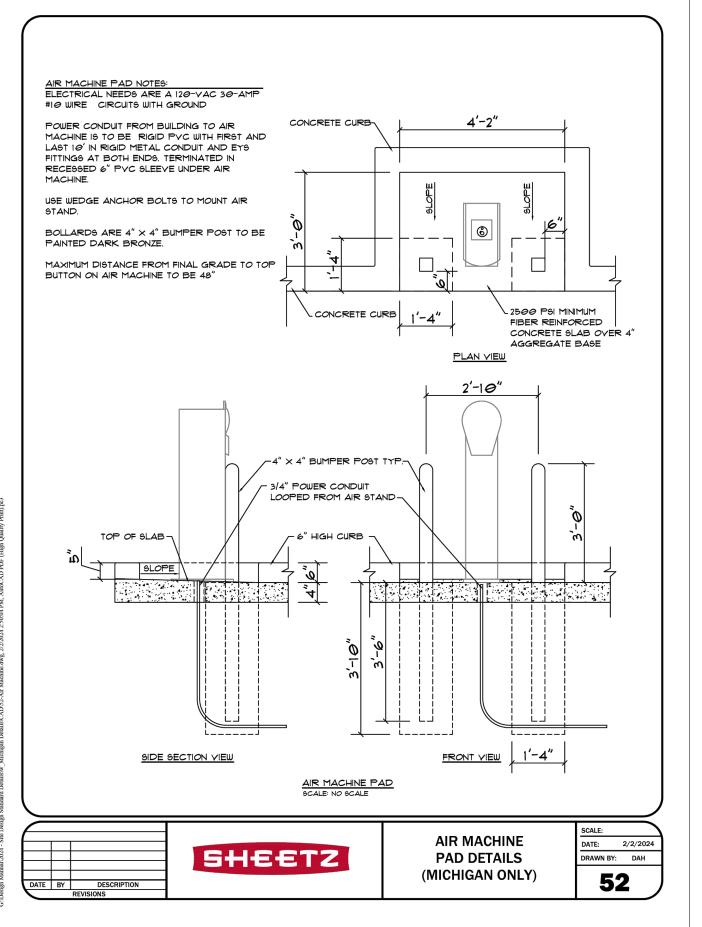
SOIL EROSION & SEDIMENT CONTROL

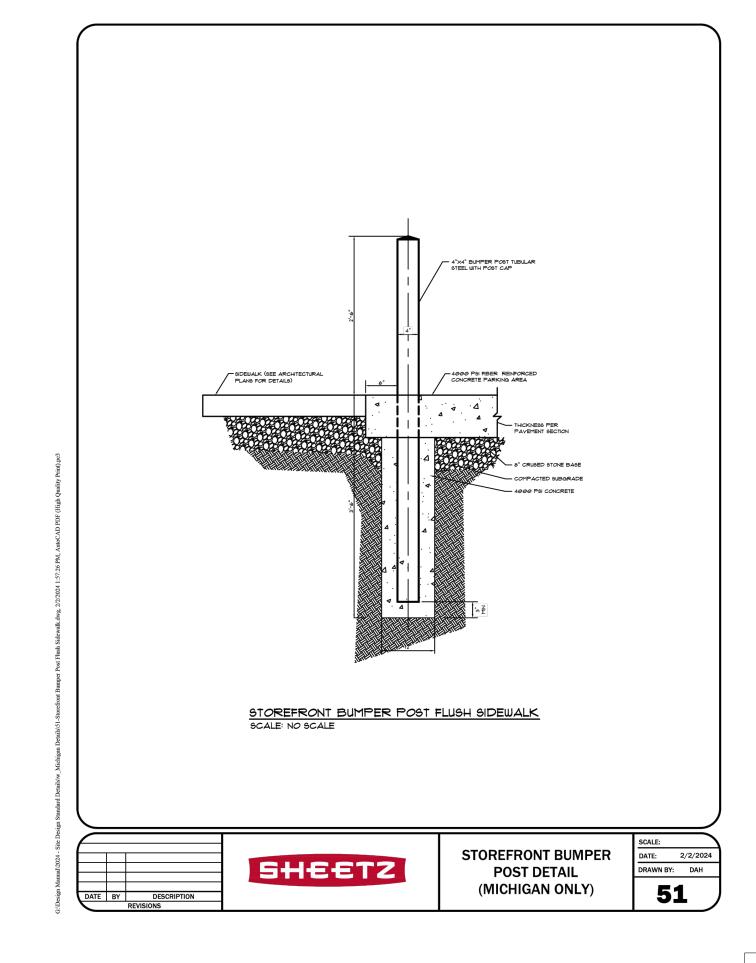
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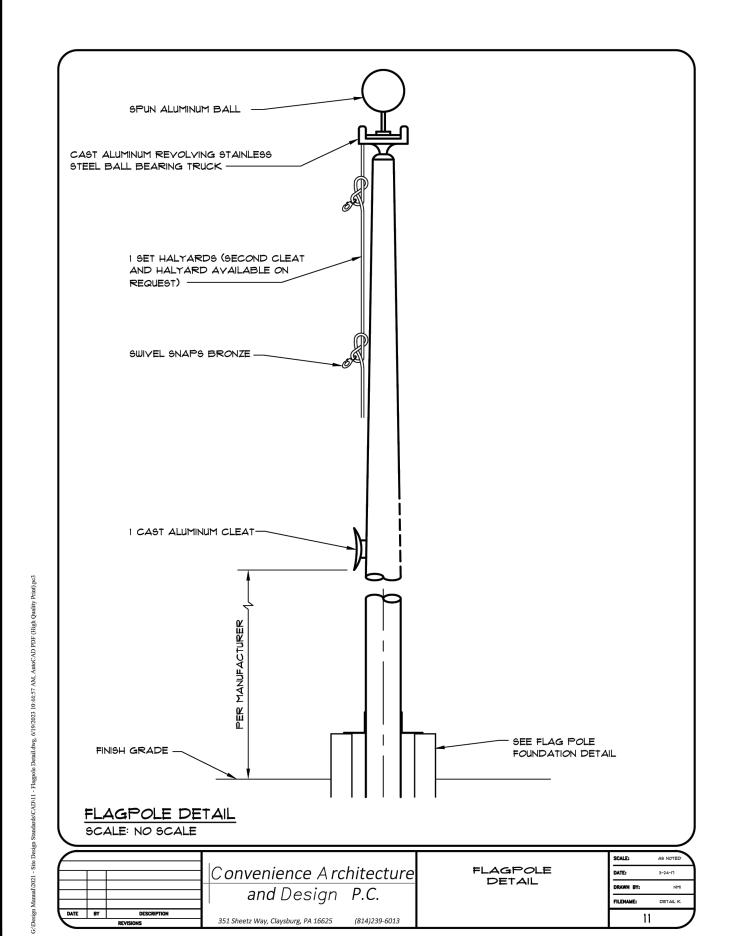


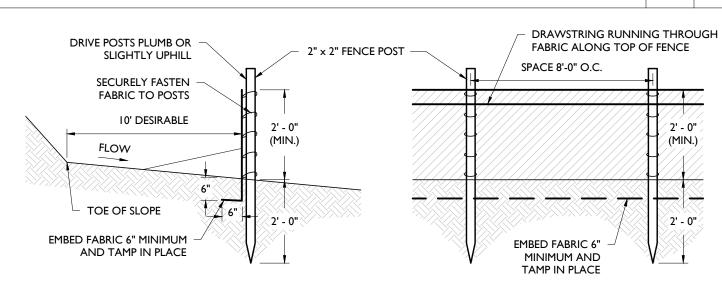










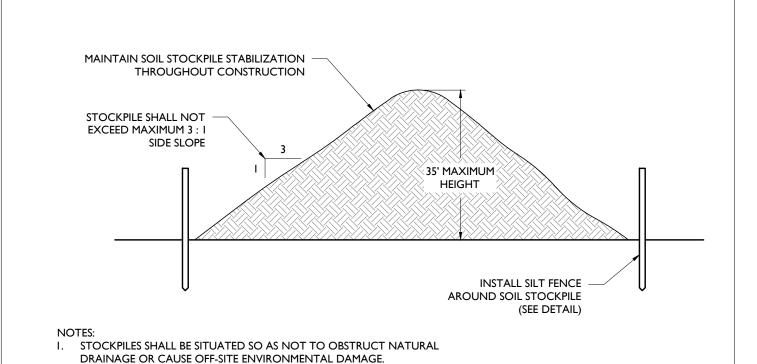


I. SECURELY FASTEN GEOTEXTILE TO FENCE POST BY USE OF WIRE TIES, HOG RINGS, STAPLES OR POCKETS. FOUR TO SIX FASTENERS PER POST.

- 2. GEOTEXTILE FABRIC TO BE EMBEDDED 6" (MIN.) AND TAMP IN PLACE. 3. SECURELY FASTEN ENDS OF INDIVIDUAL ROLLS OF GEOTEXTILE TO A POST BY WRAPPING EACH END OF THE GEOTEXTILE AROUND THE POST TWICE AND ATTACHING AS SPECIFIED IN NOTE I ABOVE. SPLICING OF
- INDIVIDUAL ROLLS SHALL NOT OCCUR AT LOW POINTS. 4. SET SILT FENCE WITHIN PROJECT LIMITS. 10'-0" IS DESIRABLE.

SILT FENCE DETAIL

NOT TO SCALE

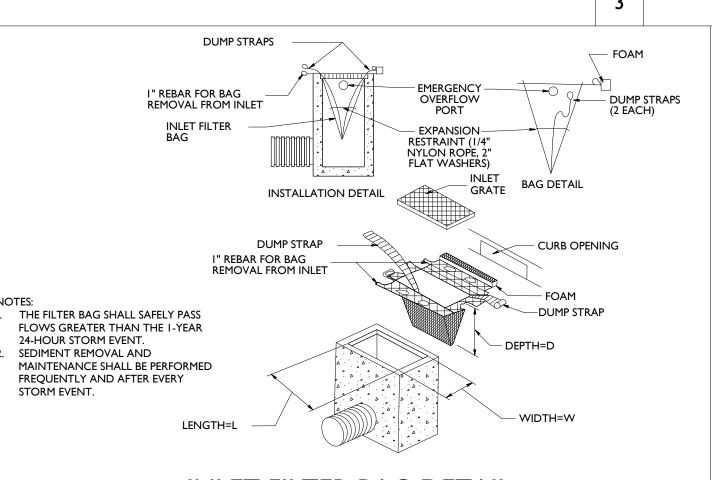


FOR SOIL STABILIZATION, AS APPROPRIATE (SEE SOIL EROSION NOTES). SOIL STOCKPILE DETAIL

2. STOCKPILES SHALL BE STABILIZED IN ACCORDANCE WITH THE

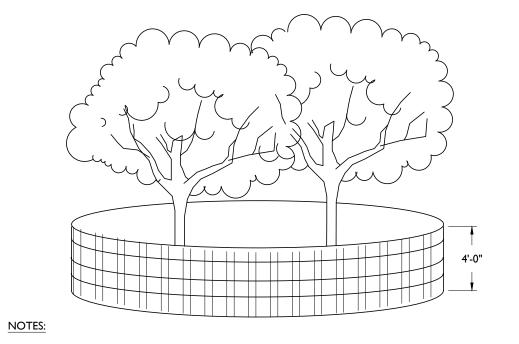
STANDARDS FOR PERMANENT OR TEMPORARY VEGETATIVE COVER

NOT TO SCALE



INLET FILTER BAG DETAIL

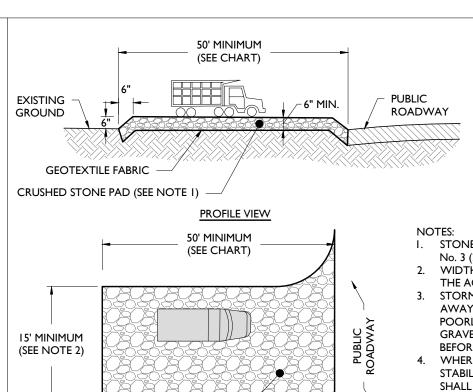
NOT TO SCALE



- SNOW FENCING IS TO BE 4'-0" HIGH AND SELF SUPPORTED. DO NOT STOCKPILE MATERIALS OR STORE EQUIPMENT WITHIN THE TREE PROTECTION FENCING. 3. SNOW FENCE TO BE INSTALLED AT DRIP LINE OF EXISTING TREE OR TREE CLUSTER TO BE PROTECTED OR NO CLOSER THAN 6' FROM TREE TRUNK IF NECESSARY.
- 4. IF THE PROJECT AREA ENCOMPASSES A PORTION OF THE DRIP LINE OF THE TREE, NO MORE THAN ONE THIRD OF THE OF THE TOTAL AREA OF WITHIN THE DRIP LINE SHOULD BE DISTURBED BY CONSTRUCTION OR REGRADING AND A 3" THICK LAYER OF MULCH SHALL BE INSTALLED OVER THE AREA OF THE DRIP LINE WHICH IS NOT PROTECTED BY FENCING TO PROVIDE A CUSHION.

TREE PROTECTION DETAIL

NOT TO SCALE



CRUSHED STONE PAD —

(SEE NOTE I)

I. STONE SHALL BE ASTM C-33, SIZE No. 2 (2.5" TO 1.5") OR No. 3 (2" TO I") CLEAN CRUSHED ANGULAR STONE. WIDTH SHALL BE 15' MINIMUM OR THE FULL WIDTH OF THE ACCESS POINT, WHICHEVER IS GREATER.

ROADWAY

0% TO 2%

2% TO 5%

> 5%

STORMWATER FROM UP-SLOPE AREAS SHALL BE DIVERTED AWAY FROM THE STABILIZED PAD, WHERE POSSIBLE. AT POORLY DRAINED LOCATIONS, SUBSURFACE DRAINAGE GRAVEL FILTER OR GEOTEXTILE SHALL BE INSTALLED BEFORE THE STABILIZED CONSTRUCTION ENTRANCE. WHERE THE SLOPE OF THE ROADWAY EXCEEDS 5%, A STABILIZED BASE OF HOT MIX ASPHALT BASE COURSE SHALL BE INSTALLED. THE TYPE AND THICKNESS OF THE BASE COURSE AND USE OF DENSE GRADED AGGREGATE SUB-BASE SHALL BE AS PRESCRIBED BY LOCAL MUNICIPAL

SLOPE OF LENGTH OF STONE REQ'D

50 FEET

COARSE FINE GRAINED SOILS

100 FEET 200 FEET

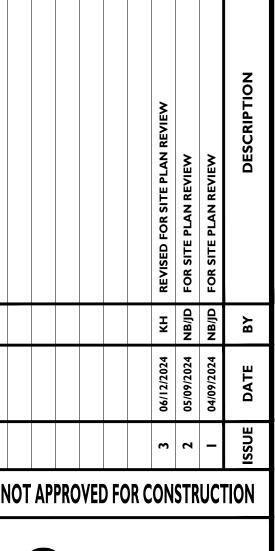
SEE NOTE 4

100 FEET

ORDINANCE OR GOVERNING AUTHORITY. CONTRACTOR SHALL PROVIDE A SMOOTH TRANSITION BETWEEN THE STABILIZED CONSTRUCTION ACCESS AND THE PUBLIC ROADWAY.

STABILIZED CONSTRUCTION ACCESS DETAIL

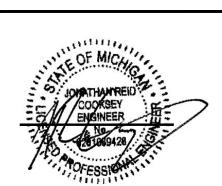
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CONVENIENCE
FUEL STATION

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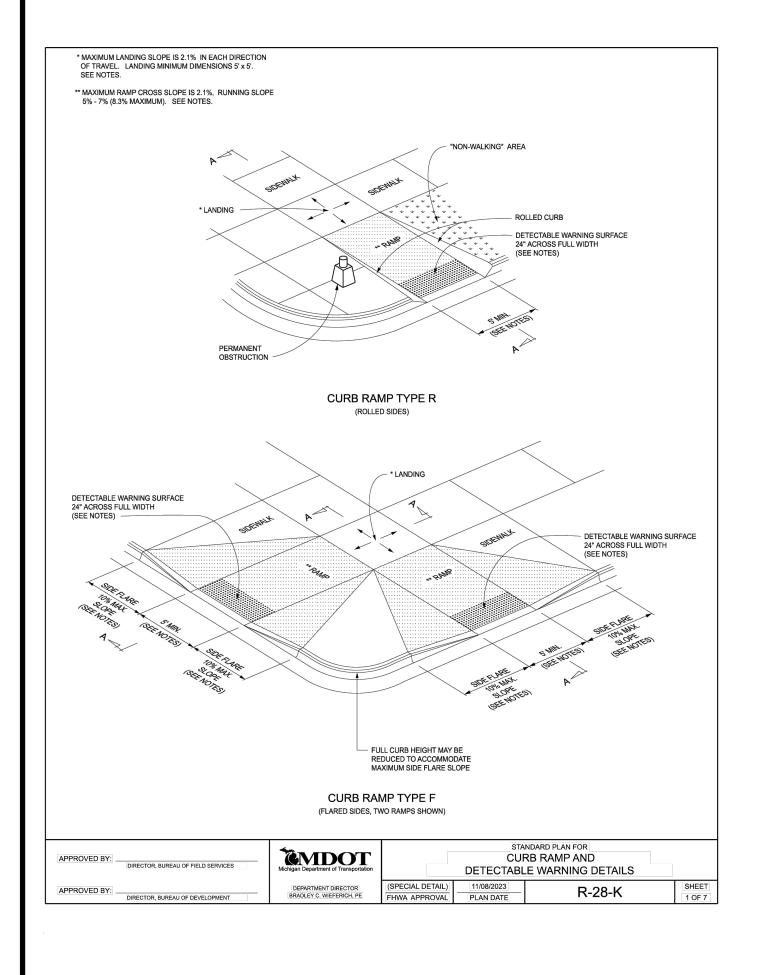


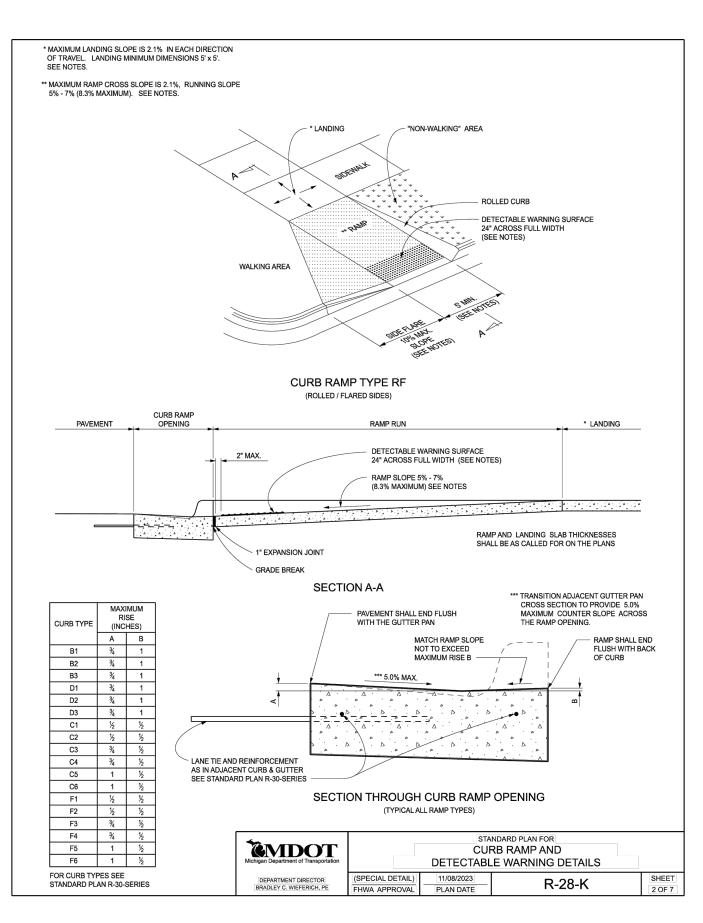


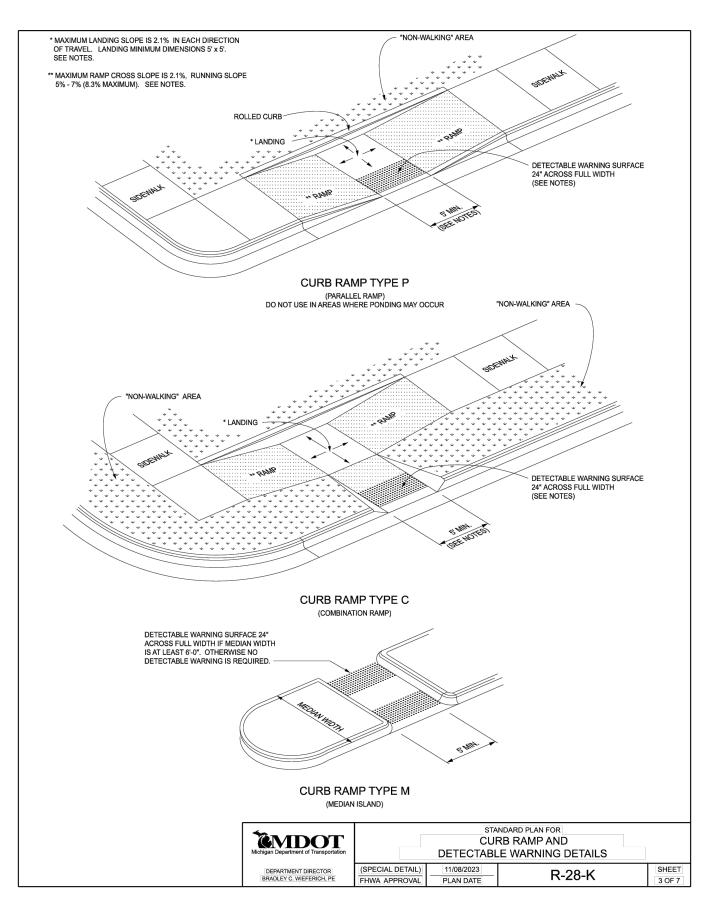
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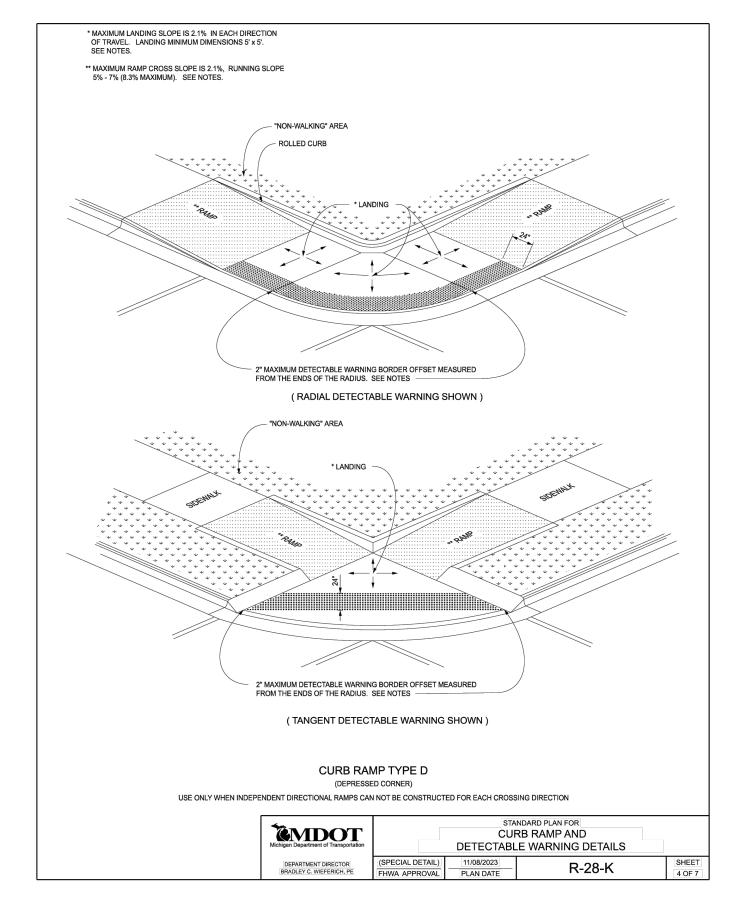
CONSTRUCTION **DETAILS**

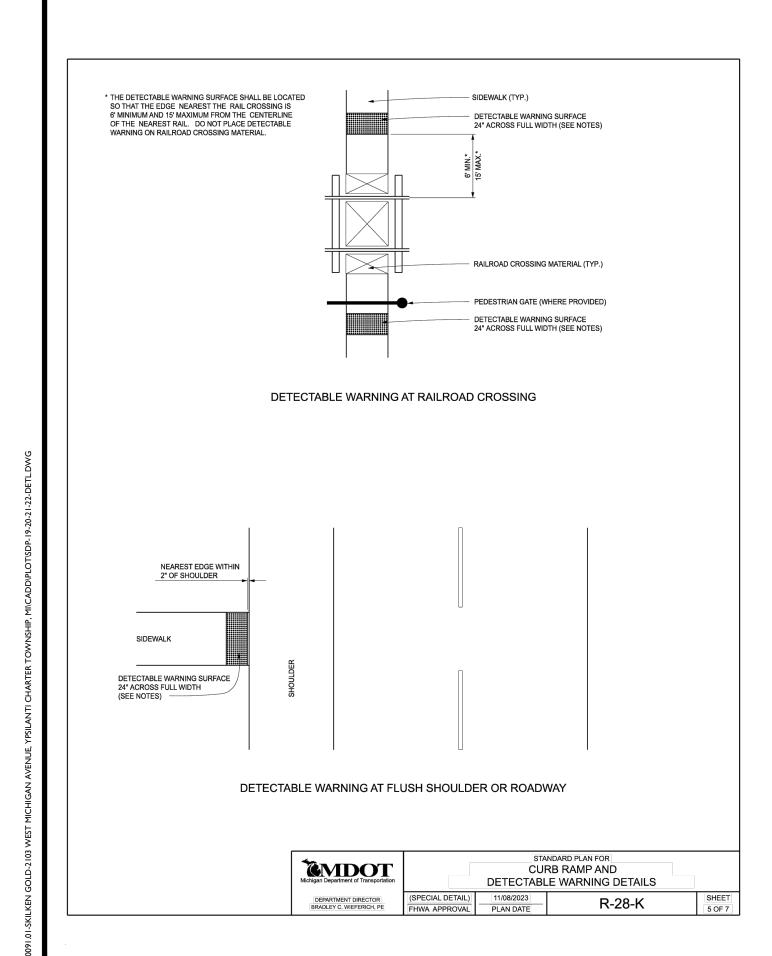
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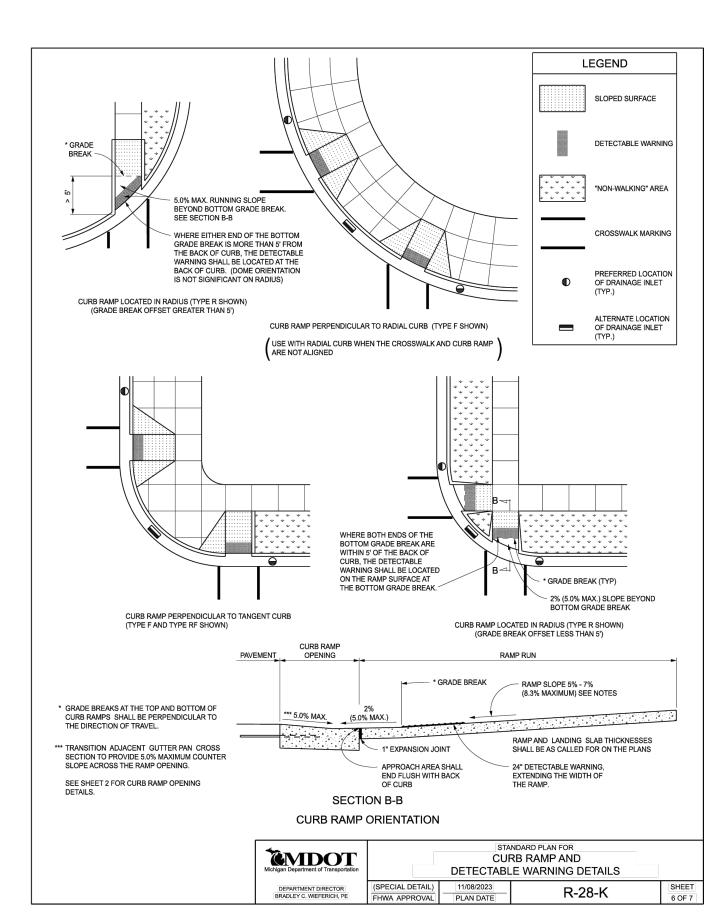


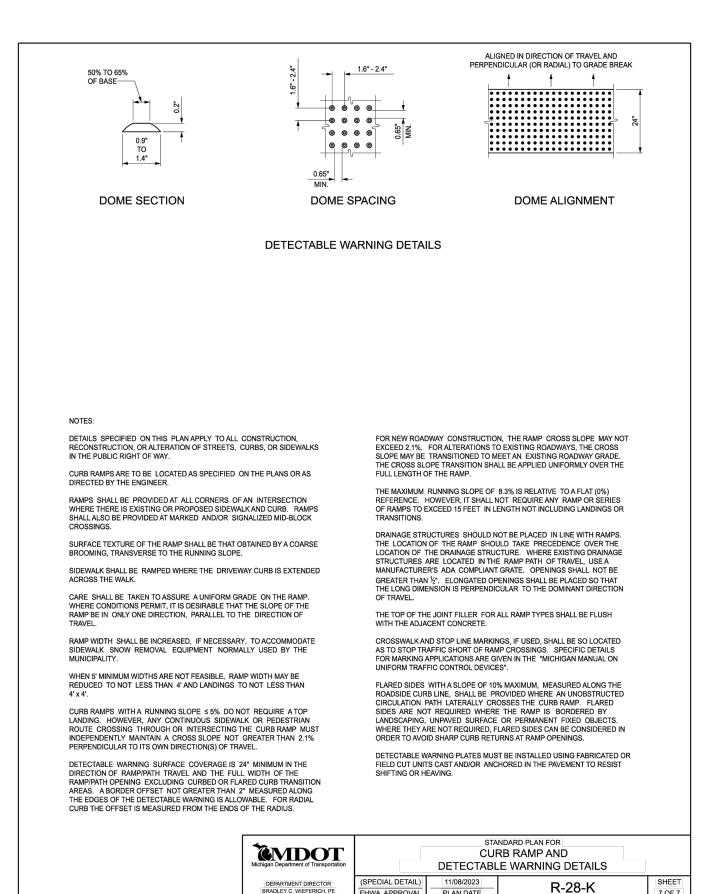






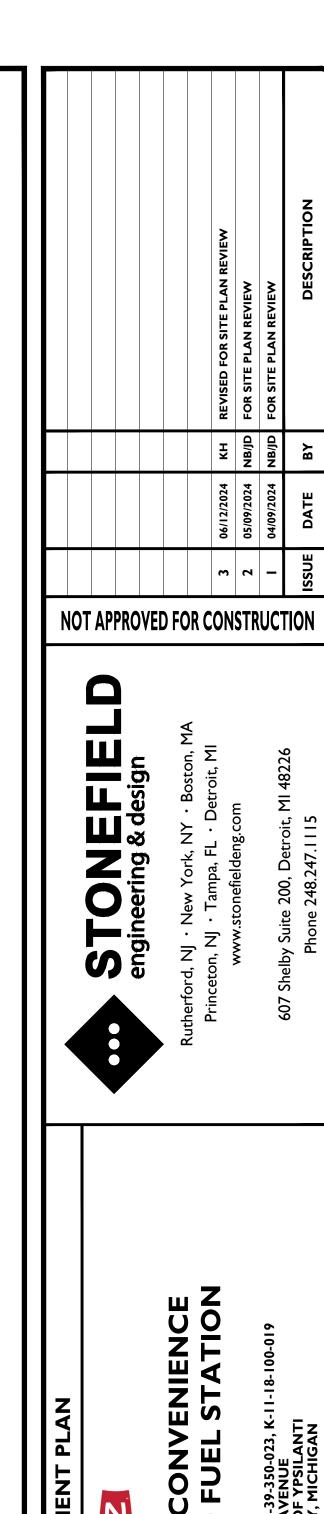








NOT TO SCALE





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SCALE: AS SHOWN PROJECT ID: DET-230091.01

CONSTRUCTION DETAILS

DRAWING:

WASHTENAW COUNTY STORMW (Based on Washtenaw County Stormwater Man		W7. IMPERVIOUS COVER POST-DEVELOPMENT 100 YEAR STORM RUNOFF CALCULATION (V100-imp-post)	W14. OUTLET DESIGN - 3 STAGE OUTLET		
(Based on Washenaw County Swithwater Man	agements negaliations)	Rainfall Value (100 Year Storm Event), P: 5.11 IN	Q _{Allow} = (0.15)(A)		
Project: Ypsilanti Township - Hewitt	Designer: KTH Date: 06/11/24	S = (1000 / CN) - 10 Function of Watershed Soil & Conditions, S: 0.20 IN	A. FIRST FLUSH DISCHARGE		
WI. DETERMINING POST-DEVELOPMENT COVER TYPES, AREAS, CURVE	NUMBERS, AND RUNOFF COEFFICIENTS	$Q_{100-imp} = (P-0.2*S)^2/(P+0.8*S)$ Runoff, $Q_{100-imp}$: 4.87 IN	Q _{min-ff} = V/T ₂₄ Minimum First Flush Release Rate, Q _{min-ff} : 0.0769 CFS		
RATIONAL METHOD VARIABLES (REQUIRED FOR FIRST FLUSH RUNOFF CALCULATIONS)		Impervious Cover Area: 67,029 SF	$h_{ave} = 2/3 * (X_{ff} - X_{bot})$ Average Head, h_{ave} : 1.18 FT		
Landcover Area (SF)	C-Value* Weighted Value				
Building / Roof 6,602 x Pavement / Hardscape 60,427 x	0.95 = 6,272 0.95 = 57,406	V _{100-imp-post} = Q * (I/I2) * Area Impervious Cover Post Development I 00-Yr Vol, V _{100-imp-post} : 27,219 CF	$A_{ff} = Q_{Min-ff} / [0.62 * \sqrt{(2 * g * h_{ave})}]$		
Open Water (Based on Bankfull Storage Elevation)0xOpen Space (HSG 'A')73,317x	1.00	W8. TIME OF CONCENTRATION FOR APPLICABLE FLOW TYPES (T _{c-hrs})	Maximum # _{Orif} = A _{ff} / A _{Orif} ** Orifice Size Proposed I.00 in Proposed # Orifice: 2.00		
Open Space (HSG 'B') 5,561 x Open Space (HSG 'C') 9,460 x	0.25 = I,390 0.30 = 2,838	If Tc < 15 minutes use minimum Tc Below	The Proposed Orifice is smaller than the Minimum Permitted Diameter (0.75"), but has been approved per WCWRC review dated 04-15-2022		
Open Space (HSG 'D') I,952	0.45 = 878		Q _{Act-ff} = 0.62 *# _{Orif} * A _{Orif} * √(2 * g * h _{ave}) Proposed First Flush Release Rate, Q _{Act-ff} : 0.0590 CFS		
Subtotals 157,319	79,782	W9. RUNOFF SUMMARY	T _{Act-ff} = V _{ff} / Q _{Act-ff} 31.3 Hours		
*C-values obtained from Washtenaw County Water Resources Commissioner	Composite C Value, C: 0.51	First Flush Runoff Volume, V _{ff} : 6,648 CF	T > 24 Hours, Okay		
	Site Area, A: 3.61 AC	Pre-Development Bankfull Volume, V _{bf-pre} : 1,020 CF	B. BANKFULL DISCHARGE		
NRCS VARIABLES (REQUIRED FOR BANKFULL & 100-YEAR RUNOFF CALCULATIONS)		Pervious Cover Post Development Bankfull Volume, V _{bf-per-post} : 7 CF	$h_{\text{ave}} = 2/3 * (X_{bf} - X_{\text{bot}})$		
		Impervious Cover Post Development Bankfull Volume, V _{bf-imp-post} : 11,851 CF	$Q_{bf} = 0.62 * \#_{Orif} * A_{Act-Orif} * \sqrt{(2 * g * h_{ave})}$ Bank Full Release Rate, Q_{bf} : 0.0746 CFS		
Cover Type (Pre-Development) Soil Type Area (SF) Building, Roof - 1,568	Curve Number (CN) Weighted Value	Total Bankfull Volume (V _{bf-post}): II,858 CF	$T_{bf} = V_{bf} / Q_{bf}$ Release Time, T_{bf} : 44.2 Hours		
Paved - 2,531 Open Water - 0	x 98.0 = 248,038 x 100.0 = 0	Pervious Cover Post Development 100-Year Storm Volume, V _{100-per-post} : 3,558 CF	T > 36 Hours, 3-Stage Additional Orifice Needed? Yes		
Woods (Good) A 132,819 Woods (Good) B 5,561	30.0 3,984,570 55.0 305,855				
Woods (Good) C 12,411 Woods (Good) D 2,428	70.0 868,770	Impervious Cover Post Development 100-Year Storm Volume, V _{100-imp-post} : 27,219 CF	$V_{Rem} = V_{bf} - V_{ff}$ Volume Remaining, V_{Rem} : 5,209.3 CF		
		Total 100 Year Volume (V ₁₀₀): 30,777 CF	T _{Rem} = T _{Target} - T _{Act-ff} 10.7 Hours		
Subtotals 157,319	5,747,853	ONSITE INFILTRATION REQUIREMENTS	** Target Time Proposed: 42 Hours $h_{ff\text{-ave}} = 2/3 * (X_{bf} - X_{ff}) + (X_{ff} - X_{bot})$ Average Head, $h_{ff\text{-Ave}}$: 2.48 FT		
	Composite CN Value, CN: 36.54	$V_{bf-diff} = V_{bf-post} - V_{bf-pre}$ Bankfull Volume Difference, $V_{bf-diff}$: 10,838 CF	$Q_{\text{ff+bf}} = 0.62 * \#_{\text{Orif}} * A_{\text{Orif}} * \sqrt{(2 * g * h_{\text{ff-ave}})}$ Combined Release Rate, $Q_{\text{ff+bf}}$: 0.0855 CFS		
Pervious Cover Type (Post-Development) Soil Type Area (SF) Fully Developed Open Space (Good Condition) A 73,317	Curve Number (CN) Weighted Value 2,859,363	Onsite Infiltration Requirement:	$V_{\text{ff+bf}} = T_{\text{Rem}} * Q_{\text{ff+bf}}$ Combined Discharge Volume, $V_{\text{ff+bf}} = 3,294.9 \text{ CF}$		
Fully Developed Open Space (Good Condition) B 5,561	61.0 339,221	Use the greater of Bankfull Volume Difference vs. First Flush Volume *Basin to include additional 20% volume if required infiltration is not provided *Bankfull Volume Difference			
Fully Developed Open Space (Good Condition) C 9,460 Fully Developed Open Space (Good Condition) D 1,952	x 80.0 = 700,040 156,160	W10. DETENTION REQUIREMENTS	$V_{bf} = V_{Rem} * V_{ff+bf}$ Bankfull Discharge Volume, V_{bf} : 1,914.4 CF		
Subtotals 90,290	4,054,784	$Q_p = 238.6 \text{ *T}_c^{-0.82}$ Peak of the Unit Hydrograph, Q_{p^2} 744 CFS / IN-MI ²	$Q_{bf} = V_{bf} / T_{Rem}$ CFS		
	Composite CN Value, CN: 44.91		$h_{bf-ave} = 2/3 * (x_{bf}-x_{ff})$ Average Head, h_{bf-ave} : 0.71 FT		
		*Site Area Excluding "Self Crediting" BMPs *Total Site Area: 3.61 AC	$A_{bf} = Q_{bf} / [0.62 * \sqrt{(2 * g * h_{bf-ave})}]$ Orifice Area, A_{bf} : 0.0119 SF		
Impervious Cover Type (Post-Development)Soil TypeArea (SF)Paved Parking Lots, Roofs, DrivewaysA/B/C/D67,029	Curve Number (CN) Weighted Value	$Q_{100} = Q_{100-per} + Q_{100-imp}$ 5.35	Maximum $\#_{Orif} = A_{ff} / A_{Orif}$ Maximum $\#_{Orif} = A_{ff} / A_{Orif}$		
Open Water A/B/C/D 0	x [100.0] = [0	PF = (Q _p * Q ₁₀₀ * Area) / 640	** Orifice Size Proposed: 1.00 in (0.75" Minimum) Proposed # Orifice: 2.00		
Subtotals 67,029	6,568,842	$\Delta = PF - (0.15 * Area)$ CFS	$Q_{\text{Act-bf}} = 0.62 * \#_{\text{Orif}} * A_{\text{Orif}} * \sqrt{2 * g * h_{\text{bf-ave}}} $ 0.0456 CFS		
	Composite CN Value, CN: 98.00	$V_{det} = (\triangle / PF) * V_{100}$ Required Detention Volume, V_{det} 30,034 CF	$T_{Act-bf} = T_{Act-ff} + V_{Rem} / (Q_{ff+bf} + Q_{act-bf})$ Release Time, T_{Act-ff} 42.3 Hours		
W2. FIRST FLUSH RUNOFF CALCULATION ($V_{\it ff}$)		WII. STANDARD METHOD RUNOFF VOLUME CALCULATIONS	36 < T < 48 Hours, Okay		
V _{ff} = (IN) * (FT / 2 IN) * (43,560 SF) * A * C	Site Area, A: 3.61 AC	SUBSURFACE STORAGE / INFILTRATION / PERMEABLE PAVEMENT VOLUME	C. 100-YEAR STORM DISCHARGE		
	First Flush Runoff Volume, V _{ff} : 6,648 CF	Infiltration Red Area 2 696 SE	$Q_{\text{ff+bf}} = [0.62 * \#_{\text{Orif-ff}} * A_{\text{Act-Orif-ff}} * \sqrt{2 * g * (x_{100}-x_{\text{bot}})]} + [0.62 * \#_{\text{Orif-bf}} * A_{\text{Act-Orif-bf}} * \sqrt{2 * g * (x_{100}-x_{\text{bot}})]} + [0.62 * \#_{\text{Orif-bf}} * A_{\text{Act-Orif-bf}} * \sqrt{2 * g * (x_{100}-x_{\text{bot}})]} + [0.62 * \#_{\text{Orif-bf}} * A_{\text{Act-Orif-bf}} * A_{\text{Act-Orif-bf}}$		
W3 PRE-DEVELOPMENT RANKELILL RUNGEE CALCULATION (V)	First Flush Runoff Volume, V _{ff} : 6,648 CF	Infiltration Bed Area 2,686 SF			
W3. PRE-DEVELOPMENT BANKFULL RUNOFF CALCULATION ($V_{bf ext{-pre}}$)		Infiltration Bed Area 2,686 SF Subsurface Depth, D: 0.00 FT	Q _{max-100} = Q _{Allow} - (Q _{ff+bf})		
	Rainfall Value (2 Year / 24 Hour Storm Event), P: 2.35 IN		$Q_{\text{max-100}} = Q_{\text{Allow}} - (Q_{\text{ff+bf}})$ $A_{\text{max-100}} = Q_{\text{max-100}} / [0.62 * \sqrt{((2 * g * (x_{100} - x_{bf}))]}]$ 0.3689 CFS 0.3689 CFS		
W3. PRE-DEVELOPMENT BANKFULL RUNOFF CALCULATION ($V_{bf\text{-pre}}$) $S = (1000 / CN^*) - 10$ $CN_{PRE} = 36.54$		Subsurface Depth, D: 0.00 FT	$Q_{max-100} = Q_{Allow} - (Q_{ff+bf})$ Maximum 100-Year Release Rate, Q_{max} : 0.3689 CFS $A_{max-100} = Q_{max-100} / [0.62 * \sqrt{(2 * g * (x_{100}-x_{bf})]}]$ Orifice Area, $A_{max-100}$: 0.0908 SF Maximum #_Orifice = $A_{max-100} / A_{Orif}$ Maximum # Orifice: 16.64 ** Orifice Size Proposed: 1.00 in (0.75" Minimum)		
S = (1000 / CN*) - 10 CN _{PRE} = 36.54	Rainfall Value (2 Year / 24 Hour Storm Event), P: 2.35 IN Function of Watershed Soil & Conditions, S: 17.37	Subsurface Depth, D: 0.00 FT Void Ratio 30% Subsurface Storage Volume 0 CF Flow Type Area (ft²) Storage Volume (ft³) Design Infiltration Volume During Total Volume Reduction	$Q_{\text{max-100}} = Q_{\text{Allow}} - (Q_{\text{ff+bf}})$ $A_{\text{max-100}} = Q_{\text{max-100}} / [0.62 * \sqrt{(2 * g * (x_{100} - x_{\text{bf}})]}]$ $A_{\text{max-100}} = Q_{\text{max-100}} / [0.62 * \sqrt{(2 * g * (x_{100} - x_{\text{bf}})]}]$ $A_{\text{max-100}} = A_{\text{max-100}} / A_{\text{Orif}}$		
$S = (1000 / CN^*) - 10$ $CN_{PRE} = 36.54$ $Q = (P-0.2*S)^2/(P+0.8*S)$	Rainfall Value (2 Year / 24 Hour Storm Event), P: 2.35 IN Function of Watershed Soil & Conditions, S: 17.37 Runoff, Q: 0.078 IN	Subsurface Depth, D: 0.00 FT	$Q_{\text{max-100}} = Q_{\text{Allow}} - (Q_{\text{ff+bf}}) $ $Maximum 100-Year Release Rate, Q_{\text{max}} $ $O.3689 \text{ CFS}$ $A_{\text{max-100}} = Q_{\text{max-100}} / [0.62 * \sqrt{(2 * g * (x_{100}-x_{bf})]}] $ $Orifice Area, A_{\text{max-100}} $ $Maximum \#_{\text{Orifice}} = A_{\text{max-100}} / A_{\text{Orifice}} $ $O.908 \text{ SF}$ $Maximum \#_{\text{Orifice}} = A_{\text{max-100}} / A_{\text{Orifice}} = A_{\text{orifice}} / A_{Or$		
$S = (1000 / CN^*) - 10$ $CN_{PRE} = 36.54$ $Q = (P-0.2*S)^2/(P+0.8*S)$ *Site Area Excluding "Self Crediting" BMPs	Rainfall Value (2 Year / 24 Hour Storm Event), P: 2.35 IN Function of Watershed Soil & Conditions, S: 17.37 Runoff, Q: 0.078 IN *Total Site Area: 157,319 SF	Subsurface Depth, D: 0.00 FT Void Ratio 30% Subsurface Storage Volume 0 CF Flow Type Area (ft²) Storage Volume (ft³) Design Infiltration Infiltration Volume During Storm (ft³) (ft³)	$Q_{max-100} = Q_{Allow} - (Q_{ff+bf}) $ $Maximum 100-Year Release Rate, Q_{max}: 0.3689 \text{ CFS}$ $A_{max-100} = Q_{max-100} / [0.62 * \sqrt{(2*g*(x_{100}-x_{bf})]}] $ $Q_{normal of fice} = Q_{max-100} / Q_{normal of fice} = Q_{normal of fice}$		
$S = (1000 / CN^*) - 10$ $CN_{PRE} = 36.54$ $Q = (P-0.2*S)^2/(P+0.8*S)$ *Site Area Excluding "Self Crediting" BMPs $V_{bf-pre} = Q * (1/12) * Area$	Rainfall Value (2 Year / 24 Hour Storm Event), P: 2.35 IN Function of Watershed Soil & Conditions, S: 17.37 Runoff, Q: 0.078 IN *Total Site Area: 157,319 SF Pre-Development Bankfull Volume, V _{bf-pre} : 1,020 CF	Subsurface Depth, D: 0.00 FT	$Q_{\text{max-100}} = Q_{\text{Allow}} - (Q_{\text{ff-bf}})$ $Maximum 100-Year Release Rate, Q_{\text{max}} 0.3689 CFS$ $A_{\text{max-100}} = Q_{\text{max-100}} / [0.62 * \sqrt{(2*g*(x_{100}-x_{bf})]}]$ $Orifice A_{\text{max-100}} 0.0908 SF$ $Maximum \#_{\text{Orifice Size Proposed:}} 1.00 in $		
$S = (1000 / CN^*) - 10$ $CN_{PRE} = 36.54$ $Q = (P-0.2*S)^2/(P+0.8*S)$ *Site Area Excluding "Self Crediting" BMPs	Rainfall Value (2 Year / 24 Hour Storm Event), P: 2.35 IN Function of Watershed Soil & Conditions, S: 17.37 Runoff, Q: 0.078 IN *Total Site Area: 157,319 SF Pre-Development Bankfull Volume, V _{bf-pre} : 1,020 CF	Subsurface Depth, D: 0.00 FT	Qmax-100 = QAllow - (Qfi+bi) Maximum 100-Year Release Rate, Qmax; 0.3689 CFS Amax-100 = Qmax-100 / [0.62 *√((2 * g * (x ₁₀₀ -x _{bi})]) Orifice Area, A _{max-100} ; 0.0908 SF Maximum # _{Orif} = A _{max-100} / A _{Orif} Maximum #Orifice: 16.64 ** Orifice Size Proposed: 1.00 in (0.75" Minimum) Proposed #Orifice: 5.00 Qacc-100 = Qfi+bi + # _{Orif} * A _{Orif} * √(2 * g * (x ₁₀₀ -x _{bi})) Proposed 100-Year Release Rate, Qacc-100; 0.3516 okay CFS h _{all-ave} = 2/3 * (x ₁₀₀ -x _{bi}) + (x _{bi} -x _{box}) First Flush Orifice Total Head, h _{all-ave} : 3.28 FT T Qall = 0.62 * # _{Orif-ff} * A _{Orif-ff} * √(2 * g * h _{all-ave}) Proposed First Flush Orifice Release Rate, Q _{All} : 0.0983 CFS		
$S = (1000 / CN^*) - 10$ $CN_{PRE} = 36.54$ $Q = (P-0.2*S)^2/(P+0.8*S)$ *Site Area Excluding "Self Crediting" BMPs $V_{bf-pre} = Q * (1/12) * Area$	Rainfall Value (2 Year / 24 Hour Storm Event), P: 2.35 IN Function of Watershed Soil & Conditions, S: 17.37 Runoff, Q: 0.078 IN *Total Site Area: 157,319 SF Pre-Development Bankfull Volume, V _{bf-pre} : 1,020 CF	Subsurface Depth, D: 0.00 FT	$Q_{\text{max-100}} = Q_{\text{Allow}} - (Q_{\text{ff-bf}})$ $Maximum 100-Year Release Rate, Q_{\text{max}} 0.3689 CFS$ $A_{\text{max-100}} = Q_{\text{max-100}} / [0.62 * \sqrt{(2*g*(x_{100}-x_{bf})]}]$ $Orifice A_{\text{max-100}} 0.0908 SF$ $Maximum \#_{\text{Orifice Size Proposed:}} 1.00 in $		
$S = (1000 / CN^*) - 10$ $CN_{PRE} = 36.54$ $Q = (P-0.2*S)^2/(P+0.8*S)$ *Site Area Excluding "Self Crediting" BMPs $V_{bf-pre} = Q * (1/12) * Area$	Rainfall Value (2 Year / 24 Hour Storm Event), P: 2.35 IN Function of Watershed Soil & Conditions, S: 17.37 Runoff, Q: 0.078 IN *Total Site Area: 157,319 SF Pre-Development Bankfull Volume, V _{bf-pre} : 1,020 CF JLATION (V _{bf-per-post})	Subsurface Depth, D: 0.00 FT Void Ratio 30% Subsurface Storage Volume 0 CF Flow Type Area (ft²) Storage Volume (ft³) Design Infiltration Infiltration Volume During Storm (ft²) (ft²) (ft²) (ft²) Infiltration Basin 2.686 0 0 0 10.00 13.430 13.430 1. Infiltration Rate x 6 hrs x BMP Area x Unix Conversion = Infiltration Volume 2. Infiltration rate deemed negligible based on environmental investigations finding contaminated soils on-site Total Volume Reduction: 13.430 CF No Reduction can be Credited Due to Contaminated Soils (No Infiltration Permitted) Onsite Infiltration Requirement, Vinf; 10.838 CF	Qmax-100 = QAllow - (Qfi+br) Maximum 100-Year Release Rate, Qmax; 0.3689 CFS Amax-100 = Qmax-100 / [0.62 *√((2 * g * (x ₁₀₀ -x _{br}))] Orifice Area, A _{max-100} ; 0.0908 SF Maximum # _{Orif} = A _{max-100} / A _{Orlf} Maximum # Orifice; 16.64 ** Orifice Size Proposed: 1.00 in (0.75" Minimum) Proposed # Orifice; 5.00 Qacc-100 = Q _{ff+bf} * # _{Orif} * A _{Orif} * √(2 * g * (x ₁₀₀ -x _{bf})) Proposed 100-Year Release Rate, Qacc-100; 0.3516 OFS If < 0.5417 okay		
S = (1000 / CN*) - 10 CN _{PRE} = 36.54 Q = (P-0.2*S) ² /(P+0.8*S) *Site Area Excluding "Self Crediting" BMPs V _{bf-pre} = Q * (1/12) * Area W4. PERVIOUS COVER POST-DEVELOPMENT BANKFULL RUNOFF CALCU	Rainfall Value (2 Year / 24 Hour Storm Event), P: 2.35 IN Function of Watershed Soil & Conditions, S: 17.37 Runoff, Q: 0.078 IN *Total Site Area: 157,319 SF Pre-Development Bankfull Volume, V _{bf-pre} : 1,020 CF JLATION (V _{bf-per-post}) Rainfall Value (2 Year / 24 Hour Storm Event), P: 2.35 IN	Subsurface Depth, D: 0.00 FT Void Ratio 30%	$Q_{\text{max-100}} = Q_{\text{Allow}} \cdot (Q_{\text{fi-Mv}}) $ $Maximum 100-Year Release Rate, Q_{\text{max}} : 0.3689 \text{ CFS}$ $A_{\text{max-100}} = Q_{\text{max-100}} / [0.62 * \sqrt{(2 * g * (x_{100} \cdot x_{bf})]}] $ $Maximum \#_{\text{Orifice Area, A}} A_{\text{max-100}} : 0.0908 \text{ SF}$ $Maximum \#_{\text{Orifice Size Proposed:}} $		
S = (1000 / CN*) - 10 CN _{PRE} = 36.54 Q = (P-0.2*S) ² /(P+0.8*S) *Site Area Excluding "Self Crediting" BMPs V _{bf-pre} = Q * (1/12) * Area W4. PERVIOUS COVER POST-DEVELOPMENT BANKFULL RUNOFF CALCUS S = (1000 / CN) - 10	Rainfall Value (2 Year / 24 Hour Storm Event), P: 2.35 IN Function of Watershed Soil & Conditions, S: 17.37 Runoff, Q: 0.078 IN *Total Site Area: 157,319 SF Pre-Development Bankfull Volume, V _{bf-pre} : 1,020 CF JLATION (V _{bf-per-post}) Rainfall Value (2 Year / 24 Hour Storm Event), P: 2.35 IN Function of Watershed Soil & Conditions, S: 12.27	Subsurface Depth, D: 0.00 FT Void Ratio 30%	Qmax-100 = QAllow - (Qrt-bit) Maximum 100-Year Release Rate, Qmax: 0.3689 CFS Amax-100 = Qmax-100 / [0.62 * √((2 * g * (x ₁₀₀ -x _{bit})]) Orifice Area, A _{max-100} : 0.0908 SF Maximum # _{Orif} = A _{max-100} / A _{Orif} Maximum # Orifice: 16.64 ** Orifice Size Proposed: 1.00 in (0.75" Minimum) Proposed # Orifice: 5.00 Qact-100 = Q _{ffebf} + # _{Orif} * A _{Orif} * √(2 * g * (x ₁₀₀ -x _{bit})) Proposed 100-Year Release Rate, Qact-100: 0.3516 CFS		
S = (1000 / CN*) - 10 CN PRE = 36.54 Q = (P-0.2*S) ² /(P+0.8*S) *Site Area Excluding "Self Crediting" BMPs Vbf-pre = Q * (1/12) * Area W4. PERVIOUS COVER POST-DEVELOPMENT BANKFULL RUNOFF CALCUS S = (1000 / CN) - 10 Q = (P-0.2*S) ² /(P+0.8*S)	Rainfall Value (2 Year / 24 Hour Storm Event), P: 2.35 IN Function of Watershed Soil & Conditions, S: 17.37 Runoff, Q: 0.078 IN *Total Site Area: 157,319 SF Pre-Development Bankfull Volume, V _{bf-pre} : 1,020 CF JLATION (V _{bf-per-post}) Rainfall Value (2 Year / 24 Hour Storm Event), P: 2.35 IN Function of Watershed Soil & Conditions, S: 12.27 Runoff, Q: 0.001 IN Pervious Cover Area: 90,290 SF	Subsurface Depth, D: 0.00 FT	Qmax-100 = QAllow - (Qff-bl) Maximum 100-Year Release Rate, Qmax: 0.3689 CFS Amax-100 = Qmax-100 / [0.62 * √((2 * g * (x100-Xe))] Orifice Area, Amax-100: 0.0908 SF Maximum #ont = Amax-100 / Aort Maximum #Orifice: 16.64 ** Orifice Size Proposed: 1.00 in (0.75" Minimum) Proposed #Orifice: 5.00 Qact-100 = Qtf-bl * #orif * Aortif *		
S = (1000 / CN*) - 10 CN _{PRE} = 36.54 Q = (P-0.2*S) ² /(P+0.8*S) *Site Area Excluding "Self Crediting" BMPs V _{bf-pre} = Q * (1/12) * Area W4. PERVIOUS COVER POST-DEVELOPMENT BANKFULL RUNOFF CALCUS S = (1000 / CN) - 10 Q = (P-0.2*S) ² /(P+0.8*S) V _{bf-per-post} = Q * (1/12) * Area	Rainfall Value (2 Year / 24 Hour Storm Event), P: 2.35 IN Function of Watershed Soil & Conditions, S: 17.37 Runoff, Q: 0.078 IN *Total Site Area: 157,319 SF Pre-Development Bankfull Volume, V _{bf-pre} : 1,020 CF JLATION (V _{bf-per-post}) Rainfall Value (2 Year / 24 Hour Storm Event), P: 2.35 IN Function of Watershed Soil & Conditions, S: 12.27 Runoff, Q: 0.001 IN Pervious Cover Area: 90,290 SF Pervious Cover Post Development Bankfull Volume, V _{bf-per-post} : 7 CF	Subsurface Depth, D: 0.00 FT Void Ratio 30% Subsurface Storage Volume 0 CF Flow Type Area (ft) Storage Volume (ft) Design Infiltration Infiltration Volume During Storage Volume Reduction Storage Volume (ft) Storage Volume (ft) Storage Volume (ft) Storage Volume (ft) Infiltration Basin 2.686 0 0 10.00 13.430 13.430 13.430 1. Infiltration Rate x 6 ins x BMP Area x Unit Conversion = Infiltration Volume Infiltration rate deemed negligible based on environmental investigations finding contaminated soils on-site Total Volume Reduction 13,430 CF No Reduction can be Credited Due to Contaminated Soils (No Infiltration Permitted) Onsite Infiltration Requirement, V _{inf} 10,838 CF Runoff Volume Credit 2,592 CF W13. SUMMARY A. STORHWATER MANAGEMENT SUMMARY Minimum Onsite Infiltration Requirement, V _{inf} 10,838 CF Provided Infiltration Requirement, V _{inf} 13,430 CF Provided Infiltration Volume 13,430 CF	Qmax-100 = QAllow - (Qfirth) Maximum 100-Year Release Rate, Qmax: 0.3689 CFS Amax-100 = Qmax-100 / [0.62 *√((2 * g * (x ₁₀₀ -x ₀₀))] Orifice Area, Amax-100 / Aont 0.9908 SF Maximum #orifice: 16.64 Maximum #Orifice: 5.00 Qac-100 = Qiri-M * #Orifi * Aorif * √(2 * g * (x ₁₀₀ -x ₀₀)) Proposed #Orifice: 5.00 Proposed 100-Year Release Rate, Qac-100 / Aorif of (2 * g * (x ₁₀₀ -x ₀₀)) Proposed 100-Year Release Rate, Qac-100 / Aory Hall-ave: 2/3 * (x ₁₀₀ -x ₀₀) + (x ₀ -x ₀₀) First Flush Orifice Total Head, hall-ave: 3.28 FT Qati = 0.62 * #Orifice Aorifice Aorific		
S = (1000 / CN*) - 10 CN PRE = 36.54 Q = (P-0.2*S) ² /(P+0.8*S) *Site Area Excluding "Self Crediting" BMPs Vbf-pre = Q * (1/12) * Area W4. PERVIOUS COVER POST-DEVELOPMENT BANKFULL RUNOFF CALCUS S = (1000 / CN) - 10 Q = (P-0.2*S) ² /(P+0.8*S)	Rainfall Value (2 Year / 24 Hour Storm Event), P: 2.35 IN Function of Watershed Soil & Conditions, S: 17.37 Runoff, Q: 0.078 IN *Total Site Area: 157,319 SF Pre-Development Bankfull Volume, V _{bf-pre} : 1,020 CF JLATION (V _{bf-per-post}) Rainfall Value (2 Year / 24 Hour Storm Event), P: 2.35 IN Function of Watershed Soil & Conditions, S: 12.27 Runoff, Q: 0.001 IN Pervious Cover Area: 90,290 SF Pervious Cover Post Development Bankfull Volume, V _{bf-per-post} : 7 CF CULATION (V _{bf-imp-post})	Subsurface Depth, D: 0.00 FT	Qmax-100 = QAllow - (Qfirth) Maximum 100-Year Release Rate, Qmax: 0.3689 CFS Amax-100 = Qmax-100 / [0.62 *√((2 * g * (x_{100-Xu})]) Orifice Area, Amax-100 / Aont 0.9908 SF Maximum #orifice: 16.64 ***Orifice Size Proposed: 1.00 in (0.75" Minimum) ***Proposed #Orifice: 5.00 Qac-100 = Qifted * #Orifi * Aorif * √(2 * g * (x_{100-Xu})) **Proposed IO0-Year Release Rate, Qac-100: 0.3516 OFS In all-we = 2/3 * (x_{100-Xu}) + (x_M-x_{hox}) First Flush Orifice Total Head, hall-we: 3.28 FT Qat-100 = 0.62 * #Orifice * Aorifice * √(2 * g * hall-we) Proposed First Flush Orifice Release Rate, Qair 0.0983 CFS historic = 2/3 * (x_{100-Xu}) + (x_M-x_h) ***Bankfull Orifice Release Rate, Qair 0.0983 CFS Proposed Bankfull Orifice Total Head, holowe: 1.50 FT Qut-100 = 0.62 * #Orifor * Aorifor * √(2 * g * harane) ***Proposed Bankfull Orifice Release Rate, Qair-100: 0.07 CFS H100-ave: 2.03 * (X_{100-Xu}) + (X_{100-Xu}) 0.04 FT Q103-ave = 0.62 * #Orifor * Aorifor * √(2 * g * h100-ave) Proposed 100-Year Orifice Release Rate, Q100-ave: 0.0905 CFS Volume Remaining, V _{hori} 4.343.3 CF		
S = (1000 / CN*) - 10 CN PRE = 36.54 Q = (P-0.2*S) ² /(P+0.8*S) *Site Area Excluding "Self Crediting" BMPS V _{M-pre} = Q * (1/12) * Area W4. PERVIOUS COVER POST-DEVELOPMENT BANKFULL RUNOFF CALCUS S = (1000 / CN) - 10 Q = (P-0.2*S) ² /(P+0.8*S) V _{M-per-post} = Q * (1/12) * Area W5. IMPERVIOUS COVER POST-DEVELOPMENT BANKFULL RUNOFF CALCUS W5. IMPERVIOUS COVER POST-DEVELOPMENT BANKFULL RUNOFF CALCUS **Continue of the continue of the co	Rainfall Value (2 Year / 24 Hour Storm Event), P: 2.35 IN Function of Watershed Soil & Conditions, S: 17.37 Runoff, Q: 0.078 IN *Total Site Area: 157,319 SF Pre-Development Bankfull Volume, V _{bf-pre} : 1,020 CF JLATION (V _{bf-per-post}) Rainfall Value (2 Year / 24 Hour Storm Event), P: 2.35 IN Function of Watershed Soil & Conditions, S: 12.27 Runoff, Q: 0.001 IN Pervious Cover Area: 90,290 SF Pervious Cover Post Development Bankfull Volume, V _{bf-per-post} : 7 CF CULATION (V _{bf-imp-post}) Rainfall Value (2 Year / 24 Hour Storm Event), P: 2.35 IN	Subsurface Depth, D: 0.00 FT Void Ratio 30% Subsurface Storage Volume 0 CF Flow Type Area (ft) Storage Volume (ft) Design Infiltration Infiltration Volume During Storage Volume Reduction Storage Volume (ft) Storage Volume (ft) Storage Volume (ft) Storage Volume (ft) Infiltration Basin 2.686 0 0 10.00 13.430 13.430 13.430 1. Infiltration Rate x 6 ins x BMP Area x Unit Conversion = Infiltration Volume Infiltration rate deemed negligible based on environmental investigations finding contaminated soils on-site Total Volume Reduction 13,430 CF No Reduction can be Credited Due to Contaminated Soils (No Infiltration Permitted) Onsite Infiltration Requirement, V _{inf} 10,838 CF Runoff Volume Credit 2,592 CF W13. SUMMARY A. STORHWATER MANAGEMENT SUMMARY Minimum Onsite Infiltration Requirement, V _{inf} 10,838 CF Provided Infiltration Requirement, V _{inf} 13,430 CF Provided Infiltration Volume 13,430 CF	Qmax-100 = QAllow · (Qmix) Maximum 100-Year Release Rate, Qmax 0.3669 CFS Amaz-100 = Qmaz-100 / [0.62 * √((2 * g * (x100-Xu))] Orifice Area, Amaz-100 / 0.0908 SF Maximum #Onif = Amaz-100 / Onif Cester Proposed: 1.00 in (0.75" Minimum) Maximum # Onifice 16.64 *** Orifice Size Proposed: 1.00 in (0.75" Minimum) Proposed # Orifice 5.00 Qact-100 = Qatist * #Onif * Actif * √(2 * g * (x100-Xu)) Proposed 100-Year Release Rate, Qact-100 0.3516 CFS (7 < 0.5417 okoy)		
$S = (1000 / \text{CN}^*) - 10$ $CN_{PRE} = 36.54$ $Q = (P-0.2*S)^2/(P+0.8*S)$ *Site Area Excluding "Self Crediting" BMPs $V_{bf.pre} = Q * (1/12) * \text{Area}$ $W4. PERVIOUS COVER POST-DEVELOPMENT BANKFULL RUNOFF CALCUMENT BANKF$	Rainfall Value (2 Year / 24 Hour Storm Event), P: 2.35 IN Function of Watershed Soil & Conditions, S: 17.37 Runoff, Q: 0.078 IN *Total Site Area: 157,319 SF Pre-Development Bankfull Volume, V _{bf-pre} : 1,020 CF JLATION (V _{bf-per-post}) Rainfall Value (2 Year / 24 Hour Storm Event), P: 2.35 IN Function of Watershed Soil & Conditions, S: 12.27 Runoff, Q: 0.001 IN Pervious Cover Area: 90,290 SF Pervious Cover Post Development Bankfull Volume, V _{bf-per-post} : 7 CF CULATION (V _{bf-imp-post})	Subsurface Depth, D: 0.00 FT Void Ratio 30% Subsurface Storage Volume 0 CF Flow Type Area (R ²) Storage Volume (R ²) Design infiltration Infiltration Volume During Total Volume Reduction (R ²) (R	Qmax-100 = QAllow · (Qmix) Maximum 100-Year Release Rate, Qmax 0.3669 CFS Amaz-100 = Qmaz-100 / [0.62 * √((2 * g * (x100-Xu))] Orifice Area, Amaz-100 / 0.0908 SF Maximum #Onif = Amaz-100 / Onif Cester Proposed: 1.00 in (0.75" Minimum) Maximum # Onifice 16.64 *** Orifice Size Proposed: 1.00 in (0.75" Minimum) Proposed # Orifice 5.00 Qact-100 = Qatist * #Onif * Actif * √(2 * g * (x100-Xu)) Proposed 100-Year Release Rate, Qact-100 0.3516 CFS (7 < 0.5417 okoy)		
S = (1000 / CN*) - 10 CN PRE = 36.54 Q = (P-0.2*S) ² /(P+0.8*S) *Site Area Excluding "Self Crediting" BMPS Vbf-pre = Q * (1/12) * Area W4. PERVIOUS COVER POST-DEVELOPMENT BANKFULL RUNOFF CALCUS S = (1000 / CN) - 10 Q = (P-0.2*S) ² /(P+0.8*S) Vbf-per-post = Q * (1/12) * Area W5. IMPERVIOUS COVER POST-DEVELOPMENT BANKFULL RUNOFF CALCUS W5. IMPERVIOUS COVER POST-DEVELOPMENT BANKFULL RUNOFF CALCUS **Continue of the continue of the cont	Rainfall Value (2 Year / 24 Hour Storm Event), P: 2.35 IN Function of Watershed Soil & Conditions, S: 17.37 Runoff, Q: 0.078 IN *Total Site Area: 157,319 SF Pre-Development Bankfull Volume, V _{bf-pre} : 1,020 CF JLATION (V _{bf-per-post}) Rainfall Value (2 Year / 24 Hour Storm Event), P: 2.35 IN Function of Watershed Soil & Conditions, S: 12.27 Runoff, Q: 0.001 IN Pervious Cover Area: 90,290 SF Pervious Cover Post Development Bankfull Volume, V _{bf-per-post} : 7 CF CULATION (V _{bf-imp-post}) Rainfall Value (2 Year / 24 Hour Storm Event), P: 2.35 IN	Subsurface Depth, D: 0.00 FT Void Ratio 30% Subsurface Storage Volume 0 CF Flow Type Area (ft²) Surface Soil Rote (n/hn) Storm (ft²) (ft²) (ft²) Infiltration Basin 1, Infiltration Rate x 6 hrs x BMP Area x Unit Conversion = Infiltration Side on -size Infiltration rate deemed negligible based on environmental investigations finding contaminated soik on-size Total Volume Reduction: 13,430 CF No Reduction can be Credited Due to Contaminated Soik (No Infiltration Requirement, Visit 10,838 CF W13. SUMMARY A. STORMWATER MANAGEMENT SUMMARY Minimum Onsice Infiltration Requirement, Visit 10,838 CF **Required Infiltration Powded Infiltra	Qmax-100 = QAllow · (Qmix) Maximum 100-Year Release Rate, Qmax 0.3669 CFS Amaz-100 = Qmaz-100 / [0.62 * √((2 * g * (x100-Xu))] Orifice Area, Amaz-100 / 0.0908 SF Maximum #Onif = Amaz-100 / Onif Cester Proposed: 1.00 in (0.75" Minimum) Maximum # Onifice 16.64 *** Orifice Size Proposed: 1.00 in (0.75" Minimum) Proposed # Orifice 5.00 Qact-100 = Qatist * #Onif * Actif * √(2 * g * (x100-Xu)) Proposed 100-Year Release Rate, Qact-100 0.3516 CFS (7 < 0.5417 okoy)		
$S = (1000 / CN^{\circ}) - 10$ $CN_{PRE} = 36.54$ $Q = (P-0.2^{\circ}S)^{2}(P+0.8^{\circ}S)$ *Site Area Excluding "Self Crediting" BMPS $V_{td-pre} = Q * (1/12) * Area$ $W4. PERVIOUS COVER POST-DEVELOPMENT BANKFULL RUNOFF CALCUS S = (1000 / CN) - 10 Q = (P-0.2^{\circ}S)^{2}/(P+0.8^{\circ}S) V_{td-per-post} = Q * (1/12) * Area W5. IMPERVIOUS COVER POST-DEVELOPMENT BANKFULL RUNOFF CALCUS S = (1000 / CN) - 10$	Rainfall Value (2 Year / 24 Hour Storm Event), P: 2.35 IN Function of Watershed Soil & Conditions, S: 17.37 Runoff, Q: 0.078 IN *Total Site Area: 157,319 SF Pre-Development Bankfull Volume, V _{bf-pre} : 1,020 CF JLATION (V _{bf-per-post}) Rainfall Value (2 Year / 24 Hour Storm Event), P: 2.35 IN Function of Watershed Soil & Conditions, S: 12.27 Runoff, Q: 0.001 IN Pervious Cover Area: 90,290 SF Pervious Cover Post Development Bankfull Volume, V _{bf-per-post} : 7 CF CULATION (V _{bf-imp-post}) Rainfall Value (2 Year / 24 Hour Storm Event), P: 2.35 IN Function of Watershed Soil & Conditions, S: 0.20 IN	Subsurface Depth, D: 0.00 FT Void Ratio 30% Subsurface Storage Volume 0 CF Flow Type Area (ft²) Surface Soil Rate (in i hr) Storm (ft²) (ft²) (ft²) Surface Soil Rate (in i hr) (ft²) (Qmax-100 = QAllow · (Qmix) Maximum 100-Year Release Rate, Qmax 0.3669 CFS Amaz-100 = Qmaz-100 / [0.62 * √((2 * g * (x100-Xu))] Orifice Area, Amaz-100 / 0.0908 SF Maximum #Onif = Amaz-100 / Onif Cester Proposed: 1.00 in (0.75" Minimum) Maximum # Onifice 16.64 *** Orifice Size Proposed: 1.00 in (0.75" Minimum) Proposed # Orifice 5.00 Qact-100 = Qatist * #Onif * Actif * √(2 * g * (x100-Xu)) Proposed 100-Year Release Rate, Qact-100 0.3516 CFS (7 < 0.5417 okoy)		
$S = (1000 / \text{CN}^{\circ}) - 10$ $CN_{PRE} = 36.54$ $Q = (P-0.2^{\circ}S)^{2}/(P+0.8^{\circ}S)$ *Site Area Excluding "Self Crediting" BMPs $V_{\text{td-pre}} = Q \circ (1/12) \circ \text{Area}$ $W4. \text{ PERVIOUS COVER POST-DEVELOPMENT BANKFULL RUNOFF CALCUS}$ $S = (1000 / \text{CN}) - 10$ $Q = (P-0.2^{\circ}S)^{2}/(P+0.8^{\circ}S)$ $V_{\text{td-per-post}} = Q \circ (1/12) \circ \text{Area}$ $W5. \text{ IMPERVIOUS COVER POST-DEVELOPMENT BANKFULL RUNOFF CALCUS}$ $S = (1000 / \text{CN}) - 10$ $Q = (P-0.2^{\circ}S)^{2}/(P+0.8^{\circ}S)$	Rainfall Value (2 Year / 24 Hour Storm Event), P: 2.35 IN Function of Watershed Soil & Conditions, S: 17.37 Runoff, Q: 0.078 IN *Total Site Area: 157,319 SF Pre-Development Bankfull Volume, V _{M-pre} : 1,020 CF JLATION (V _{bf-per-post}) Rainfall Value (2 Year / 24 Hour Storm Event), P: 2.35 IN Function of Watershed Soil & Conditions, S: 12.27 Runoff, Q: 0.001 IN Pervious Cover Area: 90,290 SF Pervious Cover Post Development Bankfull Volume, V _{M-per-post} : 7 CF CULATION (V _{bf-imp-post}) Rainfall Value (2 Year / 24 Hour Storm Event), P: 2.35 IN Function of Watershed Soil & Conditions, S: 0.20 IN Runoff, Q: 2.122 IN	Subsurface Depth, D: 0.00 FT Void Ratio 30% Subsurface Storage Volume 0 CF Flow Type Area (R²) Sorrage Volume (R³) Design Infliration Infliration Volume During Total Volume Reduction Sorrage Volume (R³) Sorrage Volume Rate (R³) Sorrage Volume (R³) Sorrage Volume (R³) Sorrage Volume Rate (R³) Sorrage Volume (R³) Sorrage Volume (R³) Sorrage Volume Rate (R³) Sorrage (R³) Sorrage Volume Rate (R	Qmax-100 = QAllow · (Qmix) Maximum 100-Year Release Rate, Qmax 0.3669 CFS Amaz-100 = Qmaz-100 / [0.62 * √((2 * g * (x100-Xu))] Orifice Area, Amaz-100 / 0.0908 SF Maximum #Onif = Amaz-100 / Onif Cester Proposed: 1.00 in (0.75" Minimum) Maximum # Onifice 16.64 *** Orifice Size Proposed: 1.00 in (0.75" Minimum) Proposed # Orifice 5.00 Qact-100 = Qatist * #Onif * Actif * √(2 * g * (x100-Xu)) Proposed 100-Year Release Rate, Qact-100 0.3516 CFS (7 < 0.5417 okoy)		
$S = (1000 / \text{CN}^{\circ}) - 10$ $CN_{PRE} = 36.54$ $Q = (P-0.2^{\circ}S)^{2}/(P+0.8^{\circ}S)$ *Site Area Excluding "Self Crediting" BMPs $V_{\text{td-pre}} = Q * (1/12) * \text{Area}$ $W4. \text{ PERVIOUS COVER POST-DEVELOPMENT BANKFULL RUNOFF CALCUS}$ $S = (1000 / \text{CN}) - 10$ $Q = (P-0.2^{\circ}S)^{2}/(P+0.8^{\circ}S)$ $V_{\text{td-per-post}} = Q * (1/12) * \text{Area}$ $W5. \text{ IMPERVIOUS COVER POST-DEVELOPMENT BANKFULL RUNOFF CALCUS}$ $S = (1000 / \text{CN}) - 10$ $Q = (P-0.2^{\circ}S)^{2}/(P+0.8^{\circ}S)$	Rainfall Value (2 Year / 24 Hour Storm Event), P: Punction of Watershed Soil & Conditions, S: Runoff, Q: 0.078 IN *Total Site Area: 157,319 SF Pre-Development Bankfull Volume, V _{bf-pre} : I,020 CF JLATION (V _{bf-per-post}) Rainfall Value (2 Year / 24 Hour Storm Event), P: 2.35 IN Function of Watershed Soil & Conditions, S: Pervious Cover Area: 90,290 SF Pervious Cover Post Development Bankfull Volume, V _{bf-per-post} : 7 CF CULATION (V _{bf-imp-post}) Rainfall Value (2 Year / 24 Hour Storm Event), P: 2.35 IN Function of Watershed Soil & Conditions, S: 0.20 IN Runoff, Q: 2.122 IN Impervious Cover Area: 67,029 SF	Subsurface Depth, D Void Ratio Void Ratio Subsurface Storage Volume O CF Flow Type Area (R ²) Storage Volume (R ²) Storage Volume (R ²) Sufface Soil Rate (a) In / Surface (a) In filtration Volume During Total Volume Reduction In filtration Basin 1. In filtration Read & A line a RMP Area at the Corressor = Infliction Volume 2. Inflication rate deemed negligible losed on environmental anestigation finding contaminated task on-size Total Volume Reduction: 1. Inflication rate deemed negligible losed on environmental anestigation finding contaminated task on-size Total Volume Reduction: 1. Inflication Requirement, Visc 10.838 CF No Reduction can be Cristed Our or Communicate Stok (No light contaminated) Onsite Inflitration Requirement, Visc 10.838 CF Runoff Volume Credit 2.592 CF W13. SUMMARY A. STORMWATER MANAGEMENT SUMMARY A. STORMWATER MANAGE	Qmax-100 = QAllow · (Qmix) Maximum 100-Year Release Rate, Qmax 0.3669 CFS Amaz-100 = Qmaz-100 / [0.62 * √((2 * g * (x100-Xu))] Orifice Area, Amaz-100 / 0.0908 SF Maximum #Onif = Amaz-100 / Onif Cester Proposed: 1.00 in (0.75" Minimum) Maximum # Onifice 16.64 *** Orifice Size Proposed: 1.00 in (0.75" Minimum) Proposed # Orifice 5.00 Qact-100 = Qatist * #Onif * Actif * √(2 * g * (x100-Xu)) Proposed 100-Year Release Rate, Qact-100 0.3516 CFS (7 < 0.5417 okoy)		
S = (1000 / CN*) - 10 CN PRE = 36.54 Q = (P-0.2*S) ² /(P+0.8*S) *Site Area Excluding "Self Crediting" BMPS V _{M-pre} = Q * (1/12) * Area W4. PERVIOUS COVER POST-DEVELOPMENT BANKFULL RUNOFF CALCU S = (1000 / CN) - 10 Q = (P-0.2*S) ² /(P+0.8*S) V _{M-per-poxt} = Q * (1/12) * Area W5. IMPERVIOUS COVER POST-DEVELOPMENT BANKFULL RUNOFF CAL S = (1000 / CN) - 10 Q = (P-0.2*S) ² /(P+0.8*S) V _{M-imp-poxt} = Q * (1/12) * Area Implication of the period of the poxition of the poxition of the period of th	Rainfall Value (2 Year / 24 Hour Storm Event), P: Punction of Watershed Soil & Conditions, S: Runoff, Q: 0.078 IN *Total Site Area: 157,319 SF Pre-Development Bankfull Volume, V _{bf-pre} : I,020 CF JLATION (V _{bf-per-post}) Rainfall Value (2 Year / 24 Hour Storm Event), P: 2.35 IN Function of Watershed Soil & Conditions, S: Pervious Cover Area: 90,290 SF Pervious Cover Post Development Bankfull Volume, V _{bf-per-post} : 7 CF CULATION (V _{bf-imp-post}) Rainfall Value (2 Year / 24 Hour Storm Event), P: 2.35 IN Function of Watershed Soil & Conditions, S: 0.20 IN Runoff, Q: 2.122 IN Impervious Cover Area: 67,029 SF	Subsurface Depth, D. 0.00 FT Void Ratio 20%	Maximum 100-Year Release Rate, Quant O.1609 CFS		
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S = (1000 / CN*) - 10 CN PRE = 36.54 Q = (P-0.2*S) ² /(P+0.8*S) *Site Area Excluding "Self Gredaing" BMPs Vot-pre = Q * (1/12) * Area W4. PERVIOUS COVER POST-DEVELOPMENT BANKFULL RUNOFF CALCU S = (1000 / CN) - 10 Q = (P-0.2*S) ² /(P+0.8*S) Vot-pre-prost = Q * (1/12) * Area W5. IMPERVIOUS COVER POST-DEVELOPMENT BANKFULL RUNOFF CALCU S = (1000 / CN) - 10 Q = (P-0.2*S) ² /(P+0.8*S) Vot-pre-prost = Q * (1/12) * Area W6. PERVIOUS COVER POST-DEVELOPMENT 100 YEAR STORM RUNOFF CALCU S = (1000 / CN) - 10 Q = (P-0.2*S) ² /(P+0.8*S)	Rainfall Value (2 Year / 24 Hour Storm Event), P: 17.37 Runoff, Q: 0.078 IN *Total Site Area: 157,319 SF Pre-Development Bankfull Volume, V _{bf-pre} : 1,020 CF Plation (V _{bf-per-post}) Rainfall Value (2 Year / 24 Hour Storm Event), P: 2.35 IN Function of Watershed Soil & Conditions, S: 12.27 Runoff, Q: 0.001 IN Pervious Cover Area: 90.290 SF Pervious Cover Post Development Bankfull Volume, V _{bf-per-post} Rainfall Value (2 Year / 24 Hour Storm Event), P: 2.35 IN Function of Watershed Soil & Conditions, S: 0.20 IN Runoff, Q: 2.122 IN Impervious Cover Area: 67,029 SF CALCULATION (V _{100-per-post}) Rainfall Value (100 Year Storm Event), P: 5.11 IN Function of Watershed Soil & Conditions, S: 1.227 IN Rainfall Value (100 Year Storm Event), P: 5.11 IN Function of Watershed Soil & Conditions, S: 1.227 IN Runoff, Q _{100-per-post} 0.47 IN Pervious Cover Area: 90.290 SF	Subsurface Storage Volume 0 C	Maximum 100-Year Release Rate, Quant O.1609 CFS		

Basin volume calculated based on a trapezoidal prism

NOT APPROVED FOR CONSTRUCTION

STONEFIELD engineering & design

PROPOSED CONVENIENCE STORE AND FUEL STATION





SCALE: AS SHOWN PROJECT ID: DET-230091.01

STORMWATER **MANAGEMENT**

CALCULATIONS DRAWING:

PARCEL AREA

PARCEL 1: 74,455± SQUARE FEET = 1.70± ACRES PARCEL 2: 174,964± SQUARE FEET = 4.01± ACRES PARCEL 3: 72,289± SQUARE FEET = 1.65± ACRES

BASIS OF BEARING

NORTH 16°04'20" WEST, BEING THE WEST LINE OF

FRENCH CLAIM 690, AS DESCRIBED.

BENCHMARK

SITE BENCHMARK #1

CHISLED SQUARE ON SOUTHEAST TOP OF CONC LIGHT POLE BASE 40'± WEST

OF HEWITT RD 175'± SOUTH OF MICHIGAN AVE

ELEVATION = 784.79' (NAVD 88)

SITE BENCHMARK #2
CHISLED SQUARE ON SOUTHEAST TOP OF CONC TRAFFIC SIGNAL BASE @
SOUTHEAST QUAD OF MICHIGAN AVE & HEWITT RD
ELEVATION = 791.95' (NAVD 88)

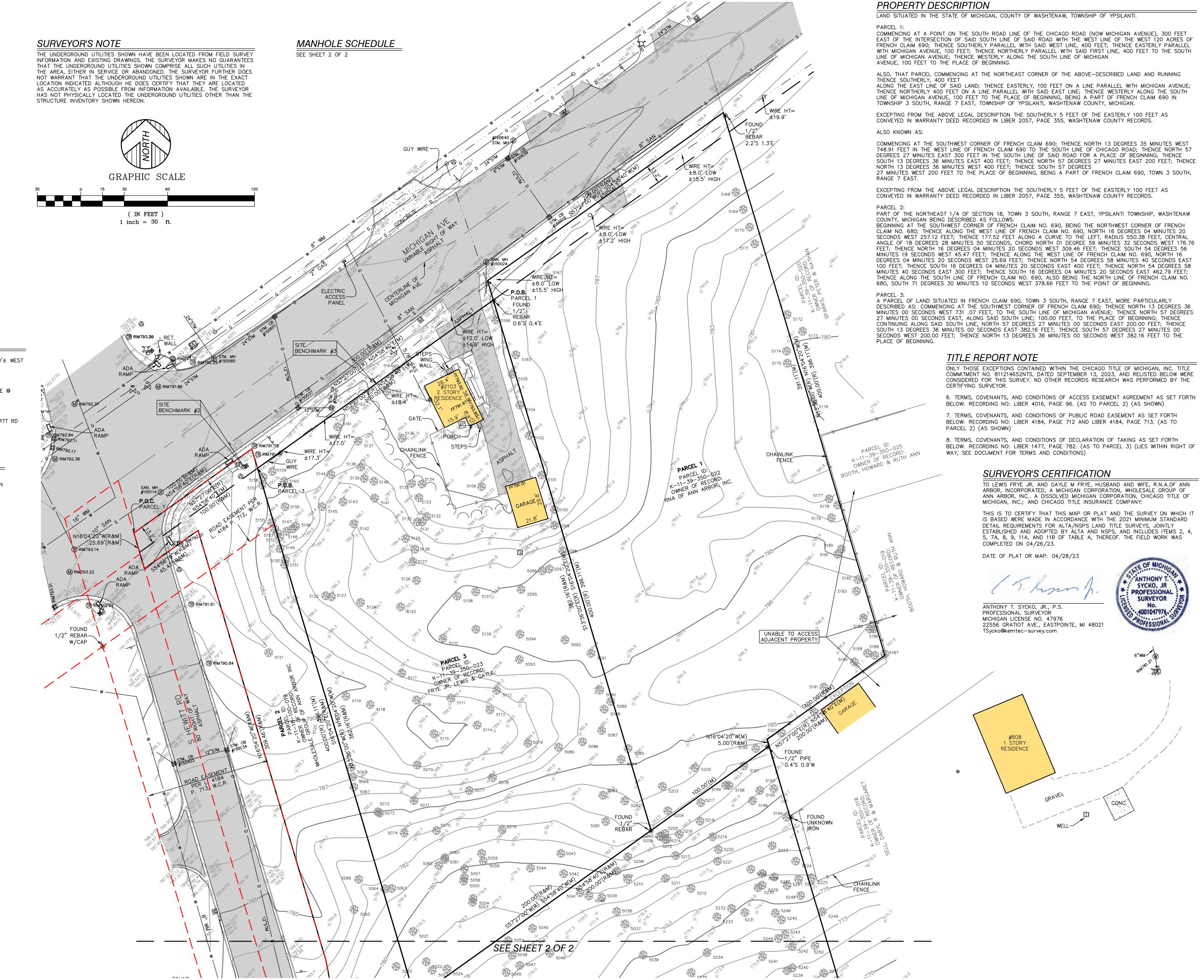
SITE BENCHMARK #3

MAG NAIL IN SOUTHEAST FACE OF UTILITY POLE 125'± EAST OF HEWITT RD 30'± SOUTH OF MICHIGAN AVE ELEVATION = 791.01' (NAVD 88)

LEGEND

FOUND MONUMENT (AS NOTED) (R&M) RECORD AND MEASURED DIMENSION RECORD DIMENSION MEASURED DIMENSION GROUND ELEVATION TRANSFORMER UTILITY POLE GAS METER GAS VALVE CABLE TV BOX CABLE TV RISER TRAFFIC SIGNAL TRAFFIC SIGNAL MANHOLE TRAFFIC SIGNAL CONTROL BOX SANITARY MANHOLE ROUND CATCH BASIN SQUARE CATCH BASIN STORM DRAIN MANHOLE FIRE HYDRANT WATER GATE MANHOLE WATER VALVE WETLAND FLAG MONITOR WELL UNKNOWN MANHOLE AIR CONDITIONING UNIT FENCE POST LIGHTPOST/LAMP POST MAIL BOX SINGLE POST SIGN DECIDUOUS TREE (AS NOTED) PARCEL BOUNDARY LINE ADJOINER PARCEL LINE — — EASEMENT (AS NOTED) RIGHT-OF-WAY BUILDING CONCRETE CURB ---- RAISED CONCRETE - EDGE OF CONCRETE (CONC.) EDGE OF ASPHALT (ASPH.) ---- EDGE OF GRAVEL TENCE (AS NOTED) - WALL (AS NOTED) TREE / BRUSH LINE (AS NOTED) · --- OVERHEAD UTILITY LINE SANITARY LINE STORM LINE ----- W ----- WATER LINE — — WETLAND LIMITS = = = = = = UNDERGROUND PIPE (AS NOTED) MINOR CONTOUR LINE MAJOR CONTOUR LINE BUILDING AREA **ASPHALT**

CONCRETE



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TONEFIELD ENGINEERING AND DESIGN 2103 MICHIGAN: 755 HEWITT PSILANTI, MICHIGAN, TOF SECTION 17 & 18,

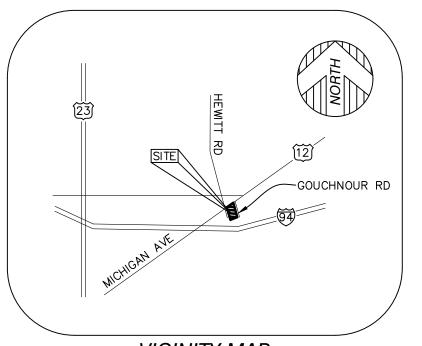
 1/28/23
 3
 03/28/24
 MRJ
 PER REVIEW COMMENTS

 2
 12/08/23
 ATS
 ADD ROAD CENETRLINE

 1
 9/29/23
 JDM
 PER REVISED TITLE WORK

 1" = 30"
 BY
 DESCRIPTION

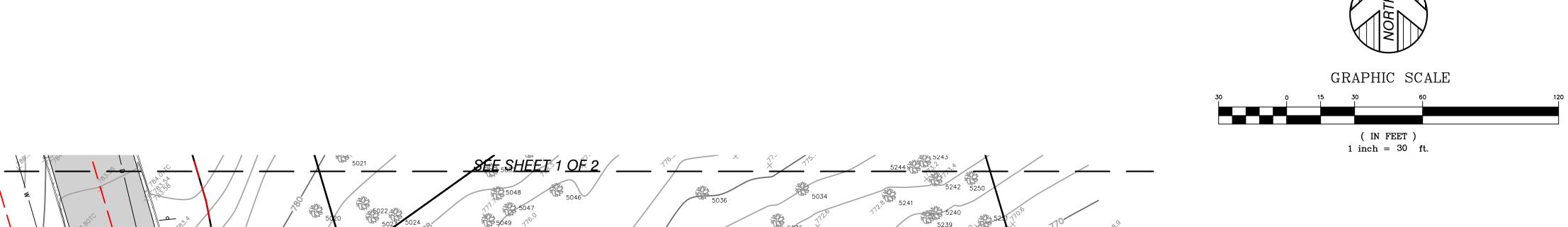
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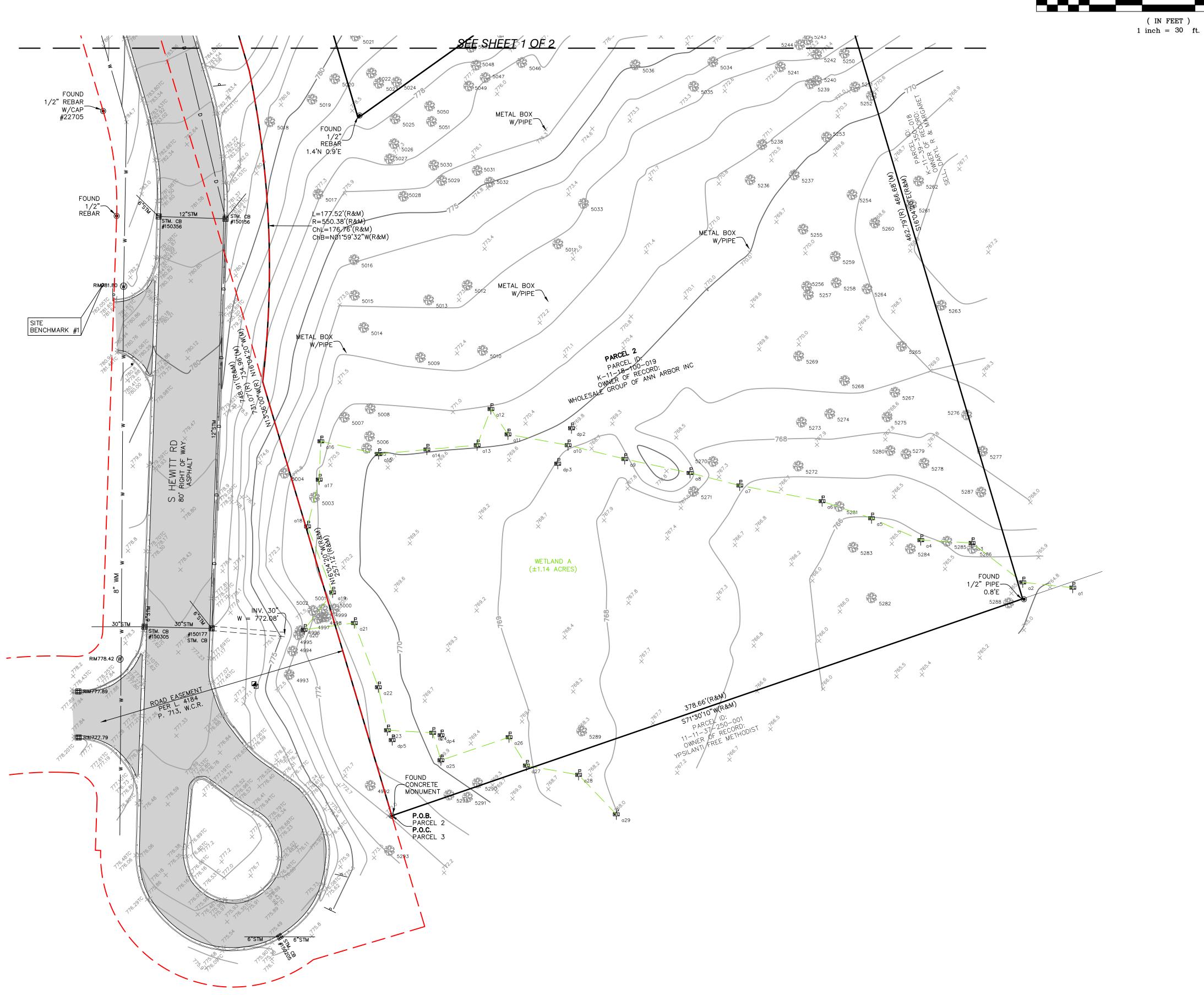


VICINITY MAP
(NOT TO SCALE)

NUM	TYPE	RIM (FT)	SIZE (IN)	DIR INV	ELEV (FT)
70010	BEEHIVE CATCH BASIN	789.12	12	W	787.99
			FULL OF DE	EBRIS	
.50019	CATCH BASIN	790.06	12	NW	784.63
			FULL OF D	DIRT	
50024	SANITARY MANHOLE	790.50	8	SW	778.32
			8	NE	778.38
			6	S	781.85
50037	CATCH BASIN	791.11	12	N	787.67
			12	E	787.81
			B/STRUCT	URE	787.51
50114	SANITARY MANHOLE	792.17	10	SW	780.99
			8	NE	780.29
50134	CATCH BASIN	788.06	12	W	782.43
			12	S	782.24
			6	NE	784.22
			B/STRUCT	URE	779.81
50156	CATCH BASIN	781.26	12	W	774.63
			12	N	775.52
			12	S	773.64
			6	NE	777.12
		В	/STRUCTUR	ιE	771.68
50177	CATCH BASIN	777.42	12	N	773.00
.30177			30	W	771.69
			6	NW	771.92
			30		OFFSET
			B/STRUCT		769.64
50205	CATCH BASIN	775.35	6	W	772.46
0200	CATT DATE	,,5.55	6	E	772.47
			B/STRUCT		771.25
50304	CATCH BASIN	777.55	30	W	772.30
J0J0+	CATCH BASIN	,,,,,,,,	30	E	771.90
			6	N	773.79
			B/STRUCT		771.46
50356	CATCH BASIN	781.28	12	E	774.76
30330	CATCH BASIN	701.20	6	NW	774.70
			B/STRUCT		774.28
EUNUS	CATCH BASIN	788.10	12	E	774.28 782.61
150403	CATCH BASIN	700.10	6	NW	784.20
			B/STRUCT		
	CTODA A AANUOLE	701 40	-		780.55
150585	STORM MANHOLE	791.40	24	NE SM	787.22
			24	SW	787.47
F0600	CATCH DAGIN	704.42	24	NW	787.96
150600	CATCH BASIN	791.13	24	SW	787.13
			12	SE	786.93
F0C20	CATCH DACIN	700.00	24	NE	787.12
.50639	CATCH BASIN	789.98	12	SE	785.35
			12	NE	784.58
			6 D/STDUCT	SW	785.95
F0015	CATOLLEAST	700 75	B/STRUCT		783.00
50640	CATCH BASIN	790.70	12	SW	785.92
			24	SW	783.85

24 NE 783.44 B/STRUCTURE 783.52





PREPARED FOR: STONEFIELD ENGINEERING AND DESIGN

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2509 & 2103 Michigan; 755 Hewitt

PPSILANTI, Michigan,

PART OF SECTION 17 & 18,

TOWN 3 SOUTH, RANGE 7 EAST

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2 SHEETS

2 OF 2 SHE