

### Planning Commission Regular Meeting April 19, 2022 7:00 p.m.

The meeting will take place in-person. To better provide for social distancing during this public meeting, the location of the Planning Commission meeting has been moved to the Lincoln Reception Center, 2300 S. Lincoln Road, Mt. Pleasant, MI 48858, which is located behind the Lux Funeral Home. Enter at the Lux Funeral Home driveway and follow the directional signs around to the Lincoln Reception Center entrance and parking area on the south side of the building.

In the interest of creating the safest possible environment, all attendees are invited and encouraged to wear masks while in the building. Extra masks will be available for those that may need one.

- 1. CALL MEETING TO ORDER
- 2. PLEDGE OF ALLEGIANCE
- 3. ROLL CALL
- 4. APPROVAL OF AGENDA
- 5. APPROVAL OF MINUTES
  - -March 15, 2022
- 6. CORRESPONDENCE / BOARD REPORTS / PRESENTATIONS
  - A. Thering updates from Board of Trustees
  - B. Buckley updates from ZBA
  - C. Updates from Sidewalk and Pathways
- 7. PUBLIC COMMENT: Restricted to (3) minutes regarding items not on this agenda
- 8. NEW BUSINESS
  - A. PREZ21-03 Planned Unit Development (PUD) Area Plan/Rezoning Application Prestige Center Assisted Living Facility Expansion
    - a. Introduction
    - b. Public hearing
    - c. Updates from staff and the applicant

d. Commission deliberation and action (recommend approval, denial or approval with conditions to the Board of Trustees, or postpone action)

### B. PSPR22-04 Krist Oil Filling Station – Final Site Plan Application

- a. Introduction by staff
- b. Updates from the applicant
- c. Commission deliberation and action (approval, denial, approval with conditions, or postpone action)

### 9. OTHER BUSINESS

- A. Parks and Recreation Master Plan Update
  - a. Updates by staff
- **B.** Lincoln Reception Center Discussion
- 10. EXTENDED PUBLIC COMMENT: Restricted to 5 minutes regarding any issue
- 11. FINAL BOARD COMMENT
- 12. ADJOURNMENT

### CHARTER TOWNSHIP OF UNION

# Planning Commission Regular Meeting Minutes

A regular meeting of the Charter Township of Union Planning Commission was held on March 15, 2022, at 7:00 p.m. at the Lincoln Reception Center, 2300 S. Lincoln Road.

Meeting was called to order at 7:00 p.m.

### **Roll Call**

Present:

Albrecht, Buckley, LaBelle, Lapp, Shingles, Squattrito, Thering and Williams

Excused:

Gross

### **Others Present**

Rodney Nanney, Community and Economic Development Director; Peter Gallinat, Zoning Administrator; Tera Green, Administrative Assistant

### **Approval of Agenda**

**LaBelle** moved **Lapp** supported to approve the agenda as presented. **Vote: Ayes: 8. Nays: 0. Motion Carried** 

### **Approval of Minutes**

**Shingles** moved **Buckley** supported to approve the regular meeting minutes from February 15, 2022 as presented. **Vote: Ayes: 8. Nays: 0. Motion carried.** 

### Correspondence / Reports / Presentations

- A. Board of Trustees updates by Thering Gave updates on the Board of Trustee March 9<sup>th</sup> meeting.
- B. ZBA updates by Buckley No updates given.
- C. Sidewalks and Pathway Prioritization Committee Mr. Nanney indicated that their scheduled meeting in February was canceled due to inclement weather.

### **Public Comment**

Open 7:09 p.m.

Ben Gunning, 2270 E. Broomfield Rd, welcomed the newly elected commissioners; commented on the Lincoln Broomfield Rd. improvements; commented on zoning on Broomfield Rd. Closed 7:15 p.m.

### **New Business**

**Lapp** moved **Buckley** supported to add Vice Secretary to item 8 A under New Business. **Vote: Ayes: 8. Nays: 0. Motion carried.** 

### A. Annual meeting for election of officers and representatives to other boards

### a. Chair

**Buckley** moved **Thering** supported to appoint Commissioner Squattrito as Chair per the Planning Commission bylaws. **Vote: Ayes: 8. Nays: 0. Motion carried.** 

### b. Vice Chair

**Shingles** moved **Thering** supported to appoint Commissioner Buckley as Vice Chair per the Planning Commission bylaws. **Vote: Ayes: 8. Nays: 0. Motion carried.** 

### c. Secretary

**Buckley** moved **Shingles** supported to appoint Commissioner LaBelle as Secretary per the Planning Commission bylaws. **Vote: Ayes: 8. Nays: 0. Motion carried.** 

### d. Vice Secretary

**Buckley** moved **Lapp** supported to appoint Commissioner Albrecht as Vice Secretary per the Planning Commission bylaws. **Vote: Ayes: 8. Nays: 0. Motion carried.** 

### e. ZBA Representative

**Thering** moved **LaBelle** supported to reappoint Commissioner Buckley as the Planning Commission Liaison to the ZBA. **Vote: Ayes: 8. Nays: 0. Motion carried.** 

### f. Sidewalk and Pathways Prioritization Committee representative

**Buckley** moved **Thering** supported to appoint Commissioner Shingles as the Planning Commission Liaison to the Sidewalk and Pathways Prioritization Committee representative. **Vote: Ayes: 8. Nays: 0. Motion carried.** 

# B. <u>PSUP22-02 Special Use Permit Application – Proposed Self-Storage Facility in the B4</u> District, 5252 S. Mission Rd. (Darwin Blanshan)

- **a.** Introduction by staff
- **b.** Presentation by the applicant
- c. Public Hearing
- **d.** Commission deliberation and action (approval, denial, approval with conditions, postpone action)

Nanney gave an introduction on the PSUP22-02 Special Use Permit application for a Self-Storage Facility located at 5252 S. Mission Road and confirmed that it is still a lawful special use in the B-4 Zoning District. Tim Beebe from CMS&D gave an overview of the project and the property surroundings.

### **Public Hearing**

Open: 7:37 p.m.

Ben Gunning, 2270 E. Broomfield Rd., expressed his dissatisfaction with the introduction of the

project.

Closed: 7:40 p.m.

Deliberation by the Commissioners. The applicant Darwin Blanshan and Tim Beebe from CMS&D were available for questions. The Chair read each of the Zoning Ordinance standards that apply to the Special Use Permit.

**LaBelle** moved **Thering** supported to approve the PSUP22-02 special use permit application for a self-storage facility at 5252 South Mission Road in the northeast quarter of Section 34 and in the B-4 (General Business) zoning district, finding that it fully complies with Section 14.3.J. (Standards for Special Use Approval). **Vote: Ayes: 8. Nays: 0. Motion carried.** 

# C. <u>PSPR22-03 Preliminary Site Plan Application – Proposed Self Storage Facility in the B4</u> <u>District 5252 S. Mission Rd. (Darwin Blanshan)</u>

- **a.** Introduction by Staff
- **b.** Updates from staff and applicant
- **c.** Commission review of the preliminary site plan
- **d.** Commission deliberation and action (approval, denial, approval with conditions, postpone action)

Nanney introduced the Preliminary Site Plan for the PSPR22-03 Preliminary Site Plan for the Proposed Self Storage Facility in the B4 District 52525 S. Mission Rd.

Deliberation by the Commissioners. The applicant Darwin Blanshan and Tim Beebe from CMS&D were available for questions.

**Buckley** moved **Lapp** supported to approve the PSPR22-03 preliminary plan for a proposed self-storage facility at 5252 South Mission Road in the northeast quarter of Section 34 and in the B-4 (General Business) District, finding that the site plan dated February 16, 2022 fully complies with applicable Zoning Ordinance requirements for preliminary site plan approval, including Sections 14.2.P. (Required Site Plan information) and 14.2.S. (Standards for Site Plan Approval). **Vote: Ayes: 8. Nays: 0. Motion carried.** 

# D. <u>PSUP22-01 Special Use Permit Application Proposed Agri-Tourism/Farm Market, 5297 S. Whiteville Rd. (Michael & Jamie Klumpp)</u>

- a. Introduction by Staff
- **b.** Presentation by the applicant
- c. Questions from the Commissioners
- **d.** Commission deliberation and action (set a public hearing date or postpone action)

Nanney introduced the PSUP2-01 Special Use Permit application for a proposed Agri-Tourism/Farm Market at 5297 S. Whiteville Rd., explaining that a number of items of required information are missing from the application. Tim Beebe from CMS&D gave information regarding the project and indicated the applicants' intention to prepare and submit updated applications. Deliberation by the Commissioners.

**LaBelle moved Albrecht** supported to postpone action on the PSUP22-01 special use permit application for the proposed Heirloom Grove Agri-Tourism business located at 5297 South Whiteville Road with a request for submittal of an updated special use permit and associated preliminary site plan for further review, for the following reasons:

- 1. As presented, the special use permit application is incomplete and not ready for a public hearing or final Planning Commission action.
- 2. Key information required in Section 6.51 (Agri-Tourism) of the Zoning Ordinance is missing from the application.

Vote: Ayes: 8. Nays: 0. Motion carried.

### **Other Business**

- A. PREZ21-03 Planned Unit Development (PUD) Area Plan/Rezoning Application Prestige Center Assisted Living Facility Expansion
  - a. Updates from staff and the applicant
  - b. Request to Postpone Action

Nanney gave an update on the PREZ21-03 Planned Unit Development (PUD) Area Plan/Rezoning Application for the Prestige Center Assisted Living Facility Expansion. The project was brought before the Planning Commission in January and was postponed until the March 15<sup>th</sup> meeting. The project is still being updated. It is recommended that the Planning Commission postpone action until the April meeting.

Deliberation by the Commissioners. The applicant was available for questions.

**Buckley** moved **Williams** supported to postpone action on the PREZ21-03 request to rezone parcels 14-013-20-043-02 & -043-08 at 5785 E. Broadway Road from the B-4 (General Business) District to PUD (Planned Unit Development) until the municipal sewer system capacity concerns for the phase 2 project, as identified in the Public Services Director's March 2, 2022 letter, can be satisfactorily resolved by the applicant in a manner consistent with the Township's established Design Requirements and Specifications. **Vote: Ayes: 8. Nays: 0. Motion carried.** 

### B. Parks and Recreation Master Plan Update

- a. Updates by staff
- b. Commission review of the revised draft survey questions

Nanney updated the Commissioners on the revised Parks and Recreational Survey. It was the consensus of the Commissioners to move forward with the Parks and Recreation Survey as presented.

C.	Reminder of the upcoming Joint Meeting of all Township Boards and Commission -
	Wednesday, April 6, 2022

Chair Squattrito encouraged the Commissioners to attend the Annual Joint Meeting of all the Boards on Wednesday April 6<sup>th</sup> at 7:00 p.m. at the Commission on Aging.

### **Extended Public Comments**

Open – 9:32 p.m. No comments were offered. Closed – 9:32 p.m.

### **Final Board Comment**

Commissioner Buckley – Commented on the Township's ability to initiate a rezoning action.

**Adjournment** – Chairman Squattrito adjourned the meeting at 9:33 p.m.

APPROVED BY:	
	Doug LaBelle – Secretary
(Recorded by Tera Green)	Tera Albrecht – Vice Secretary



# **Board Expiration Dates**

Planning Commission Board Members (9 Members) 3 year term					
#	F Name	L Name	Expiration Date		
1-BOT Representative	James	Thering	11/20/2024		
2-Chair	Phil	Squattrito	2/15/2023		
3-Vice Chair	Ryan	Buckley	2/15/2025		
4-Secretary	Doug	LaBelle II	2/15/2025		
5 - Vice Secretary	Tera	Albrecht	2/15/2024		
6	Stan	Shingles	2/15/2024		
7	Paul	Gross	2/15/2025		
8	Jack	Williams	2/15/2023		
9	Jessica	Lapp	2/15/2023		
Zoning Boar	d of Appeals Members (	5 Members, 2 Alternates)	3 year term		
#	F Name	L Name	Expiration Date		
1- PC Rep	Ryan	Buckley	2/15/2022		
2 - Chair	Andy	Theisen	12/31/2022		
3 - Vice Chair	Liz	Presnell	12/31/2022		
4 - Secretary	vacar	nt seat	12/31/2022		
5 -	Brandon	LaBelle	12/31/2022		
Alt. #1	vacant seat		12/31/2022		
Alt. #2	vacar	2/15/2021			
Board of Review (3 Members) 2 year term					
#	F Name	L Name	Expiration Date		
1	Doug	LaBelle II	12/31/2022		
2	Sarvjit	Chowdhary	12/31/2022		
3	Bryan	Neyer	12/31/2022		
Alt #1	Randy	Golden	12/31/2022		
Co	nstruction Board of Appe	als (3 Members) 2 year te	rm		
#	F Name	L Name	Expiration Date		
1	Colin	Herren	12/31/2023		
2	Joseph	Schafer	12/31/2023		
3	Andy	Theisen	12/31/2023		
Hannah's Bark Park Advisory Board (2 Members from Township) 2 year term					
1	Mark	Stuhldreher	12/31/2022		
2	John	Dinse	12/31/2023		
	Chippewa River District I	ibrary Board 4 year term			
1	Ruth	Helwig	12/31/2023		
2	Lynn	Laskowsky	12/31/2025		



# **Board Expiration Dates**

EDA Board Members (9 Members) 4 year term							
#	F Name	L Name	Expiration Date				
1-BOT Representative	Bryan	Mielke	11/20/2024				
2	Thomas	Thomas Kequom					
3	James	Zalud	4/14/2023				
4	Richard	Barz	2/13/2025				
5	Robert Bacon		1/13/2023				
6	Marty	Figg	6/22/2022				
7	Cheryl	Hunter	6/22/2023				
8	Jeff	Sweet	2/13/2025				
9	David	Coyne	3/26/2026				
	Mid Michigan Area Cable Consortium (2 Members)						
#	F Name	L Name	Expiration Date				
1	Kim	Smith	12/31/2022				
2	vacan						
Cultural and Recreational Commission (1 seat from Township) 3 year term							
#	F Name	L Name	Expiration Date				
1	Robert	Sommerville	12/31/2022				
Sidewalks and Pathways Prioritization Committee (2 year term -PC Appointments)							
#	F Name	L Name	Expiration Date				
1 - BOT Representative	Kimberly	Rice	11/20/2024				
2 - PC Representative	Stan	Shingles	8/15/2022				
3 - Township Resident	Jeff	Siler	8/15/2023				
4 - Township Resident	Jeremy	MacDonald	10/17/2022				
5 - Member at large	Phil	Hertzler	8/15/2023				
Mid Michigan /	Aquatic Recreational Auth	ority (2 seat from Townsh	ip) 3 year term				
#	F Name	L Name	<b>Expiration Date</b>				
1-City of Mt. Pleasant	John	Zang	12/31/2023				
2-City of Mt. Pleasant	Judith	Wagley	12/31/2022				
1-Union Township	Stan	Shingles	12/31/2023				
2-Union Township	Allison	Chiodini	12/31/2022				
1-Mt. Pleasant Schools	Lisa	Diaz	12/31/2022				

## **Charter Township of Union**

### **APPLICATION FOR REZONING APPROVAL**

	on will contain all information required per Section 14.5 (Amendments); including:	Response to Rezoning Criteria (Section 14.5.G.)  Vicinity Map and Survey/Drawing (Section 14.5.F.		
Name of Proposed Dev	elopment/Project	Prestige Centre		
	f Property & Address (if issued)			
·	Mt. Pleasant,			
Applicant's Name(s)	MCAP Mt. Pleasant Propco, L	LC, a Delaware limited liability company		
Phone/Fax numbers	434.963.4917	Email kwillis@mcapfunds.com		
Address	534 E. Main Street, Suite B	City: Charlottesville, VA Zip: 22902		
Legal Description:	Attached	Tax Parcel ID Number(s): 14-013-20-043-02		
Existing Zoning: B-4	Land Acreage: 7.227 ac. Existing Use(	s): Dependent Living (for Seniors)		
✓ ATTACHED: Letter de	escribing the proposed land uses and reasons fo	or the requested zoning change.		
Firm(s) or	1 Name: GMB	Phone:616.963.4917 Email andym@gmb.com		
Individuals(s) who	1. Name: GMB 2. Address: 648 M	Monroe Avenue NW. Suite 500		
prepared the Land	City: Grand Rapids	State: MI Zip: 49508		
Survey/Drawing	Contact Person: And			
Legal Owner(s) of	1. Name: MCAP Mt. Pleasant	Propco, LLC Phone: 434.963.4917		
Property.		E. Main Street, Suite B		
All persons having	City: Charlottesville	State:VAZip:22902		
egal interest in the				
property must sign	Signature:	Interest in Property:Owner		
this application.	2. Name:	Phone:		
Attach a separate	Address:			
sheet if more space	City:	State:MlZip:		
is needed.	Signature:	Interest in Property:owner/lessee/other		
true and accurate to the all the owners of the p	ne best of my knowledge and that I am aut roperty. False or inaccurate information m g change shall not constitute the right to vi	ns, exhibits submitted on or with this application are thorized to file this application and act on behalf of ay be cause for rejection of the application. Approval iolate any provisions of the Zoning Ordinance or other		
70,		12/10/21		
Sig	nature of Applicant	Date		
	Office Use O	nly		
Application Received B	y:	Fee Paid: \$		
Date Received:		Escrow Deposit Paid: \$		



December 14, 2021

Union Township Planning Commission

### **RE:** MCAP Prestige Centre PUD Application

Thank you for the opportunity to present our project and PUD application.

Attached and below you will find:

- Development team introductions
- Introduction letter
- Application
- Civil drawings indicating legal description, acreage, project scope, topographic survey, sewage and water supply, stormwater, existing zoning and sidewalk locations
- Statement of development experience
- General Schedule
- Resident Unit count

### Development team:

Owner: MCAP Mt. Pleasant Propco, LLC

534 East Main Street, Suite B Charlottesville, VA 22902

Represented by Kevin Willis (434.963.4917) & William Johnson (434.906.2882)

Legal: Woods Rogers PLC

123 East Main Street, 5<sup>th</sup> Floor Charlottesville, VA 22902

Represented by Steven Blaine (434.220.6831)

Architect: GMB

648 Monroe Ave, NW, Suite 500

Grand Rapids, MI 49503

Represented by Andrew McLeod, AIA, LEED AP, EDAC, CDP, CMDCP (616.485.4036)

Civil Engineer: Moore + Bruggink Inc.

2020 Monroe Ave. NW Grand Rapids, MI 49505

Represented by Justin Longstreth, PE, CFM, LEED AP (616.363.9801)

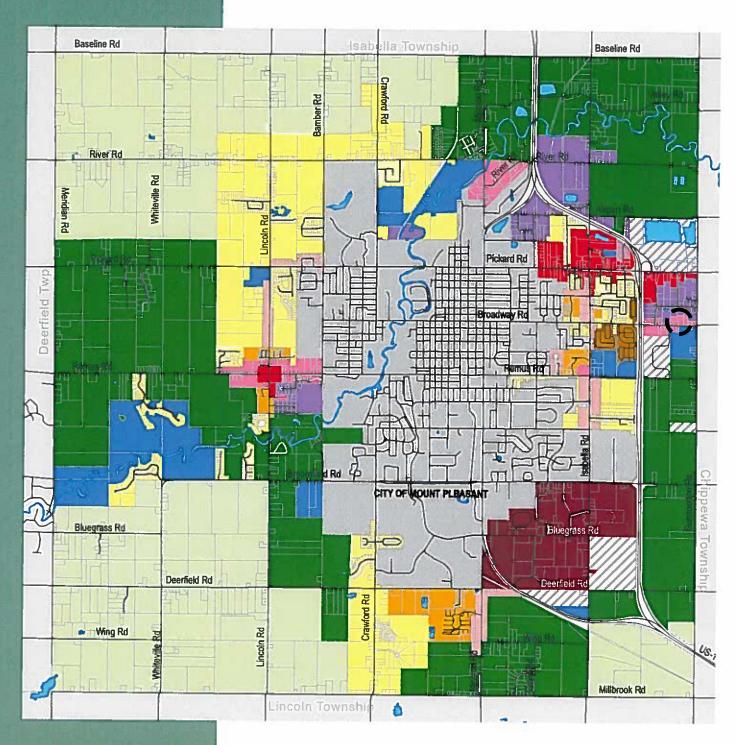
MCAP Mt. Pleasant Propco, LLC December 14, 2021 Page 2



Included with this Application is a map that depicts the relationship of the proposed Planned Unit Development and the Future Land Use Map. The property lies within the Township's Growth Boundary area. As the Union Township Master Plan indicates, preserving the natural beauty and agricultural character of the Township and controlling urban sprawl are important priorities for planning the community. The Township also desires to be able to provide efficient infrastructure services to support development. The Growth Boundary concept in the Master Plan is designed to help implement that goal by encouraging compact, efficient land use, efficient provision of utilities, services and infrastructure, and diverse housing options. [Master Plan, page 11.] The proposed PUD project's location is consistent with those objectives that prioritize new development within the Growth Boundary.

Among the strategic goals of the Master Plan is to maintain a well-organized, balanced and efficient use of land in the Township. The particular strategies include expanding housing choices to support multiple options for a wide range of age groups and family types. According to the Master Plan, the housing needs of seniors is an important part of the commitment to provide appropriate housing choices for all of its residents. [Master Plan, page 26] The proposed improvements enabled by this PUD application, if approved, will expand housing options for seniors.

The Master Plan identifies as an aspirational goal the opportunity for older residents to remain at home as long as possible and especially for residents who want to stay in the neighborhoods they are most familiar with and be near family and friends. However, the Master Plan also recognizes that where "aging in place" is not feasible, special facilities, such as senior independent living, assisted living and congregate care is another important housing option to be provided within the community. [Master Plan, page 27] The proposed project fulfills this need recognized by the Master Plan.





0 0.25 0.5 1 Nites

Sources: MCGI, Union Township. LSL Planning

Read more about Rural Preservation and Rural Buffer in Chapter 2: Growth Management Rural Preservation

Rural Buffer

Community Commercial

Residential

Residential- Attached

Manufactured Housing

Bluegrass Center Area

Rural Buffer

Commercial/Industrial Mix

Industrial/Employment

Recreation/Institutional

Tribal Trust Lands

City of Mount Pleasant

### **Future Land Use Categories**

The future land use categories described throughout the plan are summarized below:

Rural Preservation. Rural Preservation Areas outside of the growth boundary should be maintained at a low intensity rural character of development that will not adversely impact natural features and agricultural uses. Agriculture should be promoted and future rezoning requests for residential should be prohibited to prevent leapfrog development.

Rural Buffer. Rural Buffer areas generally do not have sewer and water, but are appropriate for agricultural, low density residential, and other uses allowed by zoning. Typically this buffer is located on the fringe between rural and more urbanized areas. Rezoning requests for more intensive uses should be limited, especially those requiring extended utility service.

Residential. After agriculture, this category is the township's predominant land use, and is meant to promote single-family homes on a variety of lot sizes. With new development, subdivision design should protect open space and natural features and limit single driveways onto corridors.

Residential – Attached. This land use category covers a variety of attached dwelling units and includes areas planned for both medium- and high-density residential development including duplexes, attached condominiums, townhomes, and flats.

Manufactured Housing. This category is provided primarily for manufactured housing communities, such as those located on Broadway Road between Isabella Road and US-127. This designation is limited to areas along Major Arterial roads served by utilities.

Neighborhood Service. Located primarily along corridors adjoining lower intensity land uses, the intent of this district is to limit future retail and focus on small-scale personal service and office uses. This district accommodates shallow lots, providing a good buffer and transition to residential uses and limiting heavy commercial and general retail uses so they can be focused on other areas of the township. Rear yards adjoining residential areas should be well-screened to limit impacts of higher intensity uses. These areas should be

accessible and comfortable for the pedestrian and should create a sense of place along the roadway.

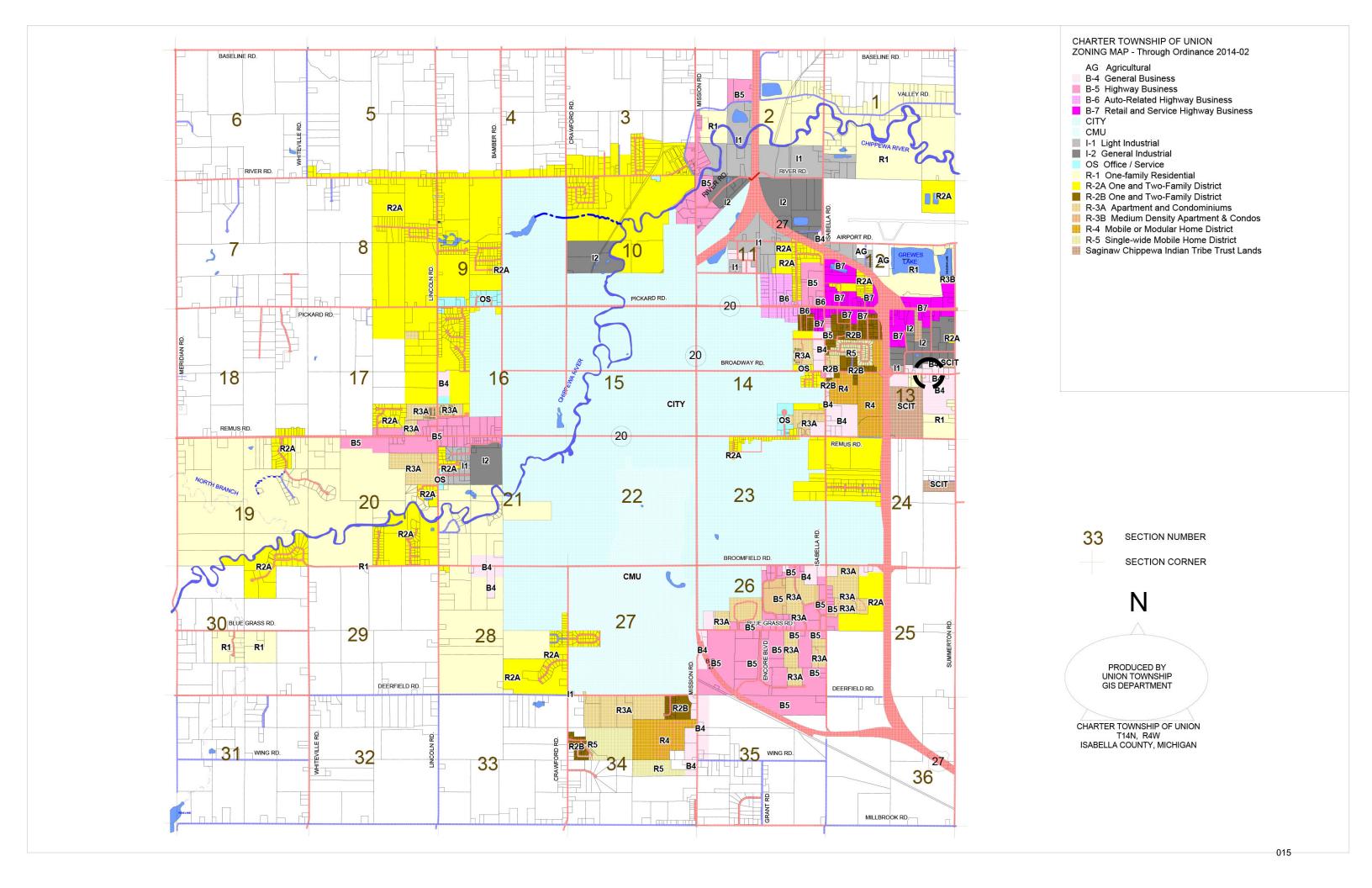
Retail/Service. This district is intended for the widest variety of retail and service businesses. They could range from apparel shops, auto service, and restaurants through small commercial strip centers and office buildings. This district is not intended for heavy commercial/light industrial uses like landscaping or contractor yards, heavy auto repair, or similar uses that may require some form of outside storage. Locations for this district are based on arterial road frontage and the need for high traffic volumes with convenient, well-managed access.

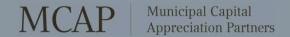
Commercial / Light Industrial. This district is intended for a blend of medium intensity commercial and small-scale light industrial uses. Light industrial uses include but are not limited to small-scale manufacturing, laboratories, R&D (research and development) firms, information technology firms, or other businesses that might be found in a technology park.

Industrial / Employment. This category promotes traditional industrial employment. Located near regional nodes with convenient access to interchanges, this district provides an opportunity to diversify the industrial employment base of the township by reserving areas for research, development, technology, and corporate offices or campuses that will have less of an impact than traditional industrial uses. Uses to complement CMU's Smart Zone would include research, design, engineering, testing, laboratories, diagnostics, and experimental product development. Types of industries may include automotive, electronics, alternative energy technologies, computers, communications, information technology, chemical or biomedical engineering.

Recreation / Institutional. This category is designated primarily for indoor/outdoor recreation both private and publicly owned.

*Tribal Trust Lands*. These areas are under the jurisdiction of the Saginaw Chippewa Indian Tribe.





# MCAP Construction & Development

# Construction & Development



### **Significant Capital Invested for Growth**

- The MCAP Construction & Development ("MCAP C&D") team brings decades of knowledge and experience in planning and overseeing the rehabilitation and expansion of real estate investments. These in-house professionals have served as developers, general contractors, subcontractors, and owners' representatives throughout their respective careers, developing residential, seniors, healthcare, educational, commercial, and industrial real estate.
- In its senior living investments, the MCAP C&D team's efforts have focused on enhanced service offerings, capacity expansion, unit conversions to meet market demand, and modernizing accommodations and amenities. These investments have significantly enhanced the positioning of the properties and reduced our portfolio's average effective age.
- The MCAP C&D team has over 130 years of combined construction and development management experience and has completed \$151.5 million of capital improvements at MCAP properties. A total of 51 development projects were completed through mid-2021, primarily in the Mid-Atlantic region of the United States.

# Construction & Development

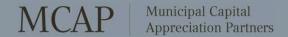
Commonwealth Senior Living at the Eastern Shore - C&D Project













# MCAP's management team has decades of experience in implementing tax-efficient, alternative real estate investment strategies

### Richard G. Corey Managing Partner

Richard G. Corey is Managing Partner of the Manager and the General Partner. Mr. Corey oversees the sourcing of investments, restructuring of investments and implementing exit strategies. Prior to founding the MCAP Funds, Mr. Corey was a director of private equity funds and a private investor. Previously, Mr. Corey was an investment banker in municipal finance for 15 years. He has broad experience in municipal finance and underwriting, including secondary offerings and the structure and sale of derivative securities. Mr. Corey received a JD from the University of Pennsylvania Law School, an MA in Administrative Sciences from Yale University and a BA in Economics from Yale University.

# Richard J. Brewer, Jr. *Partner*

Richard J. Brewer, Jr. is a Partner of the Manager. Mr. Brewer supervises senior housing operations, including acquisitions, operations/management, expansions and re-development projects, financings and dispositions of senior living investments. Previously, he co-founded the predecessor to Commonwealth Senior Living ("CSL"), an affiliate of MCAP, with MCAP in 2002 and subsequently served as CSL's Chief Executive Officer for almost 19 years. Under his leadership, CSL grew to become the largest senior housing operator in Virginia and, with over 2,000 employees, one of the largest operators on the East Coast. Mr. Brewer also supervises financial management, growth of human capital, risk management, regulatory compliance, and programming for our senior living communities. He has deep experience in the design and construction of renovation and expansion projects and the financing and refinancing of properties (HUD, FNMA, Freddie Mac, CMBS and Conventional). Mr. Brewer formerly served as Vice Chair of the Virginia Assisted Living Association and the Jefferson Area Board on Aging and currently serves on the board of CATEC, a vocational training school in Virginia. He received a BA in Political Science from James Madison University.



### Kevin W. Willis Senior Vice President, Construction and Development

Kevin W. Willis is Senior Vice President of Construction & Development for the Manager. Mr. Willis supervises MCAP's construction and development staff, planning and coordination of development and procurement strategies. Prior to joining MCAP in 2019, he served as Senior Vice President of Construction & Development at the predecessor to Commonwealth Senior Living ("CSL"), an affiliate of MCAP. Previously, he was a consultant to CSL on a variety of projects since CSL's founding in 2002. Mr. Willis has over 25 years of experience in the construction industry, with a broad operations and management background, including performing the roles of General Contractor, Subcontractor, and Owner's Representative. Mr. Willis previously served as Chairman of the Board of Directors of the Associated General Contractors of Virginia, and is a former President of the Virginia Construction Industry Educational Foundation. He has also served as a member of the Piedmont Virginia Community College Construction Academy Advisory Board, and as a volunteer with the Building Goodness Foundation. Mr. Willis received an MBA from James Madison University and a BA in Economics from the University of Virginia.

### **Kevin I. Thompson** Senior Vice President

Kevin I. Thompson is Senior Vice President of the Manager. Mr. Thompson is responsible for investment due diligence, asset management and financial modeling of multifamily properties. He joined MCAP in 2010. Mr. Thompson received an MBA from the Columbia University Graduate School of Business, an MMS (Master of Management Studies) from the Duke University Fugua School of Business and a BS in Economics from Duke University.

### Nicholas J. Herbig Vice President

Nicholas J. Herbig is Vice President of the Manager. Mr. Herbig is responsible for investment due diligence efforts in senior living communities and assists in financing and refinancing of portfolio properties and financial modeling of multifamily properties. Prior to joining MCAP in 2014, he was a Mortgage Underwriter at American Internet Mortgage, Inc. Mr. Herbig received an MBA and a BA in Business Administration from Point Loma Nazarene University.



### Joseph A. Irving Senior Director

Joseph A. Irving is Senior Director of the Manager. Mr. Irving is responsible for managing operations of our senior living communities outside of Virginia. He has overseen the management of the Regency at Glen Cove, an MCAP III investment, since 2007. In addition, he has overseen the management of the Saybrook at Haddam, an MCAP IV Holding senior living community investment, since 2009 and had overseen the Landing at Willow Grove, a previously owned MCAP V senior living community investment, from 2014 until 2019. Mr. Irving joined MCAP in 2012. He has over 30 years of experience in senior housing. Previously, Mr. Irving founded Senior Housing Solutions LLC, a management and consulting firm dedicated to developing, managing, and marketing assisted living facilities in 2003. Mr. Irving received a BA in Sociology and Gerontology from St. John Fisher College.

### Charles W. Ix Vice President of Acquisitions

Charles W. Ix is Vice President of Acquisitions for the Manager. Mr. Ix seeks and reviews potential and proposed acquisitions. He has over 22 years of experience in the senior living sector. Prior to joining MCAP in 2021, Mr. Ix was at the predecessor to Commonwealth Senior Living ("CSL"), an affiliate of MCAP. In his 11 years with CSL, Mr. Ix was an integral part of CSL's growth from nine to 34 communities, having served as its Vice President of Sales & Marketing, Vice President of Operations, and President of the Home Care division. He also held various regional positions with CSL. Mr. Ix previously served on the Mountainside Senior Living Board, a nonprofit Assisted Living Community in Crozet, Virginia, of which he was past President and Treasurer. He is also Treasurer on the Commonwealth Cares Board, a nonprofit which assists needy employees of CSL and their families. Mr. Ix received a BS in Business Management from Northeastern University.

### William Johnson Vice President, Construction and Development

William L. Johnson is Vice President of Construction & Development for the Manager. Mr. Johnson produces feasibility studies and develops schematic plans for renovations and expansions and supervises execution of MCAP's development strategy. Prior to joining MCAP in 2019, he served as Vice President of Construction & Development at the predecessor to Commonwealth Senior Living, an affiliate of MCAP. Mr. Johnson has over 38 years of experience in industrial, residential, and commercial construction and has managed single projects with contract values in excess of \$60 million. Mr. Johnson served in the U. S. Coast Guard.



# Andy Sullivan Vice President, Construction

Andy Sullivan is Vice President of Construction for the Manager. Mr. Sullivan supervises the construction management team, from property acquisition or development of expansion plans through design and completion. Prior to joining MCAP in 2019, he served as a Construction Manager at the predecessor to Commonwealth Senior Living, an affiliate of MCAP. Previously, he served as Director of Facilities Services, managing a campus of 1 million square feet, for a large continuing care retirement community with over 400 residents. Mr. Sullivan has over 20 years of experience in construction, with management roles in commercial and residential construction, facilities management and as an Owner's Representative. Mr. Sullivan has been a board member of Foothills Child Advocacy Center in Charlottesville, VA. An Eagle Scout, he is currently an Assistant Scoutmaster of a Troop in Crozet, VA. Mr. Sullivan received a Bachelor of Social Work from James Madison University.

# Justin K. Bingler Construction Manager, Construction

Justin K. Bingler is a Construction Manager for the Manager, managing property re-development projects and expansions. He also assists in planning and design for new acquisitions. Prior to joining MCAP in 2019, he served as a Construction Manager at the predecessor to Commonwealth Senior Living, an affiliate of MCAP. Previously, he was a Project Manager/Estimator for large regional electrical contractors in Pennsylvania and Virginia. With a strong background in electrical design and as well as construction, Mr. Bingler brings a diverse background and expertise to the team.

# Ann M. Nelson Project Coordinator, Construction & Development

Ann M. Nelson is Project Coordinator of Construction & Development for the Manager. Ms. Nelson works alongside the development team, assisting with coordination and communication of project timelines, goals and budgets, as well as contract administration. Prior to joining MCAP in 2019, she served as Project Coordinator of Construction & Development at the predecessor to Commonwealth Senior Living, an affiliate of MCAP. Ms. Nelson has over 20 years of construction experience. Ms. Nelson is active in the National Association of Women in Construction (NAWIC) and works on volunteer projects for both Albemarle Housing Improvement Project (AHIP) and Habitat for Humanity.



### Jay K. Johnson Chief Financial Officer

Jay K. Johnson is Chief Financial Officer of the Manager. Mr. Johnson supervises accounting and financial reporting functions. Prior to joining MCAP in 2003, he was Vice President, Finance for real estate opportunity funds at J.E. Robert Companies. Mr. Johnson was a tax accountant for Arthur Andersen & Co. from 1989 to 1992. He has extensive experience in real estate fund accounting, portfolio performance reporting, cash flow modeling and cash management. Mr. Johnson received an MS in Professional Accounting from the University of Hartford and a BA in Government from Wesleyan University.

# Louis E. Winthal Accounting Manager

Louis E. Winthal is an Accounting Manager of the Manager. Prior to joining MCAP in 2005, Mr. Winthal was a Senior Tax Associate in the real estate tax practice of PricewaterhouseCoopers LLP. Mr. Winthal received a BBA in Public Accounting, Summa Cum Laude from Pace University's Lubin School of Business.

### Mathew Samuel Accounting Manager

Mathew Samuel is an Accounting Manager of the Manager. Prior to joining MCAP in 2008, Mr. Samuel was a Senior Accountant at New York Life where he worked on real estate mezzanine financing. Mr. Samuel received a BA in Accounting and Information Systems from Queens College and is a CPA.

# Hande Tuney Director, Investor Relations

Hande Tuney is Director of Investor Relations of the Manager. Ms. Tuney supervises investor relations and joined MCAP in 2016. Previously, Ms. Tuney served as the Vice President of Investor Relations at Centerline Capital Group, an alternative asset manager focused on real estate funds and financing, and at a REIT, externally managed by Centerline. Prior to joining Centerline, she was an Associate of Investor Relations at AIG and joined AIG through its Prestigious Management Associate Program for college graduates. Ms. Tuney received an MS in Management Systems from New York University and a BBA in Finance from Pace University.



# Alicia C. Bos Executive Assistant

Alicia C. Bos is an Executive Assistant of the Manager. Ms. Bos provides administrative support to the MCAP Funds and its Managing Partner. Prior to joining MCAP in 2016, she was an Executive Assistant at Matrix Advisors, LLC. She also has experience in personal assisting, operations management, educational services, directing social media, and business and philanthropic event planning. Ms. Bos received a BA from Southern Methodist University.

# Jordon Villines Executive Assistant

Jordon Villines is an Executive Assistant of the Manager. Ms. Villines provides office, project and administrative support. Prior to joining MCAP in 2014, she was an Administrative Assistant at Warburg Pincus, LLC. Ms. Villines received a BA in Theatre-Performance and Psychology from Southern Illinois University Edwardsville.



### **Conceptual General Schedule:**

Phase One (Assisted Living Additions and Renovations):

Design & Documentation Phase current through May of 2022
Construction May 2022 through June 2023

Licensing & Occupation July 2023

Phase Two (Independent Living):

Design & Documentation Phase December 2022 through June 2022

Construction July 2023 through 2024

Occupation August 2024

### **Resident Unit Count:**

Assisted Living 76 beds in 64 units

Independent Living 100 units

Please feel free to reach out with any questions.

Sincerely,

**GMB** 

Andrew D. McLeod

AIA, LEED AP, EDAC, CDP, CMDCP

Senior Living Practice Leader

c. MCAP, WoodsRogers, file.

# RE: MCAP Prestige Centre PUD Application

Thank you for the opportunity to present our project and PUD application.

### Attached and below you will find:

Union Township Planning Commission

- Development team introductions
- Introduction letter
- Application Civil drawings indicating legal description, acreage, project scope, topographic survey, sewage
- and water supply, stormwater, existing zoning and sidewalk locations Statement of development experience
- General Schedule
- Resident Unit count

### Development team:

Owner: MCAP Mt. Pleasant Propco, LLC 534 East Main Street, Suite B Charlottesville, VA 22902

> Represented by Kevin Willis (434.963.4917) & William Johnson (434.906.2882) Woods Rogers PLC

123 East Main Street, 5th Floor Charlottesville, VA 22902

Represented by Steven Blaine (434.220.6831) Architect: **GMB** 648 Monroe Ave, NW, Suite 500

Grand Rapids, MI 49503 Represented by Andrew McLeod, AIA, LEED AP, EDAC, CDP, CMDCP (616.485.4036)

Civil Engineer: Moore + Bruggink Inc.

2020 Monroe Ave. NW Grand Rapids, MI 49505

Represented by Justin Longstreth, PE, CFM, LEED AP (616.363.9801)

www.gmb.com

MCAP Mt. Pleasant Propco, LLC March 22, 2022

# **Conceptual General Schedule:**

Phase One (Assisted Living Additions and Renovations): Design & Documentation Phase current through May of 2022 May 2022 through June 2023 Construction July 2023 Licensing & Occupation

# **Resident Unit Count:**

76 beds in 64 units

Please feel free to reach out with any questions.

Andrew D. McLeod AIA, LEED AP, EDAC, CDP, CMDCP

Senior Living Practice Leader

MCAP, WoodsRogers, file.

MCAP Mt. Pleasant Propco, LLC March 22, 2022

The application and Concept Plan are compatible with the goals and policies of the Master Plan and other Township planning documents.

Master Plan Goals and Objectives (Master Plan, page 7)

Goal 1: Preserve and protect key natural and agricultural resources.

- 1.1. Protect significant, sensitive natural amenities such as water bodies, wetlands, mature trees and natural ecosystems.

The property lies within the Township's Growth Boundary area. As the Union Township Master Plan indicates, residents have consistently said that preserving the natural beauty and agricultural character of the Township and controlling urban sprawl are important priorities for planning the community. The Township also desires to be able to provide efficient infrastructure services to support development. The Growth Boundary concept in the Master Plan is designed to help implement that goal by encouraging compact, efficient land use, efficient provision of utilities, services and infrastructure, and diverse housing options. Master Plan, page 11. The proposed PUD project is consistent with those objectives that prioritize new development within the Growth

- 1.2. Coordinate utility expansion in a way that encourages development along existing arterial roadways and on vacant or underutilized sites first.

The proposed project repurposes an existing senior housing project along a corridor that the Future Land Use map designates for future development of this kind. The project does not require the extension of utilities that would be inconsistent with this goal.

- 1.3. Preserve areas suitable for farming and agriculture-related uses.

The proposed PUD project is consistent with those objectives that prioritize new development within the Growth Boundary and thereby helps preserve areas suitable for farming and

Goal 2: Create a safe, balanced and coordinated multi-modal transportation system adequate to accommodate the ongoing growth and (re)development of Union Township.

- 2.1. Connect schools, parks and other public facilities with a system of pathways, bikeways and

Although the project is not located proximate to any schools or similar public facilities, a sidewalk will be provided for future connections to area pathways, bikeways and trails.

- 2.2. Prioritize sidewalks in areas where there are connectivity gaps first.

# APPLICATION FOR REZONING APPROVAL

**Charter Township of Union** 

Response to Rezoning Criteria (Section 14.5.G.) A completed application will contain all information required per the Zoning Ordinance, Section 14.5 (Amendments); including: ✓ Vicinity Map and Survey/Drawing (Section 14.5.F.1.d.)

Name of Proposed Deve	lopment/Project	5785 East Broadway Road		
Common Description of	Property & Address (if issued)			
1	Mt. Pleasant, MI  pplicant's Name(s) MCAP Mt. Pleasant Propco, LLC, a Delaware limited liability company  none/Fax numbers 434.963.4917 Email kwillis@mcapfunds.com			
Applicant's Name(s)	MCAP Mt. Pleasant Prop	co, LLC, a Delaware lim	ited liability company	
Phone/Fax numbers	434.963.4917	Email kwillis@mcapfunds.com		
Address	534 E. Main Street, Suite B	City:	Charlottesville, VA	_ Zip:_22902

Attached Included on Survey Tax Parcel ID Number(s):

Interest in Property:

owner/lessee/other

Existing Zoning: B-	4 Land Acreage:	7.227 ac. Existing Use(s):	Dependent Liv		Seniors)	
✓ ATTACHED: Letter	describing the propos	ed land uses and reasons for the r	equested zoning change.			
Firm(s) or	1. Name:	GMB	Phone:616.963.4917	Email	andym@gmb.com	
Individuals(s) who	2. Address:	2. Address: 648 Monroe Avenue NW, Suite 500				
prepared the Land	City:		State:_	М	Zip:_49508	
Survey/Drawing	•	Andy Mo	Leod	Ph	one 616.796.0200	
Legal Owner(s) of	1. Name:	MCAP Mt. Pleasant Prop	co, LLC Ph	none:	434.963.4917	
Property.	Address:					
All persons having	City:	Charlottesville	State:	VA	Zip: 22902	
legal interest in the property must sign	Signature:	an	Interest in Pr	operty:		
this application.	2. Name:		Pł	none:		
Attach a separate	Address:					
sheet if more space	City:		State:	MI	Zip:	

I do hereby affirm that all the statements, signatures, descriptions, exhibits submitted on or with this application are true and accurate to the best of my knowledge and that I am authorized to file this application and act on behalf of all the owners of the property. False or inaccurate information may be cause for rejection of the application. Approval of any requested zoning change shall not constitute the right to violate any provisions of the Zoning Ordinance or other applicable codes and ordinances.

100 Signature of Applicant

Office Use Only

Application Received By:\_ \_ Fee Paid: \$\_ Date Received: Escrow Deposit Paid: \$\_\_\_\_\_

Revised: 9/14/2020

is needed.

MCAP Mt. Pleasant Propco, LLC March 22, 2022

Please see the response to 2.1 above.

- 2.3. Work with the Road Commission to incorporate non-motorized facilities into road improvement projects

Please see 2.1 above.

Goal 3: Maintain a well-organized, balanced and efficient use of land in the Township.

- 3.1. Re-imagine the Bluegrass Road Subarea as a vibrant destination for community business, social and civic activity.

While this project is not located in the Bluegrass Road Subarea, the proposed senior housing project's amenities should promote social and civic activities for its senior residents.

- 3.2. Continue to encourage quality office and commercial development and redevelopment along corridors.

The quality of this project will be in keeping with the high standards of the applicant's other 50 projects throughout the U.S.

- 3.3. Encourage sensible, sustainable, diverse, high-quality office, commercial and industrial development in designated areas to ensure employment opportunities remain supported by the community's existing and reasonably anticipated future infrastructure.

The proposed PUD project is consistent with those objectives that prioritize new development within the Growth Boundary and thus is consistent with the goal to effectively deploy infrastructure

- 3.4. Encourage a transition between land uses that provides a logical progression towards more intense uses closer to the City.

The project is adjacent to City of Mount Pleasant limits and a logical extension of the commercial and residential growth pattern on of the area.

- 3.5. Expand housing choices to support multiple options for a wide range of age groups and family types.

Senior living facilities like the proposed offer aging residents in the community the option to age at home as long as possible and is especially important to residents who want to stay in the neighborhoods they are most familiar with and be near family and friends. As noted in the Master Plan, retrofitting existing homes to be accessible for seniors desiring to "age in place" could include ramps, wider doorways, and first floor bedrooms and accessible bathrooms. "But where "aging in place" is not feasible, special facilities, such as senior independent living, assisted living and congregate care is another important housing option to be provided within the community.'

MCAP Mt. Pleasant Propco, LLC March 22, 2022

and congregate care is another important housing option to be provided within the community." *The proposed assisted living facility provides this opportunity for residents.* 

### **Basic Principles of Access Management (Master Plan, page 20)** Six basic principles are used to achieve the benefits of access management.

- Limit the number of conflict points,
- Separate conflict points,
- Separate turning volumes from through movements,
- Locate traffic signals to facilitate traffic movement,
- Maintain a hierarchy of roadways by function, and • Limit direct access on higher speed roads
- Source: MDOT US-127 BR/M-20

### **Access Management Recommendations**

While it may not be possible to retrofit certain corridor sections to meet current spacing guidelines for new driveways, the goal is still to minimize the number of driveways as much as possible.

### • Establish future right-of-way needs (widths) for corridors, including:

- » Allow for variations in road location, based on existing development and natural elements which the Township may wish to preserve
- » Accommodate drainage needs and topographical changes
- » Accommodate operational features such as turn lanes at intersections and potential transit
- » Flexibility in road design to allow for bike lanes, sidewalks, buffer strips between the curb and sidewalk, etc.
- Increase minimum lot frontage along corridors.
- · Adjust front yard setback requirements
- Adopt access-related recommendations from the plan as amendments to the Zoning Ordinance.

38 spaces provided

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the spaces provided exceed the required number spaces by eight spaces. This is more than one-fourth of the total number of spaces provided. The applicant maintains that this should be more than adequate for visitor parking. The applicant's actual experience in business throughout its various locations, including 38 assisted living facilities, has demonstrated that the

76 beds = 30 required spaces

Parking formulas for dependent living for seniors (applicant does not propose a nursing home) is shown below and relate to Section 9 F. of the Ordinance. The Ordinance's formula for dependent living for seniors does not make reference to off-street parking for visitors. Nevertheless,

actual parking usage is in most cases less than the prescribed parking requirements.

Dependent living for Seniors:

0.39 spaces per bed

+ Assisted Living (Home for the Aged, Adult Foster Care)

+ Memory Care (Home for the Aged, Adult Foster Care)

+ None expected

PARKING NOTES:

+ Independent Living + Resident Centered Retail and Services

POTENTIAL USES OF SITE INCLUDE:

**DEVIATIONS FROM UNDERLYING ZONING:** 

+ Commercial kitchen / cafe

**PLAN SCALE: 1" = 30** 

now what's below. Call before you dig.

Brug(

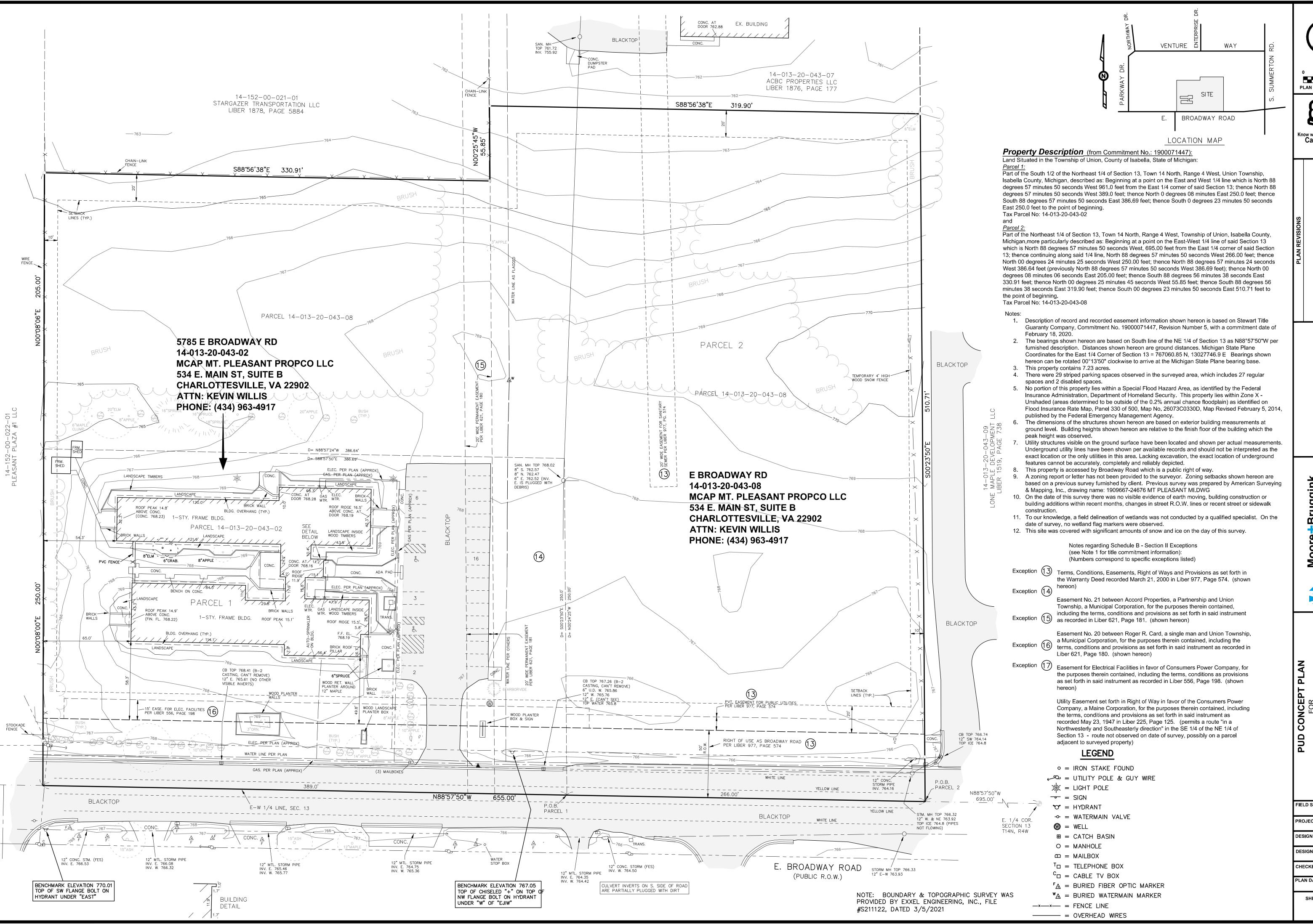
**CONCEPT PLAN** C TIG

FIELD SURVEY / DATE EXCEL-202 PROJECT NO.: **DESIGN DRAWN BY:** 

**DESIGNED BY:** CHECKED BY:

PLAN DATE: 02-03-2

SHEET NUMBER





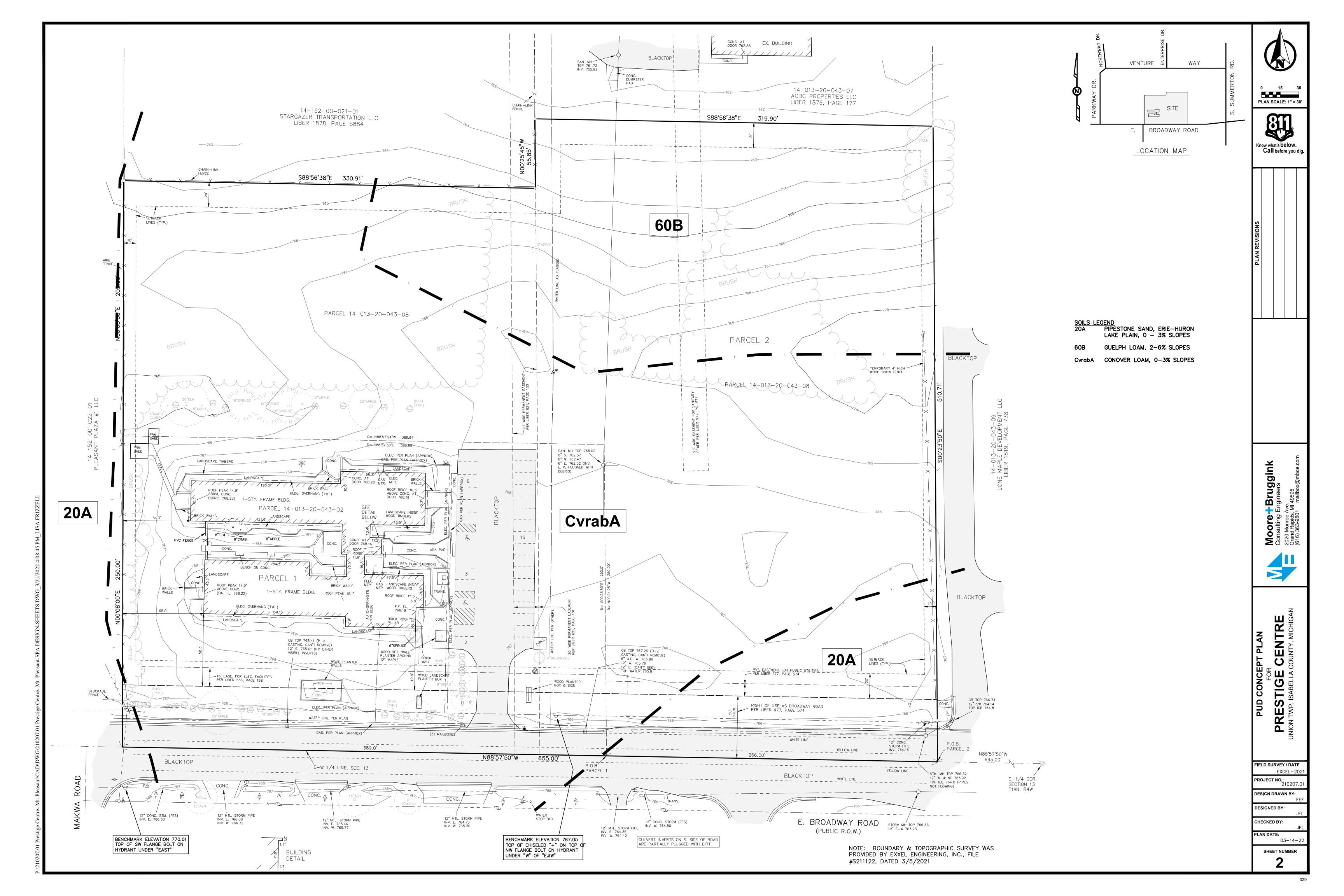
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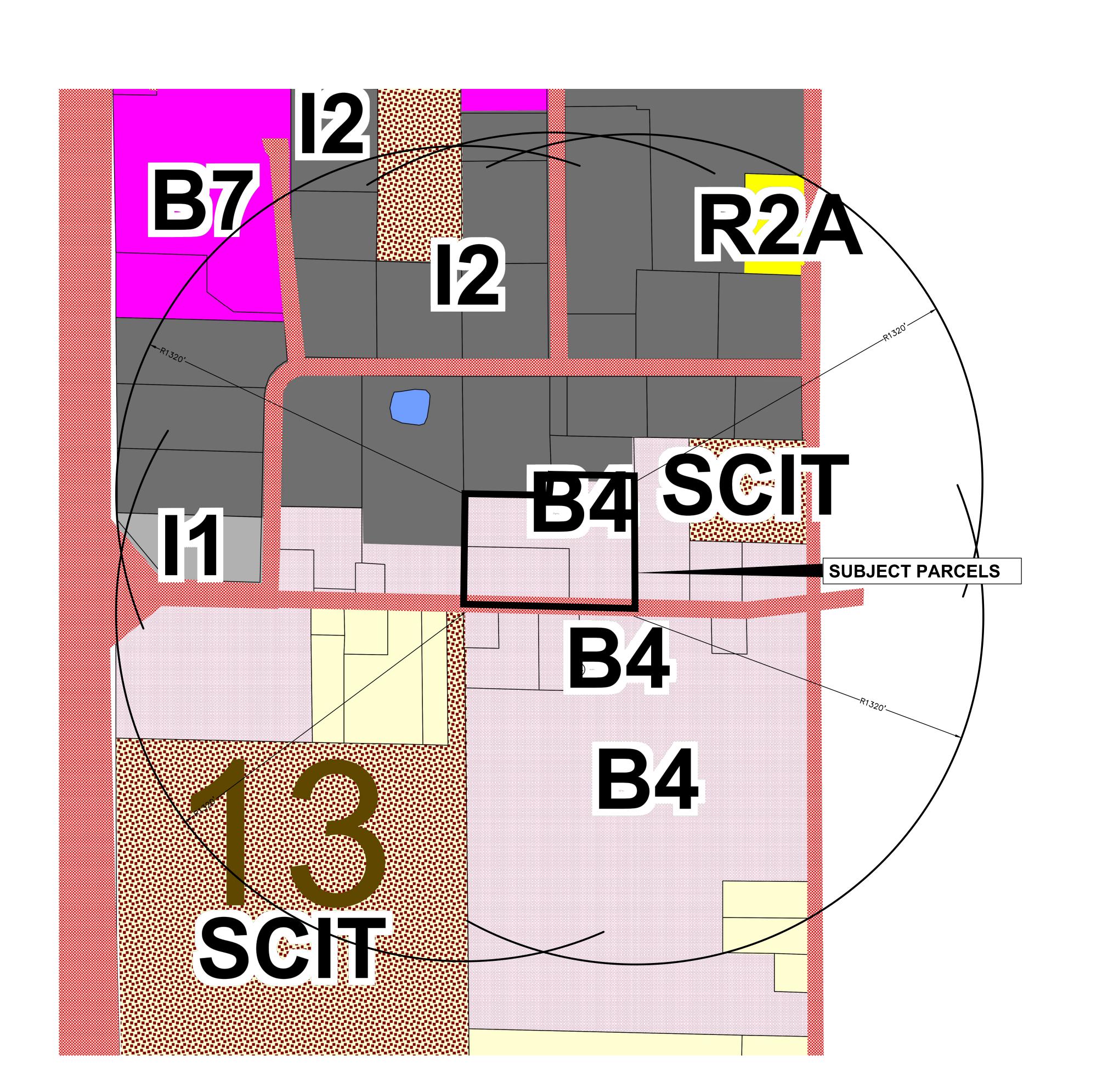
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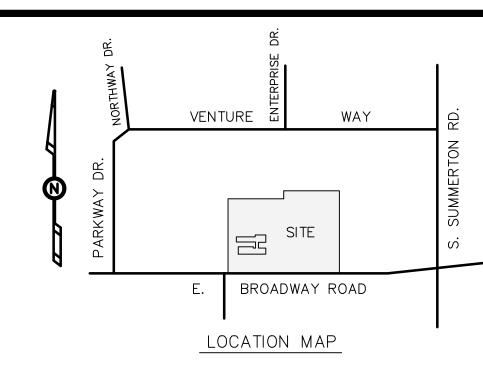
CHECKED BY:

PLAN DATE: 03-14-2

SHEET NUMBER







CHARTER TOWNSHIP OF UNION

R-1 One-family Residential

R-2A One and Two-Family District R-2B One and Two-Family District R-3A Apartment and Condominiums

R-4 Mobile or Modular Home District

R-3B Medium Density Apartment & Condos

R-5 Single-wide Mobile Home District
Saginaw Chippewa Indian Tribe Trust Lands

AG Agricultural

I-1 Light Industrial I-2 General Industrial OS Office / Service

CITY CMU

B-4 General Business

ZONING MAP - Through Ordinance 2014-02

B-5 Highway Business
B-6 Auto-Related Highway Business

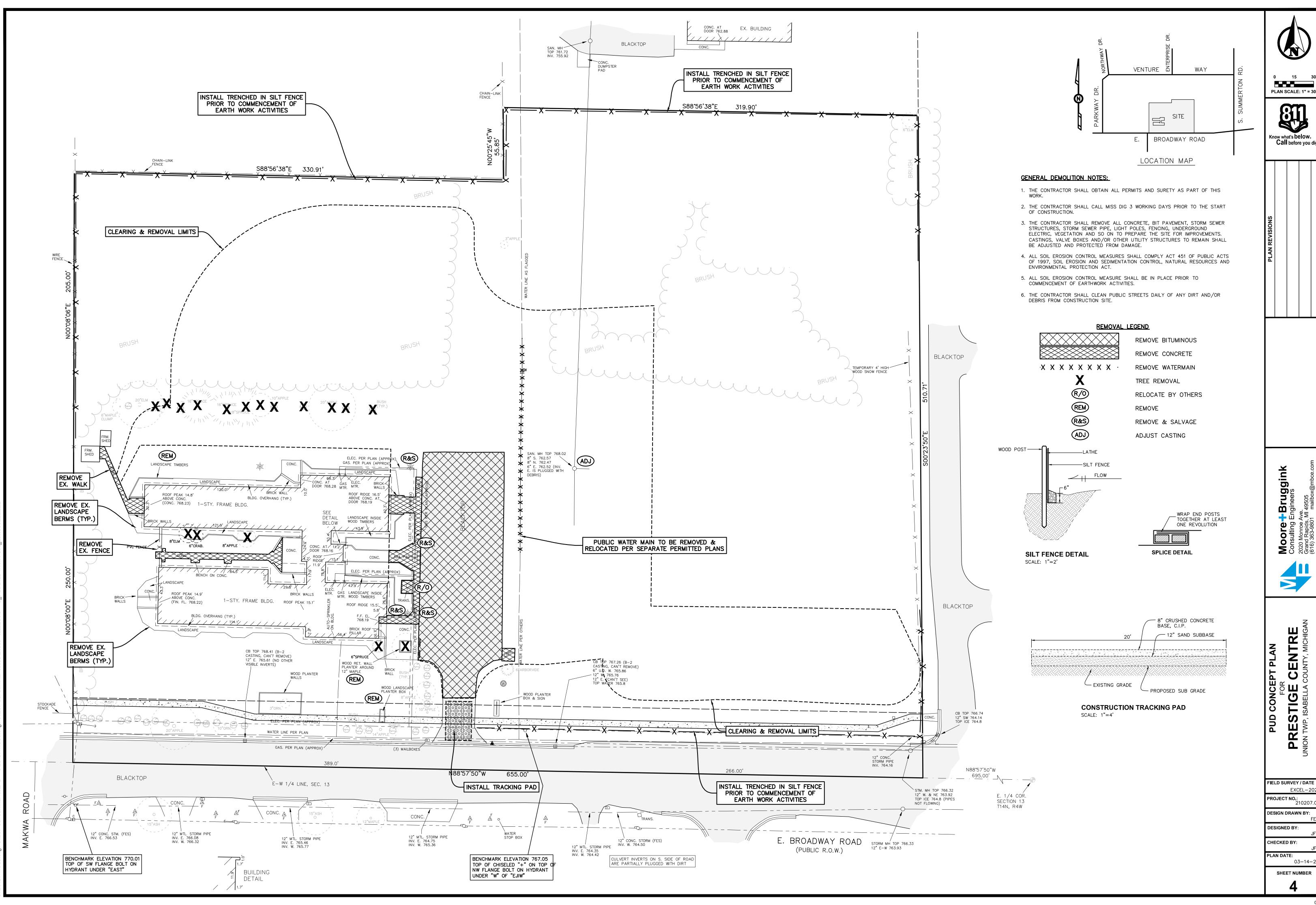
B-7 Retail and Service Highway Business

PLAN SCALE: 1" = 200

(now what's **below. Call** before you dig.

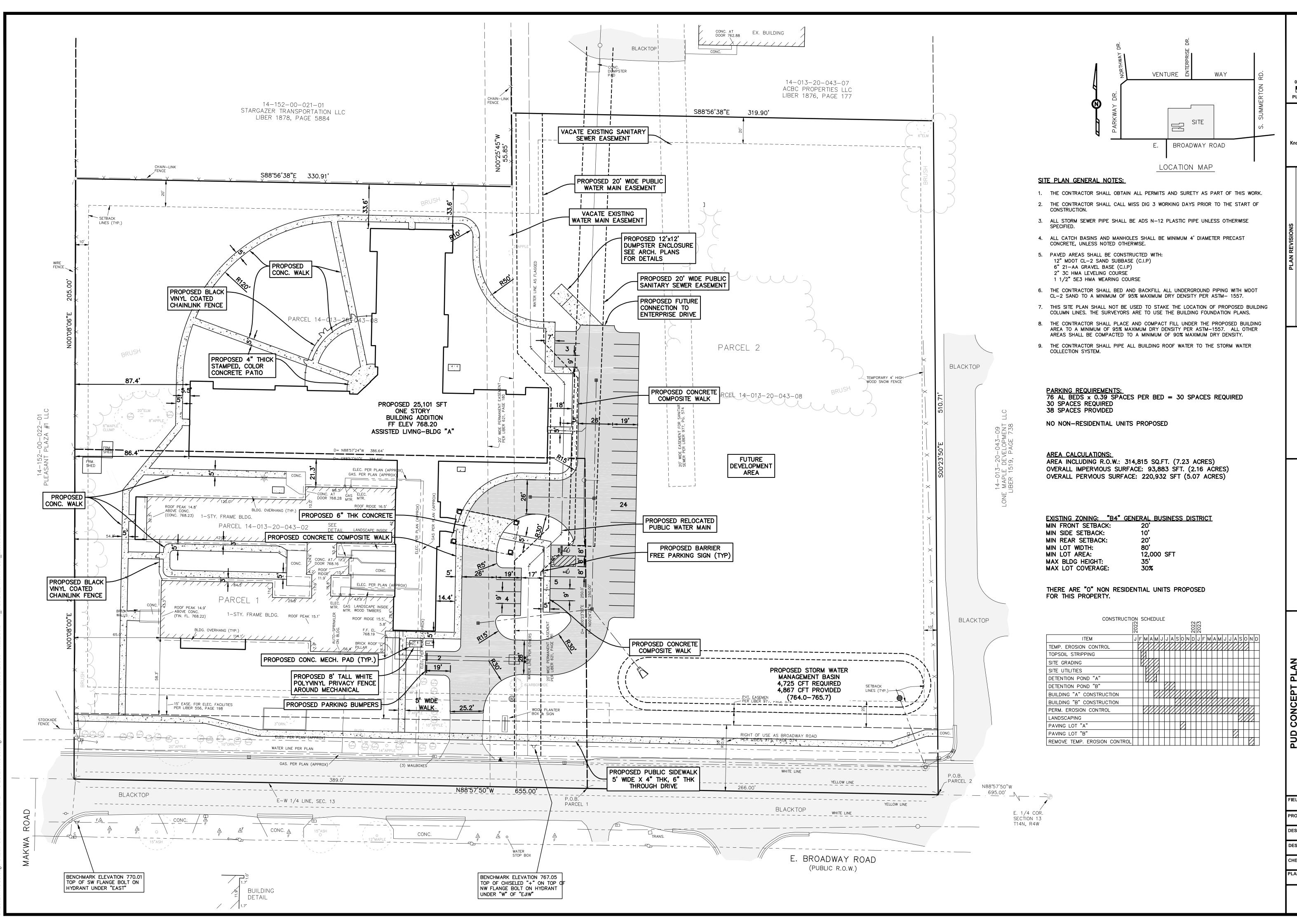
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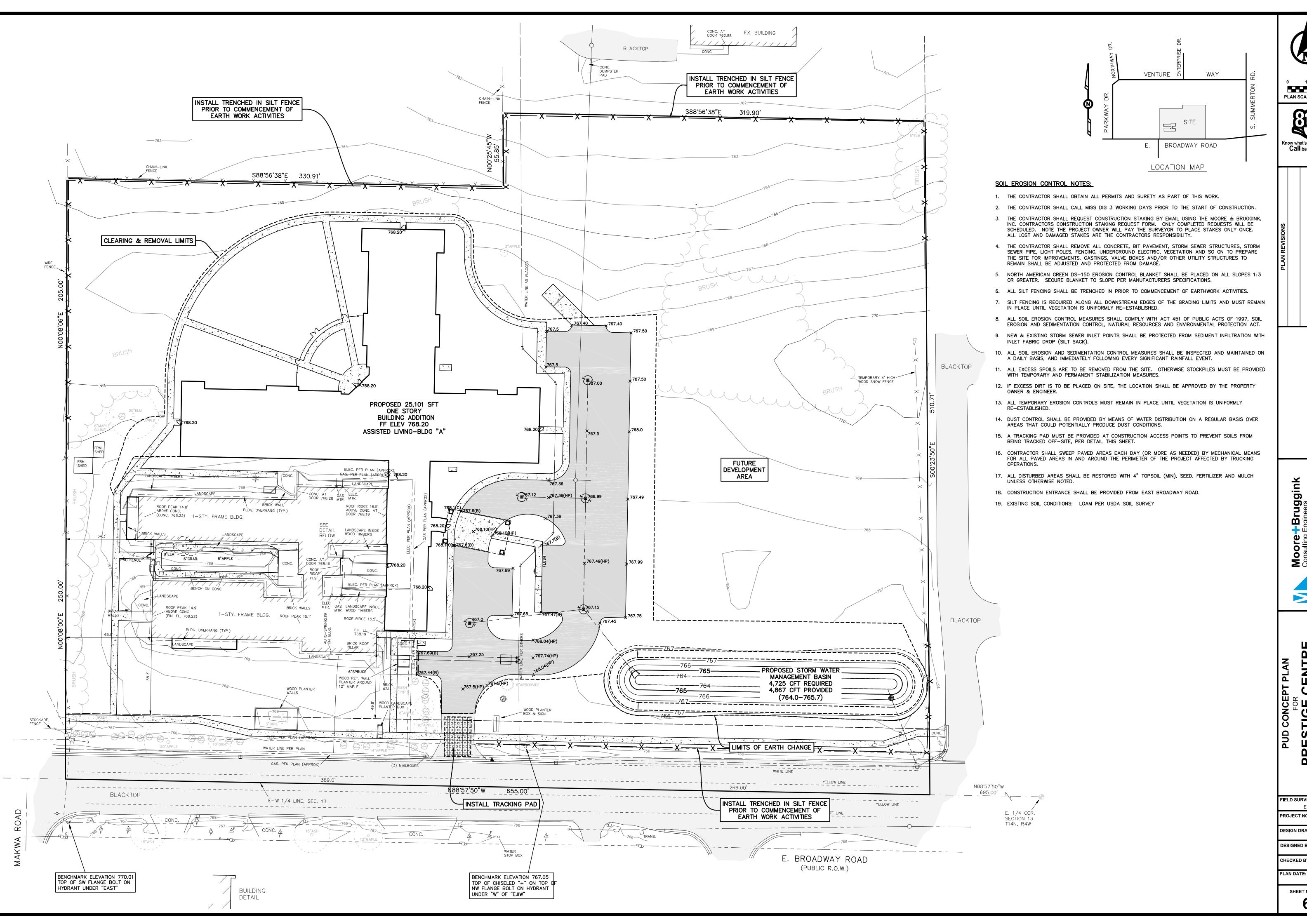
FIELD SURVEY / DATE





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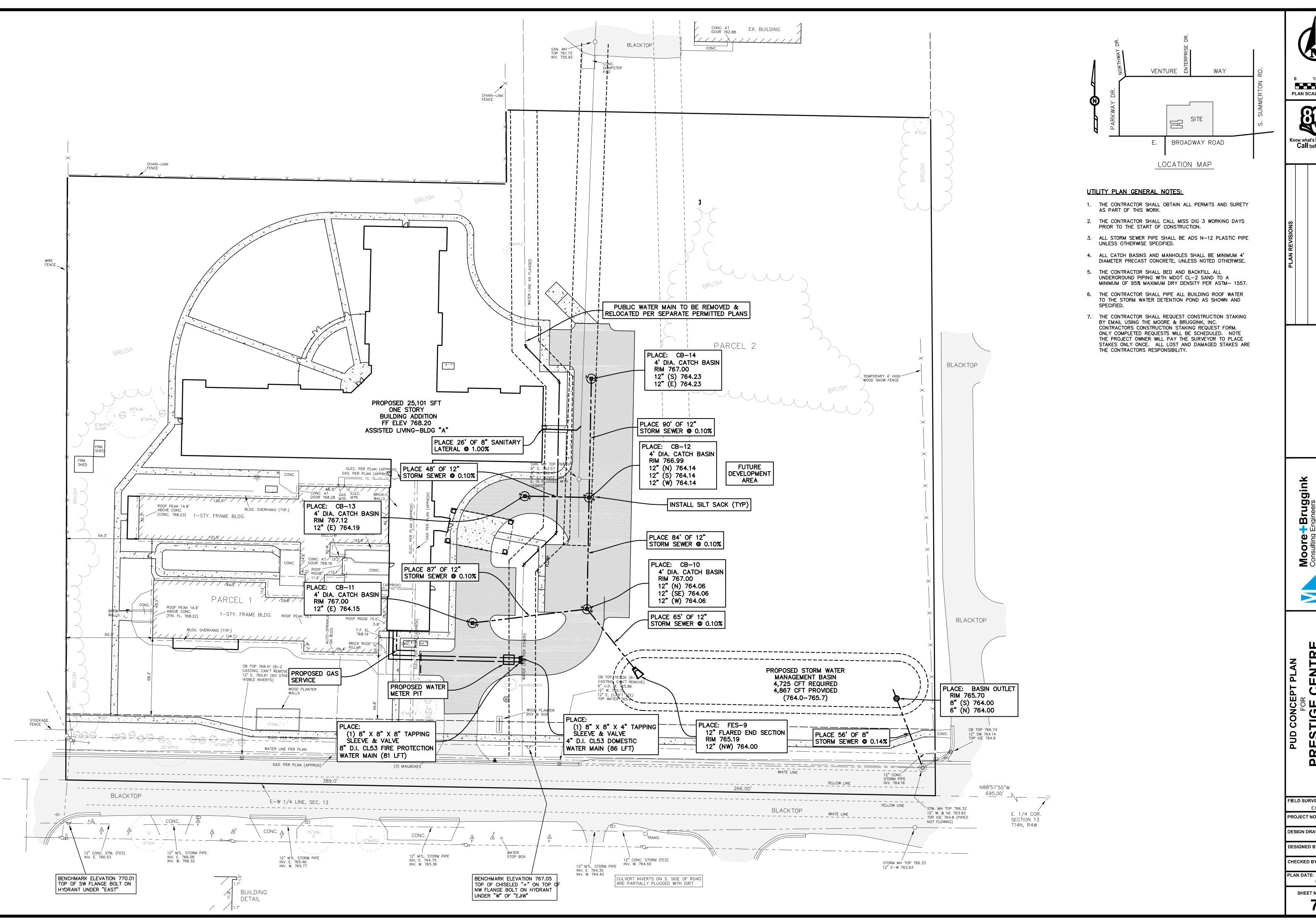




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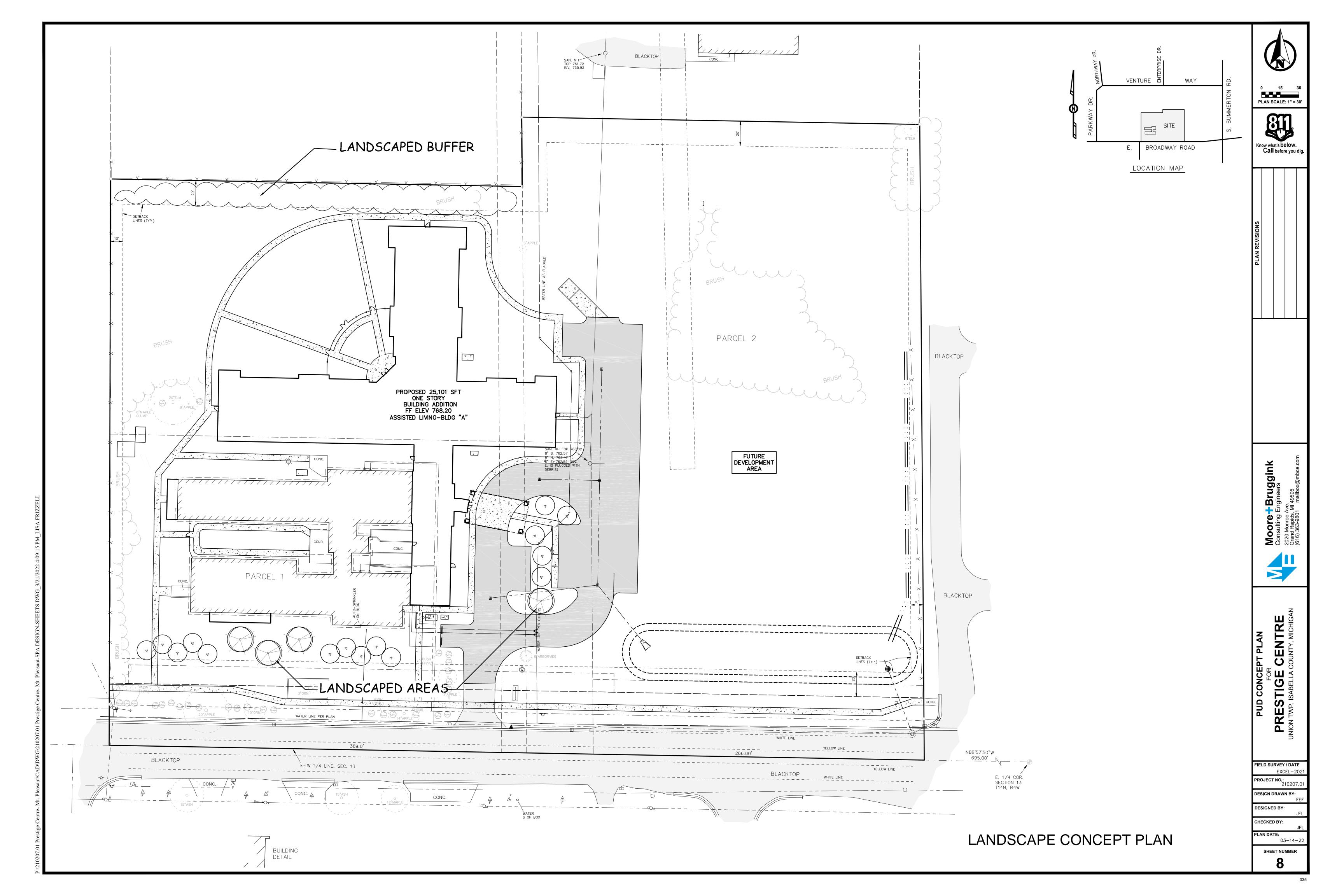




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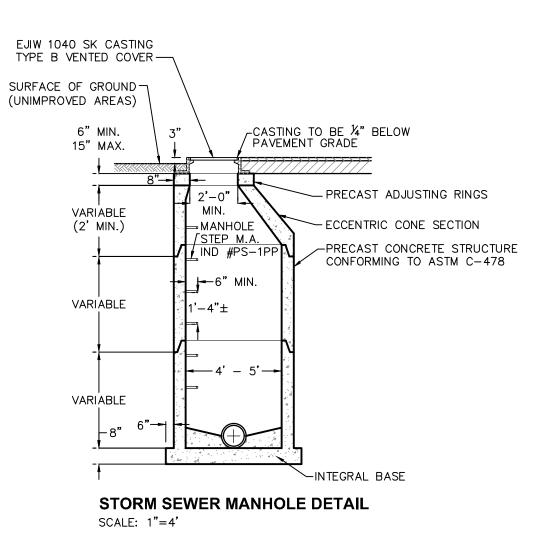
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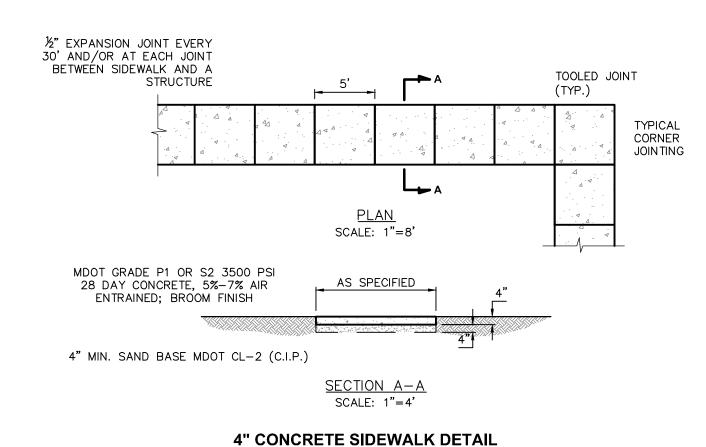
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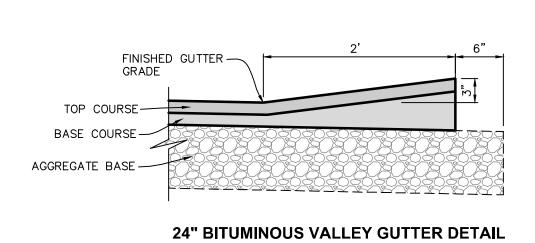


(IN PAVED AREAS)

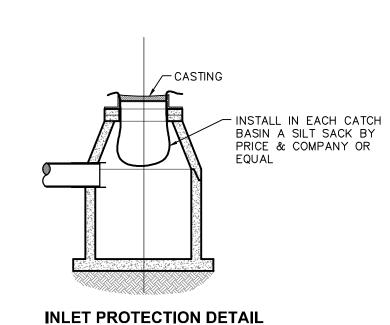
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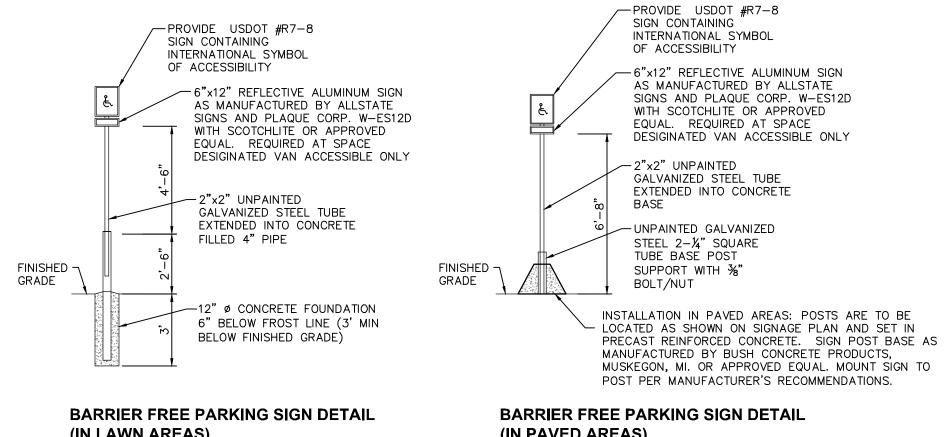


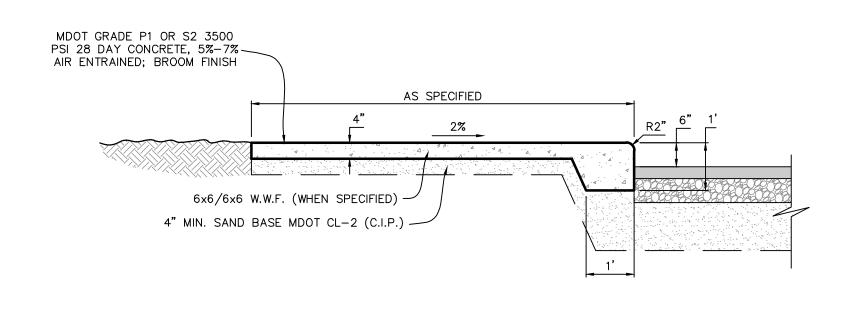


SCALE: 1"=1"



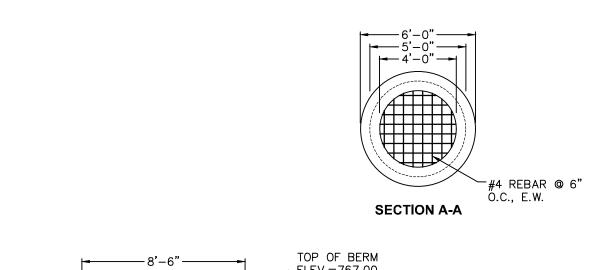
SCALE: 1"=4"

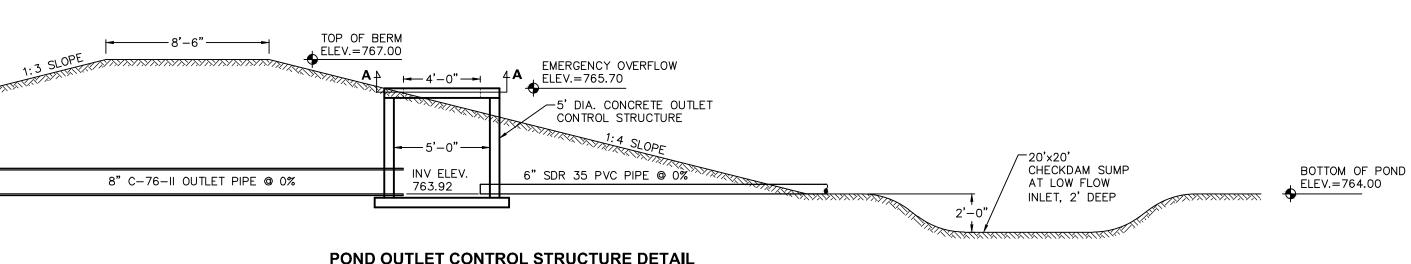




**COMPOSITE CONCRETE WALK & CURB DETAIL** 

SCALE: 1"=2"





POND OUTLET CONTROL STRUCTURE DETAIL SCALE: 1"=5'

CENTRE PUD CONCEPT PLAN ESTIGE
TWP, ISABELLA C

**+Bruggin**l Engineers

Know what's below.

Call before you dig.

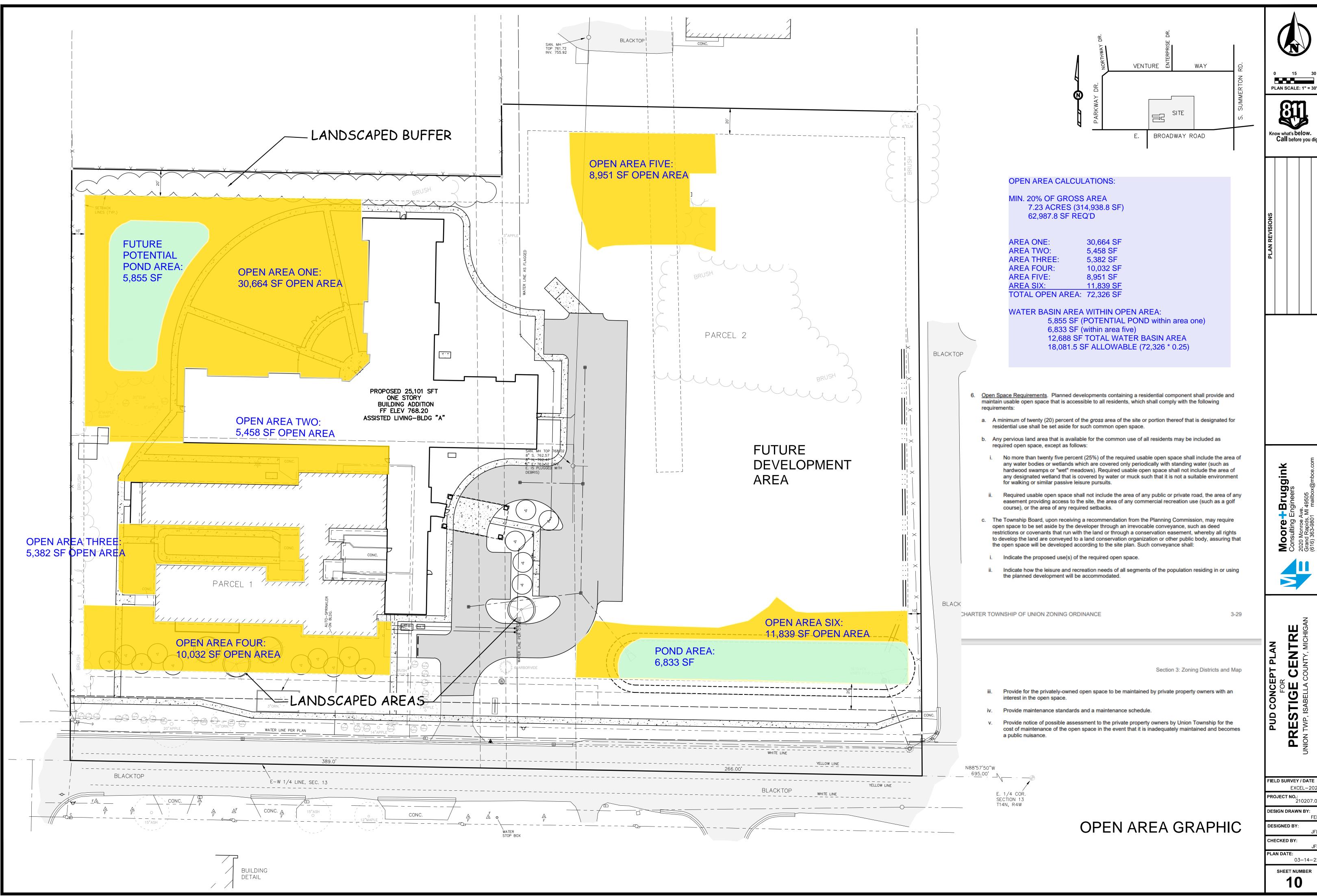
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PLAN DATE: 03-14-2 SHEET NUMBER

(IN LAWN AREAS) SCALE: 1"=4"

(IN PAVED AREAS)

SCALE: 1"=4'





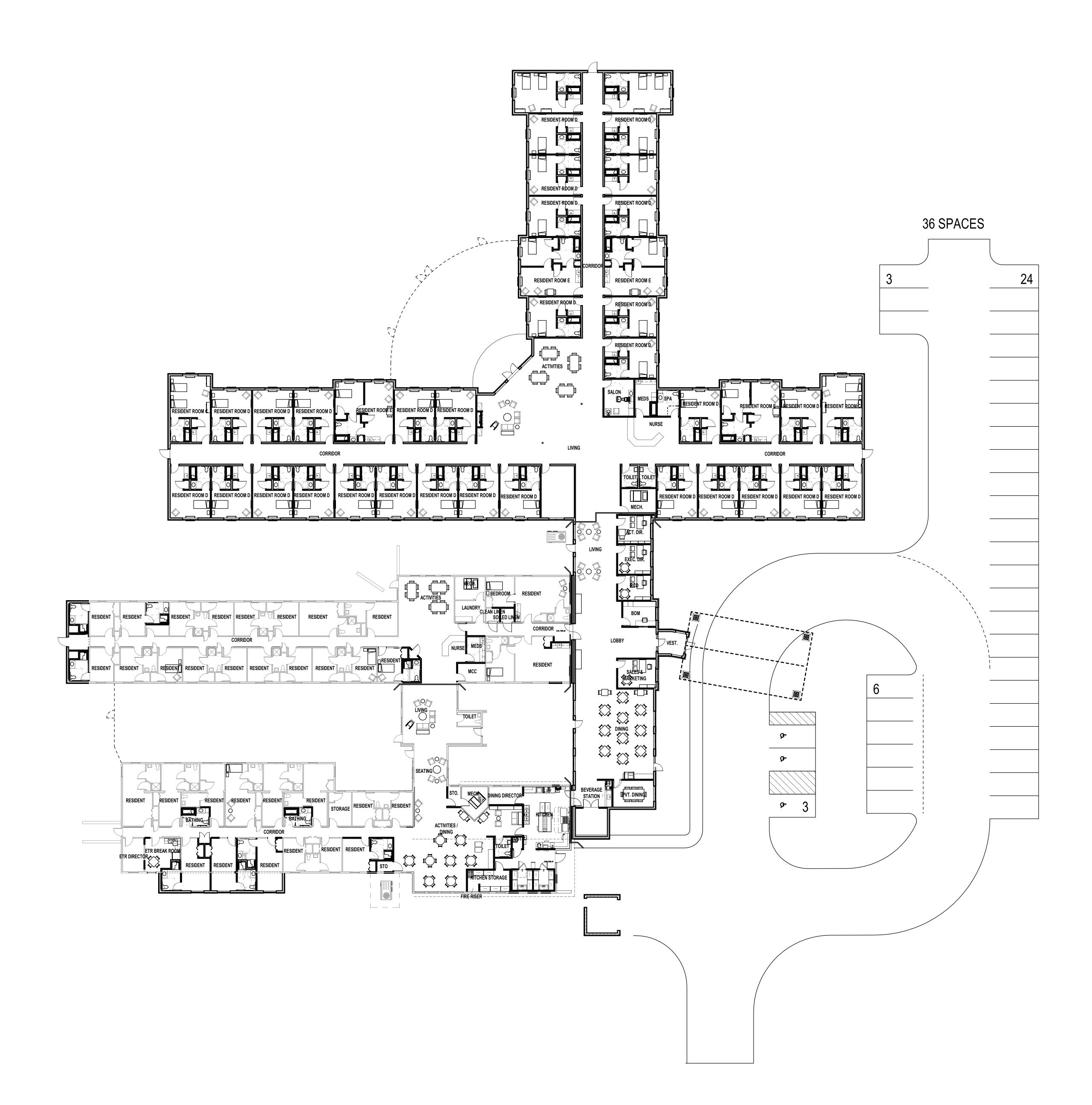
PROJECT NO. 5-5355

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OVERALL PLAN (AS REQUIRED)





A4.01

KEYPLAN

**EXTERIOR ELEVATIONS** 

GMB 616.796.0200 www.gmb.com

ISSUANCES 00.00.2020 SCHEMATIC DESIGN

DRAWN Author REVIEWED Approver PROJECT NO. No part of this drawing may be used or reproduced in any form or by any means, or stored in a database or retrieval system, without prior written permission of GMB Copyright⊚ 2021 All Rights Reserved

A4.02

**EXTERIOR ELEVATIONS** 

# Charter Township Of Union

#### **Community and Economic Development Department**

2010 S. Lincoln Rd. Mt. Pleasant, MI 48858 989-772-4600 ext. 232

#### PLANNED UNIT DEVELOPMENT (PUD) APPLICATION REPORT

TO: Planning Commission DATE: April 12, 2022

**FROM:** Peter Gallinat, Zoning Administrator **ZONING:** B-4, General Business

**PROJECT:** PREZ21-03 request to rezone parcels 14-013-20-043-02 & -043-08 at 5785 E.

Broadway Road from the B-4 (General Business) District to the PUD (Planned Unit Development) per Section 3.19 (PUD, Planned Unit Development District), and to approve the associated PUD Concept Plan for an expanded assisted living and

dependent living for seniors

**PARCELS:** 5785 E. Broadway Road, parcels 14-013-20-043-02 & -043-08

**OWNER:** MCAP MT PLEASANT PROPCO LLC (Prestige Centre)

**LOCATION:** Approximately 7.23 acres on the north side of E. Broadway Road in the NE 1/4 of

Section 13.

**EXISTING USE:** Assisted living facility **ADJACENT ZONING:** B-4, I-2

**FUTURE LAND USE DESIGNATION:** <u>Commercial/Light Industrial</u>. This district is intended for a blend of medium intensity commercial and small-scale light industrial uses. Light industrial uses include but are not limited to small-scale manufacturing, laboratories, R&D (research and development) firms, information technology firms, or other businesses that might be found in a technology park.

**ACTIONS REQUESTED:** To hold a public hearing and to review the PREZ21-03 request to rezone parcels 14-013-20-043-02 & -043-08 at 5785 E. Broadway Road from the B-4 (General Business) District to PUD (Planned Unit Development) and the associated PUD Concept Plan dated March 14, 2022.

#### **BACKGROUND INFORMATION**

The applicant desires to expand an existing assisted living facility, which was originally constructed as part of two (2) special use permits granted by the Township in 1983 and 1987 for a combined 40 bed foster care home facility. The PUD rezoning allows the applicant additional flexibility to pursue approval of this unique project while assuring that the land will only be used in the manner as depicted on an approved PUD Concept Plan.

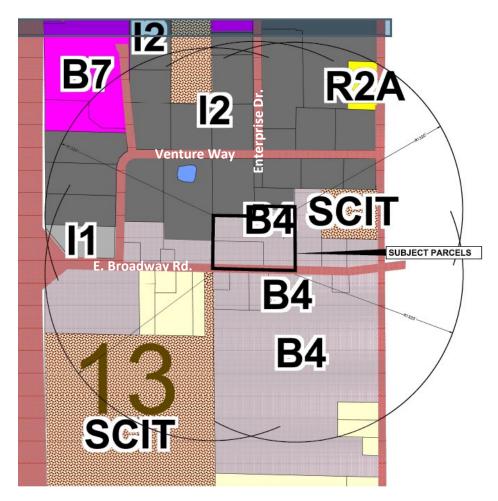
#### No Independent Senior Living Proposed on the Revised PUD Concept Plan.

The former "phase 2" Independent Senior Living component has been removed from the revised PUD Concept Plan, which now only includes was formerly labeled as "phase 1" of the original project. This was done in response to comments received from the Township's Public Services Department indicating that the could not be supported by the existing capacity of the sanitary

sewer system serving this area. The former "phase 2" project area is proposed to be left vacant, with any future development to be subject to an amended PUD Concept Plan approval.

#### **Existing Zoning**

Both parcels are zoned B-4 (General Business) District. The Master Plan Future Land Use map calls for both parcels to be zoned either B-4 or B-5. The following is an excerpt from the Township's Official Zoning Map showing the subject parcels:



#### **Nursing Home vs. Dependent/Assisted Senior Living**

A nursing home is allowed as a special use in the B-4 zoning district. However, staff concurs with the applicant's previously expressed concern that the full scope of their expanded facility would exceed the limited scope of a nursing home as defined in the Zoning Ordinance. Instead, the proposed development is for "housing for the elderly" (dependent living and assisted living for seniors), which is a broader land use category that is not an allowable land use in the existing B-4 District, but is specifically included in Section 3.19 as a category that can be authorized as part of a PUD rezoning action.

#### Land Combination Required.

The project includes the current parcel 14-013-20-043-02 and the larger vacant neighboring parcel 14-013-20-043-08. It is not required for this rezoning and PUD Concept Plan approval stage, but the applicant and landowners will need to be aware that Township Assessor approval of a land division/land combination application to combine the subject parcels into one (1) new tax parcel will be required to be completed prior to issuance of any building permit for this project, with documentation provided documentation to the Zoning Administrator.

#### PLANNED UNIT DEVELOPMENT REQUIREMENTS (SECTION 3.19)

The PUD Concept Plan is intended to establish the general arrangement of proposed buildings and site improvements, the specific land uses included as part of the PUD, and the scope and extent of any proposed deviations from Zoning Ordinance requirements. The Concept Plan resembles a site plan, but includes less detail. Preliminary and final site plan approvals will be required following any approval of the PUD rezoning and Concept Plan.

The following review comments are based upon Section 3.19 requirements. Where a  $\checkmark$  is noted, the requirement has been met on the Concept Plan. Where a  $\square$  or a  $\bigcirc$  is noted, the requirement has not been met and plan revisions are required. Where a  $\bullet$  is noted, it is an acknowledgement that the project can comply, and necessary actions are in process of completion to do so:

#### 1. Eligibility Criteria

- ✓ The overall development site (two parcels) is more than the minimum parcel size of 5 acres of contiguous land. The entire project would encompass approx. 7.23 acres.
- ✓ The development will be under single ownership or control as required.

#### 2. Regulatory Flexibility

✓ No deviation from zoning has been requested.

#### 3. **Permitted Uses and Density**

- a. If the underlying zoning is B-4: any use allowed as principal permitted use or special use within the B-4 district, housing for the elderly, and shopping centers.
  - ✓ Proposed project is housing for the elderly
- b. Residential Density
  - ✓ Complies

#### 4. **Project Design Standards**

- ✓ Project complies with required distances between buildings and shows the correct perimeter setback requirements of a B-4 parcel.
- ✓ Instead of the parking formula for a nursing home (0.43 spaces per bed), the applicant chose the dependent senior living formula of 0.39 spaces which does not require visitor parking.

- ✓ A conceptual landscaping and screening plan for the project is depicted on sheet
   9. A detailed plan will be required as part of the final site plan for the project
- ✓ The proposed open areas and associated calculations shown on sheet 10 of the revised PUD Concept Plan are consistent with Section 3.19D.6. requirements.
- ✓ Natural features are preserved on site with trees and open areas.
- ✓ A proposed new public sidewalk is shown on the plan along E. Broadway Rd., along with 5-foot-wide internal sidewalks and connections to E. Broadway Rd.
- ✓ A conceptual layout for stormwater retention is depicted on the plan, and is sufficient for this stage of review. Stormwater management calculations and details will be required as part of the final site plan for the project.
- ✓ The increased service needs associated with the new and expanded facilities
  depicted on the PUD Concept Plan are not anticipated to exceed the capacity of
  existing and available public roads, police and fire protection services, and
  educational services.
- ✓ The Public Services Director confirmed in a meeting with the applicant that the
  applicant's proposal to relocate a portion of the existing municipal water and
  sewer infrastructure or easements slightly to the east to support the phase 1
  Assisted Living Facility/Memory Care Expansion component of this PUD project is
  acceptable at a conceptual level, but will be subject to more detailed review and
  approval prior to Planning Commission action on a final site plan for the project.

#### 5. Application Data Requirements.

- ✓ All required names, addresses and contact information are provided on the revised PUD Concept Plan cover sheet.
- ✓ The legal description of the land on which the Planned Unit Development project will be developed together with appropriate tax identification numbers.
- ✓ Except as otherwise noted in this report, the PUD Concept Plan includes all of the following required information:
  - ➤ A general location map.
  - > The location of existing roads and highways adjacent to the proposed development.
  - > The general layout of dwelling units, parking, open space, and recreation and park areas.
  - > General locations and setbacks of each structure and use in the development.
  - Typical layouts and facade designs for each type of use or building.
  - In the case of single family detached development, the plan should indicate the setbacks and outline of the area within which a house could be constructed on each lot.
  - The vehicular circulation system planned for the proposed development.
  - Conceptual landscaping and screening plan.
- ✓ A topographic survey plan has been submitted (sheet 1).
- ✓ A soils inventory based on the County Soils Survey has been submitted (sheet 2).
- ✓ General locations and approximate dimensions of wetland areas and significant site

features such as tree stands, unusual slopes, streams and water drainage areas have been submitted on the Grading Plan (sheet 6).

- ✓ A conceptual utility plan has been provided (sheet 7).
- ✓ A conceptual layout of the proposed stormwater drainage system is included.
- ✓ A map showing existing zoning designations for the subject property and all land within one quarter mile has been provided on sheet 2.
- ✓ A map and written explanation of the relationship of the proposed Planned Unit Development to the Township's Master Plan and Future Land Use Map has been submitted (cover sheet).
- ✓ Documentation that the applicant has sufficient development experience to complete the proposed project in its entirety has been provided. MCAP has submitted bios of their management team. The company has a total of 51 development projects completed through mid-2021.
- ✓ A general schedule for design approval, construction, and occupation of buildings has been provided as required.
- ✓ The number of residential units to be developed has been provided: The project will contain a total of 164 units between phases 1 & 2.
- ✓ Proposed sidewalk along E. Broadway Rd. is shown on the plan. Internal sidewalks are shown that connect the phase 1 & 2 developments.
- ✓ A Transportation Impact Study is required for a PUD if the Planning Commission or Township Board deems it necessary. Previously staff recommended a Transportation Study but no longer sees a need for one with the current exclusion of the proposed Independent Senior Living.

#### CRITERIA FOR PUD REZONING AND CONCEPT PLAN APPROVAL

In considering any application for PUD rezoning and Concept Plan approval, the Planning Commission and Township Board shall make their determinations based on consistency with the following criteria:

- 1. The application and Concept Plan are compatible with the goals and policies of the Master Plan and any other Township planning documents.
  - ✓ The revised PUD Concept Plan includes a more detailed evaluation of the connections between this project and goals 1 through 3 on page 7 of the Master Plan.
- 2. The application and Concept Plan conform to all requirements of this Section 3.19, and all other applicable requirements of this Ordinance and other Township ordinances.
  - ✓ The revised PUD Concept Plan conforms to all requirements of the section 3.19

- 3. The overall Concept Plan site layout and mix of land uses are compatible with the natural resources and environment, adjacent uses and development, the surrounding neighborhood, and the Township as a whole.
  - ✓ The revised PUD Concept Plan meets this requirement.

#### **KEY FINDINGS**

- 1. The applicant desires to expand the existing assisted living facility (Dependent Senior Living).
- 2. The site and proposed development satisfy the Eligibility Criteria for consideration as a PUD project.
- 3. The scope of proposed development activity on the revised PUD Concept Plan is now depicted as a single-phase project. The former "phase 2" Independent Senior Living component has been removed, with the area left vacant and designated as a "Future Development Area."
- 4. The application and revised PUD Concept Plan fully satisfy the requirements of Section 3.19.
- 5. Township Assessor approval of a land division/land combination application to combine the subject parcels into one (1) new tax parcel will be required to be completed prior to issuance of any building permit for this project.

#### **RECOMMENDATIONS**

I would ask that the Planning Commission consider adopting a motion to recommend approval of PREZ21-03 request to rezone the parcels at 5785 E. Broadway Road from the B-4 (General Business) District to PUD (Planned Unit Development) and to recommend approval of the associated Prestige Center PUD Concept Plan dated March 14, 2022 as presented.

Respectfully submitted,

Peter Gallinat, Zoning Administrator

Community and Economic Development Department

<u>Draft Motions</u>: PREZ21-03 request to rezone parcels 14-013-20-043-02 & -043-08 at 5785 E. Broadway Road from the B-4 (General Business) District to PUD (Planned Unit Development) and to approve the associated PUD Concept Plan.

MOTION	N TO RECOMMEND APPROVAL OF THE PUD REZONING AS REQUESTED:
013-20-0 PUD (Pla	nend to the Township Board of Trustees that the PREZ21-03 request to rezone parcels 14-043-02 & -043-08 at 5785 E. Broadway Road from the B-4 (General Business) District to a anned Unit Development) District subject to the revised Prestige Center PUD Concept ted March 14, 2022 be adopted as presented, based on the following findings and
	The site and proposed development satisfy the Eligibility Criteria for consideration as a PUD project as specified in Section 3.19.A. of the Zoning Ordinance.
d	The scope of proposed development activity on the revised PUD Concept Plan is now depicted as a single-phase project. The former "phase 2" Independent Senior Living component has been removed, with the area left vacant and designated as a "Future Development Area."
	The application and revised PUD Concept Plan fully satisfy the requirements of Section $3.19.$
Т	Planning Commission review and approval of preliminary and final site plans and Fownship Assessor approval of a land division/land combination application will be required for this project.
_	ditional conditions or limitations on the recommendation are determined to be necessary:]
This reco	ommendation for approval is offered subject to the following conditions:
1	
2	
3	

<u>Draft Motions</u>: PREZ21-03 request to rezone parcels 14-013-20-043-02 & -043-08 at 5785 E. Broadway Road from the B-4 (General Business) District to PUD (Planned Unit Development) and to approve the associated PUD Concept Plan.

NOTION TO RECOMMEND DENIAL OF THE REQUESTED REZONING:	
Motion by	cels 14- rict to a
лотіоn то postpone action:	
Notion by, supported by	, to
ostpone action on the PREZ21-03 request to rezone parcels 14-013-20-043-02 & -043-08	at 5785
. Broadway Road from the B-4 (General Business) District to PUD (Planned Unit Develop	pment)
intil the, 2022 regular Planning Commission meeting,	for the
ollowing reasons:	

# **Charter Township of Union**

# APPLICATION FOR SITE PLAN REVIEW

A Completed Applie	Minor Site Plan		Preliminary	Site Plan	~	/ Final Si	te Plan		
A Completed Applica	ation will contain	all the in	formation required p	er the Zoning	Ordinance	, Section 1	4.2 (Site P	lan Revi	ew).
Name of Proposed De	velopment/Proj	ect		KRIST	FOOD	MART			
Common Description	of Property & A	ddress (	if issued) So	DUTHWEST	CORNE	ROFFP	ICKARD	RD At	VD.
	S. ISABELLA R	D. / 497	2 E. PICKARD RI	). MOUNT PI	LEASAN	T. MI 488	58	IID. AI	10
Applicant's Name(s)	-			OIL COMPAN		.,	-		
Phone/Fax numbers		906-26	5-6144	Ema	il	kristo	@kristoil.	com	-
Address	303	SELDE	N RD.		City:	IRON RI	VER, MI	Zip	: 49935
Legal Description:	Attached	Inclu	ided on Site Plan	Tax Parc	el ID Nur	nber(s):	SEE /	ATTACH	HED .
Existing Zoning: B-7			3.28 Existing		VA	ACANT/RI	ESIDENT	TAL	
✓ ATTACHED: Letter	describing the pro	oject and	how it conforms to	Section 14.2	.S. (Stand	ards for Sit	te Plan Ar	proval)	
								provary	
Firm(s) or			I CONSULTANTS	Pho	ne:906-2	14-4151 Er	nail SE	EATTA	CHED
Individuals(s) who	2. Address:			990 I AI	I EV RD			179	
prepared site plan(s)	City:		IRON RIVER			State:	MI	Zip:	49935
	Contact Perso	n:	CRAIG	RICHARDS	ON				84-3903
Legal Owner(s) of	1. Name:		MICHIGAN RES	EDVEC INC					
Property.			MIONIGAN RESI	DO DOV		Phon	e:		
All persons having	City:	1	MOUNT PLEASAN	PO BOX	329		N 41		
legal interest in the	,			11	50	ate:	IVII	_Zip:_	48804
property must sign	Signature:		/// 10	-(	Interes	t in Prope		OWNE	R
this application.	2. Name:		KRIST OIL COM	PANY INC		Phon			
Attach a separate				303 SELD	EN RD.		e. <u>90</u>	6-265-6	144
sheet if more space	City:		IRON RIVER			ate:	MI	7in:	49935
is needed.	Signature:	(inti	2 Litem					BUYE	
I do hereby affirm that true and accurate to the	all the statemer	nts, sign	atures, description	s, exhibits su	bmitted	on or with	h this ans	dicatio	n ara
and and account of the fill	C DEST OF HIS KILL	owiedee	and that I am aut	horized to fil	a this am	mlianti			10 0
an and owners of the Di	QUELLY, PAISE OF	inacciir	ata intarmation ni	II			-		
									t
constitute the right to v	iolate any provi	sions of	the Zoning Ordina	nce or other	applicabl	e codes ar	nd ordina	nces.	
$\sim$									
1/1	Tey				,	3-15	2	2	
Sign	ature of Applica	int					ate		
									V.

Office Use Only

#### PERMIT INFORMATION CHECKLIST FOR FINAL SITE PLANS

#### Michigan.gov/EGLEpermits

The Michigan Department of Environment, Great Lakes, and Energy (EGLE) has prepared a list of key questions to help identify what EGLE permits, licenses, or approvals of a permit-like nature may be needed. By contacting the appropriate offices indicated, you will help reduce the possibility that your project or activity will be delayed due to the untimely discovery of additional permitting requirements later in the construction process. While this list covers the existence of permits and approvals required from EGLE, it is not a comprehensive list of all legal responsibilities. A useful way to learn whether other requirements will apply is to go through the Self-Environmental Assessment in the Michigan Guide to Environmental, Health, and Safety Regulations, online at: <a href="Michigan.gov/EHSquide">Michigan.gov/EHSquide</a>. Please call the Environmental Assistance Center at 800-662-9278 to talk with any of the EGLE programs noted below. [insertions and edits by Union Township]

Но	w Do I Know that I Need a State of Michigan, County or Local Permit or Approval?	Yes	No
1)	Will your business involve the installation or construction of any process equipment that has the potential to emit air contaminants (e.g. dry sand blasting, boilers, standby generators)? Air Quality Permit to Install, Air Quality Division (AQD), <a href="Permit Section">Permit Section</a>	Υ□	N⊠
2)	Does the project involve renovating or demolishing all or portions of a building? Notification is required for asbestos removal and required for all demolitions even if the structure never contained asbestos. Asbestos Notification, AQD, <u>Asbestos Program</u> , 517-284-6777	ΥX	N□
3)	Please consult the <u>Permitting at the Land and Water Interface Decision Tree document</u> to evaluate whether your project needs a land and water management permit (i.e., Does the project involve filling, dredging, placement of structures, draining, or use of a wetland?). Land and Water Featured Programs (Water Resources Division - WRD) - <u>Joint Permit Application</u> , 517-284-5567:		
	<ul><li>a. Does the project involve construction of a building or septic system in a designated Great Lakes high risk erosion area?</li><li>b. Does the project involve dredging, filling, grading, or other alteration of the soil,</li></ul>	Y□	NϪ
	vegetation, or natural drainage, or placement of permanent structures in a designated environmental area?	Υ□	NϪ
	<ul> <li>c. Does the project propose any development, construction, silvicultural activities or contour alterations within a designated critical dune area?</li> <li>d. Does the project involve construction of a dam, weir or other structure to impound</li> </ul>	Υ□	NΧ
	d. Does the project involve construction of a dam, weir or other structure to impound flow?	Υ□	NΧ
4)	Does the project involve an earth change activity (including land balancing, demolition involving soil movement, and construction) or does the project involve construction which will disturb one or more acres that come into contact with storm water that enters a storm sewer, drain, lake, stream, or other surface water? <b>Union Township and Isabella County</b>	ΥX	N□
5)	Does the project involve the construction or alteration of a water supply system system? <b>Union Township Public Services Department</b> and <u>Drinking Water &amp; Environmental Health</u> <u>Division</u> (DWEHD), 517-284-6524	ΥX	N□
6)	Does the project involve construction or alteration of any sewage collection or treatment facility? <b>Union Township Public Services Department</b> and <u>WRD, Part 41 Construction</u> <u>Permit</u> Program (staff), 906-228-4527, or <u>EGLE District</u> Office	ΥX	N□
7)	Public Swimming Pool Construction (Spas/Hot Tubs) Permits: Will your business involve the construction or modification of a public swimming pool, spa or hot tub? <b>Union Township</b> and <a href="Public Swimming Pool">Program</a> , 517-284-6541, or <a href="EGLE District Office">EGLE District Office</a>	Υ□	NX
8)	Does the project involve the construction or modification of a campground? <b>Union Township</b> <a href="mailto:ampgrounds.program">and DWEHD, Campgrounds.program</a> , 517-284-6529	Υ□	N⊠

9)	Does the project involve construction of a facility that landfills, transfers, or processes of any type of solid non-hazardous waste on-site, or places industrial residuals/sludge into or onto the ground? Materials Management Division (MMD), <u>Solid Waste</u> , 517-284-6588, or <u>EGLE District Office</u>	Υ□	N⊠
10)	Does the project involve the construction of an on-site treatment, storage, or disposal facility for hazardous waste? MMD, Hazardous Waste Section, <u>Treatment, Storage and Disposal</u> , 517-284-6562	Υ□	NX
Wh	o Regulates My Drinking (Potable) Water Supply?		
11)	I am buying water from the municipal water supply system Contact the <b>Union Township Public Services Dept.</b>	ΥX	N
12)	I have a Non-Community Water Supply (Type II) <u>Guide</u> , <u>Contact (District or County) Local</u> <u>Health Department</u> , 517-485-0660	Υ□	NX
13)	I am a community water supply (Type I) <u>Community Water Supply, DWEHD District Office</u> <u>Community Water Supply Program</u> , 517-284-6512	Υ□	NX
14)	Do you desire to develop a <u>withdrawal of over 2,000,000 gallons of water per day</u> from any source including groundwater, inland surface water, or the Great Lakes and their connecting waterways? WRD, Great Lakes Shorelands Unit, Water Use Program, 517-284-5563	Υ□	NX
Wh	o Regulates My Wastewater Discharge System?		
15)	NPDES: Does the project involve the discharge of any type of wastewater to a storm sewer, drain, lake, stream, or other surface water? WRD, <u>EGLE District Office</u> , or <u>National Pollutant Discharge Elimination (NPDES) Permit Program</u> , 517-284-5568	Y	NX
16)	Does the facility have industrial activity that comes into contact with storm water that enters a storm sewer, drain, lake, stream, or other surface water? WRD, <u>Permits Section</u> , or <u>EGLE</u> <u>District Office</u> , 517-284-5588	Y	N⊠
17)	Does the project involve the discharge of wastewaters into or onto the ground (e.g. subsurface disposal or irrigation)? WRD, <u>Groundwater Permits Program</u> , 517-290-2570	Y	NX
18)	Does the project involve the drilling or deepening of wells for waste disposal? Oil, Gas and Minerals Division (OGMD), 517-284-6841	Υ□	NX
Wh	at Operational Permits Are Relevant to My Operation and Air Emissions?		
19)	Renewable Operating Permit: Does your facility have the potential to emit any of the following: 100 tons per year or more of any criteria pollutant; 10 tons per year or more of any hazardous air pollutant; or 25 tons per year or more of any combination of hazardous air pollutants? AQD, Permit Section, 517-284-6634	Υ□	NΧ
20)	Does your facility have an electric generating unit that sells electricity to the grid and burns a fossil fuel? AQD, <u>Acid Rain Permit Program</u> , 517-780-7843	Υ□	NX
Wh	at Operational Permits Are Relevant to My Waste Management?		
21)	Does the project involve landfilling, transferring, or processing of any type of solid non-hazardous waste on-site, or placing industrial residuals/sludge into or onto the ground? <a href="MMD">MMD</a> , 517-284-6588 or <a href="EGLE District Office">EGLE District Office</a>	Υ□	NX
22)	Does the project involve the on-site treatment, storage, or disposal of hazardous waste? MMD, <u>Hazardous and Liquid Waste</u> , 517-284-6562	Υ□	NX
23)	Does the project require a site identification number (EPA number) for regulated waste activities (used oil, liquid waste, hazardous waste, universal waste, PCBs)? ( <u>Hazardous Waste Program Forms &amp; License Applications</u> ) MMD, <u>EGLE District Office</u> , 517-284-6562	Υ□	N⊠

24) Does the project involve the receipt, possession, manufacture, use, storage, transport, transfer, release, or disposal of radioactive material in any form? MMD, Radioactive Material and Standards Unit, 517-284-6581	Υ□	NϪ
25) Does the project involve decommissioning or decontamination of tanks, piping, and/or appurtenances that may have radioactive levels above background? MMD Radioactive Material and Standards Unit, 517-284-6581	Υ□	NΧ
26) Does the project involve the generation of medical waste or a facility that treats medical waste prior to its disposal? MMD, <u>Medical Waste Regulatory Program</u> , 517-284-6594	Υ□	NX
What Sector-Specific Permits May be Relevant to My Business?		
Transporters  27) Does the project involve the <i>transport</i> of some other facility's non-hazardous liquid waste?	Υ□	N⊠
MMD, <u>Transporter Program</u> , 517-284-6562  28) Does the project involve the <i>transport</i> of hazardous waste? MMD, <u>Transporter Program</u> ,	Υ□	N⊠
<ul><li>517-284-6562</li><li>29) Do you engage in the business of transporting bulk water for drinking or household purposes (except for your own household use)? DWEHD, <u>Water Hauler Information</u>, 517-284-6527</li></ul>	Y□	N⊠
30) Does the project involve <i>transport</i> of septic tank, cesspool, or dry well contents or the discharge of septage or sewage sludge into or onto the ground? DWEHD, <a href="Septage Program">Septage Program</a> , 517-284-6535	Υ□	N⊠
31) Do you store, haul, shred or process <i>scrap tires</i> ? MMD, <u>Scrap Tire Program</u> , 517-284-6586	Υ□	N⊠
<u>Sectors</u>		
32) Is the project a <i>dry cleaning</i> establishment utilizing perchloroethylene or a flammable solvent in the cleaning process? AQD, <u>Dry Cleaning Program</u> , 517-284-6780	Υ□	N⊠
33) Does your <i>laboratory</i> test potable water as required for compliance and monitoring purposes of the Safe Drinking Water Act? <u>Laboratory Services Certifications</u> , 517-284-5424	Υ□	N⊠
34) Does the project involve the operation of a <i>public swimming pool</i> ? DWEHD, <u>Public Swimming</u> Pools Program, 517-284-6529	Υ□	NX
35) Does the project involve the operation of a <i>campground</i> ? <b>Union Township</b> and DWEHD, <a href="Campgrounds">Campgrounds</a> , 517-284-6529	Y	N⊠
What Permits Do I Need to Add Chemicals to Lakes and Streams?		
36) Are you applying a chemical treatment for the purpose of aquatic nuisance control (pesticide/herbicide etc.) in a water body (i.e. lake, pond or river)? WRD, Aquatic Nuisance Control, 517-284-5593	Υ□	N⊠
37) Are you applying materials to a water body for a water resource management project (i.e. mosquito control treatments, dye testing, or fish reclamation projects)? WRD, <a href="Surface Water Assessment Section">Surface Water Assessment Section</a> , 517-331-5228	Υ□	N⊠

Why would I be subject to Oil, Gas and Mineral Permitting?		
38) Do you want to operate a central production facility (applies to oil and gas production facilities where products of diverse ownership are commingled)? OGMD, Petroleum Geology and Production Unit, 517-284-6826	Υ□	NΧ
39) Does the project involve the removal of sand from a sand dune area within two (2) miles of a Great Lakes shoreline? OGMD, Minerals and Mapping Unit, Sand Dune Mining Program, 517-284-6826	Υ□	NΣ
40) Does the project involve decommissioning or decontamination of tanks, piping, and/or appurtenances that may have radioactive levels above background? MMD, <a href="Radioactive Protection Programs">Radioactive Protection Programs</a> , 517-284-6581	Υ□	N⊠
Petroleum & Mining, OGMD, 517-284-6826		
41) Does the project involve the diversion and control of water for the mining and processing of low-grade iron ore?	Υ□	NΧ
42) Does the project involve the surface or open-pit mining of metallic mineral deposits?	Υ□	
43) Does the project involve the mining of nonferrous mineral deposits at the surface or in underground mines?	Υ□	N⊠
44) Does the project involve mining coal?	Υ□	N⊠
45) Does the project involve changing the status or plugging of a mineral well?	Y□	NΧ
46) Does the project involve the drilling or deepening of wells for brine production, solution mining, storage, or as test wells?	Y□	N⊠

Contact **Union Township** and **EGLE** Permits & Bonding, OGMD, 517-284-6841

#### Planning Commission— Detailed Use Statement-Site Plan Krist Oil Company, Inc. Proposed Krist Food Mart 4972 E. Pickard Road, Union Township, Michigan

Krist Oil Company independently owns and operates 73 Convenience Stores across Michigan, Wisconsin, and Minnesota. Krist Oil Company, Inc. (Krist Oil) is intent on purchasing six (6) parcels of property at the corner of E. Pickard Road and S. Isabella Road for development of a Krist Food Mart. All six parcels are owned by Michigan Reserves Inc., totaling approximately 3.28 acres. Three parcels are located along E. Pickard Road and three parcels are located along S. Isabella Road. The three parcels along E. Pickard Road are residential properties, while the three parcels along S. Isabella Road are commercial. N&B Floor Coverings were the tenants of the commercial properties but have since vacated the lots. The existing buildings and site features on the Michigan Reserves Inc. properties are to be demolished for the proposed Krist Food Mart development per the attached Site Plan. The features abutting the site include: trees and residential properties to the south and an open yard/commercial property to the west. During construction, silt fence will be installed and maintained along the west and south sides of the property. Sedimentation control measures will also be installed around existing catch basins bordering the site. The existing grade varies between 763' and 764' within one hundred feet of the west property line. It varies between 762' and 763' along the south property line.

The Krist Food Mart will consist of two (2) canopies, one (1) for gasoline and the other for diesel fuel. Ten (10) pumps will be under the gasoline canopy and four (4) pumps will be under the diesel canopy. The pumps will not have any type or kind of video screen. There will be two (2) electric vehicle charging stations located at the southeast corner of the building. The Food Mart will be 60' x 92' (5,520 SFT) and located in the middle of the parcel. All utilities will be tied in at the street location per the utility plan. The storm water system is proposed to be an underground retention system on the north portion of the site that will discharge to the existing storm sewer(s) at a controlled rate. The southside of the site will discharge to a 18,543 cubic foot retention pond, from there it will be released at a controlled rate. Both will be discharged per Isabella County ordinance and Michigan Department of Transportation (MDOT) rules and regulations. There will be a right in/right out drive entrance on E. Pickard Road and a typical entrance on S. Isabella Road in accordance with the Access Management Plan. A clear vision area will be provided at the corner of Pickard and Isabella.

The filling station will have 43 parking spots available based off the retail square footage (4620 SFT), maximum employee count per shift (3 staff), and number of pump islands (7). Loading and unloading will take place on the south side of the building in the parking lot. A 10' x 10' dumpster enclosure will be located on the westside of the building per the site plan. Landscaping will be planted on all sides of the property as indicated on the site plan. The makeup of the landscaping will be per the Union Township zoning ordinance. All landscaping will go up to the property line or right of way. An eight (8) foot high wall will be constructed four (4) feet off of the west and south property lines. The wall will have a faux stone finish. Mechanical equipment will be located inside the building. An exception to this will be the air conditioning unit, which will be located on the roof of the building. A parapet wall will be constructed on all sides of the building, hence blocking the view of the air conditioning unit to the public. Internal sidewalks access will be maintained year-round, including winter plowing.

Krist Oil has no intention of selling or leasing any portion of the land or building space. Additionally, except for the six parcels mentioned in this Detailed Use Statement, Krist Oil does not have any further interest in owning or acquiring any adjacent land parcels.

#### Standards for Site Plan Approval (Section 14.2.S)

The applicant is legally authorized to apply for site plan approval, and all required information has been provided.

Yes

The proposed development conforms to the applicable standards and conditions imposed by this Ordinance and other applicable Township ordinances.

Yes

The final site plan is consistent with the policies of the Master Plan and other adopted Township planning documents, and with the approved preliminary site plan.

Yes, per the Special Use Permit Report dated June 7, 2021, it conforms and is consistent with the adopted Master Plan. "Based on a review of the elevation drawings provided in the preliminary site plan, the exterior materials used, and appearance of the building façade are consistent with the policy statements on page 31 of the Master Plan for Retail Service area commercial development.

The proposed development will be harmonious with and not harmful, injurious, or objectionable to the environment or land uses in surrounding area.

The development will be a significant improvement to the surrounding properties in that six (6) aged and deteriorated structures will be removed and replaced with a new 5,520 sq. ft Krist Food Mart. It will be harmonious to the surrounding area because residents to the south and west will have access to the site with new sidewalks and exterior landscaping will be planted around the lot lines. Providing buffers to the adjoining properties.

The proposed development respects natural topography, floodways, and floodplains; and minimizes the amount and extent of cutting and filling.

Yes

Organic, wet, or other soils that are not suitable for development will be undisturbed or modified in such fashion as to make development feasible.

N/A

The movement of the vehicular and pedestrian traffic within the site and in relation to access streets and sidewalks will be safe and convenient.

The proposed site will be an improvement to the existing traffic flow and pedestrian/vehicle interaction. The site will reduce the number of driveways along Pickard Rd. from four (4) to one (1) and from three (3) to one (1) on Isabella Rd. The site will move the current entrance off of Isabella approximately 140' further away from the intersection and will move the current entrance off of Pickard 150' further from the intersection.

The proposed development is adequately coordinated with improvements serving the area, and with other existing or planned development in the vicinity.

This development will create 10-15 new jobs within the area. Bring a convenience store to area and increase tax revenue in the area.

Satisfactory and harmonious relationships will exist between the proposed development and the existing and planned development of contiguous lands and the surrounding area, including provisions for proper extensions of public roads and sidewalks through the development in accordance with the Township ordinances.

We are currently coordinating our activities with MDOT's Pickard Rd. project schedule for 2023.

Development phases area in logical sequence so that any phase will not depend upon a subsequent phase for access, utilities, drainage, or erosion control.

Yes

The plan, including all engineering drawings, meets Township standards for fire and police protection, water supply, sewage disposal or treatment, storm drainage, and other public facilities and services.

Yes, see attached permit approvals.

The drainage plan conforms to applicable drainage and stormwater management standards, and any proposed improvements are adequate to handle anticipated stormwater runoff and accommodate upstream drainage without causing undue runoff on to neighboring property or overloading of area watercourses.

Yes, our storm water plans and model were approved by both MDOT and the Isabella County Drain Commission.

Proposed screening, buffering, and landscaping improvements are adequate for the location and intended purpose and conform to the standards of this Ordinance.

Yes, the landscape plan was approved during the preliminary site plan process. It actually exceeds the landscape Ordinance requirements.

Exterior lighting conforms to Ordinance requirements and standards and will not adversely affect adjacent or neighboring properties or traffic on adjacent roads.

Yes

The parking layout and vehicular circulation patterns and access points to the site are adequate to serve the proposed uses and will not adversely affect the flow of traffic on adjacent roads or create pedestrian-vehicle conflicts.

Yes, as stated earlier the proposed site will improve traffic flow by reducing the number of entrances and moving the entrance farther away from the intersection.

Grading or filling will not destroy or adversely affect the character of the property, adjacent properties, or the surrounding area.

No

Erosion will be controlled during and after construction and will not adversely affect adjacent or neighboring property or public facilities or services.

Yes, temporary soil erosion and sedimentation control measures will be put into place during construction. Permanent soil erosion and sedimentation control measures will be put into place at the end of construction per the landscaping plan.

The plan meets applicable standards of governmental agencies with jurisdiction, and necessary outside agency approvals have been obtained or are assured.

Yes, see attached permit approvals.

# SurfLite 1

## LED surface mounted canopy light

#### LCG-CP

- Tier 1 LED's for high efficacy and long life
- Die cast aluminum housing for excellent cooling and durability
- Superior optic design for low glare and even light distribution
- Slim design fits more applications with low overhead clearance
- Easy to install with J-Box mounting plate
- Screw out plugs on three sides for conduit wiring
- Threaded boss on back allows for pendant tube mounting
- 1-10 V dimming standard

### Specifications

#### Electrical

Input voltage ...... 100-277 VAC, 50-60 Hz

Wattage	Lumens	Efficacy
45 W <sup>‡</sup>	5,850	130 lm/W
65 W <sup>‡</sup>	8,450	130 lm/W

Data based on 5000 K model.

**Power factor**.....>0.95

#### Lighting

**Beam angle** ...... 159°

**Color temperature (CCT)** ...... 3000 K\*, 4000 K, 5000 K

**Color rendering (CRI)** .....>70

Performance

**Operating temperature**......-30 $^{\circ}$  C to +45 $^{\circ}$  C

Ingress protection .....IP65

**UL location rating**...... Suitable for wet locations

**Life rating** ......>50,000 hours

at maximum operating conditions

**Dimming** ...... 1-10 VDC control on power supply

Construction

**Body** ...... Die cast aluminum and polycarbonate lens

Finish ...... Bronze and White\* powder paint

Documentation

Warranty ...... 5-year limited and Performance+ Service Warranty §













- † DLC Classified as "Parking Garage" distribution.
- ‡ DLC Classified as "Low Bay" distribution.
- § Performance+ Service Warranty applies to U.S. installations ONLY.



## Ordering information

Part number

Example: LCG-CP-45W-U-40K-BZ-D1

LCG-CP - - U - |

Wattage		
Code	Desc.	
45W	45 W	
65W	65 W	

Kelvin	temp
Code	Desc.
30K	3000 K*
40K	4000 K
50K	5000 K



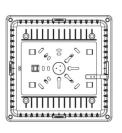
-D1



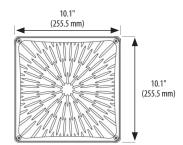
# SurfLite 1

LED surface mounted canopy light LCG-CP

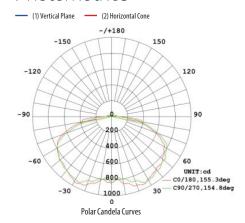








#### **Photometrics**



#### SloanLED Headquarters

5725 Olivas Park Drive, Ventura, CA, USA 805.676.3200 • info@SloanLED.com

#### SloanLED Europe b.v.

Argonstraat 110, 2718 SN Zoetermeer, NL +31 88 12 44 900 • europe@SloanLED.com



















# **Portland**

### LED full cutoff wall pack

#### LCG-WPFC

- Meets DLC full cut-off criteria for no uplight
- High efficiency LED driver with wide range input voltage 100-277 VAC or 347-480 VAC
- Die cast aluminum provides efficient cooling and durability
- Excellent optics design with zero light above 90°
- Easy to install with hinged base
- Mounts over J-box or wire with conduit by knockouts on three sides of base



### **Specifications**

#### Electrical

**System power** ....... 45 W, 70 W Input voltage ...... 100-277 VAC or 347-480 VAC† **Power factor**.....>0.95 Lighting 

8,463 Lumens (70 W) **Beam angle** ......62° x 118°

Color temperature (CCT) ............. 3000 K<sup>†</sup>, 4000 K, 5000 K

**Color rendering (CRI)** .....>70

70 W...... B3-U1-G2

Performance

**Operating temperature**......32° F to  $+113^{\circ}$  F ( $-30^{\circ}$  C to  $+45^{\circ}$  C)

Ingress protection .....IP65

**UL location rating**...... Suitable for wet locations

**Life rating** ......>50,000 hours (L<sub>70</sub>)\*

at maximum operating conditions

Driver efficiency .....>90%

**Dimming** ...... Non-dimming

Construction

**Body** ...... Die cast aluminum and polycarbonate lens

**Finish** ...... Bronze or White† polyester powder coat

Documentation

Warranty...... 5-year limited and Performance+ Service Warranty<sup>a</sup>

Agency listings.......CE, DesignLights Consortium® (DLC) Premium, cULus,











- † Available by special order, please contact SloanLED for lead times.
- # Based on 5000 K data.
- § Order separate from luminaire. Field installed by others. 120-277 V only, not available in 347-480 V.
- $\P$  Can be used on Portland and Detroit fixtures when battery is mounted in Dry or Damp location ONLY. Not compliant for CEC BC use; 120-277 V only, not available in 347-480 V.
- $\Delta\,$  Performance+ Service Warranty applies to U.S. installations ONLY.

## Ordering information

Part number

Example: LCG-WPFC-70W-U-50K-BZ

LCG-WPFC-

Nom. wattage		
Code	Desc.	
45W	45 W	
70W	70 W	

Desc.
100-277 VAC
347-480 VAC†

Kelvin temp.				
Code	Desc.			
30K	3000 K <sup>†</sup>			
40K	4000 K			
50K	5000 K			

Desc.
Bronze
White <sup>†</sup>

#### Accessories

#### Photocontrol

Part number......601120§ Rated voltage ...... 120-277 VAC

Power consumption..... 2 W

**Activation level.....** 1.0~1.9 fc (10~20 lx) **ON** 2.8~7.5 fc (30~80 lx) OFF

**Ambient temperature**......-40° F to +158° F (-40° C to +70° C)

incidental ambient flashes

Battery backup¶

Part numb	er Wat	tage	Output @ 45 W‡	Output @ 70 W‡
EM-L0854	4 8	W	1,057	968
EM-L1654	16	W	2,114	1,936
EM-L2554	1 25	W	3,300	3,025



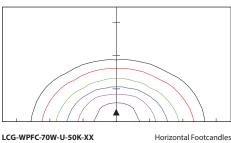


# **Portland**

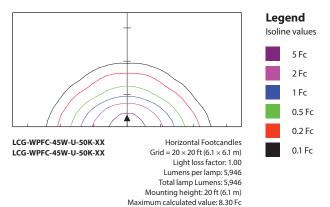
### LED full cutoff wall pack

#### **LCG-WPFC**

#### **Photometrics**



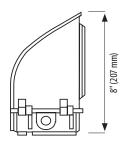
Horizontal Footcandles Grid =  $20 \times 20$  ft (6.1 × 6.1 m) Light loss factor: 1.00 Lumens per lamp: 8,463 Total lamp Lumens: 8,463 Mounting height: 20 ft (6.1 m) Maximum calculated value: 10.57 Fc Arrangement: Single

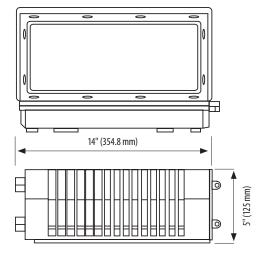


Arrangement: Single

#### **Dimensions**

LCG-WPFC-70W-U-50K-XX





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SloanLED.com



Visit product page for details.

Leaders in LED Technology 062

LED lighting system

701948



High Output

PAGE 1 OF 4

## Ordering information Luminaire

Standard

amminimit.

Example: 701948-5WTWT3-M150

701948-	Т	3-		
Product	Color temp. (CCT)	Body color	Power* (Low, Med, High power settings)	Factory preset power settings
	<b>4W</b> 4000 K <b>5W</b>	BZ Bronze (MH200 only)	<b>M75</b> 75 W power (36, 50, 64 W output)	<b>(blank)</b> High power setting (default)
	5000 K	WT White	M150 150 W power (76, 98, 119 W output)	<b>P1</b> Medium power setting
			MH200 200 W high output power (123, 141, 164 W output)	P2 Low power setting

## **Product description**

PDL3 MODUS sets a new standard in canopy/soffit lighting with its slim, lightweight, 1" (25 mm) design, optimized Type V symmetric distribution, included driver, and IP68 rating offering the industries best protection from dust and water intrusion.

- Standard power supply module includes three field-selectable lumen output power settings: High (default), Medium, and Low
- · Faster ROI, industry-leading 10-year warranty, and virtually maintenance-free
- Energy savings up to 250% over typical **HID** fixtures

#### **Driver enclosure**

Part number	Description
601106†	Canopy/soffit applications
601022-M	Surface mount applications

## **Dimming accessories**

Part number	Description
601092 <sup>§</sup>	Dimming controller for 75 W power supply
601093§	Dimming controller for 150 W power supply
601094 <sup>§</sup>	Dimming controller for 200 W power supply
701953	Occupancy sensor

#### Accessories

Part number	Description
401397	Shoebox mounting plate
401397-BZ	Shoebox mounting plate (Bronze)
402540	Mounting plate, 32" × 26" (813 × 660 mm)
401219	Blank plate (de-lamping / removing)
401219-BZ	Blank plate, Bronze (de-lamping/removing)
401398	Install template
410168	1-10 V dimming connector cable

## Replacement parts

Part number	Description
601071	75 W power supply
601072	150 W power supply
601073	200 W power supply

## Performance summary

Model		M75			M150			MH200	
Power settings	Low (36 W) <b>P2</b>	Med (50 W) <b>P1</b>	High (64 W) <b>DF</b> <sup>△</sup>	Low (76 W) <b>P2</b>	Med (98 W) <b>P1</b> <sup>∆</sup>	High (119 W) <b>DF</b>	Low (123 W) <b>P2</b>	Med (141 W) <b>P1</b>	High (164 W) <b>DF</b> △
Efficacy <sup>1</sup> (lm/W)	159.3	157.9	155.0	152.7	146.9	142.5	169.6	167.8	165.5
Delivered lumens <sup>1</sup>	5,670	7,869	9,951	11,540	14,800	16,880	20,700	23,210	26,040



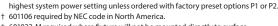












- ‡ 601022-M required where fixture will not be mounted directly to surface.
- § Dimming controller replaces the Power Module.
- Dimming controller box fits inside of all driver housings or mounting enclosures.

\* Driver and power controller included. Standard configuration: All models are shipped at the

- $\Delta$  All models are shipped at the highest system power setting unless ordered with factory preset options P1 or P2.



LED lighting system

701948



PAGE 2 OF 4

## **Product specifications**

#### Electrical

**Input voltage** ...... 100-277 VAC, 50-60 Hz

Product	Power setting	Lumens	Efficacy⁵
	<b>P2</b> – Low (36 W)	5,670	159.3 lm/W
M75	<b>P1</b> – Med. (50 W)	7,869	157.9 lm/W
	<b>DF</b> – High (64 W)‡	9,951	155.0 lm/W
	<b>P2</b> – Low (76 W)	11,540	152.7 lm/W
M150	<b>P1</b> – Med. (98 W) <sup>‡</sup>	14,800	146.9 lm/W
	<b>DF</b> – High (119 W)	16,880	142.5 lm/W
	<b>P2</b> – Low (123 W)	20,700	169.6 lm/W
MH200	<b>P1</b> – Med. (141 W)	23,210	167.8 lm/W
	<b>DF</b> – High (164 W) <sup>‡</sup>	26,040	165.5 lm/W

#### Lighting

Color rendering...... 70 CRI

Performance

#### **Operating temperature**

Product	Low	Med	High	
M75		400 C+- FF0 C	40°C+- F0°C	
M150	-40°C to 60°C	-40 C1055 C	-40° C to 50° C	
MH200		-40°C to 50°C	-40° C to 40° C	

Ingress protection ..... IP68

**UL location rating**...... Suitable for wet locations

Explosion proof<sup>†</sup> ...... ATEX zone 2 rated

DEMKO 18 ATEX 2033x II 3 G ec IIC T4 Gc

Reported:  $L_{70} > 60,000$  hours

Calculated:  $L_{70} > 150,000$  hours

MH200

Reported:  $L_{70} > 60,000$  hours Calculated:  $L_{70} > 175,000$  hours

**Dimming** ...... 1-10 VDC control on power supply\*

Construction

**Frame**...... Die cast aluminum

Heat plate ...... Aluminum

Finish ...... *M75 & M150* ...... White

**MH200** ...... Bronze or White Powder coated for extreme conditions

**Lens** ...... Tempered frosted lens

#### Mounting

**Fixture** ...... 4 self-drilling sheet metal screws

Documentation

Warranty...... 10-year limited

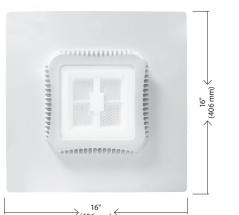
Agency listings......cULus, CE, DesignLights Consortium® (DLC) Premium,

ENEC, ATEX<sup>†</sup>, RoHS, Title 24 Compliant

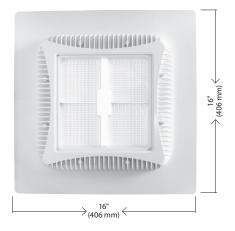
Files available ......LM-79, LM-80, IES

- \* Requires 1-10 V connector cable (P/N 410168).
- † ATEX certification for luminaire at 5000 K CCT only.
- ‡ All models are shipped at the highest system power setting unless ordered with factory preset options P1 or P2.
- § Based on 5000 K CCT data.

#### **Product dimensions**









LED lighting system

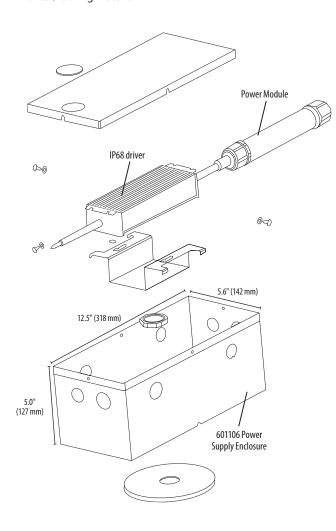
701948

## Canopy/Soffit Applications

Driver enclosure Order number: 601106

Included in kit: Power supply enclosure, gasket, and mounting hardware.†

- · Power supply enclosure allows water to pass through and out
- Gasket seals against canopy Eliminates need to seal installation with tar/roofing material



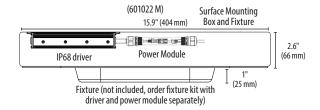
## **Surface Mounted Applications**

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Surface mounting enclosure Order number: 601022-M

Included in kit: SloanLED surface mounting box.<sup>†</sup>

· Mounts to: Solid flat surface, reinforced J-box

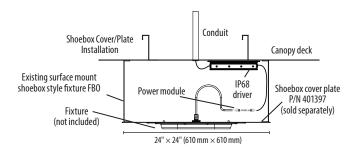


## **Shoebox Retrofit Applications**

Shoebox mounting plate

Order number: 401397 (White), 401397-BZ (Bronze)

401397 (shoebox plate – **ordered separately**) combined with any PDL3 luminaire will complete typical  $24 \times 24$  shoebox housing retrofits.<sup>†</sup>





<sup>\*</sup> Driver and power controller included. Standard configuration: All models are shipped at the highest system power setting unless ordered with factory preset options P1 or P2.

 $<sup>\ \ \, + \,\, \</sup>text{Fixture kit with driver and power module not included.} \, \text{Order separately}$ 

LED lighting system

701948

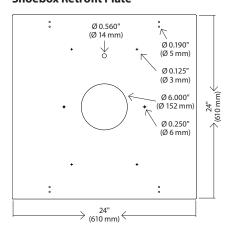
#### **Cover Plates**

- Shoebox Mounting Plate Required for mounting directly to an existing 2' × 2' (610 mm × 610 mm) shoebox. Option to cover footprint/stain when replacing a 2' × 2' (610 mm × 610 mm) shoebox.
- Large Mounting Plate Allows for mounting over an existing hole, up to 26.5" × 32" (673 mm × 813 mm). Also allows for the MODUS fixture to be mounted behind the mounting plate for a cleaner look. The plate has no mounting holes, allowing installers to choose hole size and quantity for screws or rivets.
- Blank Plate Covers the silhouette/stain and hole when removing a  $2' \times 2'$  (610 mm  $\times$  610 mm) shoebox fixture.

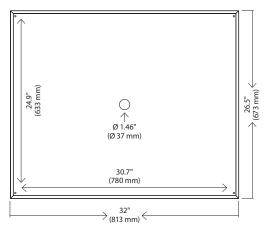
## **Product specifications**

Part number	Shoebox mounting plate	
	White401397	,
	Bronze 401397	'-BZ
	Large mounting plate	
	White 402540	)
	Blank plate	
	White401219	)
	Bronze401219	P-BZ
Material	Aluminum	
Finish	Bronze or White powder paint	
Dimensions		0 mm) square
	Mounting plate32"×2	26.5" (813 × 673 mm)
	Blank plate 24" (61	0 mm) square

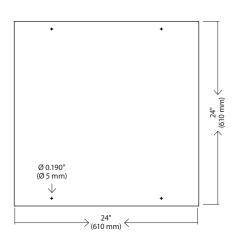
# 401397 – Mounting & Shoebox Retrofit Plate



402540 - Large Mounting Plate



401219 - Blank Plate



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#### ${\bf Sloan LED\, Head quarters}$

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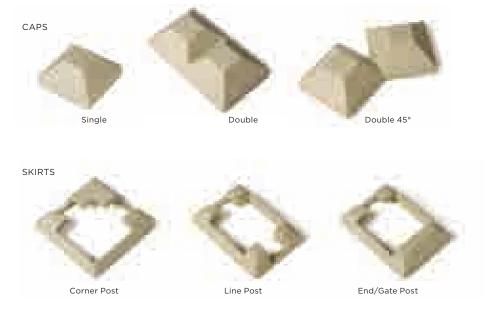
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#### SloanLED.com







# Caps and Skirts

Bufftech molded Sherwood and Allegheny fence have matching caps and skirts.

# Part II: Types and Quantities of Hazardous Substances and Polluting Materials Used, Stored or Generated On-Site

Please list the hazardous substances and polluting materials (including chemicals, hazardous materials, petroleum products, hazardous wastes and other polluting materials) which are expected to be used, stored or generated on-site. Quantities should reflect the maximum volumes on hand at any time. Attach additional pages if necessary to list all hazardous substances and polluting materials.

Common Name	CHEMICAL NAME (components)	Form	MAX QUANTITY ON HAND AT ONE TIME	TYPE OF STORAGE CONTAINERS
Unleaded Gasoline	(compensato)	LiQ	37,000 gallons	UGT
Diesel fuel		LiQ	27,000 gallons	UGT
	*****			
	KEY:			KEY:
	LiQ. = liquid			AGT = above ground tank
	P.LIQ = pressurized liquid			DM = drums
	S = solids			UGT = underground tank
	G = gas			Cy = cylinders
	PG = pressurized gas			CM = metal cylinders
				CW = wooden or composition
				container
				TP = portable tank

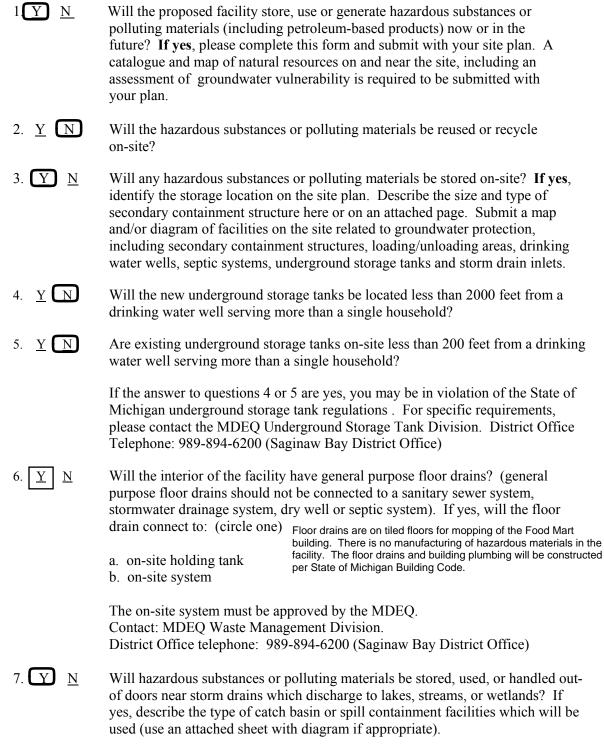
# **CHARTER TOWNSHIP OF UNION**

# SITE PLAN REVIEW HAZARDOUS SUBSTANCES REPORTING FORM

This form must be completed and submitted as part of the site plan for facilities which may use, store, or generate hazardous substances or polluting materials (including petroleum-based products)

	Name of business:		Krist Oil Company, Inc.		
	Name of business owner(s):		Krist Oil Company, Inc.		
	<b>,</b> ,		Krist Atanasoff		
			Stanley Atanasoff		
	Street and mailing address:		303 Selden Road		
			Iron River, MI 49935		
	Telephone:	906.265.6144			
	Fax:	906.265.4495			
	Email:	krist@kristoil.c	om 		
I affirm that the information submitted is accurate.					
	Owner(s) signature and date:		The there		
	Information compiled by:		December 30th, 2021		
			Krist C Atanasoff, Owner		
			Heath Revels, Project Manager		
			METCO		
			102 Enterprise Drive, Hillsboro, WI 54634		

#### Part 1: Management of Hazardous Substances and Polluting Materials



ce: Charter Township of Union Department of Public Works

# Planning Commission – Application Attachment Information Krist Oil Company, Inc. Proposed Krist Food Mart 4972 E. Pickard Road, Union Township, Michigan

Firm or Individual Who Prepared Site Plan Email: <a href="mailto:crichardson@geiconsultants.com">crichardson@geiconsultants.com</a>

**Tax Parcel ID Numbers:** 14-014-20-002-00, 14-014-20-003-00, 14-014-20-004-00, 14-014-20-007-00, 14-014-20-008-00, 14-014-20-009-00

# KRIST GAS STATION TRAFFIC IMPACT STUDY

Union Township, Michigan

**SEPTEMBER 10, 2021** 





2125 RIDGEWOOD DRIVE, SUITE 101 MIDLAND, MI 48642

#### **Notice and Disclaimer**

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- B. EXISTING TRAFFIC CONDITIONS
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#### REFERENCES

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#### **EXECUTIVE SUMMARY**

This report presents the results of a Traffic Impact Study (TIS) for the proposed commercial development in Union Township, Michigan. The project site is located in the southwest quadrant of the Isabella Road and Pickard Road (M-20) intersection, as shown on **Figure E1**. The proposed development includes the construction of a gas station and a convenience store. Access to the site is proposed via two driveways; right-in/right-out only access on Pickard Road (M-20) and full access on Isabella Road. As part of the site plan approval process, Union Township has required the completion of a Traffic Impact Study (TIS).



FIGURE E1: SITE LOCATION

The scope of this study was developed based on information provided by the developer, review of the study road network, and Fleis & VandenBrink's (F&V) knowledge of the study area, understanding of the development program, accepted traffic engineering practice and information published by the Institute of Transportation Engineers (ITE).

#### **BACKGROUND DATA**

F&V subconsultant Gewalt Hamilton Associates, Inc. (GHA) performed weekday 24-hour turning movement counts at the study intersection of Pickard Road (M-20) & Isabella Road on Tuesday, August 24, 2021. However, due to the impact of COVID-19, current traffic volume data is not representative of "typical" operations.



Therefore, pre-COVID (2018) historical traffic volume data were reviewed and adjustment factors were calculated in order to establish an adjusted existing 2021 baseline traffic volume for use in the study.

**Table E1: COVID Traffic Volume Adjustment Factors** 

Roadway Approach	AM Peak Hour	PM Peak Hour
Pickard Road/M-20 (EB)	+30.3%	+15.4%
Pickard Road/M-20 (WB)	+10.3%	+5.9%
Isabella Road (NB)	+2.6%	+4.9%
Isabella Road (SB) <sup>1</sup>	-	-

Collected 2021 traffic volume at the southbound approach of Isabella Road were found to be higher than expected traffic volume. Therefore, no adjustment factor was applied for that approach.<sup>1</sup>

#### **TRIP GENERATION**

The number of peak hour (AM and PM) and daily vehicle trips that would be generated by the proposed development was forecast based on data published by ITE in the *Trip Generation Manual*, 10<sup>th</sup> Edition. The proposed development project includes a gas station with 14 fueling positions and a 5,520 SF convenience store. The trip generation used in the analysis is summarized in **Table E2**.

**Table E2: Site Trip Generation** 

Land Use	ITE Code	Amount	nt Units Average Daily Traffic (vpd)		AM F	Peak Ho	ur (vph)	PM Pe	eak Hou	ır (vph)
	Code			Traffic (vpu)	In	Out	Total	In	Out	Total
Gas Station with Convenience Market	945	14	Fueling Positions	2,875	89	86	175	100	96	196
Pass-By	62	% AM, 56%	PM	1,783	55	54	109	55	55	110
Total	Total New Trips				33	33	66	43	43	86

Typical of retail or commercial activities, a portion of the site-generated trips are already present on the adjacent road network and are interrupted to visit the site. These trips are known as "pass-by" trips. These trips are therefore reduced from the total external trips generated by a study site. The percentage of pass-by trips used in this analysis was determined based on the rates published by ITE in the *Trip Generation Handbook*, 3<sup>rd</sup> *Edition*.

#### SITE TRIP DISTRIBUTION

The vehicular trips that would be generated by the proposed development were assigned to the study roads based on the proposed site access plan, the existing peak hour traffic patterns in the adjacent roadway network, and the methodologies published by ITE. The adjacent street traffic volumes were used to develop the trip distribution. It is assumed that the traffic in the AM are home-to-work based trips and PM are work-to-home based trips. The ITE trip distribution methodology also assumes that new trips will return to their direction of origin, whereas pass-by trips will enter and exit the development in their original direction of travel. The site trip distributions used in the analysis are summarized in **Table E3**.

**Table E3: Site Trip Distribution** 

New Trips			Pass-By Trips			
AM	PM	To/From	Via	Direction	AM	PM
12%	11%	North	Isabella Road (M-20)	Northbound	18%	19%
15%	17%	South	Isabella Road (M-20)	Southbound	14%	16%
40%	41%	East	Pickard Road	Eastbound	32%	35%
33%	31%	West	Pickard Road	Westbound	36%	30%
100%	100%		Total		100%	100%



#### **ANALYSIS SUMMARY**

The conclusions of this TIS are as follows:

#### 1. Existing Conditions

- The results of the existing conditions analysis indicate that all approaches and movements at the study intersections are currently operating at LOS D or better during the AM peak period.
- During the PM peak hour, the intersection of Pickard Road (M-20) & Isabella Road is currently operating
  at LOS F. A review of SimTraffic microsimulations indicate that the vehicle queues are adequately
  processed during each cycle, with no residual queuing.

#### 2. Future Conditions

The results of the future conditions analysis indicate that, with the addition of the site generated traffic, all approaches and movements at both site driveway intersections will operate well at LOS C or better during the AM and PM peak periods.

- In addition, all approaches and movements at the study intersection of Pickard Road (M-20) & Isabella Road will continue to operate in a manner similar to existing condition with minor increases in delays. The overall intersection delay is expected to increase by 0.3 to 3.8 seconds with the addition of site generated traffic volume, which will be indiscernible from daily fluctuations in intersection operations.
- The review of SimTraffic simulations shows that the 95<sup>th</sup> percentile queue length on the eastbound approach of the signalized intersection is expected to be 239 feet during the PM peak period which extends past the W. Site Drive. However, the upstream blockage at the W. Site Drive is projected at 3% of the PM peak hour, or less than 2 minutes, which is not significant.
- 3. **Auxiliary Lane Analysis:** The results of auxiliary turn lane analysis indicate that, a right turn taper is recommended at both site driveways on Pickard Road (M-20) and Isabella Road.

#### RECOMMENDATIONS

Provide right-turn lane tapers at both site driveways.



#### 1 Introduction

This report presents the results of a Traffic Impact Study (TIS) for the proposed commercial development in Union Township, Michigan. The project site is located in the southwest quadrant of the Isabella Road and Pickard Road (M-20) intersection, as shown on **Figure 1**. The proposed development includes the construction of a gas station and convenience store. Access to the site is provided via two driveways; right-in/right-out only access on Pickard Road (M-20) and full access on Isabella Road. Pickard Road (M-20) is under the jurisdiction of the Michigan Department of Transportation (MDOT) and Isabella Road is under the jurisdiction of the Isabella County Road Commission (ICRC). As part of the site plan approval process, Union Township has required the completion of a Traffic Impact Study (TIS).

The purpose of this study is to identify the traffic related impacts, if any, of the proposed development project on the adjacent road network. Specific tasks undertaken for this study include the following:

#### 1. Study Area

- a. Conduct a site visit and collect a field inventory of the existing geometries, lane use, and traffic control at the study intersections.
- b. Provide a description of the study area including: intersection and roadway geometries, speed limits, functional classifications and traffic volume data (where available). In addition, a study area site map showing the site location and the study intersections will also be provided.

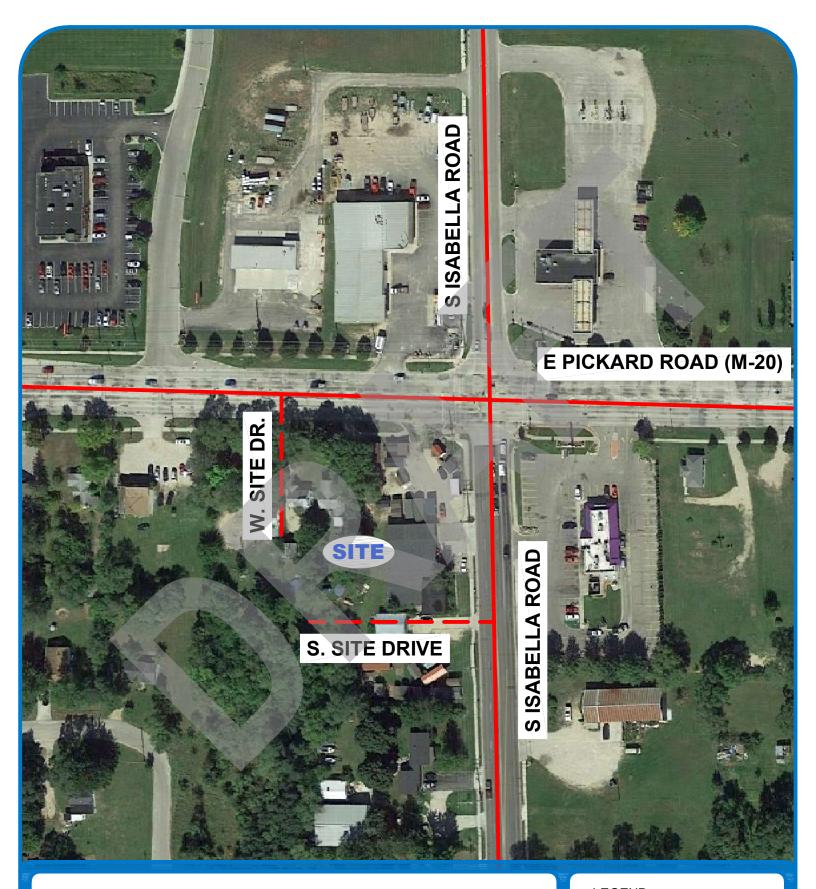
#### 2. Proposed Land Use

a. Obtain and review the proposed site plan which includes the proposed land uses, densities, and desired site access locations. A description of the current and proposed land use, gross and leasable floor area will be accompanied with a complete project site plan (with buildings identified as to proposed use).

#### 3. Existing Conditions

- a. Provide an analysis of the traffic-related impacts of the proposed development at the following study intersections:
  - Isabella Road & Pickard Road (M-20)
  - Isabella Road & Proposed Site Drive
  - Pickard Road (M-20) & Proposed Site Drive
- b. Due to the impact of COVID-19, current traffic volume data is not representative of "typical" operations. Therefore, the data collection necessary for this study is proposed as follows:
  - Collect 24-hour turning movement counts at the Isabella Road & Pickard Road (M-20) study intersection.
  - Obtain existing available traffic count data from the Isabella County Road Commission (ICRC), and Michigan Department of Transportation (MDOT) Traffic Data Management System (TDMS).
  - Review available historical traffic count data at the study intersections and adjacent roadways previously performed by MDOT, ICRC, and others.
  - Compare the existing turning movement count data to historical traffic volumes collected in the area to determine the adjusted 2021 turning movement counts at the study intersection.
- c. Calculate the **Existing** vehicle delays, LOS, and vehicle queues at the study intersections during the AM and PM. The analysis will be performed at each of the study intersections. Intersection analysis shall include LOS determination for all approaches and movements. The LOS will be based on the procedures outlined in the HCM 6th Edition, the latest edition of Transportation Research Board's Highway Capacity Manual.







# FIGURE 1 SITE LOCATION MAP

KRIST - GAS STATION TIS - UNION CHARTER TOWNSHIP, MI

**LEGEND** 



SITE LOCATION



#### 4. Trip Generation

- a. Forecast the number of weekday, daily, AM and PM peak hour vehicle trips that would be generated by the proposed development for the proposed development based on data published by the Institute of Transportation Engineers (ITE) in Trip Generation, 10th Edition and/or local development data as approved for use in the study by the ICRC and MDOT.
- b. A table will be provided in the report outlining the categories and quantities of land uses, with the corresponding trip generation rates or equations, and the resulting number of trips.

#### 5. Trip Distribution and Traffic Assignment

- a. Assign the trips that would be generated by the proposed development to the adjacent road network based on existing traffic patterns. The distribution of the estimated trip generation to the adjacent street network shall be included in the report and the basis will be explained. The distribution percentages with the corresponding volumes will be provided in a graphical format.
- b. Combine the site-generated traffic assignments with the background traffic forecasts to establish the Future weekday AM, and PM hour traffic volumes.

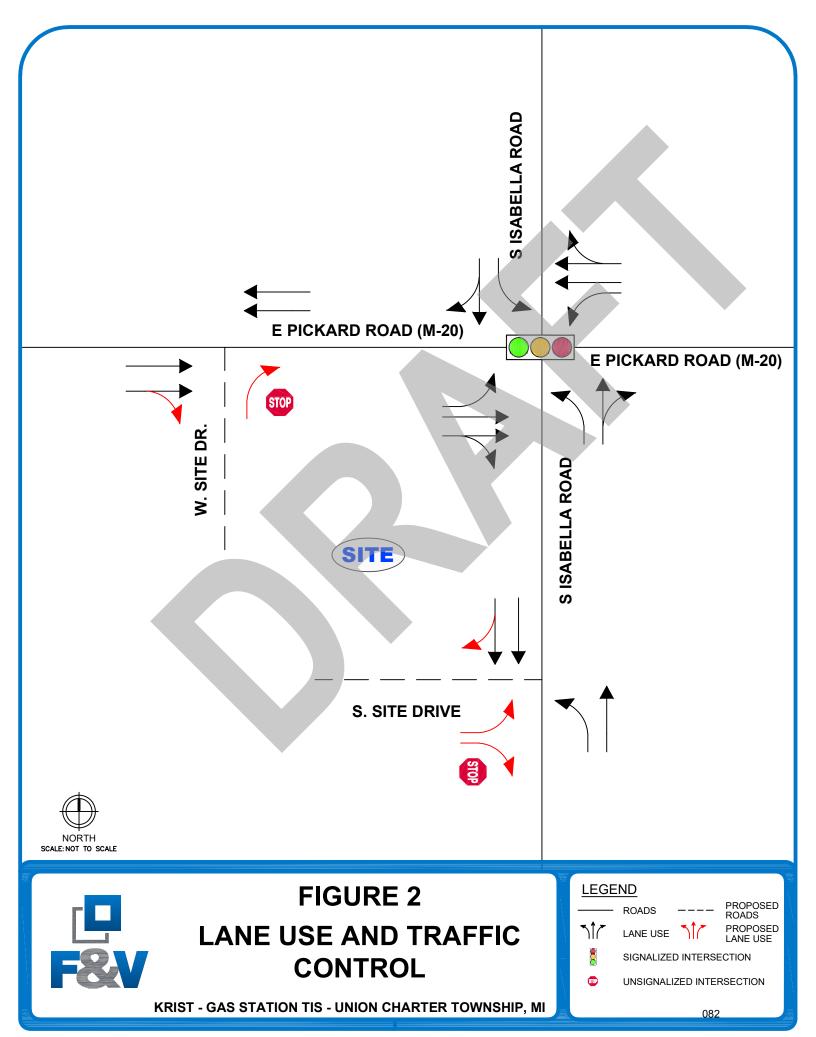
#### 6. Future Conditions

- a. Calculate the Future (with development) vehicle delays, LOS, and vehicle queues at the study intersections during the peak hours (AM and PM) of the adjacent street. Intersection analysis shall include LOS determination for all approaches and movements. The LOS will be based on the procedures outlined in the HCM 6th Edition, the latest edition of Transportation Research Board's Highway Capacity Manual.
- b. Intersection analysis shall include LOS determination for all approaches and movements. The LOS will be based on the procedures outlined in the HCM 6th Edition, the latest edition of Transportation Research Board's Highway Capacity Manual.
- c. Identify improvements (if any) for the study road network that would be required to accommodate the site-generated traffic volumes.

#### 7. Access Management

 Evaluate the MDOT and ICRC auxiliary lane standards for the determination of need for right-turn lanes at the Site Driveway intersections.





#### 2 BACKGROUND DATA

#### 2.1 EXISTING ROAD NETWORK

The lane use and traffic control at the study intersections are shown on **Figure 2** and the study roadways are further described below. For the purpose of this study, all minor streets and driveways are assumed to have an operating speed of 25 miles per hour (mph), unless otherwise noted.

<u>Pickard Road (M-20)</u> runs in the east and west directions adjacent to the north side of the site. The study section of Pickard Road (M-20) is classified as a *Major Arterial* and is under the jurisdiction of MDOT. The roadway, in the vicinity of the development, has a typical five-lane cross-section, with two lanes in each direction and a center left-turn lane and has a posted speed limit of 45 mph. Pickard Road adjacent to the project site has an Average Annual Daily Traffic (AADT) of approximately 17,650 vehicles per day (MDOT 2018).

<u>Isabella Road</u> runs in the north and south directions adjacent to the east side of the site. The Isabella Road is under jurisdiction of ICRC and classified as a *Minor Arterial* with a posted speed limit of 45 mph. The study section of Isabella Road has a typical four-lane cross-section, with two lanes in each direction. At the intersection with Pickard Road a left-turn lane, and a shared through-right turn lane is provided. Isabella Road adjacent to the project site has an AADT of approximately 11,500 vehicles per day (MDOT 2018).

#### 2.2 EXISTING TRAFFIC VOLUMES

F&V subconsultant Gewalt Hamilton Associates, Inc. (GHA) performed weekday 24-hour turning movement counts at the study intersection of Pickard Road (M-20) & Isabella Road on Tuesday, August 24, 2021. Due to the impact of COVID-19, current traffic volume data is not representative of "typical" operations. Therefore, the following methodologies were followed to establish an adjusted baseline traffic volume.

- Pre-COVID (2018) historical traffic volume data were collected from the MDOT Transportation Data Management System.
- An annual background growth rate of 0.5% was applied to the 2018 data collected to determine the expected 2021 traffic volumes.
- A COVID adjustment factor was calculated by comparing the expected 2021 traffic volumes to the actual 2021 traffic volumes.

The calculated COVID adjustment factors are summarized in **Table 1**.

**Table 1: COVID Traffic Volume Adjustment Factors** 

Roadway Approach	AM Peak Hour	PM Peak Hour
Pickard Road/M-20 (EB)	+30.3%	+15.4%
Pickard Road/M-20 (WB)	+10.3%	+5.9%
Isabella Road (NB)	+2.6%	+4.9%
Isabella Road (SB)1	-	-

F&V also collected an inventory of existing lane use and traffic controls at the study intersections, as shown in the attached **Figure 2.** Additionally, F&V obtained the current traffic signal timing information from MDOT. The peak periods for the adjacent streets were observed to generally occur between 7:45 AM to 8:45 AM and 3:45 PM to 4:45 PM. The traffic volume data are attached in **Appendix A**, and the existing peak hour traffic volumes are shown on the attached **Figure 3**.

<sup>&</sup>lt;sup>1</sup> Collected 2021 traffic volume at the southbound approach of Isabella Road were found to be higher than expected 2021 traffic volume. Therefore, no adjustment factor was applied for that approach.



#### 3 Existing Conditions

#### 3.1 EXISTING OPERATIONS

The existing AM and PM peak hour vehicle delays and Levels of Service (LOS) were calculated at the study intersection using Synchro traffic analysis software. The results of the analysis of existing conditions were based on the existing lane use and traffic control shown on **Figure 2**, the existing traffic volumes shown on **Figure 3**, and the methodologies presented in the Highway Capacity Manual (HCM) 6<sup>th</sup> Edition.

Descriptions of LOS "A" through "F", as defined in the HCM, are provided in **Appendix B** for signalized and unsignalized intersections. Typically, LOS D is considered acceptable, with LOS A representing minimal delay, and LOS F indicating failing conditions. Microsimulations were also conducted at the study intersections using SimTraffic to further evaluate the network performance. The results of the analysis of existing conditions are presented in **Appendix B** and are summarized in **Table 2**. Microsimulations were also conducted at the study intersections using SimTraffic to further evaluate the network performance.

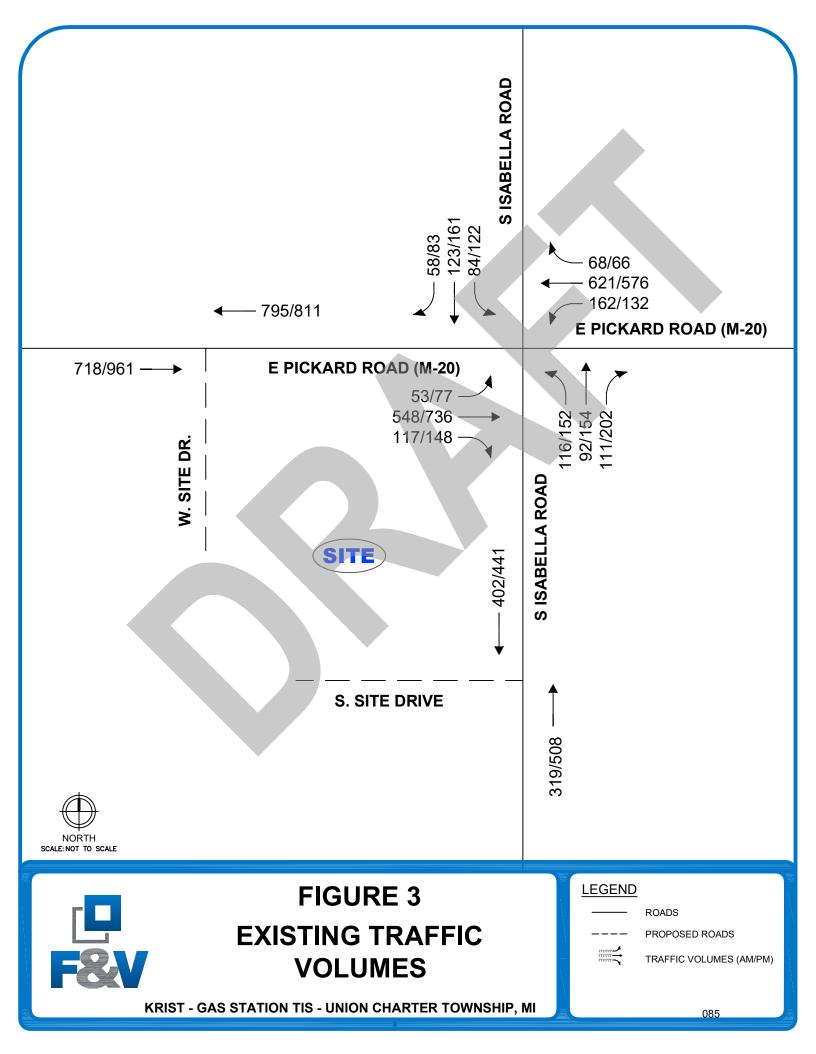
**Existing Conditions** AM Peak **PM Peak** Intersection Approach Control Delay Delay LOS LOS (s/veh) (s/veh) **EBL** 25.1 C 38.1 D 41.6 D 114.7 F **EBT EBR** 41.8 D 114.6 27.8 C 40.7 **WBL** D **WBT** 41.8 D D 52.1 Pickard Road **WBR** (M-20) & 41.7 D D Signalized 51.9 Isabella Road NBL 46.7 D 75.3 Ε F **NBTR** 52.1 D 159.5 SBL 89.7 F 49.6 D F SBTR 47.5 D 100.6 42.3 D 95.7 F Overall

**Table 2: Existing Intersection Operations** 

The results of the existing conditions analysis indicate that all approaches and movements at the study intersection are currently operating at LOS D or better during the AM peak period.

During the PM peak hour, the overall intersection of Pickard Road (M-20) & Isabella Road is currently operating at LOS F with multiple approaches and movements operating at LOS F. A review of the microsimulations indicate queuing on all approaches, however, these were observed to dissipate and were not present throughout the peak periods.





#### 4 SITE TRIP GENERATION

The number of peak hour (AM and PM) and daily vehicle trips that would be generated by the proposed development was forecast based on data published by ITE in the *Trip Generation Manual*, 10<sup>th</sup> Edition. The proposed development project includes a gas station with 14 fueling positions with four semi-trailer diesel fueling area, and an approximately 5,520 SF convenience store. The trip generation used in the analysis is summarized in **Table 3**.

AM Peak Hour (vph) ITE Average Daily PM Peak Hour (vph) **Land Use** Units **Amount** Code Traffic (vpd) In Out Total Out Total Gas Station with 96 945 14 **VFP** 89 86 175 100 196 2,875 Convenience Market 62% AM, 56% PM 1,783 54 109 55 55 110 Pass-By 55 **Total New Trips** 1.092 33 33 66 43 43 86

**Table 3: Site Trip Generation** 

As is typical of commercial developments, a portion of the trips generated are from vehicles on the adjacent roadway and will pass the site on the way from an origin to an ultimate destination. Therefore, not all traffic at the site driveways are necessarily new traffic added to the street system. This percentage of the trips generated by the development are considered "pass-by" trips and do not add new traffic to the adjacent street system. These trips are therefore reduced from the total external trips generated by a study site. The percentage of pass-by trips used in this analysis was determined based on the rates published by ITE in the *Trip Generation Handbook*, 3<sup>rd</sup> Edition.

#### 5 SITE TRIP DISTRIBUTION

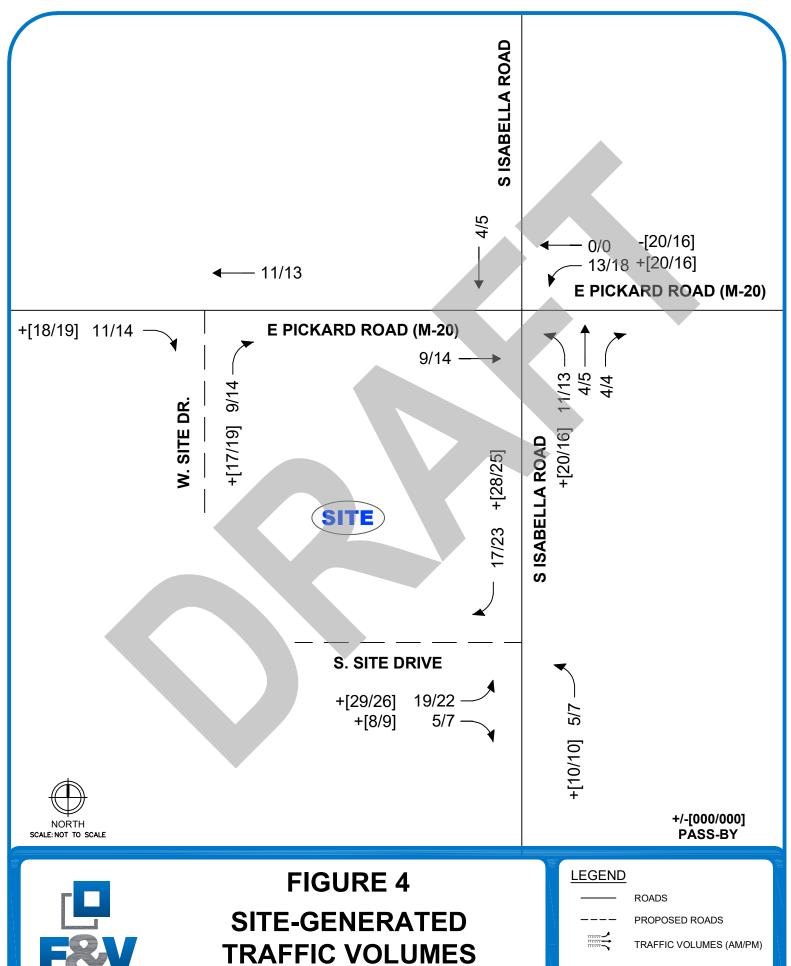
The vehicular trips that would be generated by the proposed development were assigned to the study roads based on the proposed site access plan, the existing peak hour traffic patterns in the adjacent roadway network, and the methodologies published by ITE. The adjacent street traffic volumes were used to develop the trip distribution. It is assumed that the traffic in the AM are home-to-work based trips and PM are work-to-home based trips. The ITE trip distribution methodology also assumes that new trips will return to their direction of origin, whereas pass-by trips will enter and exit the development in their original direction of travel. The site trip distributions used in the analysis are summarized in **Table 4**.

**New Trips** Pass-By Trips PM AM PM AM To/From Via **Direction** 12% 11% 18% 19% North Isabella Road (M-20) Northbound 15% 17% Isabella Road (M-20) Southbound 14% 16% South 40% 41% East Pickard Road Eastbound 32% 35% 33% 31% Pickard Road Westbound 36% 30% West 100% 100% Total 100% 100%

**Table 4: Site Trip Distribution** 

The vehicular traffic volumes shown in **Table 3** were distributed to the roadway network according to the distribution shown in **Table 4**. The proposed development is anticipated to be completed in 2022, therefore, the existing analysis was assumed equal to the buildout year (2022) conditions, therefore the site generated trips shown on **Figure 4** were added to the existing traffic volumes shown on **Figure 3** to calculate the future peak hour traffic volumes with the proposed development, as shown on **Figure 5**.

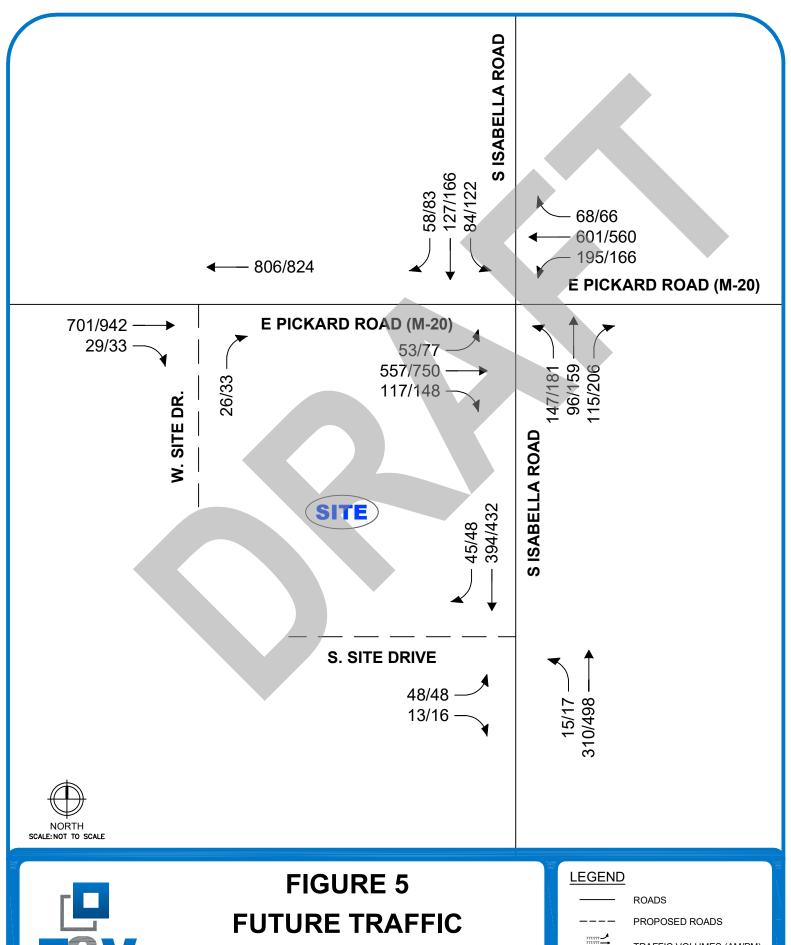






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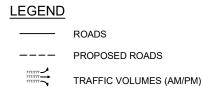
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# **VOLUMES**

KRIST - GAS STATION TIS - UNION CHARTER TOWNSHIP, MI



#### 6 FUTURE CONDITIONS

#### **6.1 FUTURE OPERATIONS**

Future peak hour vehicle delays and LOS with the proposed development were calculated based on the future lane use shown on **Figure 2**, the proposed site access plan, the future traffic volumes shown on **Figure 5**, and the methodologies presented in the HCM. The results of the future conditions analysis are presented in **Appendix C** and are summarized in **Table 5**.

**Future Conditions Difference Existing Conditions AM Peak PM Peak AM Peak AM Peak** PM Peak **PM Peak** Intersection Control **Approach** Delay Delay Delay Delay Delay Delay LOS LOS LOS LOS LOS LOS (s/veh) (s/veh) (s/veh) (s/veh) (s/veh) (s/veh) **EBL** 25.1 С 38.1 D 24.9 C 39.0 D -0.20.9 F **EBT** 41.6 D 114.7 42.3 D 120.4 F 0.7 5.7 F D **EBR** 41.8 D 114.6 42.4 120.2 E 0.6 \_ 5.6 \_ **WBL** 27.8 С 40.7 D 29.1 47.3 D 1.3 6.6 C \_ -**WBT** 52.1 D 50.5 -1.6 41.8 D 40.5 D D -1.3\_ Pickard Road **WBR** 41.7 51.9 D 40.4 D 50.3 -1.3 -1.6 (M-20) & Signalized D D Isabella Road **NBL** 46.7 D 75.3 Ε 51.2 D 93.0 F 4.5 17.7 \_  $E \rightarrow F$ **NBTR** 52.1 D 159.5 F 53.3 D 171.5 E 1.2 \_ 12.0 **SBL** 49.6 D 89.7 F 50.1 D 67.8 E 0.5 \_ -21.9  $F \rightarrow E$ F F SBTR 47.5 D 100.6 48.1 D 106.7 0.6 6.1 -F Overall 42.3 D 95.7 42.6 D 99.5 F 0.3 \_ 3.8 \_ Pickard Road **WBR** Free Stop N/A (M-20) & N/A (Minor) **NBR** 11.9 В 12.7 В W. Site Dr. **EBL** С Isabella Road 15.5 9.5 Α Stop N/A & **EBR** 10.1 В 21.2 С N/A (Minor) S. Site Dr. NBL 8.6 Α 11.1

**Table 5: Future Intersection Operations** 

The results of the future conditions analysis indicate that, with the addition of the site generated traffic, all approaches and movements at both site driveway intersections will operate well at LOS C or better during AM and PM peak periods.

In addition, all approaches and movements at the study intersection of Pickard Road (M-20) & Isabella Road will continue to operate in a manner similar to existing conditions with minor increases in delays. The overall intersection delay is expected to increase by 0.3 to 3.8 seconds with the addition of site generated traffic volumes, which will be indiscernible from daily fluctuations in traffic operations. Review of SimTraffic network simulations also indicates that the intersection is expected to operate in a manner similar to existing conditions.

The W. Site Drive is located approximately 225 feet west of the signalized intersection of Pickard Road (M-20) & Isabella Road. The review of SimTraffic simulations shows that the 95<sup>th</sup> percentile queue length on the eastbound approach is expected to be 239 feet during the PM peak period which extends past the W. Site Drive. The upstream blockage at the W. Site Drive is projected at 3% of the PM peak hour, or less than 2 minutes, which is not significant.

#### 7 ACCESS MANAGEMENT

#### 7.1 AUXILIARY LANE ANALYSIS

The MDOT Geometric Design Guidance Section 1.1.4 was utilized in order to determine where right-turn lanes and tapers shall be required. Isabella Road has a left-turn lane at the S. Site Drive and the Pickard Road (M-20) site drive intersection is a proposed right-in/right-out only driveway. Therefore, the left-turn lane warrants



were not evaluated. The results of the analysis are summarized in **Table 6** and the standards used in this analysis are included in **Appendix D**.

**Table 6: Turn Lane Warrant Analysis Summary** 

Intersection	Right-Turn Lane	Right-turn Taper	Recommendation
Isabella Road & S. Site Drive	No	Yes	Right-Turn Taper
Pickard Road (M20) & W. Site Drive	No	Yes	Right-Turn Taper

#### 8 CONCLUSIONS

The conclusions of this TIS are as follows:

#### 4. Existing Conditions

- The results of the existing conditions analysis indicate that all approaches and movements at the study intersections are currently operating at LOS D or better during the AM peak period.
- During the PM peak hour, the intersection of Pickard Road (M-20) & Isabella Road is currently operating
  at LOS F. A review of SimTraffic microsimulations indicate that the vehicle queues are adequately
  processed during each cycle, with no residual queuing.

#### 5. Future Conditions

The results of the future conditions analysis indicate that, with the addition of the site generated traffic, all approaches and movements at both site driveway intersections will operate well at LOS C or better during the AM and PM peak periods.

- In addition, all approaches and movements at the study intersection of Pickard Road (M-20) & Isabella Road will continue to operate in a manner similar to existing condition with minor increases in delays. The overall intersection delay is expected to increase by 0.3 to 3.8 seconds with the addition of site generated traffic volume, which will be indiscernible from daily fluctuations in intersection operations.
- The review of SimTraffic simulations shows that the 95<sup>th</sup> percentile queue length on the eastbound approach of the signalized intersection is expected to be 239 feet during the PM peak period which extends past the W. Site Drive. However, the upstream blockage at the W. Site Drive is projected at 3% of the PM peak hour, or less than 2 minutes, which is not significant.
- 6. **Auxiliary Lane Analysis:** The results of auxiliary turn lane analysis indicate that, a right turn taper is recommended at both site driveways on Pickard Road (M-20) and Isabella Road.

#### 9 RECOMMENDATIONS

1. Provide right-turn lane tapers at both site driveways.





**BACKGROUND INFORMATION** 



## Appendix B

## **EXISTING TRAFFIC CONDITIONS**

## **Appendix C**

## **FUTURE TRAFFIC CONDITIONS**



## WARRANTS SUMMARY

## KRIST OIL COMPANIES

## **KRIST FOOD MART**

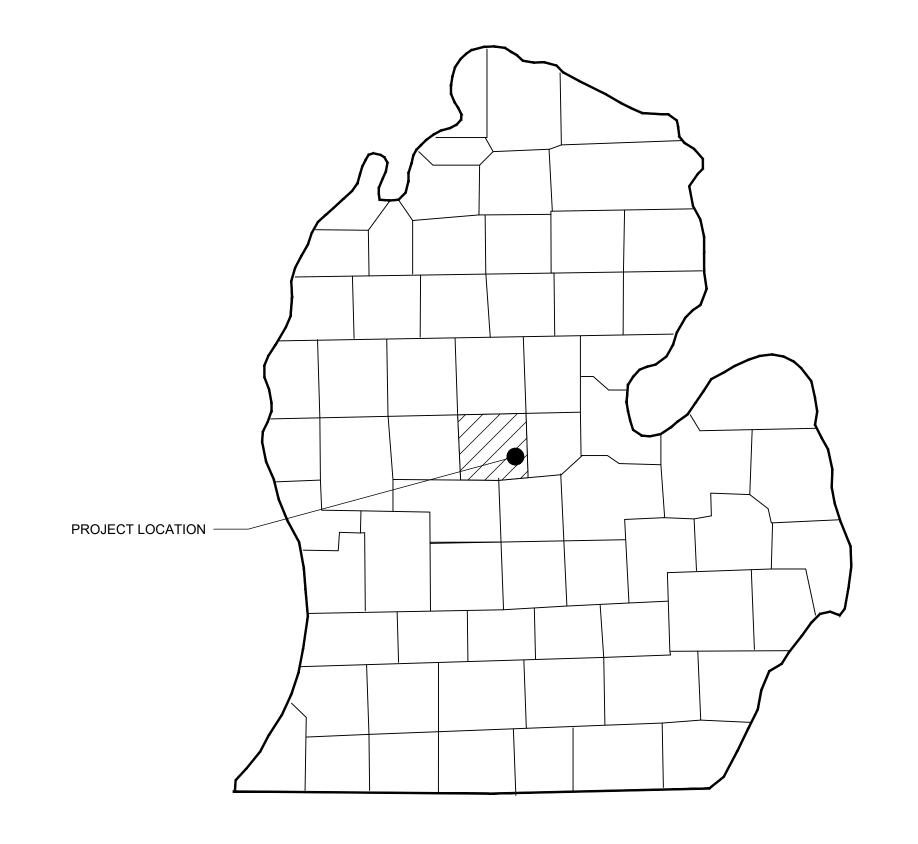
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## UNION TOWNSHIP, MICHIGAN

**GEI PROJECT NO.: 1509480** 







Sheet No.	Drawing No.	Description
1	01-G-01	COVER SHEET
2	02-C-01	EROSION CONTROL PLAN
3	02-C-02	EXISTING CONDITIONS AND REMOVAL PLAN
4	02-C-03	SITE PLAN
5	02-C-04	GRADING PLAN
6	02-C-05	UTILITY AND STORM WATER MANAGEMENT PLAN
7	02-C-06	DRAIN TILE / SANITARY SEWER PROFILE VIEW
8	02-C-07	DETENTION POND DETAILS
9	02-C-08	STORM WATER CALCULATIONS - DETENTION POND
10	02-C-09	ADJACENT PROPERTY OWNER INFORMATION
11	02-C-10	PHOTOMETRIC PLAN
12	02-L-01	LANDSCAPE PLAN
13	02-L-02	PLANT LISTS & DETAILS
14	02-A-01	BUILDING ELEVATIONS
15	02-A-02	CANOPY ELEVATIONS AND SIGN DETAILS
16	02-A-03	FLOOR PLAN
17	99-D-01	STANDARD DETAILS
18	99-D-02	STANDARD DETAILS
19	99-D-03	STANDARD DETAILS
Appendix		
		EXISTING TOPOGRAPHY
		EASEMENT SHEET

KRIST OIL COMPANIES KRIST ATANASOFF 303 SELDEN ROAD IRON RIVER, MI 49935 906.265.6144

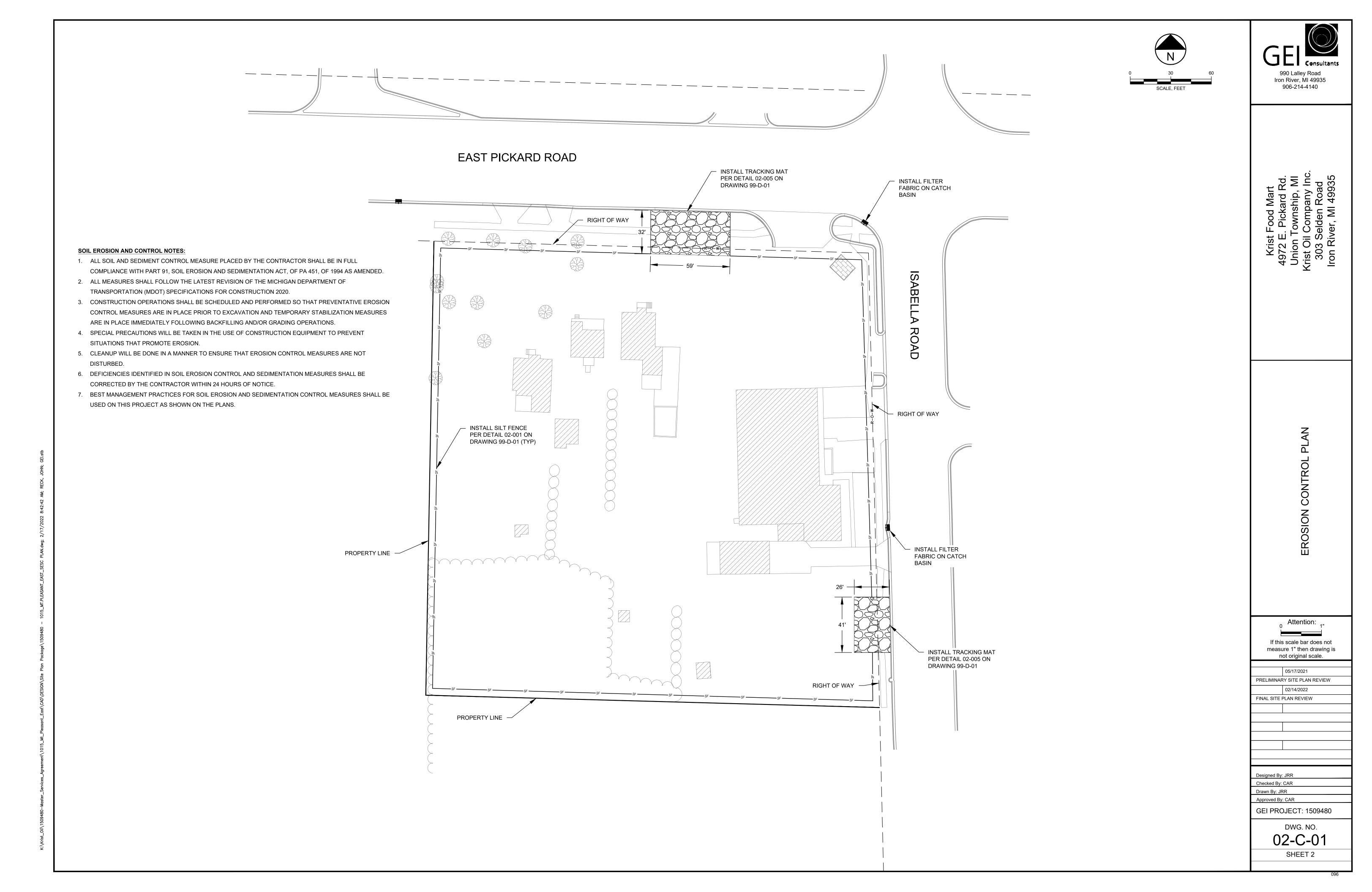
GEI CONSULTANTS OF MICHIGAN, P.C. CRAIG A. RICHARDSON, P.E. 990 LALLEY ROAD IRON RIVER, MI 49935 906.214.4151

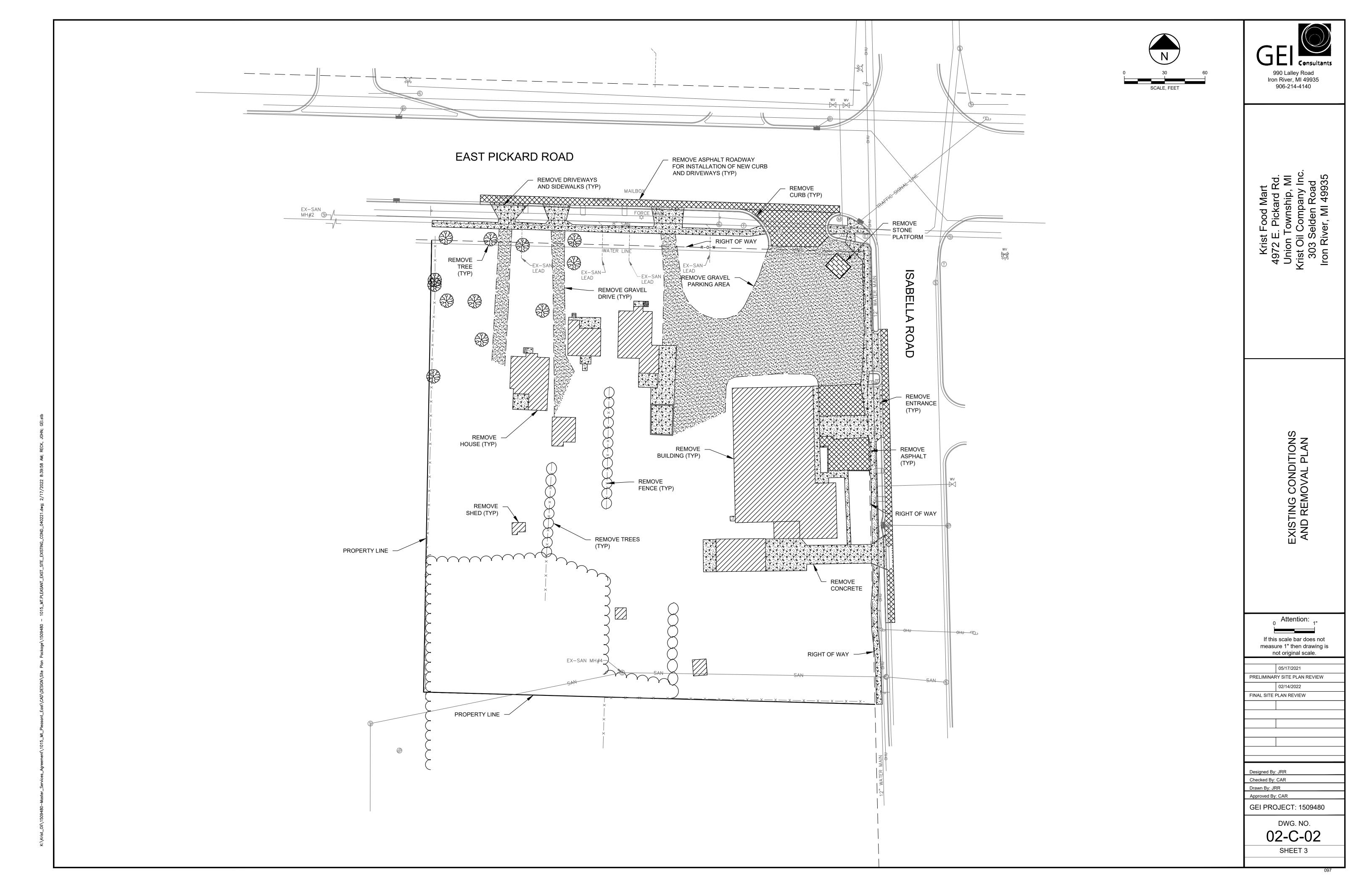
#### DESCRIPTION PREPAREI

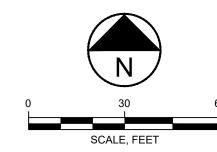
A PARCEL OF LAND IN THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 14, T.14 N.-R.4 W., UNION TOWNSHIP, ISABELLA COUNTY, MICHIGAN DESCRIBED AS FOLLOWS: COMMENCING AT THE NORTHEAST CORNER OF SAID SECTION; THENCE S.01°-23'-34"E., ON AND ALONG THE EAST LINE OF SAID SECTION, 396.51 FEET; THENCE N.88°-26'-02"W., PARALLEL WITH THE NORTH LINE OF SAID SECTION, 368.78 FEET; THENCE N.01°-01'-58"E., ON A PREVIOUSLY SURVEYED AND DESCRIBED LINE, 396.00 FEET; THENCE S.88°-26'-02"E., ON AND ALONG SAID NORTH SECTION LINE, 352.00 FEET BACK TO THE POINT OF BEGINNING, CONTAINING 3.28 ACRES OF LAND AND BEING SUBJECT TO HIGHWAY USE OF THE NORTHERLY 60.00 FEET AND THE EASTERLY 33.00 FEET THEREOF AND ALSO BEING SUBJECT TO AND TOGETHER WITH ANY OTHER EASEMENTS, RESTRICTIONS OR RIGHTS OF WAY RECORD.

	-		DWG. NO.
			01-G-01
			01-0-01
	02/14/2022	FINAL SITE PLAN REVIEW	
	05/17/2021	PRELIMINARY SITE PLAN REVIEW	

K:\Krist\_Oil\1509480-Master\_Services\_Agreement\1015\_Mt\_Pleasant\_East\CAD\SHEETS\1509480-1015-G\_1\_Covet940221







NOTES:

ZONING TYPE: B-7, RETAIL AND SERVICE HIGHWAY BUSINESS DISTRICT

REQUIRED SETBACKS: FRONT YARD: 15 FEET SIDE YARD: 10 FEET REAR YARD: 10 FEET

PARKING SPACES REQUIRED:
GAS/FILLING STATION - 1.5/PUMP
7 PUMPS; 1.5 X 7 = 10.5 = 11 SPACES
CONVENIENCE STORE - 1/200 SFT UFA
4,620 SFT / 200 = 23.1 = 23 SPACES
EMPLOYEE PARKING - 1/EMPLOYEE
3 EMPLOYEES = 3 SPACES
TOTAL SPACES REQUIRED
11 + 23 + 3 = 37 SPACES
TOTAL SPACES PROVIDED = 43 SPACES

NUMBER OF BARRIER FREE SPACES: 2 NUMBER OF VAN-ACCESSIBLE SPACES: 1

PROPERTY COVERAGE: 142,880 SFT LOT COVERAGE: 83,625 SFT OPEN SPACE: 33,368 SFT

GROSS FLOOR AREA: 5,520 SFT NET FLOOR AREA: 4,620 SFT

INTERNAL SIDEWALK ACCESS WILL BE MAINTAINED YEAR-ROUND, INCLUDING WINTER PLOWING.

PUMPS WILL NOT HAVE ANY TYPE OR KIND OF VIDEO SCREEN.

E - ELECTRIC VEHICLE CHARGING STALL

TYPE OF CONSTRUCTION - COMBUSTIBLE, 5B



1972 E. Pickard Rd. Jnion Township, MI ist Oil Company Inc. 303 Selden Road

ITE PLAN

O Attention: 1"

If this scale bar does not measure 1" then drawing is not original scale.

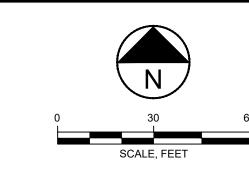
05/17/2021
PRELIMINARY SITE PLAN REVIEW

02/14/2022
FINAL SITE PLAN REVIEW

Designed By: JRR
Checked By: CAR
Drawn By: JRR
Approved By: CAR
GEI PROJECT: 1509480

DWG. NO.
02-C-03
SHEET 4

098





1972 E. Pickard Rd. Jnion Township, MI ist Oil Company Inc. 303 Selden Road

ADING PLAN

Attention: 1"

measure 1" then drawing is

not original scale.

05/17/2021

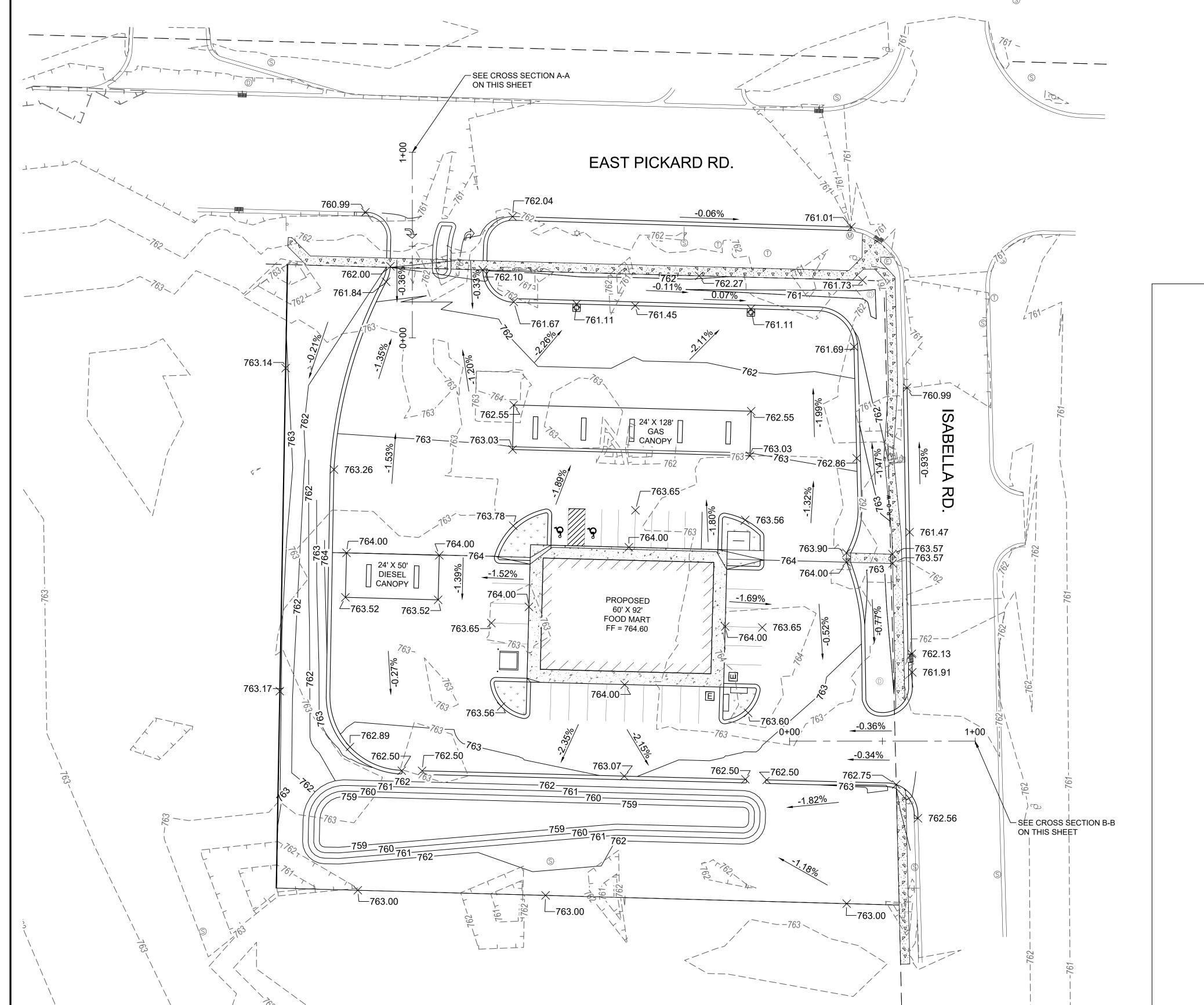
PRELIMINARY SITE PLAN REVIEW

02/14/2022

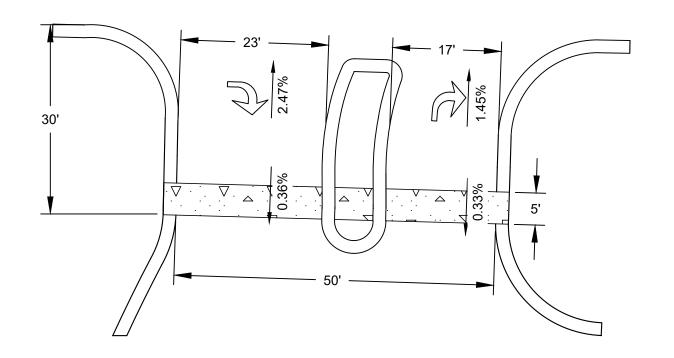
FINAL SITE PLAN REVIEW

Designed By: JRR
Checked By: CAR
Drawn By: JRR
Approved By: CAR
GEI PROJECT: 1509480

DWG. NO. **02-C-04**SHEET 5



## EAST PICKARD RD. ENTRANCE PLAN VIEW



## EAST PICKARD RD. ENTRANCE

770		770
RIGHT-OF-WAY	CONCRETE SIDEWALK	- 1
760 + 0.17% -0.29 PROPOSED - GROUND	2.17 % \_EX	KISTING ROUND
750	0.50	750 1+00
0+00	0+50	1+00
	SS SECTION A-A	1+00

### ISABELLA RD. ENTRANCE

_	<u> </u>	
770 -		770
110	RIGHT-OF-WAY -	170
	- 0.90% -0.29%	2.48%
760 -	1	760
700	PROPOSED —	EXISTING
	GROUND	GROUND
750 -		750
0+	00 0+	50 1+00 T
	CROSS SI	ECTION B-B
		SCALE: NTS

# STORM WATER MANAGEMENT PLAN:

- TOTAL SITE DRAINAGE AREA = 2.55 ACRES NORTH PARKING AREA DRAINING TO MDOT = 1.02 ACRES SOUTH PARKING AREA DRAINING TO COUNTY = 1.53 ACRES
- STORM = 6,534 CFT • TOTAL STORAGE VOLUME REQUIRED = 4,007 CFT
- TOTAL STORAGE PROVIDED = 6,952 CFT

NORTH PARKING AREA - MDOT PERMIT

#### SOUTH PARKING AREA - ISABELLA COUNTY DRAIN OFFICE PERMIT

TOTAL RUNOFF VOLUME INFILTRATED DURING 10-YEAR. 24-HOUR

- TOTAL RUNOFF VOLUME FROM 25-YEAR, 24-HOUR STORM = 12,960 CFT
- TOTAL STORAGE PROVIDED = 18,543 CFT

#### ISABELLA COUNTY DRAIN OFFICE PERMIT

#### DESIGN CRITERIA AND SITE INFORMATION

 UNION TOWNSHIP STORM WATER ALLOWABLE DISCHARGE: 0.10 CFS/ACRE

#### REQUIRED DETENTION, 25 YEAR/24 HOUR STORM EVENT:

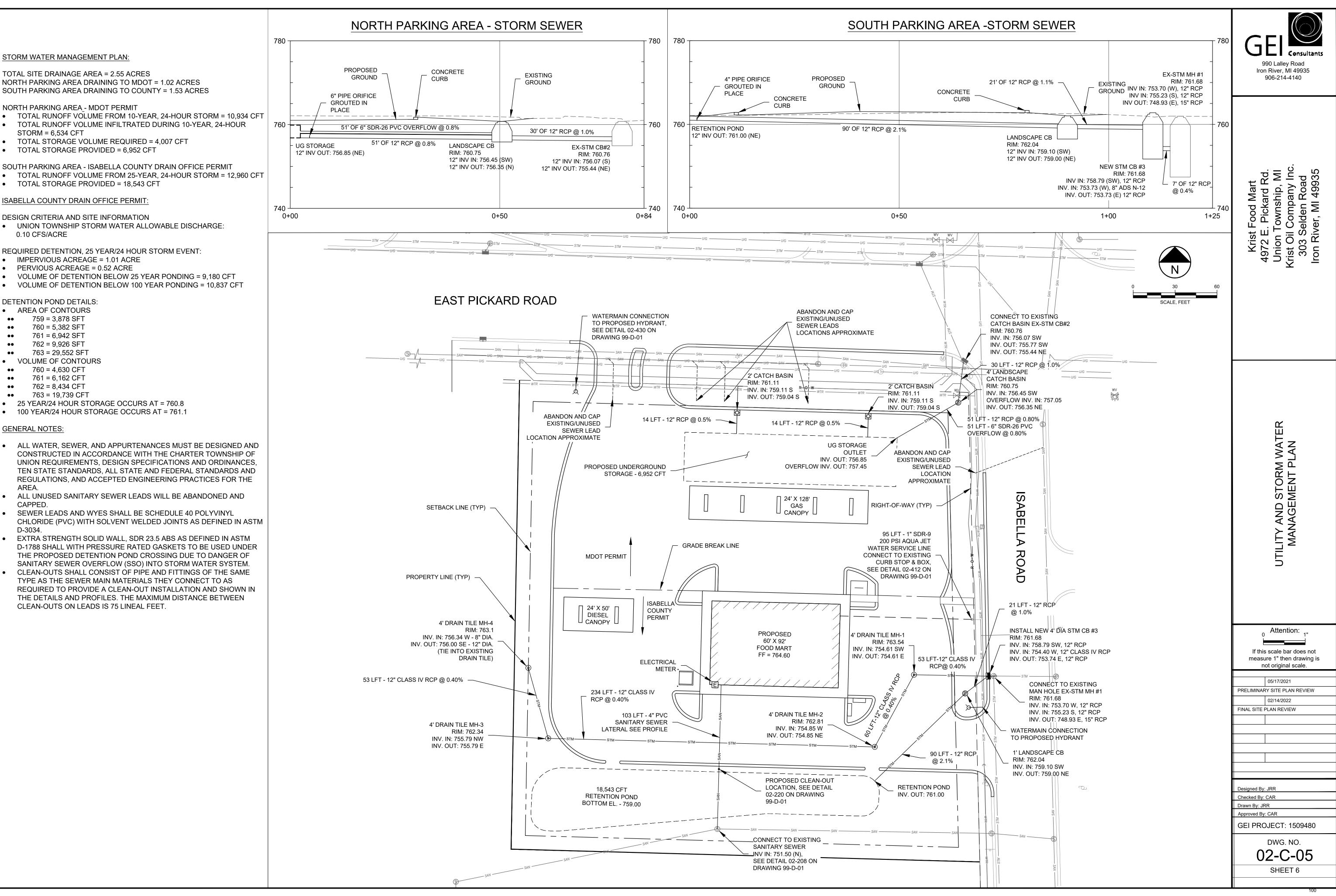
- IMPERVIOUS ACREAGE = 1.01 ACRE
- PERVIOUS ACREAGE = 0.52 ACRE
- VOLUME OF DETENTION BELOW 25 YEAR PONDING = 9,180 CFT
- VOLUME OF DETENTION BELOW 100 YEAR PONDING = 10,837 CFT

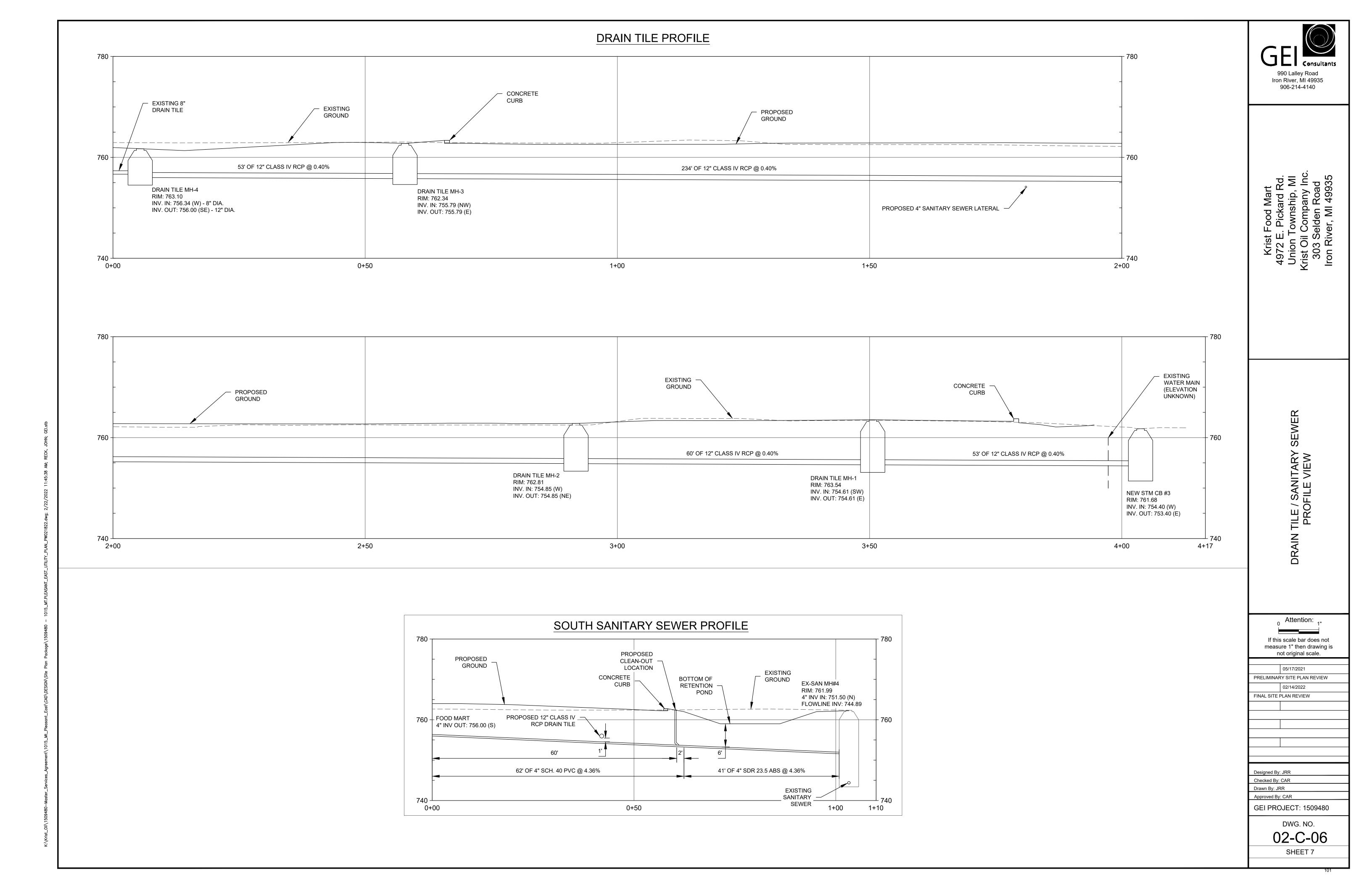
#### **DETENTION POND DETAILS:**

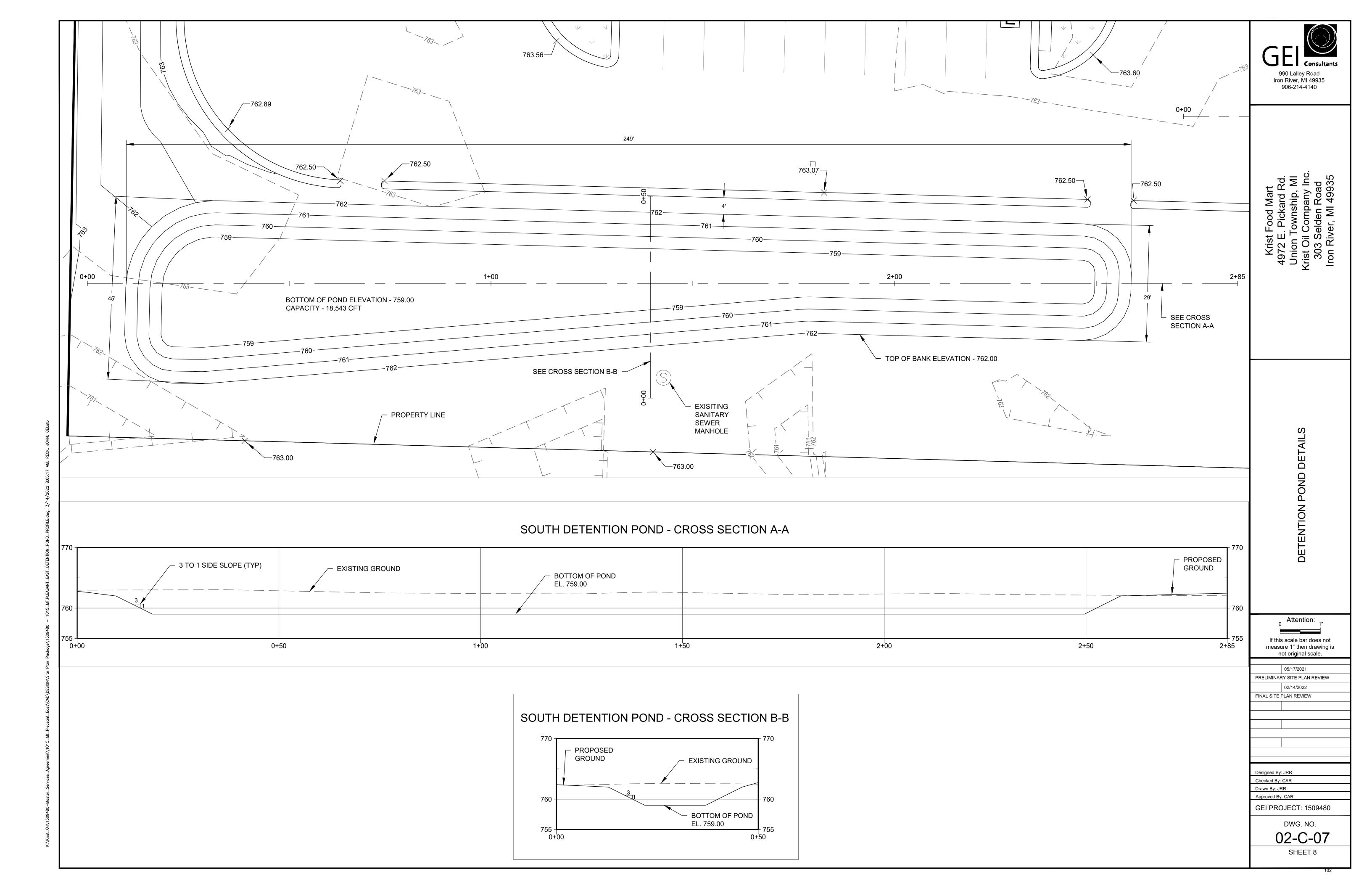
- AREA OF CONTOURS
- 759 = 3.878 SFT
- 760 = 5,382 SFT
- 761 = 6,942 SFT
- 762 = 9,926 SFT763 = 29,552 SFT
- VOLUME OF CONTOURS
- 760 = 4,630 CFT761 = 6,162 CFT
- 762 = 8,434 CFT
- 763 = 19,739 CFT
- 25 YEAR/24 HOUR STORAGE OCCURS AT = 760.8
- 100 YEAR/24 HOUR STORAGE OCCURS AT = 761.1

#### **GENERAL NOTES:**

- ALL WATER, SEWER, AND APPURTENANCES MUST BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE CHARTER TOWNSHIP OF UNION REQUIREMENTS, DESIGN SPECIFICATIONS AND ORDINANCES, TEN STATE STANDARDS, ALL STATE AND FEDERAL STANDARDS AND REGULATIONS, AND ACCEPTED ENGINEERING PRACTICES FOR THE
- ALL UNUSED SANITARY SEWER LEADS WILL BE ABANDONED AND CAPPED.
- SEWER LEADS AND WYES SHALL BE SCHEDULE 40 POLYVINYL CHLORIDE (PVC) WITH SOLVENT WELDED JOINTS AS DEFINED IN ASTM D-3034.
- EXTRA STRENGTH SOLID WALL, SDR 23.5 ABS AS DEFINED IN ASTM D-1788 SHALL WITH PRESSURE RATED GASKETS TO BE USED UNDER THE PROPOSED DETENTION POND CROSSING DUE TO DANGER OF SANITARY SEWER OVERFLOW (SSO) INTO STORM WATER SYSTEM.
- CLEAN-OUTS SHALL CONSIST OF PIPE AND FITTINGS OF THE SAME TYPE AS THE SEWER MAIN MATERIALS THEY CONNECT TO AS REQUIRED TO PROVIDE A CLEAN-OUT INSTALLATION AND SHOWN IN THE DETAILS AND PROFILES. THE MAXIMUM DISTANCE BETWEEN CLEAN-OUTS ON LEADS IS 75 LINEAL FEET.







Proposed Runoff "C" Value 0.73 (I)

Maximum Allowable Outflow (CFS) 0.15 (G)

Green Space/Lawn 0.52 Cont. Drainage Area (Acres) 1.53 (J)

0.52 0.30 Maximum Allowable Outflow (CFS) 0.15 1.53 (J) Storm Recurrence Interval (Yrs) 25

Α	D	С	D	Б	Б	С	TT
A	В	С	D	Е	F	G	Н
		25-Year	25-Year	Proposed	Proposed	Maximum	Required
ll		Total	Rainfall	Runoff	Runoff	Allowable	Detention
Duration	Duration	Rainfall	Intensity	Flow Rate	Volume	Outflow	Storage
(Minutes)	(Hours)	(Inches)	(Inch/Hr)	(CFS)	(CFT)	(CFS)	(CFT)
5	0.08	0.50	6.00	6.69	2,006	0.15	1,960
10	0.17	0.87	5.22	5.82	3,490	0.15	3,398
15	0.25	1.12	4.48	4.99	4,493	0.15	4,356
20	0.33	1.30	3.90	4.35	5,215	0.15	5,032
30	0.50	1.54	3.08	3.43	6,178	0.15	5,903
40	0.67	1.75	2.63	2.93	7,020	0.15	6,654
50	0.83	1.89	2.27	2.53	7,582	0.15	7,124
60	1.00	1.95	1.95	2.17	7,822	0.15	7,273
90	1.50	2.27	1.51	1.69	9,106	0.15	8,282
120	2.00	2.41	1.21	1.34	9,668	0.15	8,569
180	3.00	2.66	0.89	0.99	10,671	0.15	9,022
360	6.00	3.11	0.52	0.58	12,476	0.15	9,180
720	12.00	3.61	0.30	0.34	14,481	0.15	7,889
1080	18.00	3.90	0.22	0.24	15,645	0.15	5,756
1440	24.00	4.15	0.17	0.19	16,648	0.15	3,463

Maximum: 9,180

## 100 YEAR STORM EVENT CALCULATION

	Area			
	(Acres)	C		
Hard Surface/Imperv. Area	0.81	0.95	Maximum Storage Volume	18,543.00
Impervious - Retention Pond	0.20	0.95	Proposed Runoff "C" Value	0.68
Green Space/Lawn	0.52	0.30	Maximum Allowable Outflow (CFS)	0.15
Cont. Drainage Area (Acres)	1.53		Storm Recurrence Interval (Yrs)	100

A	В	С	D	Е	F	G	Н
		Design		Design			
		Storm		Storm	Control	Basin	Basin
Duration	Duration	Intensity	CxA	Discharge	Discharge	Volume	Volume
(Minutes)	(Hours)	(Inch/Hr)	(ac)	(CFS)	(CFS)	(CF)	(Ac-ft)
10	0.17	7.19	1.04	7.51	0.15	4,415.97	0.10
20	0.33	5.06	1.04	5.29	0.15	6,162.20	0.14
30	0.50	3.94	1.04	4.12	0.15	7,137.59	0.16
40	0.67	3.26	1.04	3.41	0.15	7,812.17	0.18
50	0.83	2.8	1.04	2.92	0.15	8,323.80	0.19
60	1.00	2.46	1.04	2.57	0.15	8,710.09	0.20
120	2.00	1.47	1.04	1.54	0.15	9,974.99	0.23
180	3.00	1.08	1.04	1.13	0.15	10,563.05	0.24
240	4.00	0.86	1.04	0.90	0.15	10,775.09	0.25
300	5.00	0.72	1.04	0.75	0.15	10,836.72	0.25
360	6.00	0.62	1.04	0.65	0.15	10,747.94	0.25
480	8.00	0.49	1.04	0.51	0.15	10,419.98	0.24
600	10.00	0.41	1.04	0.43	0.15	10,016.82	0.23
720	12.00	0.35	1.04	0.37	0.15	9,312.84	0.21
1080	18.00	0.25	1.04	0.26	0.15	7,200.90	0.17
1440	24.00	0.20	1.04	0.21	0.15	5,088.96	0.12

Maximum: 10,837
Safety Factor: 1.71

## RESTRICTION CALCULATIONS

Volume	Invert	Avail.Sto	orage Stora	ge Description	
#1	759.00'	38,9	65 cf Custo	m Stage Data (Prismatic) Listed below (R	ecalc)
Elevation (feet	1	.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	
759.00 760.00 761.00 762.00 763.00 Device	) ) ) ) )	3,878 5,382 6,942 9,926 9,552	0 4,630 6,162 8,434 19,739	0 4,630 10,792 19,226 38,965	
712	Primary	761.00	L= 90.0' C	nd Culvert PP, projecting, no headwall, Ke= 0.900 It Invert= 761.00' / 759.10' S= 0.0211 '/' Corrugated PP, smooth interior, Flow Areas	
	Device 1 Secondary	761.00' 762.50'	4.0" Vert. ( 10.0' long Head (feet) 2.50 3.00 Coef. (Eng	Orifice/Grate C= 0.600 Limited to weir flox 5.0' breadth Broad-Crested Rectangula 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.3.50 4.00 4.50 5.00 5.50 ish) 2.34 2.50 2.70 2.68 2.68 2.66 2.68 2.66 2.68 2.70 2.74 2.79 2.88	ow at low heads or <b>Weir</b> 60 1.80 2.00

Primary OutFlow Max=0.15 cfs @ 15.86 hrs HW=761.29' TW=759.23' (Dynamic Tailwater)
1=Culvert (Passes 0.15 cfs of 0.28 cfs potential flow)
2=Orifice/Grate (Orifice Controls 0.15 cfs @ 1.85 fps)

Time	Inflow	Storage	Elevation	Outflow	Primary	Secondary
(hours)	(cfs)	(cubic-feet)	(feet)	(cfs)	(cfs)	(cfs)
0.00	0.00	0	759.00	0.00	0.00	0.00
1.00	0.00	0	759.00	0.00	0.00	0.00
2.00	0.02	32	759.01	0.00	0.00	0.00
3.00	0.03	108	759.03	0.00	0.00	0.00
4.00	0.03	218	759.06	0.00	0.00	0.00
5.00	0.04	360	759.09	0.00	0.00	0.00
6.00	0.05	536	759.13	0.00	0.00	0.00
7.00	0.06	745	759.19	0.00	0.00	0.00
8.00	0.07	986	759.24	0.00	0.00	0.00
9.00	0.10	1,300	759.32	0.00	0.00	0.00
10.00	0.13	1,709	759.41	0.00	0.00	0.00
11.00	0.26	2,381	759.55	0.00	0.00	0.00
12.00	3.58	7,577	760.51	0.00	0.00	0.00
13.00	0.61	11,508	761.10	0.02	0.02	0.00
14.00	0.26	12,612	761.25	0.12	0.12	0.00
15.00	0.19	12,902	761.29	0.15	0.15	0.00
16.00	0.14	12,958	761.29	0.15	0.15	0.00
17.00	0.12	12,903	761.29	0.15	0.15	0.00
18.00	0.11	12,812	761.27	0.14	0.14	0.00
19.00	0.09	12,702	761.26	0.13	0.13	0.00
20.00	0.08	12,580	761.24	0.12	0.12	0.00
21.00	0.07	12,461	761.23	0.10	0.10	0.00
22.00	0.07	12,365	761.22	0.10	0.10	0.00
23.00	0.07	12,288	761.21	0.09	0.09	0.00
24.00	0.07	12,225	761.20	0.08	0.08	0.00
25.00	0.00	12,030	761.17	0.06	0.06	0.00
26.00	0.00	11,835	761.15	0.05	0.05	0.00
27.00	0.00	11,686	761.13	0.04	0.04	0.00
28.00	0.00	11,571	761.11	0.03	0.03	0.00
29.00	0.00	11,480	761.10	0.02	0.02	0.00
30.00	0.00	11,407	761.09	0.02	0.02	0.00
31.00	0.00	11,348	761.08	0.02	0.02	0.00
32.00	0.00	11,298	761.07	0.01	0.01	0.00
33.00	0.00	11,256	761.07	0.01	0.01	0.00
34.00	0.00	11,221	761.06	0.01	0.01	0.00
35.00	0.00	11,190	761.06	0.01	0.01	0.00
36.00	0.00	11,163	761.05	0.01	0.01	0.00

GEI
Censultants

990 Lalley Road
Iron River, MI 49935
906-214-4140

4972 E. Pickard Rd. Union Township, MI Krist Oil Company Inc. 303 Selden Road

> STORM WATER CALCULATIONS -DETENTION POND

O Attention: 1"

If this scale bar does not measure 1" then drawing is not original scale.

05/17/2021

PRELIMINARY SITE PLAN REVIEW

02/14/2022

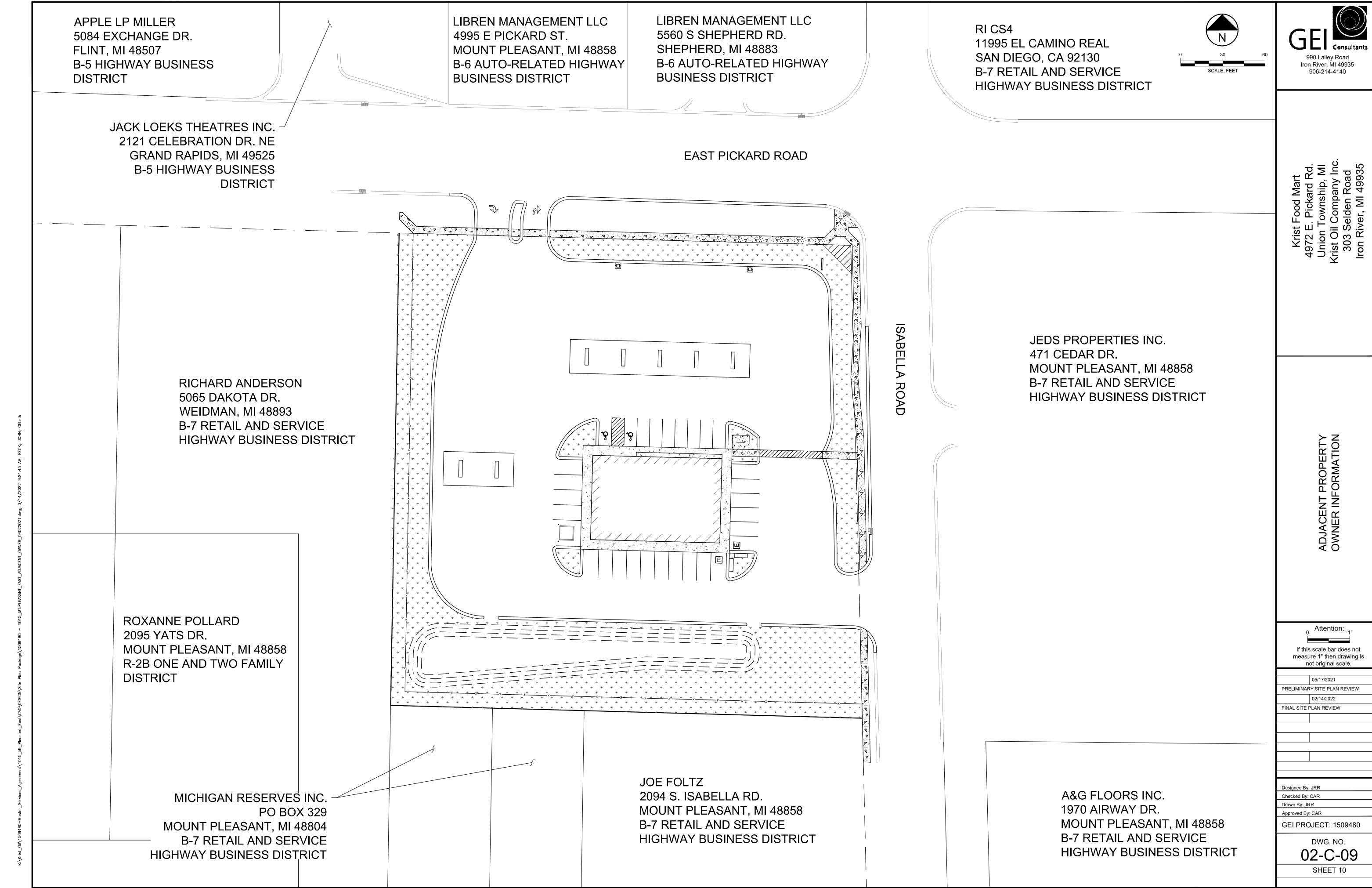
FINAL SITE PLAN REVIEW

esigned By: JRR

Drawn By: JRR
Approved By: CAR

GEI PROJECT: 1509480

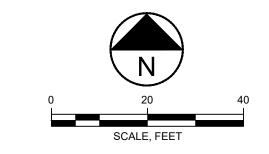
DWG. NO.



Luminaire S	Schedule				
Symbol	Qty	Tag	Label	LLF	МН
•	20	GC	701948-5WTWT3-M150P2	0.900	15'
•	4	DC	701948-5WTWT3-MH200	0.900	15'
•	3	Р	LCG-WPFC-70W-U-50K-XX	0.900	12'
÷	8	S	LCG-CP-65W-U-50K-XX-D1	0.900	10'

Calculation Summary					
Label	Avg	Max	Min	Avg/Min	Max/Min
Diesel Canopy	39.35	49.9	30.6	1.29	1.63
Gas Canopy	41.46	50.0	27.9	1.49	1.79
Pavement	2.66	40.6	0.0	N.A.	N.A.

<sup>\*</sup> Area that falls below 0.5fc highlighted in blue.



990 Lalley Road Iron River, MI 49935 906-214-4140

Krist Food Mart 4972 E. Pickard Rd. Union Township, MI Krist Oil Company Inc. 303 Selden Road Iron River, MI 49935

PHOTOMETRIC PLAN

Attention: 1"

If this scale bar does not measure 1" then drawing is not original scale.

05/17/2021

PRELIMINARY SITE PLAN REVIEW

02/14/2022

FINAL SITE PLAN REVIEW

Designed By: JRR Checked By: CAR

Drawn By: JRR
Approved By: CAR

GEI PROJECT: 1509480

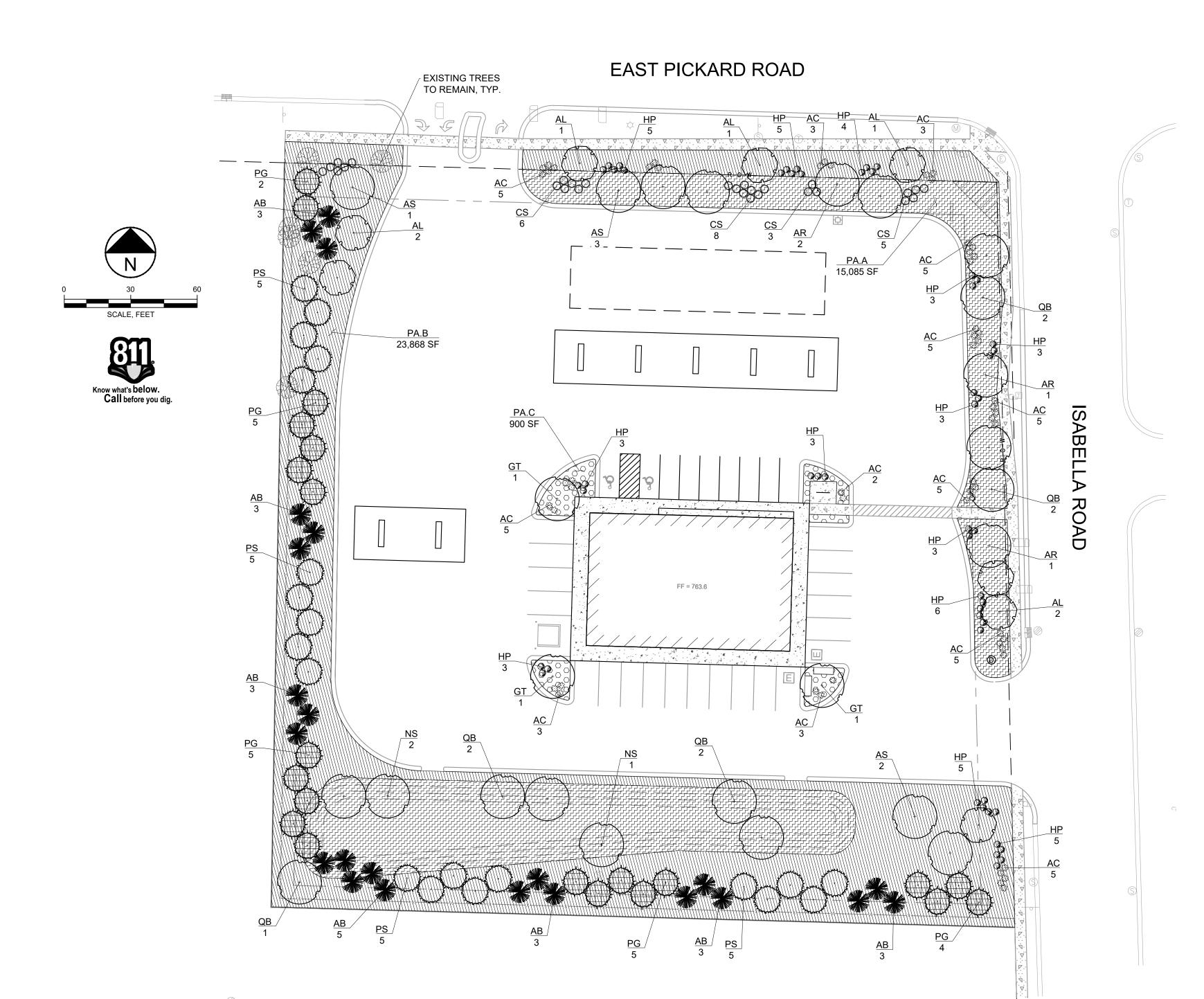
DWG. NO. **02-C-10** 

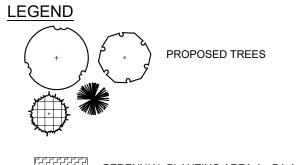
$\frac{1}{10000000000000000000000000000000000$		
	0.0	
5.0         5.0         5.0         5.0         5.0         5.0         5.1	†0.1 †0.1 †0.1 †0.1 †0.1 †0.1 †0.1 †0.1	
0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
$\sqrt{0.0}$ $0.0$ $0.0$ $0.0$ $0.1$ $0.1$ $0.1$ $0.2$ $0.3$	0.5     0.7     1.0     1.3     1.5     1.6     1.6     1.6     1.5     1.5     1.5     1.4     1.3     1.3     1.2     1.1     0.9     0.7     0.5     0.3     0.2     0.1     0.1     0.1	
0.0 0.0 0.0 0.1 0.1 0.1 0.2 0.2 0.5	0.9     1.8     2.9     3.8     4.2     4.4     4.3     4.2     4.2     4.0     3.9     3.8     3.7     3.5     3.4     3.2     2.8     2.3     1.6     1.0     0.5     0.3     0.2     0.1     0.1	
	1.8       4.7       8.9       11.8       13.0       13.4       13.0       12.6       12.4       11.9       11.6       11.4       10.9       10.4       10.2       9.8       8.9       7.3       4.8       2.2       0.9       0.4       0.2       0.1       0.1	
	3.2 10.0	
	36.6 43.0 48.9 49.9 48.0 49.8 50.0 49.1 49.1 49.8 49.1 46.6 49.1 49.2 44.0 57.2	
	†4.0 †3.3 † † † † † † † † † † † † † † † † †	
0.1     0.1     0.1     0.2     0.2     0.2     0.2     0.3     0.5     1.0		
0.2     0.2     0.2     0.2     0.2     0.3     0.3     0.3     0.3     0.5     0.8       0.3     0.3     0.4     0.4     0.4     0.4     0.4     0.4     0.5     0.6	1.6       3.7       6.6       8.9       10.2       11.2       11.5       12.0       12.6       12.9       13.1       13.7       13.8       13.7       14.2       14.5       13.8       11.8       7.6       3.3       1.2       0.5       0.2       0.1       0.1       0.1         1.0       1.6       2.4       3.1       3.6       4.0       4.2       4.4       4.6       4.7       4.8       4.9       5.0       4.9       5.0       4.9       4.6       3.9       2.7       1.4       0.7       0.4       0.2       0.1       0.1       0.1	
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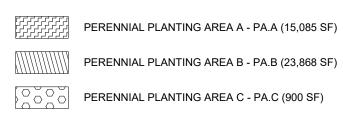
- 3) INDIVIDUAL HOLES SHALL BE CENTERED AT STAKED PLANT LOCATIONS. CONTRACTOR IS TO STAKE PRIOR TO PLACEMENT OF PLANT MATERIAL AND OBTAIN APPROVAL FROM THE OWNER'S REPRESENTATIVE. PLANTING HOLES SHALL BE DUG LARGE ENOUGH TO PERMIT PLACING PREPARED TOPSOIL 18" LATERALLY BEYOND THE ENDS OF THE ROOT BALLS FOR SHADE AND EVERGREEN TREES AND 6" LATERALLY FOR SHRUBS UNLESS OTHERWISE SPECIFIED.EXCAVATED MATERIAL SHALL BE REMOVED FROM THE SITE AT THE TIME THE HOLE IS DUG. THE PLANTING HOLE SHALL BE BACKFILLED WITH PREPARED TOPSOIL THE SAME DAY THEY ARE DUG.
- 4) TOPSOIL SHALL BE A FERTILE, FRIABLE NATURAL TOPSOIL OF LOAM CHARACTER CONTAINING AT LEAST 5% BUT NOT MORE THAN 20% BY WEIGHT OF ORGANIC MATTER WITH A PH RANGE FROM 6.0 TO 7.0. TOPSOIL SHALL BE FREE OF CLAY LUMPS, COURSE SAND, STONES, PLANT ROOTS, STICKS OR OTHER FOREIGN MATTER.
- 5) CONTRACTOR SHALL TAKE CARE NOT TO COMPACT SOILS IN PLANTING AREAS. ANY COMPACTED SOILS TO BE SCARIFIED TO A DEPTH OF 8" TO ELIMINATE ANY SOIL COMPACTION CREATED DURING CONSTRUCTION. CONTRACTOR MAY BE REQUIRED TO FURTHER AMEND SOIL IN AREAS WHERE EXCESSIVE COMPACTION HAS OCCURRED.
- 6) PLANTS DESIGNATED "BB" SHALL BE BALLED AND BURLAPPED WITH FIRM NATURAL BALLS OF EARTH. CRACKED, LOOSENED OR BROKEN BALLS SHALL NOT BE PLANTED. THEY SHALL BE MARKED WITH SPRAY PAINT AND IMMEDIATELY REMOVED FROM THE JOB SITE. IMMEDIATELY FOLLOWING DELIVERY AT THE JOB SITE, ALL PLANTS THAT WILL NOT BE PLANTED THAT SAME DAY SHALL BE "HEELED IN" WITH SHREDDED BARK OR MOIST SOIL AND KEPT MOIST UNTIL PLANTED.
- 7) THE TRUNKS AND BRANCHES OF ALL TREES SHALL BE PROTECTED FROM INJURY OF ANY KIND DURING ALL OPERATIONS. THE OWNER'S REPRESENTATIVE SHALL REJECT ANY TREES OR SHRUBS THAT ARE INJURED.
- 8) THE CONTRACTOR IS RESPONSIBLE FOR PLANTING MATERIALS PLUMB. SET THE TOP OF THE ROOT BALL AT OR SLIGHTLY HIGHER THAN THE SURROUNDING GRADE. PLANTS SHALL BE FACED TO GIVE THE BEST APPEARANCE OR RELATIONSHIP TO ADJACENT STRUCTURES. NO FILLING WILL BE PERMITTED AROUND TRUNK OR STEMS. WHEN THE PLANT HAS BEEN PROPERLY SET, THE HOLE SHALL BE BACKFILLED TO 1/2 THE DEPTH OF THE BALL WITH PREPARED TOPSOIL MIXTURE, FIRMLY PACKED AND WATERED-IN AT TIME OF PLANTING. LOOSED AND REMOVE BURLAP AND LACING FROM UPPER 1/3 OF THE ROOT BALL. BACKFILL WITH PREPARED TOPSOIL, WHICH AFTER COMPACTION IS FLUSH WITH THE SURROUNDING GROUND. FOR STREET TREES, ROOT BARRIERS SHALL BE INSTALLED WITHIN AREAS WHERE THERE IS LESS THAN SEVEN (7) FEET BETWEEN THE BACK OF CURB AND THE SIDEWALK. WATER BAGS SHALL BE USED ACCORDING TO THE PRODUCT INSTRUCTIONS, TO KEEP TREES AND SHRUBS WATERED FOR THE FIRST GROWING SEASON. WATER BAGS MAY BE REMOVED AT THE DIRECTION OF THE CITY.
- 9) TREE PLANTING AREAS SHALL BE ENCIRCLED WITH A 5" MINIMUM COVERING OF NON-DYED SHREDDED BARK MULCH TO 6" OUTSIDE THE PLANTING HOLE, TAPERING MULCH TO 2" AROUND THE TRUNK OF ALL PLANTS TO 1" OUTSIDE OF THE TRUNK. SUBMIT SAMPLE TO THE OWNER'S REPRESENTATIVE FOR APPROVAL BEFORE PLACEMENT. WOOD CHIPS SHALL NOT BE ALLOWED ON THIS JOB.
- 10) TREE WRAP SHALL COVER TRUNKS OF ALL DECIDUOUS TREES BEGINNING BELOW THE SOIL LINE JUST ABOVE THE ROOTS. TIE WITH TWINE IN 5 PLACES, INCLUDING THE TOP AND BOTTOM OF WRAPPING. MASKING TAPE OR WIRE WILL NOT BE ALLOWED. TREE WRAP MAY BE REMOVED BY MAY 1st OF THE SECOND YEAR, AND REWRAPPED BY OCTOBER 15th OF THE SECOND FALL. CONTINUE THIS PROCESS AS NEEDED FOR YOUNG TREES, AND FOR UP TO 5 YEARS FOR THIN-BARKED SPECIES.
- 11) GUYING SHALL BE EMPLOYED TO PREVENT LEANING OR LOOSENING OF THE TREE FROM THE BALL. BRACING MATERIAL SHALL BE T-POSTS PAINTED GREEN. GUYING MATERIAL SHALL BE 12 GAUGE WIRE AND GARDEN HOSE 1/2 INCH DIAMETER. GUY WIRE SHALL BE ENCASED IN HOSE TO PREVENT DIRECT CONTACT WITH THE TREE. DECIDUOUS TREES SHALL BE BRACED OR GUYED IMMEDIATELY AFTER THE TREE WRAPPING IS COMPLETE. WIRE SHALL NOT BE TIGHT, BUT SHOULD ALLOW THE TREE TO MOVE SLIGHTLY, WHICH WILL ALLOW THE TREE TO SECURE ITSELF IN PLACE MORE QUICKLY. WIRE SHOULD NOT BE SO LOOSE THAT IT ALLOWS THE TREE TO LEAN OR MOVE EXCESSIVELY.
- 12) UPON COMPLETION, ALL PLANT MATERIAL MUST BE PRUNED. THE AMOUNT OF PRUNING SHALL BE LIMITED TO THE MINIMUM NECESSARY TO REMOVE DEAD OR INJURED BRANCHES AND TO COMPENSATE FOR THE LOSS OF ROOTS FROM TRANSPLANTING. ALL CUTS SHALL BE MADE FLUSH LEAVING NOT STUBS. PRUNING PAINT SHALL NOT BE USED.
- 13) ALL NATIVE SEED MIX AREAS TO BE INSTALLED IN STRICT ACCORDANCE WITH THE PROVIDED ESTABLISHMENT GUIDE, OR AT THE DIRECTION OF THE SEED MIX SUPPLIER. PROPER SITE PREPARATION, INSTALLATION, AND MAINTENANCE OF THE SEED MIX AREAS IS CRITICAL FOR PROPER ESTABLISHMENT.
- 14) ALL SLOPES IN EXCESS OF 4(H):1(V) TO BE COVERED WITH SC-150 BN EROSION CONTROL BLANKET. AREAS STEEPER THAN 3(H):1(V) OR SUBJECT TO CONCENTRATED STORMWATER RUNOFF TO BE COVERED WITH C-125 BN EROSION CONTROL BLANKET. AFTER SITE HAS BEEN TREATED FOR WEEDS IN ACCORDANCE WITH THE ESTABLISHMENT GUIDE, BLANKET IS TO BE REMOVED TO ALLOW FOR SEED MIX INSTALLATION AND THEN REPLACED OVER TOP OF INSTALLED NATIVE SEED.
- 15) IRRIGATION FOR THIS PROJECT IS NOT REQUIRED. MANUAL WATERING OF TREES AND SHRUBS WITH WATER BAGS SHALL BE CONDUCTED FOR THE FIRST TWO GROWING SEASONS.
- 16) IMMEDIATELY UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL CLEAN UP THE AREA OF SURPLUS MATERIALS. THE CONTRACTOR SHALL REPAIR AND RE-ESTABLISH TURF IN RUTTED AREAS.

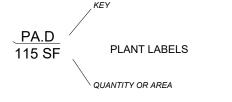
#### **General Landscape Plan Notes:**

- 1) See Landscape Plan Sheet 2 for plant lists and details.
- Planting areas PA.A and PA.B are to be installed using the seed mixes provided on sheet 2. Planting area PA.C is to be installed using perennial plugs (live plants) using the plant list provided on sheet 2.









#### MINIMUM LANDSCAPING REQUIREMENTS

LANDSCAPING ADJACENT TO ROADS

Deciduous or Evergreen Trees: 1 Tree per 40 Linear Feet

Ornamental Trees: 1 Tree per 100 Linear Feet

Shrubs: 8 Shrubs per 40 Linear Feet

Isabella Road (290 LF - excludes driveway)
Required: 8 Dec. or EG Trees; 3 Orn. Trees; 58 Shrubs.
Provided: 8 Trees; 3 Orn. Trees; 58 Shrubs.

East Pickard Road (276 LF - excludes driveway)
Required: 7 Dec. or EG Trees; 3 Orn. Trees; 56 Shrubs.
Provided: 7 Trees: 3 Orn. Trees: 56 Shrubs.

#### LANDSCAPE SCREENING

Closely spaced evergreens (not more than 15' on center) to create a complete visual barrier.

West Property Boundary

Trees provided: 31 Evergreen; 5 Deciduous

- Existing trees within the project area which are healthy and will not be impacted by site grading activities shall remain to enhance this buffer area as well.

South Property Boundary Trees provided: 33 Evergreen; 9 Deciduous

PARKING LOT LANDSCAPING One shade tree per 5 spaces.

Required: 8 Trees (based on 37 parking spaces)
Provided: 10 Trees

- Some trees for parking lot landscaping are also being used as greenbelt trees.

GEI Consultants

990 Lalley Road
Iron River, MI 49935
906-214-4140

Krist Food Mart ast Pickard Rd. and South Isabe Union Township, MI Krist Oil Companies 303 Selden Road

ANDSCAPE PLAN

Attention:

1"

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not original oddio.				
05/17/2021				
RY SITE PLAN REVIEW				
02/14/2022				
PLAN REVIEW				

Designed By: JRR
Checked By: CAR
Drawn By: JRR
Approved By: CAR
GEI PROJECT: 1509480

DWG. NO. 02-L-01

3' O.C.

3' O.C.

4' O.C.

16' O.C.

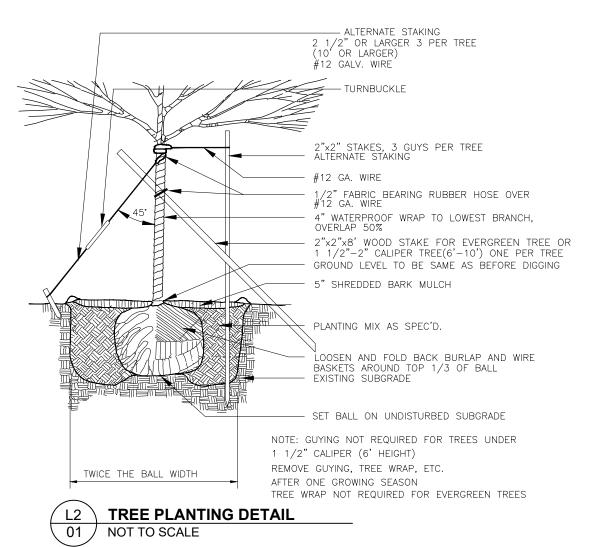
Bioswale Seed Mix - PA.A 15,085 sf			
Scientific Name	<b>Common Name</b>	% of Area	
Carex bebbii	Sedge	6	
Carex brevior	Plains Oval Sedge	10	
Carex muskingumensis	Palm Sedge	15	
Carex vulpinoidea	Fox Sedge	40	
Deschampsia cespitosa	Tufted Hairgrass	7	
Panicum virgatum	Switchgrass	10	
Schizachyrium scoparium	Little Bluestem	6	
Sporobolus heterolepis	Prairie Dropseed	6	

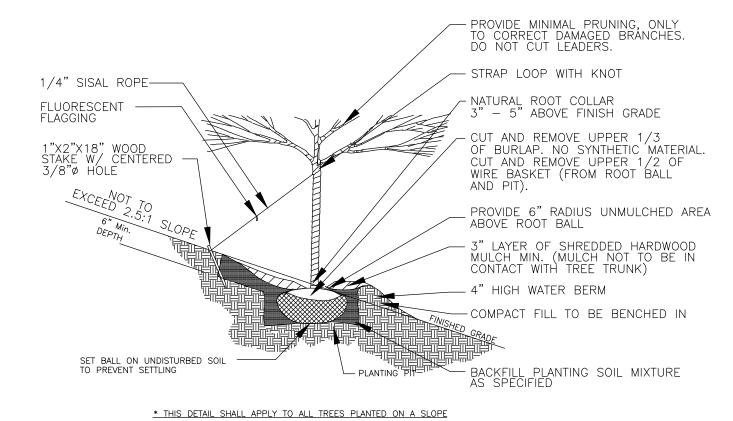
Dry Prairie Seed Mix - PA.B 23,868 sf			
Scientific Name	Common Name	% of Area	
Bouteloua curtipendula	Sideoats Grama	20	
Schizachyrium scoparium	Little Bluestem	40	
Sporobolus heterolepis	Prairie Dropseed	40	

#### **SEED MIX NOTES**

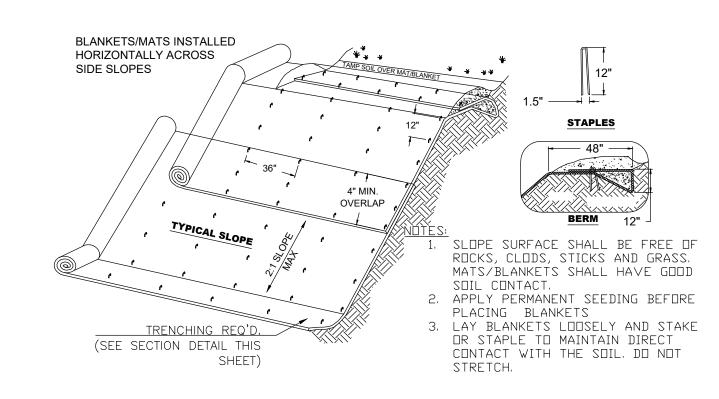
- % OF AREA indicates the visual percentage of the proposed planting area that a given species shall represent. The native seed mix supplier will determine the correct seed quantities per mix on a basis of 'pure live seed' ounces per acre based on this percentage.
- To facilitate proper installation and weed management, only grasses are proposed for the seed mix installation and establishment phase. This is to allow the treatment of broadleaf weeds in the project area while the grasses are establishing. After year one, native flowering plugs can be planted throughout the seed mix area, assuming no additional chemical weed treatments are required.
- Contractor is to follow the provided seed mix establishment guide, and information provided by the seed mix supplier, to ensure proper native seed mix establishment. The establishment guide can also be found at this web
- https://www.prairienursery.com/media/pdf/seed-mix-establishment-guide.pdf

Plug Planting Area - PA.C 900 SF					
Scientific Name	Common Name	Qty.	Spacing	Grouping	Condition
Allium cernuum	Nodding Wild Onion	54	10"	5-7	Deep Cell Plug
Asclepias tuberosa	Butterflyweed	27	10"	3	Deep Cell Plug
Coreopsis lanceolata	Sand Tickseed	27	12"	3	Deep Cell Plug
Echinacea pallida	Pale Purple Coneflowe	45	10"	5-7	Deep Cell Plug
Penstemon digitalis	Smooth Penstemon	45	10"	5-7	Deep Cell Plug
Pycnanthemum virginianum	Mountain Mint	36	12"	3	Deep Cell Plug
Rudbeckia fulgida	Orange Coneflower	72	12"	3	Deep Cell Plug
Ruellia humilis	Wild Petunia	54	10"	5	Deep Cell Plug
Schizachyrium scoparium	Little Bluestem	360	12"	5-7	Deep Cell Plug
Sporobolus heterolepis	Prairie Dropseed	180	12"	5-7	Deep Cell Plug

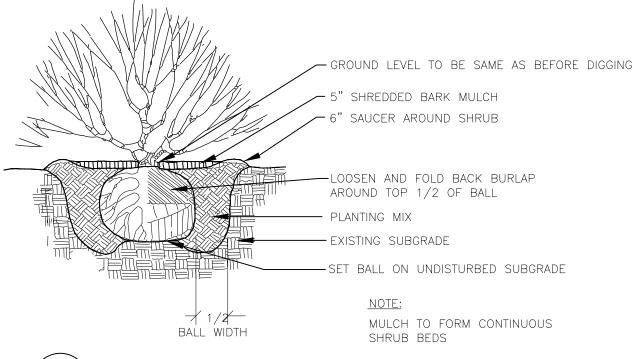




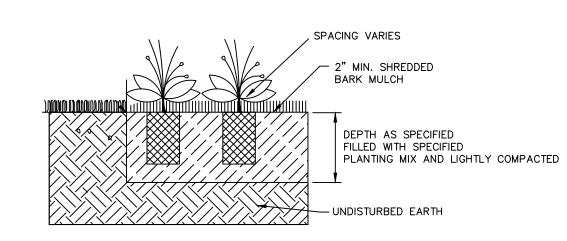
12 TREE ON SLOPE PLANTING DETAIL NOT TO SCALE











PERENNIAL PLANTING DETAIL NOT TO SCALE

#### TREE AND SHRUB PLANTING NOTE

Trees and shrubs planted within the bottom footprint of bioswals or other drainage basins to be set a minimum of 8" above surrounding grade. Crown of tree, or shrub, to be set 8" above surrounding grade and soil is to be graded outside of planting hole on a 3(H):1(v) grade down to the proposed adjacent grading. The area immediately surrounding the tree or shrub shall be level with the crown elevation on a 4' diameter for shrubs and 6' diameter for trees before tapering to the adjacent elevations.

990 Lalley Road Iron River, MI 49935 906-214-4140

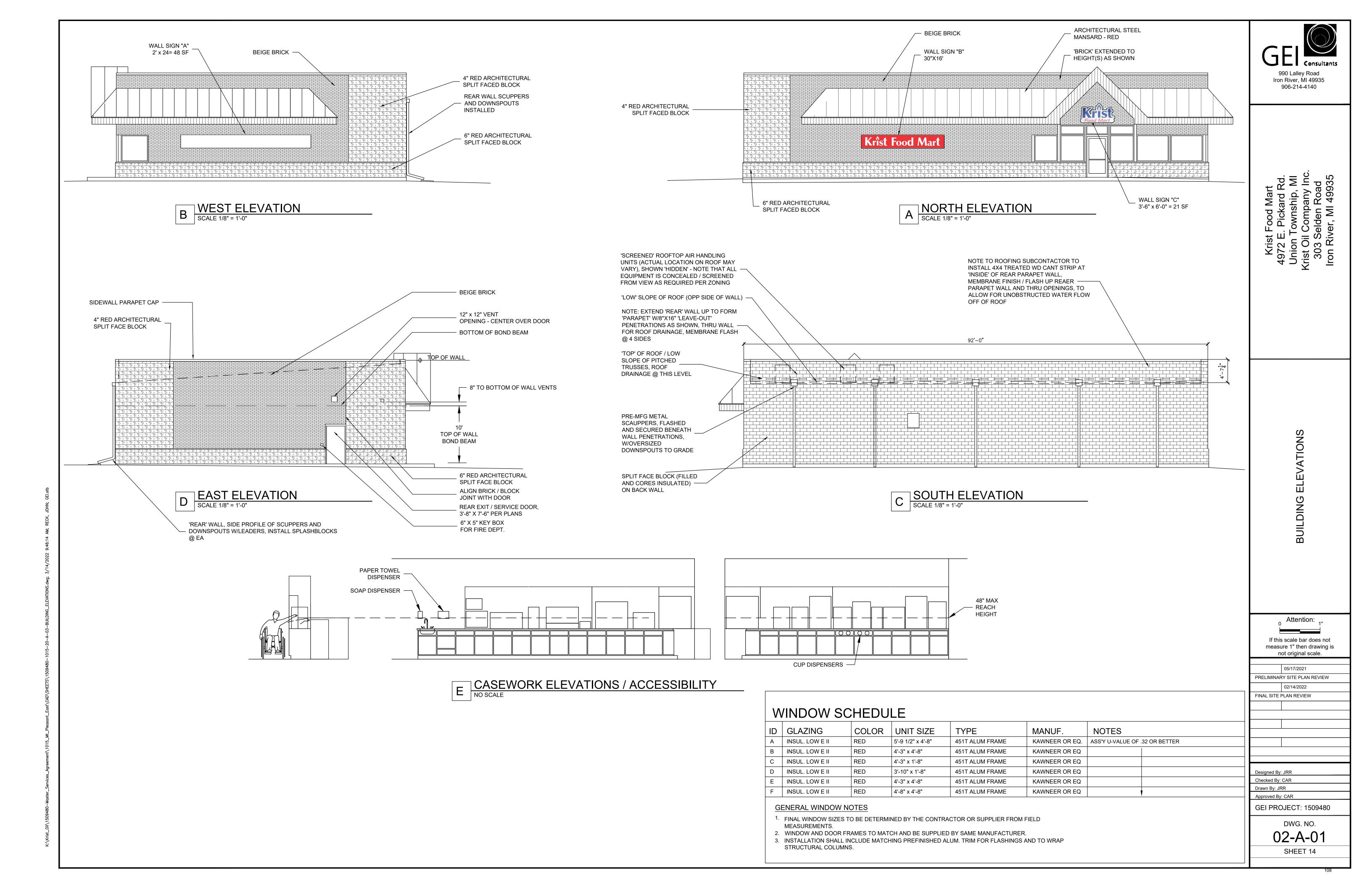
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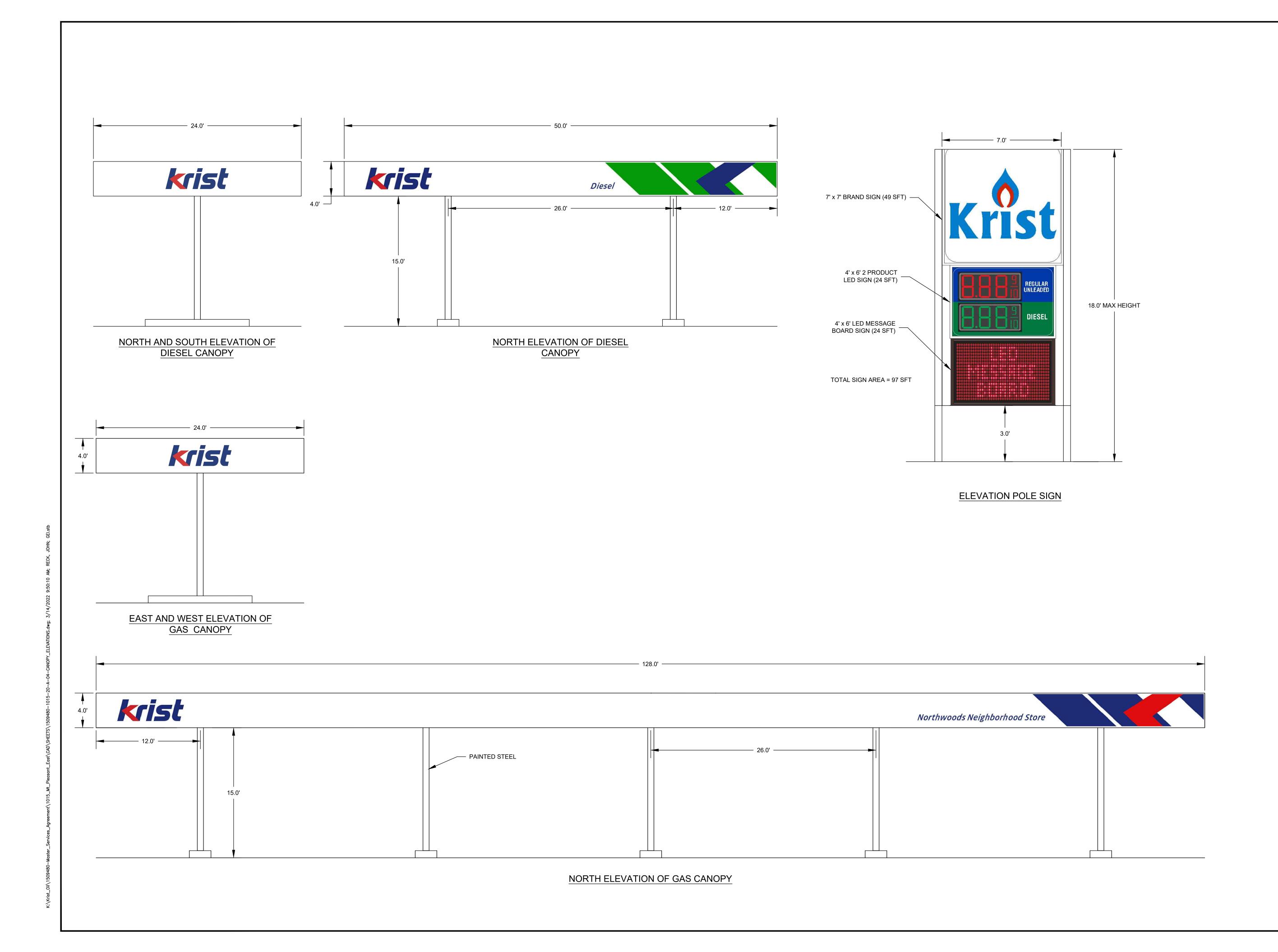
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	05/17/2021
PRELIMINARY	SITE PLAN REVIEW
	02/14/2022
FINAL SITE P	LAN REVIEW
Designed By:	IDD

Checked By: CAR Drawn By: JRR Approved By: CAR **GEI PROJECT: 1509480** 

> DWG. NO. 02-L-02







4972 E. Pickard Rd. Union Township, MI Krist Oil Company Inc. 303 Selden Road

CANOPY ELEVATIONS AND SIGN DETAILS

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If this scale bar does not measure 1" then drawing is not original scale.

PRELIMINARY SITE PLAN REVIEW

02/14/2022

FINAL SITE PLAN REVIEW

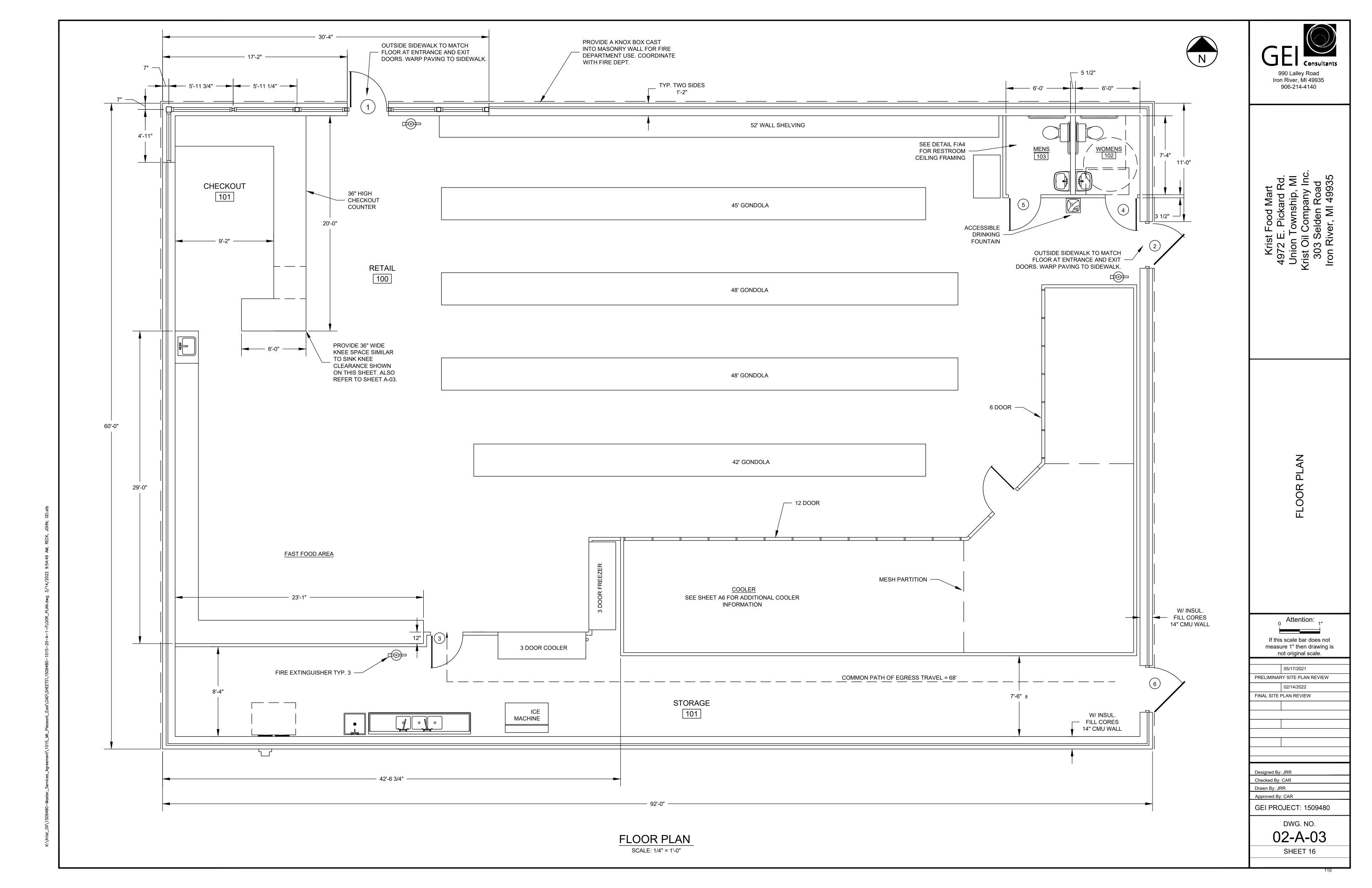
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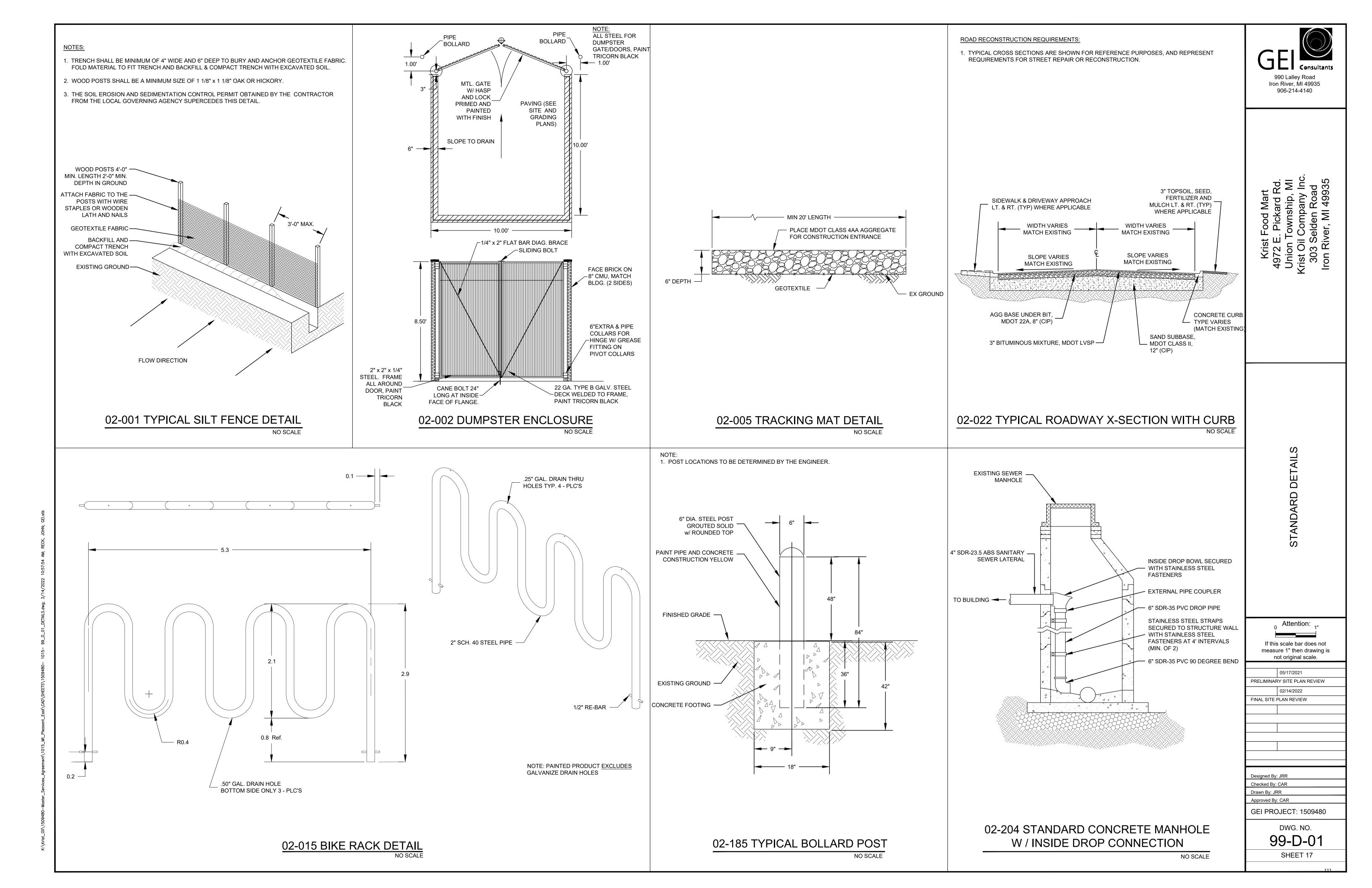
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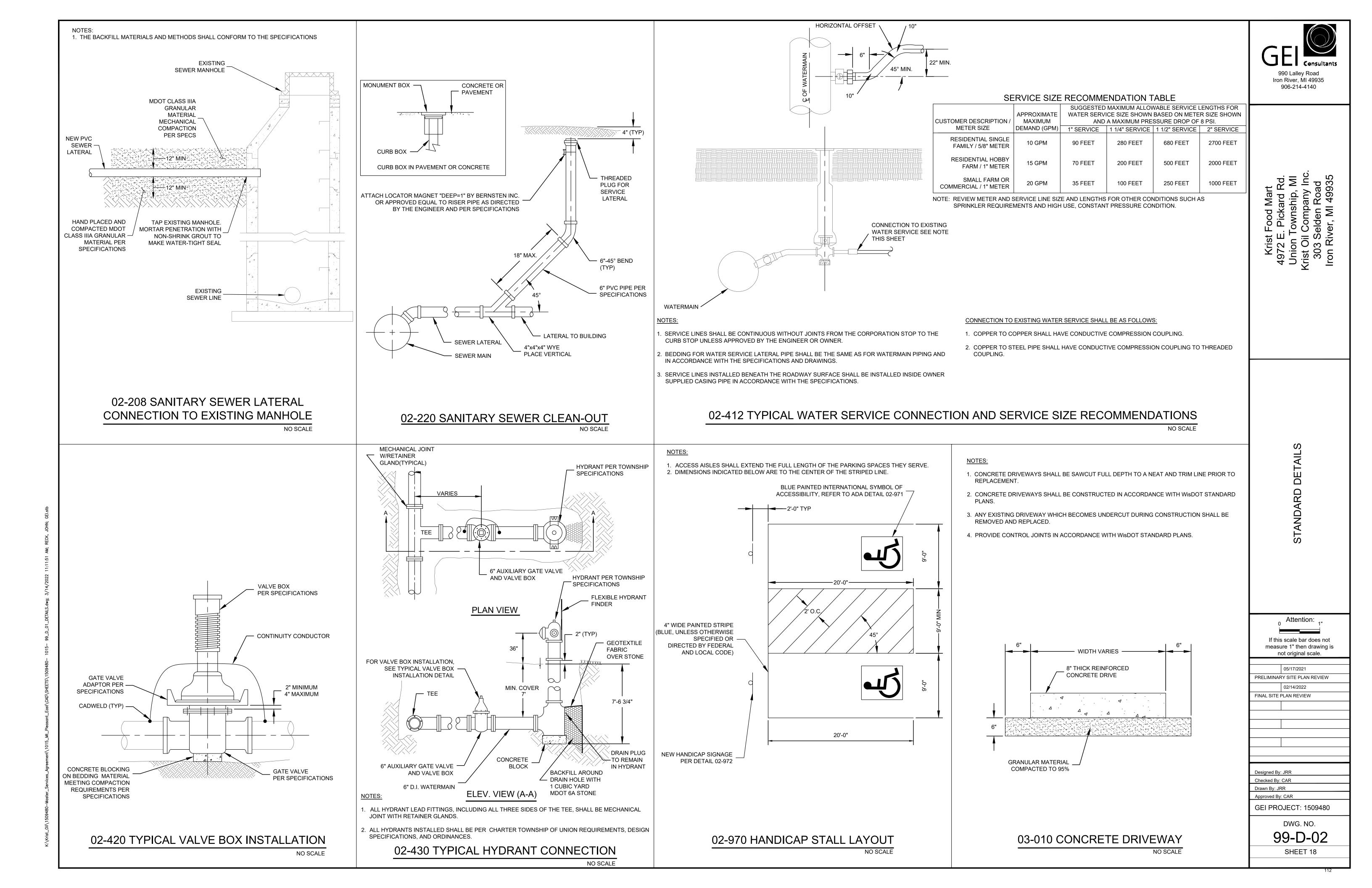
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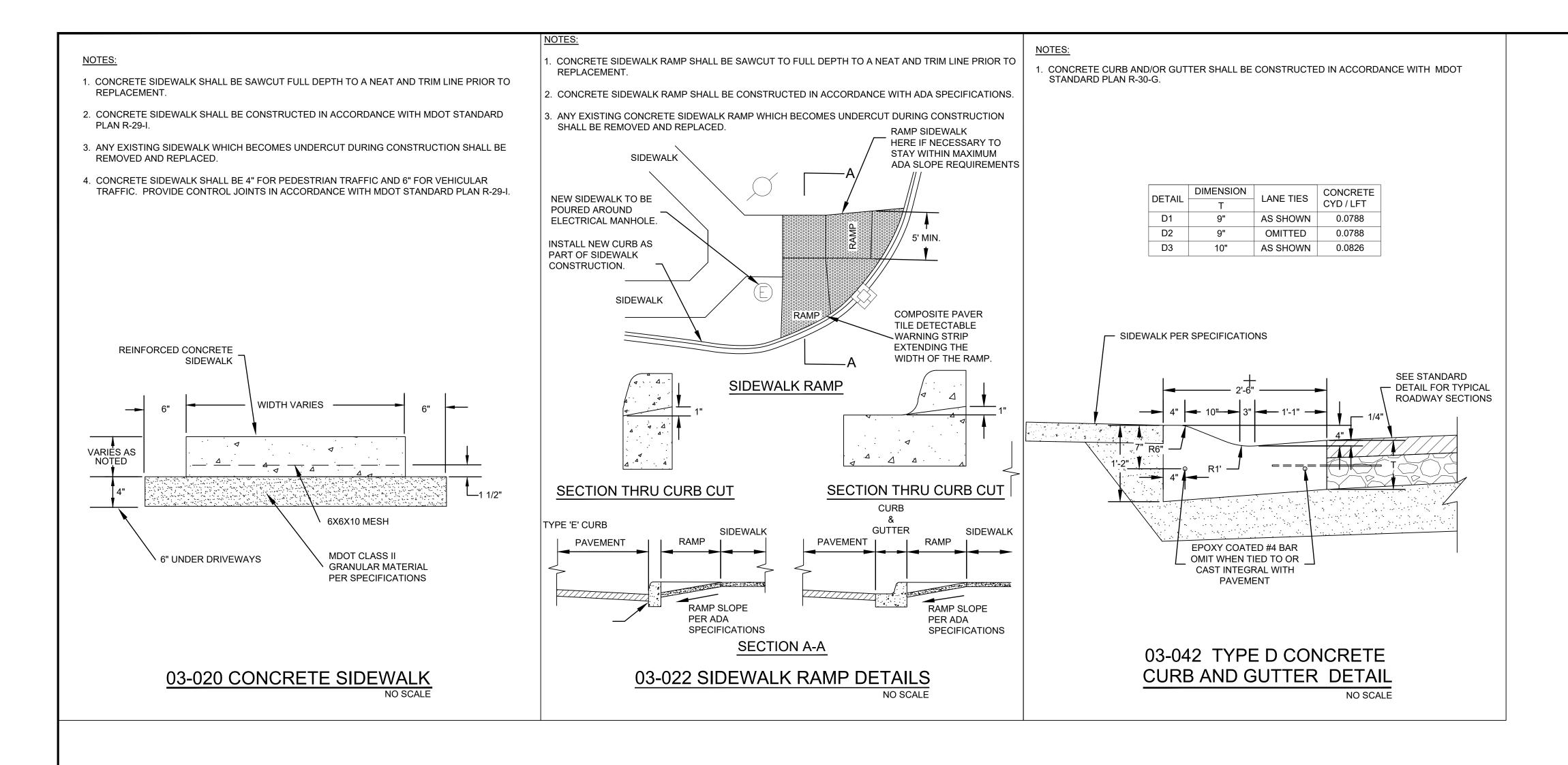
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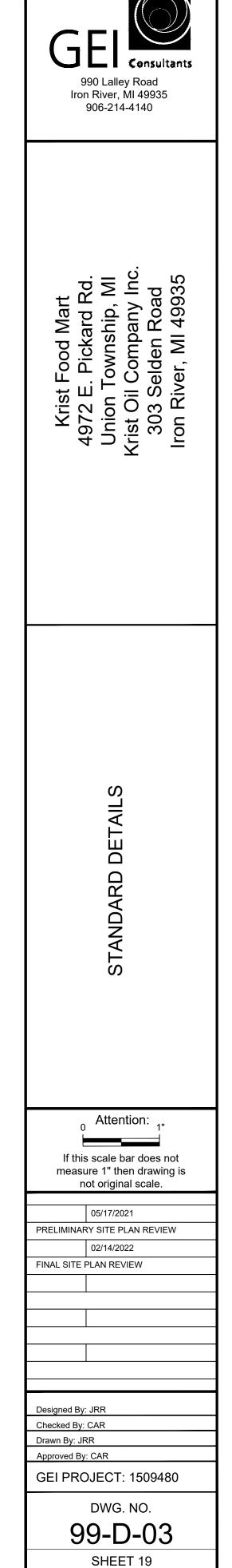
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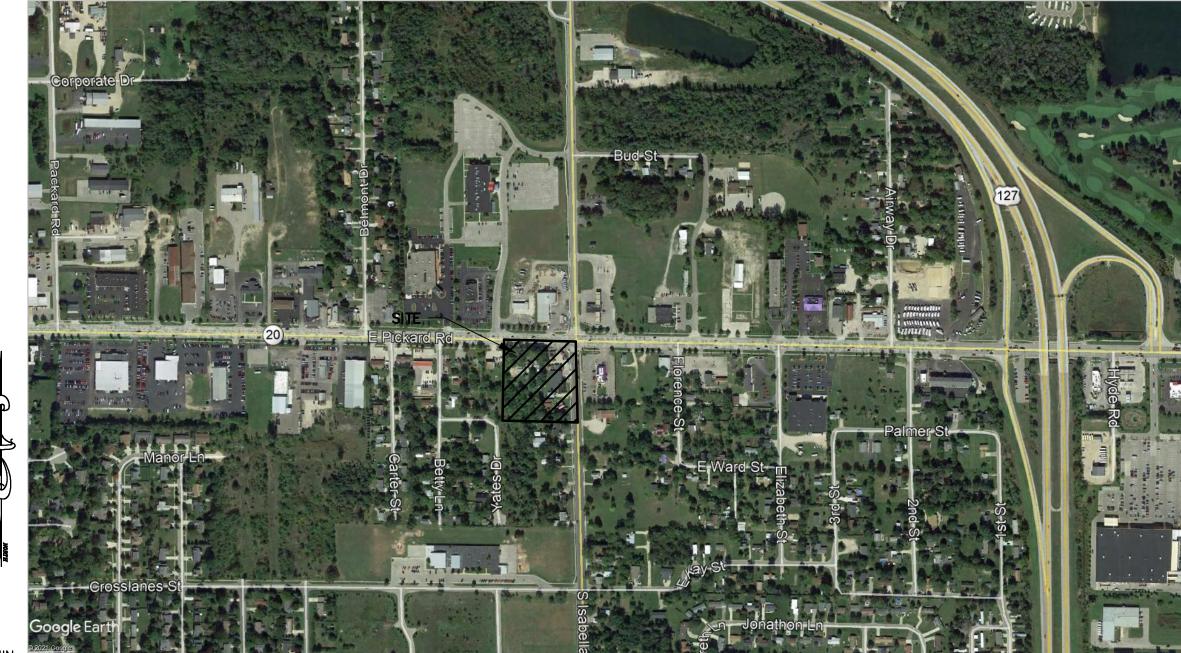






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# EXISTING TOPOGRAPHY SURVEY



LOCATION MAP NOT TO SCALE

B-7 RETAIL AND HIGHWAY	
MINIMUM FRONT YARD SETBACK	15 FT(E)
MINIMUM SINGLE SIDE SETBACK	10 FT(E)
TOTAL TWO SIDES SETBACK	NONE
MINIMUM REAR YARD SETBACK	10 FT(E)
MINIMUM LOT FRONTAGE	130 FT(D)
MINIMUM LOT AREA	20,000 SQ. FT.
MAXIMUM BUILDING HEIGHT	35 FT
MAXIMUM LOT COVERAGE (%)	30%(D)

- D. SCREENING FROM RESIDENTIAL USES: ALL PERMITTED USES IN THE B-6 AND B-7 DISTRICTS, INCLUDING PARKING, LOADING, AND OUTDOOR STORAGE AREAS, THAT ARE ADJACENT TO A LOT LINE IN AN R-1 OR R-2 DISTRICT AND LOCATED WITHIN ONE HUNDRED (100) FEET OF A PRINCIPAL RESIDENTIAL STRUCTURE SHALL PROVIDE A WALL FOR SCREENING PURPOSES. SUCH REQUIRED WALLS SHALL NOT BE LESS THAN FIVE (5) FEET IN HEIGHT OR MORE THAN EIGHT (8) FEET IN HEIGHT.
- E. SITE ACCESS ALTERNATIVES: IF ONE (1) OF THE FOLLOWING SITE ACCESS ALTERNATIVES IS PROVIDED, THE MINIMUM LOT FRONTAGE REQUIREMENT SHALL BE REDUCED TO ONE HUNDRED (100) LINEAR FEET AND THE MAXIMUM PERCENT OF LOT AREA PERMITTED TO BE COVERED BY BUILDINGS SHALL BE INCREASED TO FIFTY (50) PERCENT:
- 1. A SERVICE ROAD PARALLELING M-20 IS PROVIDED ACROSS THE ENTIRE PARCEL AND PRIMARY INGRESS AND EGRESS TO THE PARCEL IS VIA SUCH SERVICE ROAD.
- 2. ALTERNATIVE INGRESS AND EGRESS TO THE PARCEL IS AVAILABLE SUCH AS A REAR ACCESS ROAD OR ACCESS TO A STREET INTERSECTING M-20.
- 4. INGRESS AND EGRESS TO THE PARCEL IS THROUGH INTER-CONNECTED PARKING AREAS WITH ADJACENT PROPERTY(IES) IF APPROVED BY THE PLANNING COMMISSION IN CONSIDERATION OF SAFE AND EFFICIENT

FOR PROTECTION OF UNDERGROUND UTILITIES, THE CONTRACTOR SHALL CALL "MISS DIG" 1-800-482-7171 A MINIMUM OF 3 WORKING DAYS PRIOR TO ANY EXCAVATION. ALL "MISS DIG" PARTICIPATING MEMBERS WILL BE APPROPRIATELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

## UTILITY NOTE:

THE UTILITY LOCATIONS AS HEREON SHOWN ARE BASED ON FIELD OBSERVATIONS AND A CAREFUL REVIEW OF MUNICIPAL AND UTILITY COMPANY RECORDS. HOWEVER, IT IS NOT POSSIBLE TO DETERMINE THE PRECISE LOCATION AND DEPTH OF UNDERGROUND UTILITIES WITHOUT EXCAVATION. THEREFORE, WE CANNOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE BURIED UTILITY INFORMATION HEREON SHOWN. THE CONTRACTOR SHALL CALL "MISS DIG" (1-800-282-7171) PRIOR TO ANY EXCAVATION. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THESE UTILITY LOCATIONS PRIOR TO CONSTRUCTION AND SHALL MAKE EVERY EFFORT TO PROTECT AND OR RELOCATE THEM AS REQUIRED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER/SURVEYOR AS SOON AS POSSIBLE IN THE EVENT A DISCREPANCY IS FOUND. UNDERGROUND SERVICE LEADS FOR GAS, ELECTRIC, TELEPHONE AND CABLE MAY BE ACROSS PROPERTY, NO INFORMATION AVAILABLE PLEASE CALL MISS DIG.

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<b></b>	CATCH BASIN (R	OUND)	, p	HYDRANT	— E	EXISTING	I	]   1	FELEPHONE RISER	
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RD-CL	ROAD CENTERLINE				
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12" SS	STORM SEWER				
EX-TOS	TOE OF SLOPE				
EX-TOB	TOP OF BANK				
OHEOHE	UTILITIES - OVERHEAD				
UTIL	UTILITIES - UNDERGROUND				
12" WM	WATER MAIN				

<u>HATCH</u>	<u>PATTERNS</u>
	ASPHALT - EXISTING
	ASPHALT — PROPOSED
	CONCRETE
	GRAVEL
	LANDSCAPING
	RIP-RAP

A PARCEL OF LAND IN THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 14, T.14 N.-R.4 W., UNION TOWNSHIP, ISABELLA COUNTY, MICHIGAN DESCRIBED ÁS FOLLOWS: COMMENCING AT THE NORTHEAST CORNER OF SAID SECTION; THENCE S01°-23'-34"E., ON AND ALONG THE EAST LINE OF SAID SECTION, 396.51 FEET; THENCE N.88°26'-02"W., PARALLEL WITH THE NORTH LINE OF SAID SECTION, 368.78 FEET; THENCE N.01°-01'-58"E., ON A PREVIOUSLY SURVEYED AND DESCRIBED LINE, 396.00 FEET; THENCE S.88'-26'-02"E., ON AND ALONG SAID NORTH SECTION LINE, 352.00 FEET BACK TO THE POINT OF BEGINNING, CONTAINING 3.28 ACRES OF LAND AND BEING SUBJECT TO HIGHWAY USE OF THE NORTHERLY 60.00 FEET AND THE EASTERLY 33.00 FEET THEREOF AND ALSO BEING SUBJECT TO AND TOGETHER WITH ANY OTHER EASEMENTS, RESTRICTIONS OR RIGHTS OF WAY OF RECORD.

SHEET INDEX	<u> </u>
1	COVER SHEET
2	EXISTING TOPOGRAPHY
3	EASEMENT SHEET

BEARING BASIS: BEARING BASIS PER MICHIGAN STATE PLAN SOUTH THE BEARING BETWEEN THE NORTH 1/4 CORNER AND THE NORTHEAST CORNER WAS DETERMINED TO BE S.88°-26'-02"E.

SITE: SOUTHWEST CORNER ISABELLA ROAD AND PICKARD ROAD (M-20)

CLIENT: 990 LALLEY ROAD

IRON RIVER, MI 49935 CONTACT: CRAIG A. RICHARDSON, P.E. PHONE: (906) 214-4151

CONSULTANT: CENTRAL MICHIGAN SURVEYING & DEVELOPMENT CO., INC.

EMAIL: info@cms-d.com

2257 EAST BROOMFIELD ROAD MT. PLEASANT, MI 48858 CONTACT PERSON: TIMOTHY E BEBEE PHONE: (989) 775-0756 FAX: (989) 775-5012

CHARTER COMMUNICATIONS 915 E. BROOMFIELD ROAD MT. PLEASANT, MI 48858 (989) 621-4932 RANDY BUNKER rbunker@chartercom.com CONSUMERS ENERGY 1325 WRIGHT AVENUE ALMA, MI 48801 (989) 466-4282 ŘIM STUDT kimberly.studt@cmsenergy.com

345 PINE STREET ALMA, MI 48801 (989) 463-0392 MARK A. MARSHALL

Mark.Marshall@ftr.com 4420 44TH ST., S.E., SUITE B KENTWOOD, MI 49512 (616) 954-4623 MARY JO MCKERSIE mckersiem@dteenergy.com

MT. PLEASANT FIRE DEPARTMENT 804 EAST HIGH STREET MT. PLEASANT, MI 48858 (989) 779-5100 EXT 5122 LT. RANDY KEELER

rkeeler@mt-pleasant.org

CHARTER TOWNSHIP OF UNION PUBLIC WATER/PUBLIC SEWER 2010 N. LINCOLN ROAD MT. PLEASANT, MI 48858 (989) 772-4600 EXT 24 KIM SMITH ksmith@uniontownshipmi.com

CHARTER TOWNSHIP OF UNION PLANNING & ZONING 2010 NORTH LINCOLN ROAD MT. PLEASANT, MI 48858 (989) 772-4600 EXT 241 PETER GALLINAT pgallinat@uniontownshipmi.com

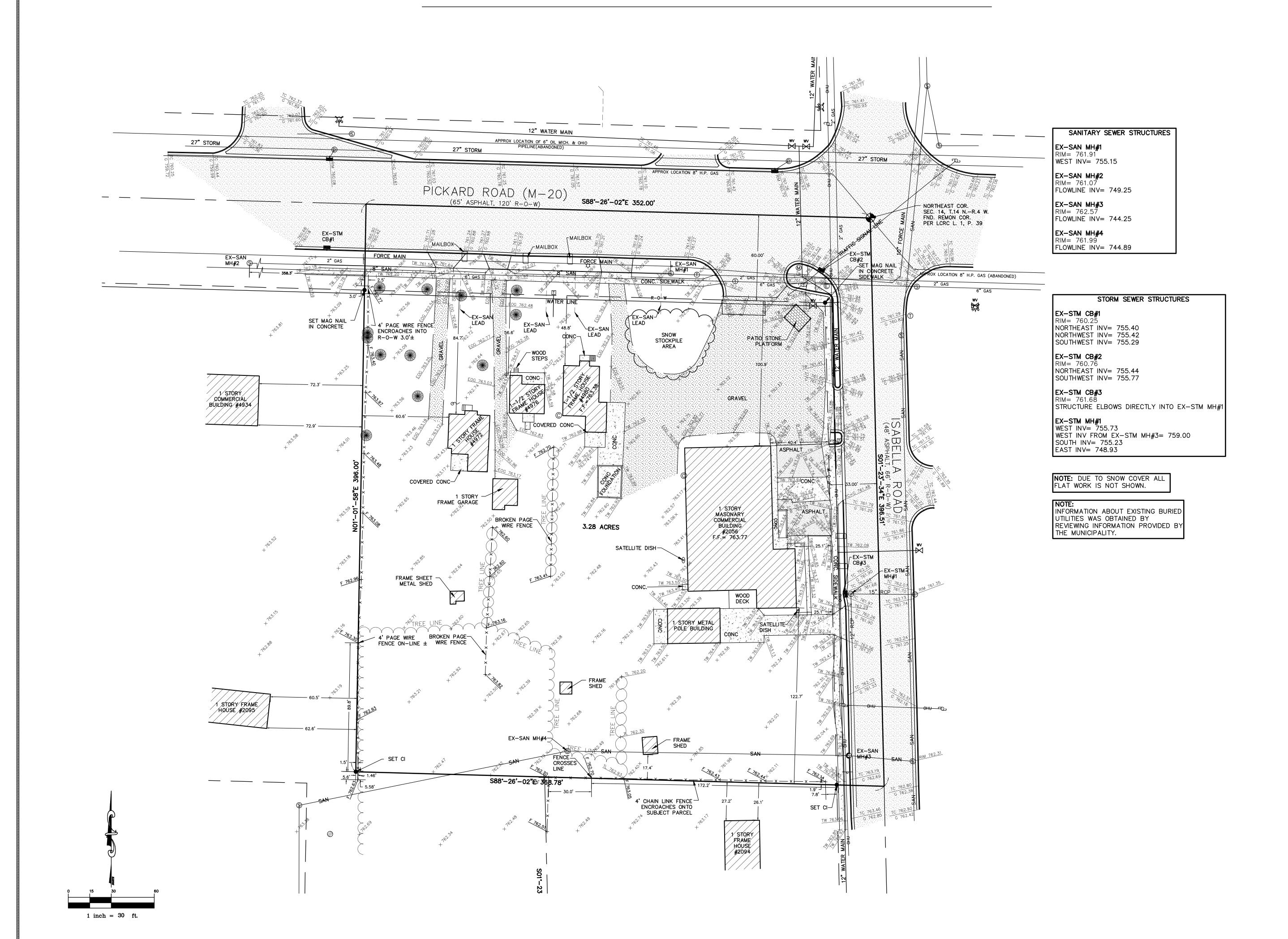
drain@isabellacounty.org

DRAIN COMMISSIONERS OFFICE ISABELLA COUNTY BUILDING 200 NORTH MAIN STREET ROOM 140 MT. PLEASANT, MI 48857 (989) 772-0911 RICK JAKUBIEC

ISABELLA COUNTY ROAD COMMISSION 2261 EAST REMUS ROAD MT. PLEASANT, MI 48858 (989) 773-7131 EXT 115 PATRICK GAFFNEY PGaffney@isabellaroads.com

JOB NU
2101DRAWN
BTM
DESIGNE
CHECKE
TELB

# EXISTING TOPOGRAPHY SURVEY



EYING / ENGINEE

S7 EAST BROOMFIELD RO
PLEASANT, MICHIGAN 48
PHONE: (989) 775-0756



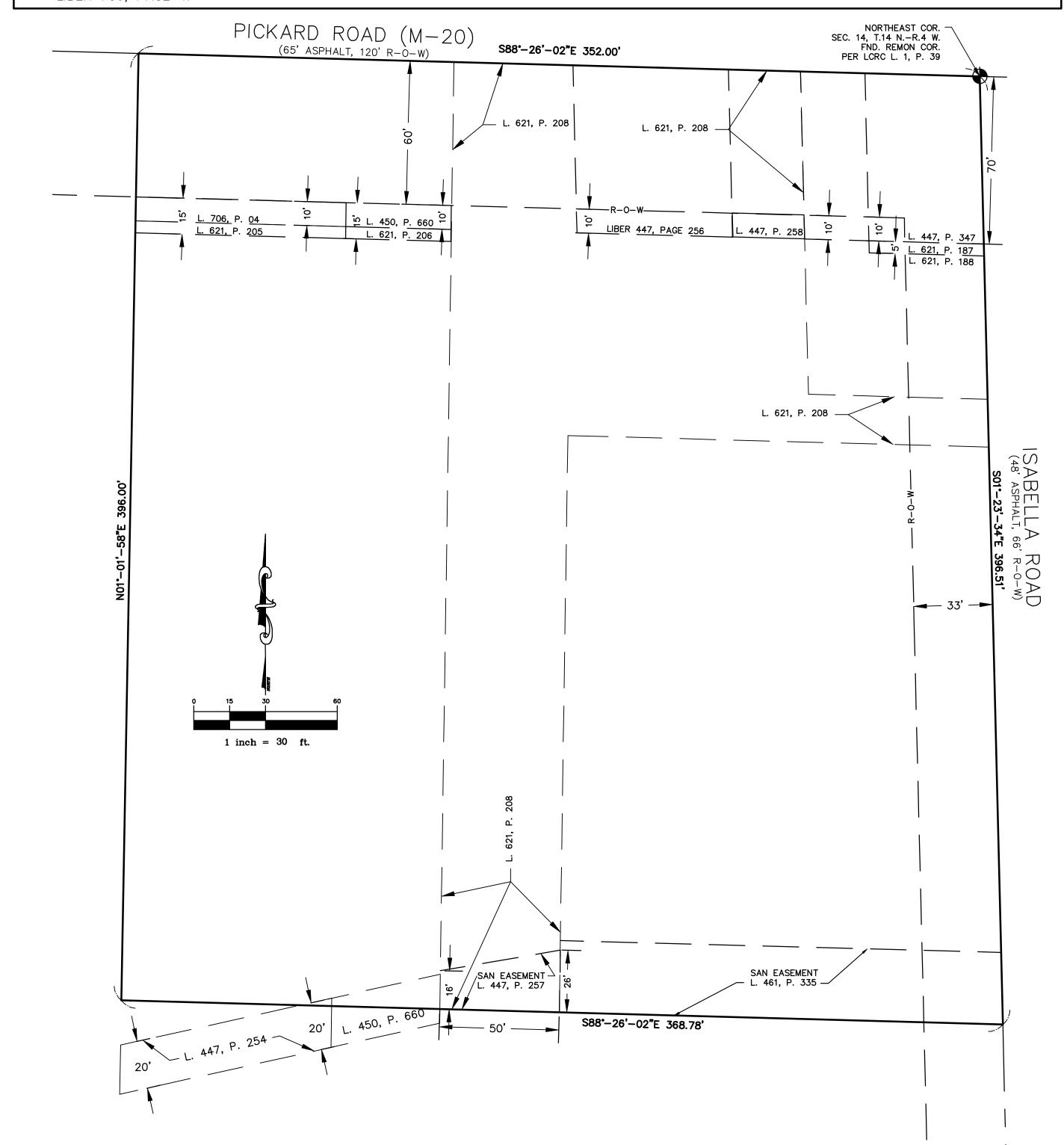
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MICHIGAN

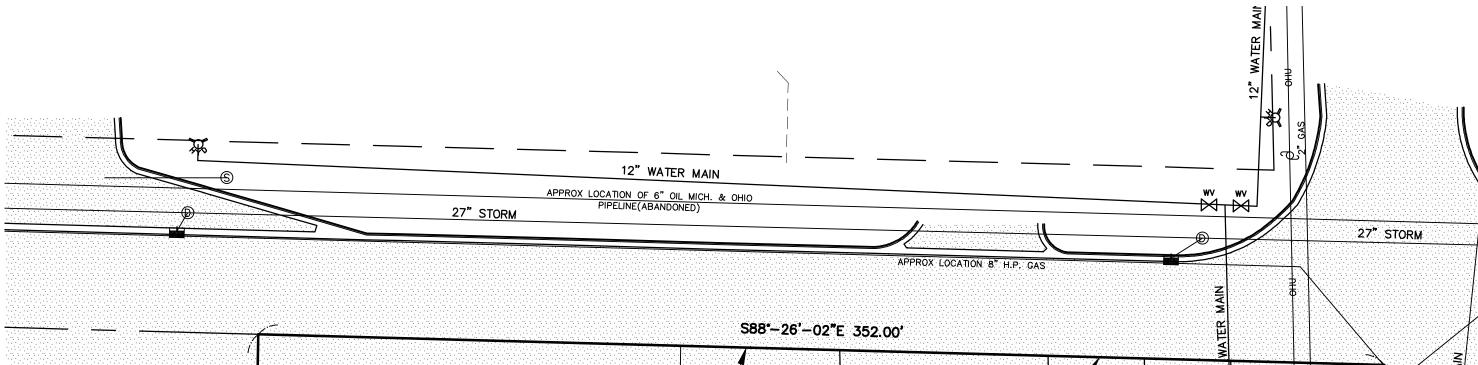
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UNION TOWNSHIP, ISABELLA COUNTY, MICHIC

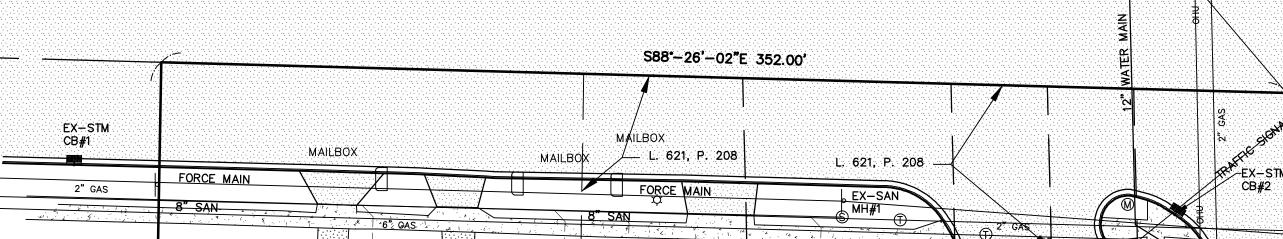
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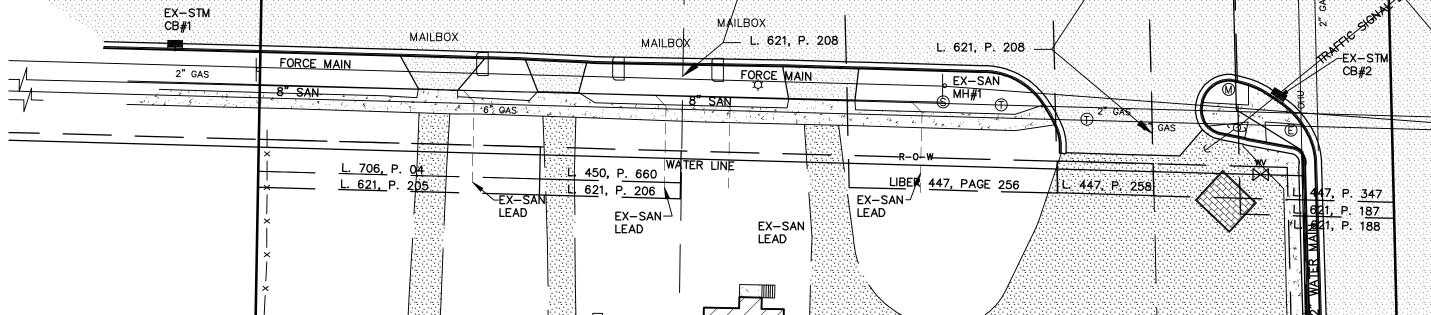


- 11. EASEMENT GRANTED TO UNION TOWNSHIP FOR SANITARY SEWER DATED MARCH 3, 1979 AND RECORDED APRIL 6, 1979 IN LIBER 447, PAGE 254
- 12. EASEMENT GRANTED TO UNION TOWNSHIP FOR SANITARY SEWER DATED MARCH 27, 1979 AND RECORDED APRIL 6, 1979 IN LIBER 447, PAGE 256 AND ALSO RECORDED IN LIBER 447, PAGE 257
- AND ANOTHER DATED APRIL 3, 1979 AND RECORDED APRIL 10, 1979 IN LIBER 447, PAGE 347.
- 15. EASEMENT GRANTED TO UNION TOWNSHIP FOR WATER PIPELINE DATED JANUARY 16, 1987 AND RECORDED OCTOBER 7, 1987 IN LIBER 621, PAGE 187 AND ANOTHER DATED FEBRUARY 19, 1987 AND RECORDED OCTOBER 7, 1987 IN LIBER 621, PAGE 188.
- 16. EASEMENT GRANTED TO UNION TOWNSHIP FOR WATER PIPELINE DATED JANUARY 13, 1987 AND RECORDED OCTOBER 7, 1987 IN LIBER 621, PAGE 205 AND ANOTHER DATED FEBRUARY 19, 1987 AND RECORDED OCTOBER 7, 1987 IN LIBER 621, PAGE 206.
- 17. EASEMENT GRANTED TO UNION TOWNSHIP FOR WATER PIPELINE DATED JULY 13, 1987 AND RECORDED OCTOBER 7, 1987 IN LIBER 621, PAGE 208.
- LIBER 706, PAGE 4.









1/STORY
MASONARY
COMMERCIAL
BUILDING
#2056
F.F.= 763.77 1 STORY METAL POLE BUILDING - **NOTE:**SANITARY SEWER FALLS
OUTSIDE OF EASEMENTSAN MH#4
AS DESCRIBED. - SAN EASEMENT — L. 461, P. 335 L. 447, P. 257

1 STORY FRAME HOUSE #2094

SCHEDULE B II EXCEPTIONS:

13. EASEMENT GRANTED TO UNION TOWNSHIP FOR SANITARY SEWER DATED MARCH 27, 1979 AND RECORDED APRIL 6, 1979 IN LIBER 447, PAGE 258

14. EASEMENT GRANTED TO UNION TOWNSHIP FOR SANITARY SEWER DATED JUNE 5, 1979 AND RECORDED JUNE 29, 1979 IN LIBER 450, PAGE 660 AND ANOTHER DATED MARCH 25, 1980 AND RECORDED APRIL 10, 1980 IN LIBER 461, PAGE 335.

18. EASEMENT FOR ELECTRIC FACILITIES GRANTED TO CONSUMERS POWER COMPANY DATED MARCH 20, 1990 AND RECORDED DECEMBER 21, 1990 IN

	JOB NOMBER:	SUBMITIALS:	REVISIONS:	
	2101-004	SUBMITTAL TO CLIENT 2-10-21		
	DRAWN BY:			
	WRE/BTM	SUBMITTAL TO CLIENT 318-21		
	DESIGNED BY:			PAR-
	N/A			•
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#### **Community and Economic Development Department**

2010 S. Lincoln Rd. Mt. Pleasant, MI 48858 989-772-4600 ext. 232

#### **FINAL SITE PLAN REPORT**

**TO:** Planning Commission **DATE:** April 12, 2022

**FROM:** Peter Gallinat, Zoning Administrator **ZONING:** B-7 Retail and Service Highway

**Business District** 

PROJECT: PSPR22-04 Final Site Plan Approval application - Krist Oil Filling Station (Gas

Station)

PARCEL(S): PID 14-014-20-002-00, 14-014-20-003-00, 14-014-20-004-00, 14-014-20-007-00,

14-014-20-008-00, 14-014-20-009-00, and 14-014-20-011-01 (Yats Dr., vacant).

**OWNER(S):** Michigan Reserves Inc.

LOCATION: Approximately 2.6 acres located at the SW corner of E. Pickard Road and S.

Isabella Road in the NE 1/4 of Section 14.

**EXISTING USE:** One family residential dwellings **ADJACENT ZONING:** B-7, B-5

and commercial building

**FUTURE LAND USE DESIGNATION:** *Retail Service*: This district is intended for the widest variety of retail and service businesses. They could range from apparel shops, auto service, and restaurants through small commercial strip centers and office buildings. This district is not intended for heavy commercial/light industrial uses like landscaping or contractor yards, heavy auto repair, or similar uses that may require some form of outside storage. Locations for this district are based on arterial road frontage and the need for high traffic volumes with convenient, well-managed access.

**ACTION REQUESTED:** To review and take action to approve, deny, or approve with conditions the PSPR22-04 final site plan dated 02-14-2021 for Krist Filling station (Gas Station) located on the SW corner of E. Pickard Road and S. Isabella Road in the NE 1/4 of Section 14 and in the B-7 (Retail and Service Highway Business) zoning district.

### **Site Plan Approval Process**

Per Section 14.2.C. of the Zoning Ordinance, both preliminary site plan approval and final site plan approval are required for this project. Per Section 14.2.J., approval of a preliminary site plan by the Planning Commission "shall indicate its general acceptance of the proposed layout of buildings, streets, drives, parking areas, and other facilities and areas." Planning Commission approval of a final site plan "constitutes the final zoning approval for the project and allows for issuance of a building permit to begin site work or construction, provided all other construction and engineering requirements have been met" (Section 14.2.L.). Documentation of applicable outside agency permits and approvals will be required as part of a final site plan application.

#### **Final Site Plan Review Comments**

The following comments are based on the standards for final site plan approval and specific elements of the proposed site plan:

- 1. **Section 4 (Yard Setback Requirements).** The setbacks used for the plan are 15-feet front yard and 10-feet side/rear yard. This is consistent with what the setbacks were when this project was given preliminary site plan approval and special use permit approval. Since that time, the setback requirements have changed to 10-feet side yard and 20-feet front/rear yard. The project conforms to the new requirements. However, staff sees no reason to require the new setbacks to be depicted on the plan, since the preliminary site plan was approved prior to the change. Any changes proposed in future site plans for this site will need to meet the new setback requirements. **CONFORMS**
- Section 8 (Environmental Performance Standards). Application provides the hazardous substance reporting form and EGLE permit checklist form included in the application materials. CONFORMS
- 3. **Section 9 (Off-Street Parking).** Parking calculations have been provided on the site plan and are consistent with Section 9 standards for the proposed uses. The dimensions of the 90-degree parking spots comply with the size requirements of Section 9. Total required parking spaces are 37 and the plan proposes 43 spaces.
- 4. **Section 7.10 (Sidewalks and Pathways).** The applicant has proposed to provide a new internal sidewalk connection into the site to the public building entrance. <u>The following</u> sidewalk detail will need to be addressed by the applicant on a revised final site plan:
  - ☐ Confirm that all internal sidewalks abutting parking spaces are at least seven (7) feet in unobstructed width to allow for vehicle overlap by adding a dimension to the plan. If outside displays or sales areas are proposed adjacent to the building, they must be located outside of this unobstructed width. Sidewalk is 7-feet wide. The sidewalk on the north side of the building needs to be widened to 10-feet to account for the 3-footwide sales area on the sidewalk. Sidewalk can remain 7-feet wide if the dedicated sales area is removed.
- 5. Section 6.18 (Filing Stations for the Sale of Gasoline, Oil, Propane, and Vehicle Accessories). The applicant has demonstrated compliance with the standards of this Section for access, minimum lot size, and setbacks for buildings, but not the standard for exterior lighting under the filling station canopies. The following details will need to be addressed by the applicant on a revised final site plan:
  - □ Exterior illumination levels under the diesel and gas filling station canopies cannot exceed a maximum of 20.0 foot-candles. <u>Current plans show 30 to 40+ foot-candles</u> in this area.
- 6. **Section 8.2 (Exterior Lighting).** With the exceptions of the under-canopy lighting noted in #5 above and lighting around the immediate perimeter of the building, exterior

illumination levels elsewhere on the site conform to Section 8.2 standards. The following detail will need to be addressed by the applicant on a revised final site plan:

□ Exterior illumination levels around the building cannot exceed a maximum of 10.0 foot-candles. Current plans show 10.2 to 25+ foot-candles in this area.

- ☐ The LCG-CP lights identified as S on the photometric plan do not appear to be down-shielded like the LCG-WPFC lights identified as P on the photometric plan. <u>All exterior lighting fixtures must be fully-shielded and directed straight downward, with updated details and specifications provided on the exterior lighting plan.</u>
- 7. **Building Form and Composition.** The proposed building design is consistent with applicable building form and composition standards of the Zoning Ordinance, and has been updated to adequately screen all rooftop HVAC equipment with parapet walls on all four sides of the building. **CONFORMS**
- 8. **Section 9.5 (Loading Space Requirements).** The applicant has provided one (1) loading space that is in a location staff has determined to be acceptable per Section 9.5 standards as applied to this site and use. A note has been added to the site plan to confirm that all deliveries will take place when the facility is not open to the public. **CONFORMS**
- 9. **Section7.14 (Trash Removal and Collection).** The applicant has provided on the plan an 8.5-foot-high decorative masonry dumpster enclosure, which has been moved from the south to the west side of the building and is 12 feet from the building. The gate will be a steel frame painted tricorn black (see sheet 17). **CONFORMS**
- 10. **Section 10 (Landscaping and Screening)** The applicant has not requested any waiver from the requirements of section 10 as was indicated in the preliminary plan. As noted on sheet 12, the plan now meets or exceeds applicable landscaping and screening requirements. The applicant has addressed all of the preliminary site plan comments and requested changes on the updated landscape plan. **CONFORMS**
- 11. **Section 11 (Signs).** The applicant has proposed conceptual sign details on the final site plan, which appear to be consistent with applicable Ordinance standards. <u>Administrative approval of sign permit applications for the building-mounted and freestanding signage will be necessary prior to any sign installations.</u>
- 12. **Land Division/Land Combination Required.** The proposed development is located on parts of or otherwise impacts a total of seven (7) separate parcels of land, as noted at the top of this report. Prior to the issuance of any building permit for this project, the applicant and landowner shall provide documentation to the Zoning Administrator of:
  - ☐ Township Assessor approval of a land division/land combination application for division and re-combination of the subject parcels to establish:
    - One (1) new parcel for the Krist Oil Filling Station site that is fully consistent with the approved final site plan; and
    - One (1) remainder parcel (vacant) with direct frontage on and access to the

Yats Dr. right-of-way consistent with Section 7.17.B. (Public Access Required/Minimum Frontage) requirements.

13. **Outside agency approvals.** The following approvals have been obtained: Mt. Pleasant Fire Department, Isabella County Road Commission, and Storm Water approval from the Isabella County Drain office Isabella County Transportation Commission, and the Township Public Services Department. **CONFORMS** 

#### **Special Use Permit – Conditions of Approval**

With approval of the final site plan the applicant will have fully satisfied all of the following conditions of the special use permit approval granted in 2021: **CONFORMS** 

- 1. Preliminary and Final site plan approved by Planning Commission.
- 2. Hours of operation shall be limited to from 6am to midnight with no loudspeakers or amplified music will be used outside of the building
- A decorative masonry wall shall be provided along the south and west sides of the paved area along with required greenbelt buffer or evergreen screen plantings adjacent to the lot boundaries to adequately buffer adjacent residences from visual and noise impacts
- 4. The pursuit of a traffic study.

### **Objective**

The Planning Commission shall review the application materials and site plan, together with any reports and recommendations. The Planning Commission shall identify and evaluate all relevant factors and shall then take action by motion to approve the site plan, to approve the site plan with conditions, to deny the site plan application, or to postpone further consideration of the site plan to a date certain in accordance with Section 14.2.H. of the Zoning Ordinance.

#### **Key Findings**

- 1. The proposed use and site plan satisfy the conditions of the approved special use permit.
- 2. The internal sidewalk on the north side of building either needs to be widened for the proposed sales area or the sales area must be removed. With this adjustment, the final site plan can fully conform to Section 14.2.P. (Required Site Plan Information).
- Lighting under the diesel and gas filling station canopy must be reduced to a maximum of 20.0 foot-candles. Lighting around the convenience store must be reduced to a maximum of 10.0 foot-candles and all exterior light fixtures must be fully-shielded and directed straight downward.
- 4. A land division and re-combination of the subject parcels will be required to establish one (1) new Krist Oil Filling Station parcel and one (1) remainder parcel (vacant) on Yats Dr.

#### **Recommendations**

Based on the above findings, I would recommend that the Planning Commission approve the PSPR22-04 final site plan dated 02-14-2021 for Krist Filling station (Gas Station) located on the SW corner of E. Pickard Road and S. Isabella Road in the NE 1/4 of Section 14 and in the B-7 (Retail and Service Highway Business) zoning district, subject to the following conditions:

- 1. Widen the internal sidewalk on the north side of building to at least ten (10) feet to accommodate the proposed sales area, or remove the sales area from the site plan.
- 2. Reduce exterior illumination levels under the diesel and gas filling station canopies to a maximum of 20.0 foot-candles and everywhere else on the site to a maximum of 10.0 foot-candles, and update exterior light fixtures as needed to be fully-shielded and directed straight downward with details and fixture specifications provided on an updated exterior lighting plan sheet submitted to the Zoning Administrator for review and approval prior to issuance of a building permit for this project.
- 3. Township Assessor approval of a land division/land combination application for division and re-combination of the seven (7) subject parcels [PID 14-014-20-002-00, -003-00, -004-00, -007-00, -008-00, -009-00, and -011-01 (Yats Dr., vacant)] to establish one (1) new parcel for the Krist Oil Filling Station site that is fully consistent with the approved final site plan, and one (1) remainder parcel with direct frontage on and access to the Yats Dr. right-of-way consistent with Section 7.17.B. (Public Access Required/Minimum Frontage) requirements.

Please contact me at (989) 772-4600 ext. 241, or via email at pgallinat@uniontownshipmi.com, with any questions about this information.

Respectfully submitted,

Peter Gallinat, Zoning Administrator

Community and Economic Development Department

### <u>Draft Motions</u>: PSPR 22-04 Krist Oil Filling Station Final Site Plan Review Application

мотіс	ON TO APPROVE:
approx in the r district Ordina	n by
MOTIC	ON TO APPROVE WITH CONDITIONS:
approx in the r district require	n by, supported by, to re the PSPR22-04 final site plan dated 02-14-2021 for the new Krist Oil Filling Station on simately 2.6 acres of land on the southwest corner of E. Pickard Road and S. Isabella Road northeast quarter of Section 14 and in the B-7 (Retail and Service Highway Business) zoning finding that the February 14, 2022 site plan can comply with applicable Zoning Ordinance ements for final site plan approval, including Sections 14.2.P. (Required Site Plan ation) and 14.2.S. (Standards for Site Plan Approval), subject to the following condition(s):
1.	Prior to issuance of any building permit for this project, Township Assessor approval of a land division/land combination application for division and re-combination of the seven (7) subject parcels [PID 14-014-20-002-00, -003-00, -004-00, -007-00, -008-00, -009-00, and -011-01 (Yats Dr., vacant)] to establish one (1) new parcel for the Krist Oil Filling Station site that is fully consistent with the approved final site plan, and one (1) remainder parcel with direct frontage on and access to the Yats Dr. right-of-way consistent with Section 7.17.B. (Public Access Required/Minimum Frontage) requirements.
2.	Widen the internal sidewalk on the north side of building to at least ten (10) feet to accommodate the proposed sales area, or remove the sales area from the site plan.
3.	Reduce exterior illumination levels under the diesel and gas filling station canopies to a maximum of 20.0 foot-candles and elsewhere on the site to a maximum of 10.0 foot-candles, and update exterior light fixtures as needed to be fully-shielded and directed straight downward with details and fixture specifications provided on an updated exterior lighting plan sheet.
4.	The updated final site plan shall be subject to Zoning Administrator review and approval prior to issuance of a building permit for this project.

MOTION TO POSTPONE ACTION:	
Motion by, supported by, postpone action on the PSPR22-04 final site plan dated February 14, 2022 for the new Kristensen Strategies.	, to
Filling Station on approximately 2.6 acres of land on the southwest corner of E. Pickard Road S. Isabella Road until	
MOTION TO DENY:	
Motion by	n on Road oning oning