

Trustees
John Newman II
Gloria Peterson
Debbie Swanson
Ryan Hunter

#### REGULAR MEETING AGENDA

Tuesday, October 24, 2023 6:30 P.M.

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

- 1. CALL TO ORDER
- 2. ROLL CALL
- 3. APPROVAL OF THE SEPTEMBER 26, 2023, REGULAR MEETING MINUTES
- 4. APPROVAL OF AGENDA
- 5. PUBLIC HEARINGS
- 6. OLD BUSINESS
- 7. NEW BUSINESS
  - A. PRELIMINARY SITE PLAN KALITTA TURBINES LLC 2830 TYLER ROAD PARCEL K11-13-206-007 TO CONSIDER THE PRELIMINARY SITE PLAN APPLICATION OF KALITTA
    TURBINES INC. TO PERMIT THE CONSTRUCTION OF A NEW BUILDING, PROPOSED
    FUTURE BUILDING, ASSOCIATED PARKING, AND SITE IMPROVEMENTS FOR A 6.0 ACRE
    SITE ZONED I-C INDUSTRIAL AND COMMERCIAL
- 8. OPEN DISCUSSION FOR ISSUES NOT ON THE AGENDA
  - A. CORRESPONDENCE RECEIVED
  - B. PLANNING COMMISSION MEMBERS
  - C. MEMBERS OF THE AUDIENCE
- 9. TOWNSHIP BOARD REPRESENTATIVE REPORT
- 10. ZONING BOARD OF APPEALS REPRESENTATIVE REPORT
- 11. TOWNSHIP ATTORNEY REPORT
- 12. PLANNING DEPARTMENT REPORT
- 13. OTHER BUSINESS
- 14. ADJOURNMENT

Please Note: This meeting is being recorded.

#### CHARTER TOWNSHIP OF YPSILANTI PLANNING COMMISSION MEETING Tuesday, September 26, 2023 6:30 pm

#### **COMMISSIONERS PRESENT**

Bill Sinkule, Chair Elizabeth El-Assadi, Vice-Chair Gloria Peterson Larry Doe Muddasar Tawakkul Bianca Tyson Caleb Copeland

#### **STAFF AND CONSULTANTS**

Jason Iacoangeli AICP, Planning Director
Fletcher Reyher, Planning and Development Coordinator
Dennis McLain, Township Attorney

#### i. CALL TO ORDER/ESTABLISH QUORUM

**MOTION**: Mr. Sinkule called the meeting to order at 6:30 pm.

#### ii. APPROVAL OF SEPTEMBER 2023 REGULAR MEETING MINUTES

**MOTION**: Mr. Tawakkul **MOVED** to approve the September 12, 2023, regular meeting minutes. The **MOTION** was **SECONDED** by Mr. Doe and **PASSED** by unanimous consent.

#### iii. APPROVAL OF AGENDA

**MOTION**: Ms. Peterson **MOVED** to approve the proposed agenda. The **MOTION** was **SECONDED** by Ms. El-Assadi and **PASSED** by unanimous consent.

#### iv. **PUBLIC HEARINGS**

a. **SPECIAL LAND USE – MOTOWN HOLDINGS, INC. – 6630 RAWSONVILLE ROAD – PARCEL K-11-25-400-014** – TO CONSIDER THE SPECIAL LAND USE PERMIT APPLICATION OF MOTOWN HOLDINGS, INC. TO PERMIT THE CONSTRUCTION OF A TRUCK TERMINAL AND USES WHICH HAVE AN INDUSTRIAL CHARACTER IN TERMS OF EITHER THEIR OUTDOOR STORAGE REQUIREMENTS OR ACTIVITIES SUCH AS SUTOMOBILE GARAGES FOR A 6.030 ACRE SITE ZONED L-M – LOGISTICS AND MANUFACTURING.

Mr. Iacoangeli, Planning Director, presented to the Commission a special land use application to permit a truck terminal at 6630 Rawsonville. The subject site is 6 acres, zoned L-M – Logistics and Manufacturing, and is designated as Innovation and Employment is the 2040 Master Plan.

Mr. Iacoangeli presented the Commission with an aerial view of the property taken from GIS. The surrounding properties are contractors' yard to the North, nursery, and storage yard to the South, residential to the east, and railroad / storage to the West. All surrounding properties share the same future land use designation of innovation and employment.

Mr. lacoangeli shared the analysis of the outside reviewing agencies:

Planning Consultant Carlisle Wortman Associates reviewed the Preliminary Site Plan and has recommended approval in their letter dated August 14, 2023. CWA lists the following items need to be addressed by the Planning Commission and applicant prior to making a motion:

- 1. Circulation approval by the Township Fire Marshall.
- 2. The Planning Commission should consider waiving additional landscaping along Rawsonville Road but require parking lot landscaping and detention pong landscaping.
- 3. Install dimmers to dim lights to 50% at dusk.
- 4. Provide dumpster screening.
- 5. Based on the discussion with the applicant, the Planning Commission should consider limiting the number of drivers/trucks that operate from the site to 15.

Engineering Consultant – OHM recommended approval for this stage of the process in their August 30, 2023, review letter. OHM has provided preliminary detailed engineering comments that will be addressed at the time of Final Site Plan and Detailed Engineering.

Ypsilanti Community Utilities Authority (YCUA) reviewing agent Acott Westover has recommended preliminary site plan approval in a letter dated August 30, 2023.

Ypsilanti Township Fire Department: Reviewing agent Steve Wallgren has recommended preliminary site plan approval in a letter dated August 30, 2023.

Washtenaw County Water Resources Commission reviewing agent Theresa Marsik offered comments in their letter dated September 8, 2023.

Washtenaw County Road Commission offered comments in their email dated June 27, 2023. The comments were minor due to the applicant utilizing an existing driveway.

Ms. El-Assadi asked Mr. Iacoangeli about the Carlisle Wortman report regarding the need for more than 15 spaces.

Mr. Iacoangeli stated that the applicant could answer this question better, but Carlisle Wortman Associates did ask the applicant multiple questions when putting together their report. Mr. Iacoangeli went through the questions asked for the commissioners:

- 1. Are trucks picked up daily and returned every night or are trucks gone for extended periods of time?
  - a. Both daily and extended periods 50/50 currently. Things change with the market.
- 2. Do trucks stored hold any freight in them overnight or is all cargo removed before they return to site?
  - a. In some cases, they will have pending delivery that will stay overnight.
- 3. What is the normal truck pick up and drop-off times?
  - a. Normal times are 7am to 7pm. Though traffic conditions may alter time.
- 4. Are goods that are shipped stored in onsite warehouse?
  - a. No. Only stay in truck. Locked at all times.
- 5. Other than trucks, is there any outdoor storage proposed?
  - a. No.
- 6. If only 15 drivers are proposed, why are there so many truck spaces?
  - a. Extra space for trailer to be dropped.
- 7. Are there any other truck repairs other than oil change, tire repair, and filter replacement?
  - a. All items allowed under light maintenance.

Mr. Iacoangeli had the applicant Mr. Sandhu approach the stand to answer any questions the commissioners may have. The applicant's engineer, Mr. Jerry Sosnowski, approached the stand to represent the applicant in the absence of Joseph Maynard of Washtenaw Engineering. Mr. Sosnowski gave credit to Mr. Iacoangeli for representing the project fairly and accurately. Mr. Sosnowski gave the commissioners an overview of the project and how the trucking terminal operates on an average day. Mr. Sosnowski tried to answer all the questions outlined in the report.

Ms. El-Assadi asked Mr. Sosnowski why they are unable to meet the landscaping requirements as outlined in the Staff Report. Mr. Sosnowski went into the parking lot landscaping requirements in detail. Per the applicant, maneuvering semi-trucks is a difficult process and adding landscaping to the parking lot would make the operation much more difficult for drivers. For the stormwater detention landscaping, Mr. Sosnowski discussed that infiltration infrastructure takes up a large surface area of the parcel. They need to keep the stormwater infrastructure clear of vegetation for it to work properly. For the street yard landscaping, Mr. Sosnowski stated that there are existing mature evergreen trees. The location of the house, existing landscaping, driveway, and other utilities make it difficult to add any more landscaping.

Ms. El-Assadi asked for further details on why they need 30 truck spaces when they only have 15 drivers / trucks. Mr. Sosnowski waived the applicant Mr. Sandhu to the stand to answer additional questions. Mr. Sandhu stated that additional spaces are needed for the storage of trailers. Trailers would be periodically dropped off for drivers to pick up.

Ms. Peterson asked the applicant what the hours of operation are and whether the site would be secure. The applicant stated that the hours of operation are 7am to 7pm. The trucks left on site

would have freight stored inside the trailers. The trailers will be locked and secured if left overnight. Ms. Peterson had a follow-up question about whether the site is fenced in. Mr. Sandhu stated that the property currently has a fence in the front yard. The applicant plans on adding additional fencing to enclose the rear of the property.

Mr. Tawakkul asked the applicant how long the applicant has been doing this business and whether he plans on expanding in the future. Mr. Sandhu stated that he has been doing this trucking business since 2008. Currently, the amount of work he has is enough and he does not plan on expanding due to wanting to spend more time with family.

Mr. Doe asked that applicant if he is currently using the site. Mr. Sandhu stated that he is currently using multiple sites outside of the Township but would like to consolidate the business in one place.

#### Public Hearing opened at 6:51 PM

**Hearing No Public Comments.** 

#### **Public Hearing closed at 6:52 PM**

**MOTION:** Mr. Tawakkul **MOVED** to approve the special land use permit for construction of a 31-sapce truck storage, and use of mechanic shop, and office located at 6630 Rawsonville Road, Parcel K-11-25-400-014, with the following conditions:

- 1. Applicant shall address all outstanding comments from reviewing agencies prior to Final Site Plan Approval.
- 2. Applicant shall obtain all applicable internal and outside agency permits prior to construction.
- 3. The applicant shall install dimmers to dim lights to 50% at dusk.
- 4. The applicant shall provide dumpster screening.
- 5. The residential structure is not to be rented or used for residential uses. The residential structure is only to be used for office purposes.
- 6. No outdoor storage of inoperable vehicles and vehicle parts.
- 7. No outdoor storage of 3rd party trucks. All trucks must be part of the Motown Holdings, Inc. fleet.
- 8. All vehicle repairs are for fleet vehicles only. The repair of 3rd party vehicles shall be prohibited.
- 9. Any other conditions based upon Planning Commission Discussion.

#### The **MOTION** was **SECONDED** by Mr. Doe

**Roll Call Vote:** Mr. Copeland (Yes); Ms. El-Assadi (Yes); Mr. Tawakkul (Yes); Mr. Tyson (Yes); Mr. Doe (Yes); Ms. Peterson (Yes); Mr. Sinkule (Yes).

#### MOTION PASSED.

Mr. Sinkule moved on to the next item but asked Mr. Iacoangeli if the Preliminary Site Plan should be addressed now. Mr. Iacoangeli suggested that the commission make a motion on the Preliminary Site Plan of Motown Holdings, Inc.

**MOTION:** Mr. Tawakkul **MOVED** to approve the Preliminary Site Plan for construction of a 31-sapce truck storage, and use of mechanic shop, and office located at 6630 Rawsonville Road, Parcel K-11-25-400-014, with the following conditions:

- 1. Applicant shall address all outstanding comments from reviewing agencies prior to Final Site Plan approval.
- 2. Applicant shall obtain all applicable internal and external agency permits prior to construction.
- 3. Any other conditions based upon Planning Commission Discussion.

The **MOTION** was **SECONDED** by Mr. Doe

**Roll Call Vote:** Mr. Copeland (Yes); Ms. El-Assadi (Yes); Mr. Tawakkul (Yes); Mr. Tyson (Yes); Mr. Doe (Yes); Ms. Peterson (Yes); Mr. Sinkule (Yes).

MOTION PASSED.

#### v. **PUBLIC HEARINGS**

a. **ZONING ORDINANCE TEXT AMENDMENT** – TO CONSIDER THE PROPOSED CHANGES TO THE FOLLOWING ZONING ORDINANCES.

Mr. lacoangeli informed the Commission that most of the amendments were supposed to go through with the last batch, but due to a publication issue, it was sent as a separate batch of amendments to the Board.

Mr. Iacoangeli requested the Commission make a motion to send the zoning ordinance amendments to the Township Board for its first reading.

1) ARTICLE 2, SECTION 201. – DEFINITIONS: The new addition to the definition section.

**Adaptive Reuse:** The development of a new use for an older building or for a building originally designed for a special or specific purpose.

- 2) ARTICLE 4, SECTION 420. USE TABLE.
- 3) ARTICLE 5, SECTION 504. NEIGHBORHOOD CORRIDORS.
- 4) ARTICLE 5, SECTION 505. REGIONAL CORRIDORS.
- 5) ARTCILE 5, SECTION 507. DESIGN STANDARDS.

This additional language wasn't included in the zoning ordinance when it was adopted about a year and a half ago "Transparency Alternatives."

Transparency alternatives. The following alternatives may be used singularly or in combination for any side or rear-facing facade which requires transparency. If used in combination, they may count toward no more than 50% of the transparency requirement. Transparency alternatives may be used but cannot be counted toward the transparency requirements for facades that face a right-of-way.

- a. Wall design. Wall designs must provide a minimum of three of the following elements, occurring at intervals no greater than 25 feet horizontally and 10 feet vertically.
  - Expression of the structural system and infill panels through a change in plane not less than three inches.
  - System of horizontal and vertical scaling elements, such as: belt courses, string courses, cornice, and pilasters.
  - System of horizontal and vertical reveals not less than one inch in width/depth.
  - Variations in material module, pattern, and/or color.
  - System of integrated architectural ornamentation.
- b. Outdoor dining/seating: inclusion of outdoor dining/seating located between the building and the primary street lot line.
- c. Permanent art: noncommercial art or graphic design of sufficient scale and orientation to be perceived from the public right-of-way and rendered in materials or media appropriate to an exterior, urban environment and permanently integrated into the building wall.

These criteria, even though they did not exist in the ordinance, were used as part of the Aldi development to allow them to achieve some of their transparency requirements for parts of their building. And one of those choices that they made was the permanent art because they will be putting an art area at the corner of Huron and Brinker.

6) ARTICLE 11, SECTION 1155. – STATE-LICENSED RESIDENTIAL CHILD AND ADULT CARE FACILITIES.

Struck out explicit state licensing rules that are subject to change and swapped them with State of Michigan licensing rules.

This change was made due to running into issues where ordinances have explicit legal numbers in them, and then the state numbers change, and the ordinance doesn't reflect it.

The other change is that the site shall comply with the sign provisions of Article 15.

7) ARTCILE 11, SECTION 1167. – ADAPTIVE REUSE

- i. **Intent**: The intent of this is to facilitate the retention and conversion of older, economically distressed, existing, underutilized, or historically significant buildings to viable uses. Reuse of existing buildings will help to reduce vacant space, create opportunities for new development, and reduce property degradation and blight. Encouraging the reuse of buildings is a sustainable practice to retain much of the energy that went into their initial construction and reduce greenhouse gas emissions. Specifically, the intent of this section is to:
  - a. Provide regulations specifically tailored to encourage and promote the rehabilitation of older used and underutilized buildings.
  - b. Provide for a mix of uses within said adaptive reuse developments, which promote the economic revitalization of Ypsilanti Township.
  - c. Promote the retention of older buildings and lands, which enhance the image and preserve the heritage of Ypsilanti Township.
  - d. Provide reasonable standards for the blending of new construction with existing buildings to allow quality development of older structures within contemporary development and building standards.
- ii. **Criteria:** The provisions of this section are intended to modify the standards otherwise applied to the site by its underlying zoning district. Unless specifically modified by this chapter, all other standards adopted shall apply.

Projects must meet the following criteria to be eligible adaptive reuse projects:

- The project site shall be located in an NB, Neighborhood Commercial, GB, General Commercial, Regional Commercial Form-Based district, Neighborhood Corridor Form-Based district, or the adaptive reuse of a civic building or public-school building in any district.
- This applies to any building that is at least 20 years old and that was constructed in accordance with building and zoning codes in effect at the time of construction.
- The project results in a change of use in all or a portion of the existing building.
- The existing building may not be destroyed by any means to the extent of more than fifty (50) percent of its replacement cost.
- iii. **Allowances:** The setbacks, height loading and parking. The building must have ample parking. Loading the height can exceed the maximum height of the district that it's in. The setbacks need to be considered legally non-conforming, and no further encroachments can be permitted on non-conforming setbacks.

#### iv. Uses:

- Permitted Uses: Any use that is permitted to use in the underlying zoning district.
- Assembly Uses, Clubs, Banquet Halls and other such uses are not permitted.
- The following uses shall be allowed as a Special Use- Planning Commission approval if they are within an adaptive reuse development:
  - i. Any use that is a Special-Use Planning Commission in the underlying zoning district.
  - ii. Indoor Climate Controlled Self-Storage for reuse of buildings greater than 50,000 square feet.
  - iii. Retail greater than 20,000 sq/ft.
  - iv. Commercial kennel/Pet Day Care.
  - v. Veterinary clinic/veterinary hospital
  - vi. Fitness, gymnastics, exercise centers, and indoor recreational facilities.
- vii. Theatres.
- viii. Art Studios
- ix. Trade Schools and other educational uses.
- x. Offices and Flex Office Space.
- xi. Daycare.
- xii. Craft trades such as breweries, coffee roasters, bakeries, or culinary businesses.
- Unless listed in this section, other uses are not permitted.

#### v. Specific Conditions:

- a. The provisions of this zoning overlay are intended to modify the standards otherwise applied to the site by its underlying district. Unless specifically modified by this chapter, all other standards adopted for this site shall apply.
- b. All adaptive reuse projects require site plan review as provided for in Article
- c. Adaptive Reuse Projects require a Development Agreement approved by the Township Board of Trustees.
- d. Expansions to the floor area of an eligible building and new construction on the lot must comply with the dimensional requirements provided in the district in which it is located.
- e. The following site elements must be brought into compliance:
  - Parking lot pavement/repairs

- Lighting as set forth in Section 1303.
- Landscaping as set forth in Section 1301
- f. The application shall make necessary façade improvements as required by ordinance.
- g. The adaptive reuse project may include both additions and new construction.
- h. The application shall include security camera and license plate readers.
- i. The Planning Commission has the authority to require traffic, environmental, and other reports that aid the site plan review.

Mr. Iacoangeli stated that the zoning section permits to utilize existing buildings that would not otherwise be utilized in the manner that they were initially built.

#### Public Hearing opened at 7:10 PM

Township Resident Peter Marcus had an opportunity to share with the Planning Commission regarding the Adaptive Reuse Zoning Ordinance proposal. Mr. Marcus thought that convention centers and hotels should be added to the list of allowable land uses. The former Walmart building on Ellsworth Road would be perfect for a convention center and hotel. Mr. Marcus states that he has been in the hospitality / hotel business for 40 years and could utilize this space for a popular convention center bringing in people from Michigan, Illinois, Indiana, and Ohio.

#### Public Hearing closed at 7:15 PM

**MOTION:** Mr. Tawakkul **MOVED** to recommend approval of the proposed zoning ordinance amendments and to send the proposed amendments to the Township Board for the first reading.

The **MOTION** was **SECONDED** by Mr. Doe.

**Roll Call Vote:** Mr. Copeland (Yes); Ms. El-Assadi (Yes); Mr. Tawakkul (Yes); Ms. Tyson (Yes); Mr. Doe (Yes); Ms. Peterson (Yes); Mr. Sinkule (Yes).

#### **MOTION PASSED.**

#### vi. **OLD BUSINESS**

None

#### vii. OPEN DISCUSSIONS FOR ISSUES NOT ON AGENDA

Correspondence received

None to Report.

#### • Planning Commission members

The members discussed the development of Round House.

#### • Members of the audience

None to Report.

#### viii. TOWNSHIP BOARD REPRESENTATIVE REPORT

None to Report

#### ix. ZONING BOARD OF APPEALS REPRESENTATIVE REPORT

None to Report.

#### x. TOWNSHIP ATTORNEY REPORT

None to Report.

#### xi. PLANNING DEPARTMENT REPORT

None to Report.

#### xii. OTHER BUSINESS

None to Report.

#### xiii. ADJOURNMENT

**MOTION:** Ms. El-Assadi **MOVED** to adjourn at 7:30 pm. The **MOTION** was **PASSED** by unanimous consent.

Respectively Submitted by Minutes Services.

## Planning Director's Report

	Project Nan	ne: Kalitta Turbines Expansion					
	Location:	2830 Tyler Road, Ypsilanti, MI 48198					
	Date:	10-16-2023	10-16-2023				
✓ Full Preliminary Site Plan Review # 2       Rezoning         Sketch Preliminary Site Plan Review #       Tentative Preliminary Plat         Administrative Preliminary Site Plan Review #       Final Preliminary Plat         Detailed Engineering/Final Site Plan Review #       Final Plat Process         Special Use Permit       Planned Development Stage I         Public Hearing       Planned Development Stage II				Plat nent Stage I			
Contact / Reviewer		Consultants, Departments, & Agencies	Approved	Approved with Conditions	Denied	N/A	See email/letter attached or comments below
	acoangeli, ng Director	Township Planning Department		<b>✓</b>			See attached letter
	e/Wortman	Planning Consultant				<b>✓</b>	
OHM /	Stantec	Engineering Consultant		<b>√</b>			See letter dated 10-03-2023
Steven Wallgren, Fire Marshal		Township Fire Department		$\checkmark$			See letter dated 10-09-2023
Dave Bellers, Building Official		Township Building Department				<b>\</b>	
l	AcCleery, Assessor	Township Assessing Department				$\checkmark$	
Scott Westover, Engineering Manager		Ypsilanti Community Utilities Authority			<b>✓</b>		See letter dated 10-11-2023
Gary Streight, Project Manager		Washtenaw County Road Commission				$\checkmark$	
Theresa Marsik, Stormwater Engineer		Washtenaw County Water Resources Commission					
James Drury, Permit Agent		Michigan Department of Transportation				<b>✓</b>	

#### Planning Director's Recommended Action:

At this time, Kalitta Turbines is eligible for Preliminary Site Plan consideration by the Planning Commission. This project is being placed on the Planning Commission Agenda for Tuesday, October 24, 2023 for Preliminary Site Plan consideration. It would be the Planning Department's recommendation that the Planning Commission grant Preliminary Site Plan approval as this project meets the conditions of the Township Zoning Ordinance for a industrial development of this type. The approval must be contingent on the applicant addressing the remaining outside agency comments required as part of the Final Site Plan / detailed Engineering design. Furthermore, approval should be contingent on the applicant obtaining all required inside / outside agency permits and approvals.



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# Staff Report Kalitta Turbines: Storage Building 2830 Tyler Road, Ypsilanti, MI 48198 Preliminary Site Plan

October 24, 2023

Applicant: Peter W. Bedder

Project Name: Kalitta Turbines Storage Building

Plan Date: 08-24-2023

Location: 2830 Tyler Road, Ypsilanti, MI 48198 Parcel #K-11-13-206-007

**Zoning:** I-C – Industrial and Commercial

**Action Requested:** Preliminary Site Plan Approval

#### **CASE LOCATION AND SUMMARY**

The Office of Community Standards is in receipt of a Preliminary Site Plan Application from Mr. Bedder representing Kalitta Turbines requesting authorization for the construction of a 12,000 sq. ft. storage facility, 39,600 sq. ft. future building, and the construction of the associated parking areas, driveways, utilities, storm water management system, and landscaping. This project will include a land combination of the existing warehouse / avionic repair facility located at 2850 Tyler Road with the parcel located at 2830 Tyler Road.

#### **CROSS REFERENCES**

- Article 4, District Regulations
- Article 9, Site Plan Review
- Article 11, Specific Provisions
- Article 12, Access, Parking, Loading
- Article 13, Site Design Standards

#### SUBJECT SITE USE, ZONING AND COMPREHENSIVE PLAN

The Charter Township of Ypsilanti 2040 Master Plan designates this site for Innovation & Employment District, a designation intended to be the major employment area of the Township. The area is targeted for companies at the cutting edge of innovation with a combination of technology, office, and craft manufacturing or light industrial uses. The site is currently zoned I-C – Industrial and Commercial and we find that the proposed use of the site as a storage facility for avionic repair is consistent with the Master Plan.



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## 2830 Tyler Road, Ypsilanti, MI 48198 – Aerial Photograph 2020





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#### ADJACENT USES, ZONING AND COMPREHENSIVE PLAN

Direction	Use	Zoning	Master Plan
North	Manufacturing	I-C – Industrial and Commercial	Innovation & Employment District
South	Wastewater Management	I-C – Industrial and Commercial	Innovation & Employment District
East	Office	I-C – Industrial and Commercial	Innovation & Employment District
West	Light Industrial – Avionic Repair / Storage	I-C – Industrial and Commercial	Innovation & Employment District

#### **NATURAL FEATURES**

**Topography:** The subject parcel is relatively flat.

Woodlands: The site has woodlands on the southern portion of the property.

**Wetlands:** There are no wetlands on the subject property. According to FEMA MAP 26161C0435E, Dated April 3, 2012, the site is in an area of minimal flood hazard.

Soils: Unknown

#### LAND USE

The land use table is in Sec. 420 of the Township Zoning Ordinance. This table establishes where certain land uses are permitted in the Township.

#### Sec. 420 - Residential Use Table

Proposed Use	Complies with Sec. 420 Residential Use Table
Warehouse and Storage	Complies



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#### HEIGHT, BULK, DENSITY AND AREA

Height, Bulk, Density and Area requirements for developments in the I-C – Industrial and Commercial Zoning District are established in Sec. 416 of the Township Zoning Ordinance.

Sec. 416. - Industrial and Commercial District:

	Required / Allowed	Provided	Complies with Sec. 416 – Industrial and Commercial District
Lot Area	None	11.98 Acres	Complies
Lot Width	None	+/- 372 Feet	Complies
Front Yard Setback (Tyler Road)	20'	+/- 370'	Complies
Side Yard Setback (Western Lot Line)	40'	+/- 230'	Complies
Side Yard Setback (Eastern Lot Line)	40'	+/- 66'	Complies
Rear Yard Setback (Southern Lot Line)	50'	+/- 374'	Complies
Building Height for New Building (Feet)	50'	38'	Complies
Building Height for Building Addition (Feet)	50'	32.6'	Complies
Maximum Lot Coverage (All Buildings)	None	119,883 sq. ft.	Complies



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#### **PARKING AND LOADING**

Sec. 1205, 1206, and 1207 of the Township Zoning Ordinance require all developments in the Township to have adequate parking accommodation for employees and members of the public.

Sec. 1205, 1206, and 1207

, ,	Required	Provided
Warehouse and Wholesale establishments: Five (5) plus one (1) for every one (1) employee in the largest working shift, or five (5) plus one (1) for every one thousand-seven hundred (1,700) square feet of usable floor space, whichever is greater.	12,000 (proposed building) + 39,600 (Future Building) + 68,282 (existing building) = 119,883 sq. ft. 119,883 sq. ft. – 119,883/1,700 = 70 Parking Spaces	48 spaces
Barrier Free	3	1
Loading	1	0
Bicycle Facility	1	0
Total	75	48

**Items to be addressed:** Since the "future building" is proposed later, the applicant will need to include an additional twenty-three (23) parking spaces at that point to be compliant with the parking standards.

The minimum parking standards are currently met when factoring in the existing building and the proposed 12,000 sq. ft. building – 12,000 + 68,282 = 80,282. 80,282/1,700 = 47 parking spaces.

The applicant does not provide a loading space on the plans. The Planning Commission may waiver loading space requirements.

#### **BICYCLE AND PEDESTRIAN ACCOMMODATIONS**

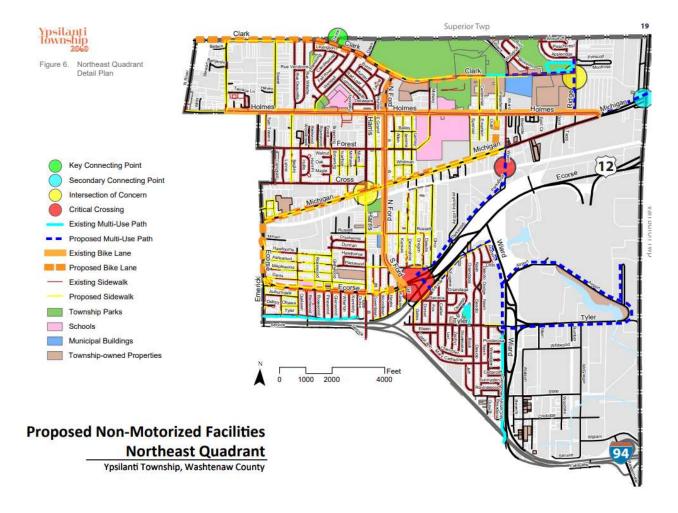
Sec. 1206 of the Township Zoning Ordinance allows the Planning Commission to require additional walkways and pedestrian connections as part of the site plan review.

**Items to be addressed:** The Charter Township of Ypsilanti Non-Motorized-Transportation Plan calls for a "Multi-Use Path" to connect Tyler Road and Airport Drive



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to the neighboring Willow Run Neighborhood on Wiard Road. The applicant has included a concrete pathway along both properties. The proposed plan is in compliance with The Charter Township of Ypsilanti Non-Motorized Transportation Plan.





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#### **LANDSCAPE REQUIREMENTS**

Sec. 1301. - Landscape Requirements

	Required	Provided	Compliance
Street Yard Landscaping: 1	372 L.F. / 40 L.F = 9	19 Deciduous	Complies
Large deciduous tree per	Deciduous Trees	Trees.	
40ft of frontage, 1	372 L.F. / 100 L.F. = 4		
ornamental tree per 100 ft of	Ornamental trees	35 Ornamental	
frontage, 1 shrub per 10 ft. of	372 L.F. / 10 = 37 Shrubs	Trees.	
frontage.			
Parking Lot:	63,407 S.F. / 2,000 S.F. =	None	Does not
1 large deciduous tree per	31 interior deciduous trees.		comply
2,000 sq/ft of pavement and			
1 per 40 lineal feet.	540 / 40 = 13 exterior trees.		
	44 Trees		

**Items to be addressed:** Applicant is requesting that the Planning Commission waive the parking lot landscaping requirements of the Township Zoning Ordinance.

#### **DUMPSTER ENCLOSURE**

Sec. 1302. – Trash and Recycling Receptacles

**Items to be addressed:** Applicant has included a dumpster enclosure on the plans dated 08-24-2023.

#### **EXTERIOR LIGHTING**

Sec. 1303. - Exterior Lighting

**Items to be addressed:** Applicant provided a lighting plan for the proposed development. The proposed lighting meets the standards of the Township Zoning Ordinance.

#### **ELEVATIONS**

Sec. 1306. – Building Design Requirements

The proposed building is a 100' x 120' metal industrial building. The building materials are ribbed metal siding, continuous metal overflow metal gutters and downspouts, metal roof panels, two (2) 14' x 14' insulated sectional overhead door, and five (5) 7' x 3' metal doors.

**Items to be addressed:** Per Sec. 1306.D, when building walls are one hundred (100) feet or greater in length, design variations must be applied to assure that the building is



Trustees
John Newman II
Gloria Peterson
Debbie Swanson
Ryan Hunter

not monotonous in appearance. Such variations include but are not limited to the following:

- 1. Recess and projects along the building façade. Variations in depth should be a minimum of ten (10) feet.
- 2. Architectural details or features.
- 3. Enhanced ornamentation around building entryways.
- 4. Landscaping.
- 5. Streetscape elements.
- 6. Variations in building height.

Per Sec. 1306.I. Industrial buildings may use metal as 75% of the total exterior building material.

The applicant has provided additional materials in the most recent submittal dated 08-24-2023 to meet the standards mentioned above. The proposed elevations meet the standards of the Township Zoning Ordinance.

<u>Suggested motions:</u> The following suggested motions and conditions are provided to assist the Planning Commission in making the most appropriate motion for this application. The Commission may utilize, add, or reject any conditions suggested herein, as they deem appropriate.

#### **Motion to table:**

"I move to table the request for **preliminary site plan** approval for construction of a of a 12,000 sq. ft. storage facility, 39,600 sq. ft. future building, and the construction of the associated parking areas, driveways, utilities, storm water management system, and landscaping for a site zoned I-C – Industrial and Commercial, located at 2380 Tyler Road, Ypsilanti, MI 48198, Parcel K-11-13-206-007, to consider the comments presented by the Planning Commission during the discussion of the project."

#### Motion to approve.

"I move to approve the for **preliminary site plan** approval for construction of a of a 12,000 sq. ft. storage facility, 39,600 sq. ft. future building, and the construction of the associated parking areas, driveways, utilities, storm water management system, and landscaping for a site zoned I-C – Industrial and Commercial, located at 2380 Tyler Road, Ypsilanti, MI 48198, Parcel K-11-13-206-007, with the following conditions:



Trustees
John Newman II
Gloria Peterson
Debbie Swanson
Ryan Hunter

- 1. The applicant shall address all outstanding comments from reviewing agencies prior to Final Site Plan approval.
- 2. Applicant shall obtain all applicable internal and outside agency permits prior to construction.
- 3. Any other conditions based upon Planning Commission Discussion.

#### **Motion to deny:**

"I move to deny the **preliminary site plan** for construction of a of a 12,000 sq. ft. storage facility, 39,600 sq. ft. future building, and the construction of the associated parking areas, driveways, utilities, storm water management system, and landscaping for a site zoned I-C – Industrial and Commercial, located at 2380 Tyler Road, Ypsilanti, MI 48198, Parcel K-11-13-206-007due to the following reasons:"

Respectfully submitted,

Fletcher Reyher, Planning & Development Coordinator Charter Township of Ypsilanti Planning Department



ARCHITECTS. ENGINEERS. PLANNERS.

October 3, 2023

Mr. Jason Iacoangeli Township Planning Director Charter Township of Ypsilanti 7200 S. Huron River Drive Ypsilanti, MI 48197

RE: Kalitta Turbines Expansion

Site Plan Review #2

Dear Mr. Iacoangeli:

We have completed the second site plan review of the plans dated August 24, 2023, with a latest revision date of September 25, 2023, and stamped received by OHM Advisors on September 27, 2023.

At this time, the plans are <u>recommended</u> for approval for the Planning Commission's consideration, contingent on the following comments being addressed prior to submitting for detailed engineering review. Preliminary detailed engineering comments have been provided to the applicant as a courtesy and shall also be addressed prior to submitting detailed engineering plans for review.

A brief description of the project has been provided below (Section A), followed by our comments (Section B and C) and a list of anticipated required permits and approvals (Section D). Comments in Section C are detailed in nature, do not influence the overall site layout, and can be addressed during the detailed engineering drawing submittal.

#### A. PROJECT AND SITE DESCRIPTION

The applicant is proposing a pre-engineered storage building at 2830 Tyler Road as a building expansion for Kalitta Turbines. The proposed building will include associated utility and parking improvements.

The site will be serviced by connection to the existing 8-inch water main along the south side of Tyler Road. The stormwater runoff will be managed by a traditional underground conveyance system that will outlet to a nearby existing detention pond. No sanitary sewer is being proposed at this time.

#### B. SITE PLAN COMMENTS

#### Site Utilities

1. The applicant noted in their response letter that a looped water main will be installed with the construction of the second building addition to the south of the detention pond. The applicant shall provide the proposed water main and easement layout on the plans for review prior to detailed engineering approval. It is also noted in the YCUA review letter, dated July 27, 2023, that the existing 8-inch water main along Tyler Road may not be continuous between McGregor Road and the easement west of 2800 Tyler Road. The proposed 8-inch water main on-site shall also be made public. This office defers to YCUA and the Ypsilanti Township Fire Department on the review and approval of the proposed water main layout, including the potential future water main loop.



#### Stormwater Management

2. The applicant shall provide stormwater management calculations for the existing detention basin, based on the current Washtenaw County Water Resource Commissioner's (WCWRC) Standards, on the plans for review to ensure there is adequate volume available for the additional runoff. Stormwater management calculations based on the old WCWRC Standards will not be accepted. It is also recommended that the applicant provide water quality measures for the proposed development.

#### General

3. The applicant shall provide a landscape plan with the existing and proposed utilities overlayed on it for review. The applicant noted in their response letter that a landscape plan has been prepared and provided for review; however, it appears to be missing from the plan set.

#### C. PRELIMINARY DETAILED ENGINEERING PLAN COMMENTS

The following comments shall be addressed by the applicant during the detailed engineering drawing submittal, and do not affect the recommendation for approval to the Township of Ypsilanti Planning Commission. It should be noted that this is not an all-inclusive list and additional comments may be generated as new information is presented.

- 1. The applicant shall provide spot elevations along both sides of the proposed sidewalk along Tyler Road at 50-foot intervals. The applicant shall note that the cross-slope shall not exceed 2% per ADA Standards.
- 2. The applicant shall label the acreages, C-factors, and C-factor calculations for the proposed drainage areas (Sheet CE-5).
- 3. The applicant shall provide a draft of the easement from 2820 Tyler Road for the proposed stormwater outlet to the existing detention pond to this office for review prior to recording with the County.
- 4. The applicant shall provide a maintenance schedule for all proposed permanent soil erosion and stormwater management activities both during and after construction. The schedule shall include the frequency of activities as well as the party responsible.
- 5. The applicant shall provide a stormwater narrative on the plans clarifying how the proposed stormwater runoff will be managed, as well as if any Best Management Practices (BMPs) are being provided.
- 6. The applicant shall provide a Certificate of Outlet, signed and sealed by a registered engineer in the State of Michigan, on the plans.
- 7. The applicant shall address the following regarding the storm sewer profiles (Sheet CE-4) as there appears to be discrepancies:
  - a. Verify the slope between CB#4 and CB#5.
  - b. Verify the east invert of CB#6.
  - c. Verify the inverts of INL#4A.
- 8. The applicant shall provide the proposed water main and storm sewer materials on the utility plan for clarity.



#### D. REQUIRED PERMITS & APPROVALS

The following outside agency reviews and permits will be required for the project. Copies of any correspondence between the applicant and the review agencies, as well as the permit or waiver, shall be sent to both the Township and OHM Advisors (email: <a href="mailto:stacie.monte@ohm-advisors.com">stacie.monte@ohm-advisors.com</a>).

- ▼ **Ypsilanti Community Utilities Authority (YCUA):** Review and approval of all water main improvements will be required.
- **▼ Ypsilanti Township Fire Department:** Review and approval is required.
- Washtenaw County Water Resources Commissioner's Office (WCWRC): Review and approval is required.
- Washtenaw County Road Commission (WCRC): Review and approval of all work within the Tyler Road ROW is required.
- Nichigan Department of Environment, Great Lakes & Energy (EGLE): An EGLE Act 399 permit will be required for construction of all public water main improvements.
- **▼ Ypsilanti Township Office of Community Standards:** A Soil Erosion and Sedimentation Control permit shall be secured from the Ypsilanti Township Office of Community Standards.
- ▼ The Township's Planner will inspect the landscaping for this site.
- If dewatering should be needed, the contractor/applicant shall be responsible for obtaining necessary approvals from the Township and the Township Engineer, permission from all impacted adjacent properties and/or permits from MDOT, WCWRC's Office, or the WCRC.
- Record plans shall be provided to the Township Engineer following the completion of construction.

Should you have any questions regarding this matter, please contact this office at (734) 466-4580.

Sincerely, OHM Advisors

Matthew D. Parks, P.E.

Stacie L. Monte

MDP/SLM

cc: Fletcher Reyher, Township Staff Planner Doug Winters, Township Attorney Steven Wallgren, Township Fire Marshall File

P:\0000\_0100\SITE\_YpsilantiTwp\2023\0098231080\_2830 Tyler Rd\_Kalitta Turbines Expansion\MUNI\01\_SITE\PSP#2\Kalitta Turbines Expansion\_PSP#2\_2023-10-03.docx

#### CHARTER TOWNSHIP OF YPSILANTI FIRE DEPARTMENT

#### BUREAU OF FIRE PREVENTION

222 South Ford Boulevard, Ypsilanti, MI 48198

October 9, 2023

Jason Iacoangeli, Planning Director Charter Township of Ypsilanti 7200 S. Huron River Drive Ypsilanti, MI 48197

RE: Preliminary (non-residential) Site Plan Review #1

> Project Name: Kalitta Turbines Building Addition Project Location: 2850 Tyler Rd. Ypsilanti, MI 48198

Plan revision Date: 9/25/2023 SM23059 Job #: Drawing #: SM23059SPL Applicable Codes: IFC 2018

Engineer: Spalding DeDecker Engineering and Surveying 27333 Meadowbrook Rd., Suite 210 Novi, MI 48377 Engineer Address:

#### Status of Review

Status of review: Approved as Submitted

All pages were reviewed.

#### Site Coverage - Access

Comments: Complies with IFC 2018,

- Knox box positioning can be discussed with the Project manager. If the adjacent building has a Knox box, we can discuss future positioning to meet both building's needs.
- As a note. In the future if these buildings are proposed to be attached, suppression will be required.

.Sincerely,

Steve Wallgren, Fire Marshal

Charter Township of Ypsilanti Fire Department

CFPS, CFI I



#### YPSILANTI COMMUNITY UTILITIES AUTHORITY

2777 STATE ROAD YPSILANTI, MICHIGAN 48198-9112 TELEPHONE: 734-484-4600 WEBSITE: www.ycua.org

October 11, 2023

#### **VIA ELECTRONIC MAIL**

Mr. Jason Iacoangeli, Planning Director Office of Community Standards CHARTER TOWNSHIP OF YPSILANTI 7200 S. Huron River Drive Ypsilanti, MI 48197

Re: Preliminary (non-residential) Site Plan Review #2

**Kalitta Turbines Expansion** 

Charter Township of Ypsilanti (Plan Date: 06-20-2023)

Dear Mr. Iacoangeli:

In response to the electronic mail message from your office dated September 27, 2023, we have reviewed both the referenced plans as well as the conceptual plan for offsite water main with regards to water supply and wastewater system design. The plans are not acceptable to YCUA.

- 1. Please note that YCUA is not certain the existing 8" diameter water main is continuous between McGregor Road and the easement west of 2800 Tyler Road. It is believed that the pipe may not have been originally constructed along the entire length of the corridor or that it may have been cut and capped somewhere between the existing hydrants. YCUA staff continues to investigate this item. Should the existing water main prove to be a dead-end pipe, it would eliminate the potential for installation of the currently proposed dead-end extension addressed below.
- 2. The proposed water main shall be public.
- 3. The proposed blowoff at the terminal end of the water main is not acceptable. In lieu of the blowoff, an 8" diameter pipe with cap or plug shall be stubbed south of the proposed gate valve.
- 4. Per discussion with the Applicant, it is understood that future buildings and/or building additions are planned. It is recommended that the proposed buildings/additions and water supply and wastewater utilities necessary to serve the future expansion be shown on the plans.

As there are no water services or sanitary laterals shown to the proposed building, connection fees do not apply. The construction phase escrow deposit and associated fees and deposits and the entity responsible for maintaining those accounts will be determined during the Detailed Engineering phase of the project in conjunction with your office and the Township Engineer. Should there be any questions please contact this office.

Sincerely,

Solv Digital Senature

SCOTT D. WESTOVER, P.E., Engineering Manager Ypsilanti Community Utilities Authority Mr. Jason Iacoangeli CHARTER TOWNSHIP OF YPSILANTI October 11, 2023 Page 2

cc: Mr. Luke Blackburn, Mr. Sean Knapp, File, YCUA

Mr. Fletcher Reyer, Charter Township of Ypsilanti

Mr. Eric Copeland, Mr. Steve Wallgren, Township Fire Department

Mr. Matt Parks, P.E., Ms. Stacie Monte, Township Engineer

Mr. Peter Bedder, Applicant

Mr. Paul Lewsley, P.E., Applicant's design engineer

G:\CDproj\YpsiTwp\2023 - Kalitta Turbines Expansion\PNRSP Rev#2.docx

NOT TO SCALE

# KALITTA TURBINES PARCEL

2850 TYLER ROAD
YPSILANTI, MICHIGAN
PARCEL "C"
ZONING 1-C
INDUSTRIAL - COMMERCIAL

## BUILDING ADDITION

SDA JOB No. SM23059

## **ENGINEER:**

SPALDING DeDECKER
905 SOUTH BLVD. EAST
ROCHESTER HILLS, MI 48307
(248)844-5400

## BENCHMARK DESCRIPTIONS

DATUM: GPS-DERIVED NAVD'88

SITE BM#100 SET RR SPIKE ON N. FACE OF UTILITY POLE ±30' SOUTH OF TYLER ROAD AND ±60' EAST OF ENTRANCE TO #2820 TYLER ROAD.

ELEV.=7

SET CHISELED "+" ON SOUTHWEST BOLT ON TOP FLANGE OF HYDRANT  $\pm 15^\circ$  SOUTH OF TYLER ROAD AND  $\pm 10^\circ$  WEST OF WEST FACE OF BUILDING.

ELEV.=720.27

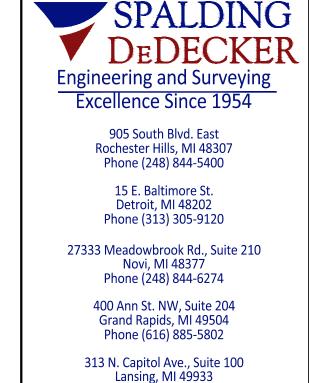
## **UTILITY CHART**

UTILITY PROVIDER	CONTACT#	MISS DIG RESULTS	DATE
AT&T TELEPHONE	800-778-9140	RECEIVED	4-26-23
COMCAST	855-962-8525	RECEIVED	4-26-23
DTE ENERGY ELECTRIC	303-407-5364	RECEIVED	5-04-23
DTE ENERGY GAS	248-318-7839	RECEIVED	4-25-23
DTE GAS TRANSMISSION LINE	248-308-9967	RECEIVED	4-21-23
YCUA WATER	734-216-7103	RECEIVED	5-04-23

## SHEET INDEX:

SHEET#	SHEET TITLE
CE-1	COVER SHEET
CE-2	GRADING PLAN
CE-3	UTILITY PLAN
CE-4	UTILITY PROFILES
CE-5	STORM DRAINAGE PLAN
CE-6	DEMOLITION AND SOIL EROSION PLAN
CE-7	TOPOGRAPHICAL SURVEY
CE-8	WATER MAIN DETAILS
CE-9	WATER MAIN DETAILS
CE-10	WATER MAIN DETAILS
CE-11	WATER MAIN DETAILS
CE-12	STORM SEWER DETAILS
CE-13	STORM SEWER DETAILS
0 = 4.4	

SOIL EROSION DETAILS





www.sda-eng.com (800) 598-1600

CLIENT:

BEDDER CONSULTING SERVICES, LI 32579 GATEWAY DRIVE ROMULUS, MI 48174



PRIOR TO CONSTRUCTION, ALL LOCATIONS AND DEPTHS OF EXISTING UTILITIES (IN CONFLICT WITH PROPOSE IMPROVEMENTS) SHALL BE VERIFIED IN THE FIELD. CALL MISS DIG 3 WORKING DAYS PRIOR TO CONSTRUCTION.

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KALITTA TURBINES BUILDING ADDITION 2830 TYLER ROAD YPSILANTI, MI

COVER SHEET

SECTION 13
TOWN 03 SOUTH RANGE 07 EAST
YPSILANTI TOWNSHIP
WASHTENAW COUNTY, MICHIGAN

NO. DATE REVISION

1 9-25-23 REVISED LOCATION

		OF G.V.&W.
2	10-12-23	REMOVE BLOW OFF, INSTALL PLUG, & CALL WM PUBLIC IN ESMT.
3	10-12-23	ADDED FUTURE WM & SAN. SEWER IN PROPOSED EASEMENTS ON SHEET CE-3
		I

IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

DRAFTER DATE
L.THORNTON 8-24-23

CHECKED DATE
R.DONNELLY 8-24-23

FIELD LEADER PROJECT SURVEYOR

D.JACKSON

VERIFY SCALES

S.MAYER

PROJECT MANAGER
D.JACKSON
JOB NO.
SM23059
SCALE:
DEPARTMENT MANAGER
G.PLATZ
DRAWING NO.
SM23059SPL
SHEET NO.
CE-1

## AS-CALCULATED LEGAL DESCRIPTION - PROPOSED PARCEL C OURCE: BASED ON FIELD SURVEY PERFORMED BY SPALDING DEDECKER IN APRIL

LAND LOCATED IN THE NORTHWEST 1/4 OF SECTION 13, TOWNSHIP 03 SOUTH, RANGE 07 EAST, OF YPSILANTI TOWNSHIP, WASHTENAW COUNTY, MICHIGAN; SAID LAND BEING COMPRISED OF THE EAST HALF OF LOTS 360 THROUGH 369 INCLUSIVE OF "TEXTILE SUBDIVISION" ACCORDING TO THE PLAT THEREOF AS RECORDED IN LIBER 6 ON PAGE 57 OF PLATS, WASHTENAW COUNTY RECORDS; ALSO LOTS 400 THROUGH 409 INCLUSIVE OF SAID "TEXTILE SUBDIVISION"; ALSO LOTS 498 THROUGH 547 INCLUSIVE OF SAID "TEXTILE SUBDIVISION"; ALSO ALL OF THE TWENTY FOOT (20') WIDE ALLEY ADJACENT TO LOTS 515 THROUGH 530 INCLUSIVE THAT WAS VACATED IN A RESOLUTION BY THE WASHTENAW COUNTY ROAD COMMISSION AS RECORDED IN LIBER 958, PAGE 144 OF WASHTENAW COUNTY REGISTER OF DEEDS; ALSO ALL OF VACATED WOODALE AVENUE (60'WIDE) FROM THE SOUTHERLY SIXTY FOOT (60') RIGHT OF WAY LINE OF TYLER ROAD (120' WIDE) TO THE NORTHERLY RIGHT OF WAY LINE OF WILDWOOD AVENUE (60' WIDE); ALSO THE WEST 1/2 OF VACATED BOMBER AVENUE (PLATTED AS TEXTILE AVENUE 86' WIDE) ADJACENT TO LOTS 529 THROUGH 547; SAID LAND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 13, TOWNSHIP 03 SOUTH, RANGE 07 EAST, OF YPSILANTI TOWNSHIP, WASHTENAW COUNTY, MICHIGAN; THENCE DUE SOUTH 60.07 FEET ALONG THE NORTH-SOUTH 1/4 LINE OF SAID SECTION 13 TO THE POINT OF BEGINNING; THENCE CONTINUING DUE SOUTH 866.96 FEET ALONG SAID NORTH-SOUTH 1/4 LINE ALSO BEING THE CENTERLINE OF VACATED BOMBER AVENUE 86 FEET WIDE (ORIGINALLY PLATTED AS TEXTILE AVENUE 86 FEET WIDE); THENCE S88°07'30"W 607.64 FEET ALONG THE NORTHERLY RIGHT OF WAY LINE OF WILDWOOD AVENUE (60' WIDE); THENCE N00°01'45"E 407.51 FEET ALONG THE WEST LINE OF THE EAST HALF OF LOTS 360 THROUGH 369 INCLUSIVE OF SAID "TEXTILE SUBDIVISION"; THENCE S89°58'15"E 75.00 FEET ALONG THE NORTHERLY LINE OF SAID LOT 369 TO THE NORTHEAST CORNER OF SAID LOT 369; THENCE N00°01'45"E 9.64 FEET ALONG THE WESTERLY LINE OF LOT 400 OF SAID "TEXTILE SUBDIVISION" TO THE NORTHWEST CORNER OF SAID LOT 400; THENCE S89°58'15"E 140.00 FEET ALONG THE NORTH LINE OF SAID LOT 400 TO THE WESTERLY RIGHT OF WAY LINE OF VACATED WOODALE AVENUE (60' WIDE); THENCE N00°01'45"E 450.50 FEET ALONG SAID WESTERLY RIGHT OF WAY LINE OF WOODALE AVENUE TO THE NORTHEAST CORNER OF LOT 391 OF SAID "TEXTILE SUBDIVISION"; THENCE N87°10'45"E 392.34 FEET ALONG THE SOUTHERLY 60 FOOT RIGHT OF WAY LINE OF TYLER ROAD (120'WIDE) TO THE POINT OF BEGINNING. CONTAINING 9.80 ACRES OF LAND. SUBJECT TO EASEMENTS AND RESTRICTIONS OF RECORD OR OTHERWISE.

## <u>LEGAL DESCRIPTION OF TAX PARCEL NO. K-11-13-206-006</u> BASED ON FIELD SURVEY PERFORMED BY SPALDING DEDECKER IN APRIL 2023

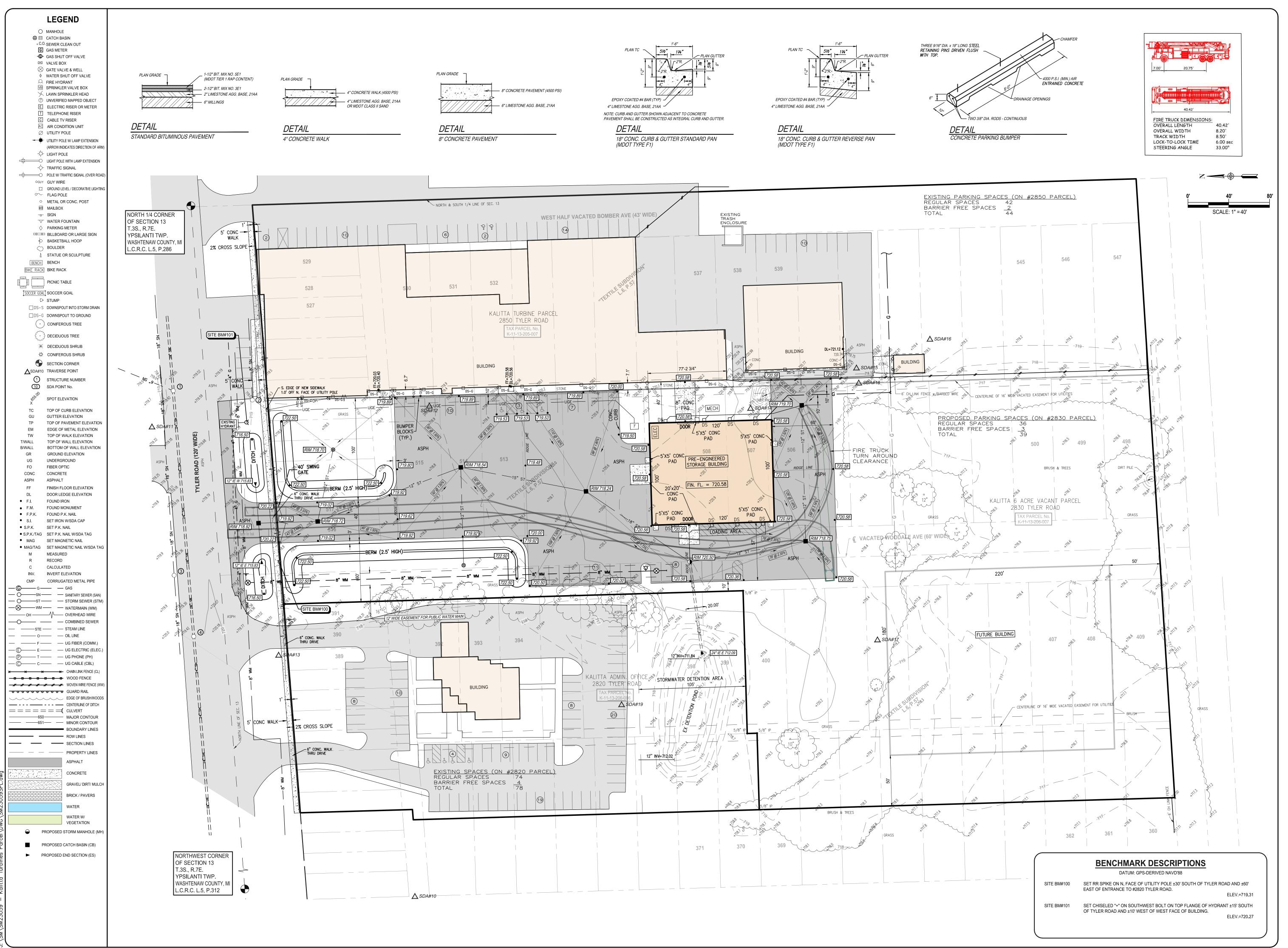
LAND LOCATED IN THE NORTHWEST 1/4 OF SECTION 13, TOWNSHIP 03 SOUTH, RANGE 07 EAST, OF YPSILANTI TOWNSHIP, WASHTENAW COUNTY, MICHIGAN; SAID LAND BEING COMPRISED OF THE EAST HALF OF LOTS 370 THROUGH 377 INCLUSIVE OF "TEXTILE SUBDIVISION" ACCORDING TO THE PLAT THEREOF AS RECORDED IN LIBER 6 ON PAGE 57 OF PLATS, WASHTENAW COUNTY RECORDS; ALSO LOTS 382 THROUGH 399 INCLUSIVE OF SAID "TEXTILE SUBDIVISION"; ALSO THE NORTH HALF OF THE TWENTY FOOT (20') WIDE ALLEY ADJACENT TO LOTS 382 THROUGH 391 INCLUSIVE AND SOUTH HALF OF VACATED TWENTY FOOT (20') WIDE ALLEY ADJACENT TO LOT 392 AND THE EAST HALF OF LOT 377 THAT WAS VACATED IN A RESOLUTION BY THE WASHTENAW COUNTY ROAD COMMISSION AS RECORDED IN LIBER 958, PAGE 144 OF WASHTENAW COUNTY REGISTER OF DEEDS, SAID LAND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 13, TOWNSHIP 03 SOUTH, RANGE 07 EAST, OF YPSILANTI TOWNSHIP, WASHTENAW COUNTY, MICHIGAN; THENCE DUE SOUTH 60.07 FEET ALONG THE NORTH & SOUTH 1/4 LINE OF SAID SECTION 13; THENCE S87°10'45"W 392.34 FEET ALONG THE SOUTHERLY 60 FOOT RIGHT OF WAY LINE OF TYLER ROAD (120' WIDE) TO THE NORTHEASTERLY CORNER OF SAID LOT 391, SAID POINT BEING THE POINT OF BEGINNING; THENCE S00°01'45"W 450.50 FEET ALONG THE WESTERLY RIGHT OF WAY LINE OF VACATED WOODALE AVENUE (60' WIDE) TO THE SOUTHEASTERLY CORNER OF SAID LOT 399; THENCE N89°58'15"W 140.00 FEET ALONG THE SOUTHERLY LINE OF SAID LOT 399 TO ITS SOUTHWESTERLY CORNER; THENCE S00°01'45"W 9.64 FEET ALONG THE EAST LINE OF SAID LOT 370 TO ITS SOUTHEASTERLY CORNER; THENCE N89°58'15"W 75.00 FEET ALONG THE SOUTHERLY LINE OF SAID LOT 370; THENCE N00°01'45"E 339.42 FEET TO THE CENTERLINE OF SAID VACATED ALLEY; THENCE N87°10'45"E 10.09 FEET ALONG SAID CENTERLINE OF VACATED ALLEY; THENCE N00°01'45"E 110.01 FEET ALONG THE WESTERLY LINE OF SAID LOT 382 TO ITS NORTHWEST CORNER; THENCE N87°10'45"E 205.18 FEET ALONG THE SAID SOUTHERLY RIGHT OF WAY LINE OF TYLER ROAD TO THE POINT OF BEGINNING. CONTAINING 2.19 ACRES OF LAND. SUBJECT TO EASEMENTS AND RESTRICTIONS OF RECORD OR OTHERWISE.

## LEGAL DESCRIPTION OF STORM WATER DETENTION EASEMENT OVER PARCEL NO. K-11-13-206-006 BASED ON FIELD SURVEY PERFORMED BY SPALDING DEDECKER IN APRIL 2023

LAND LOCATED IN THE NORTHWEST 1/4 OF SECTION 13, TOWNSHIP 03 SOUTH, RANGE 07 EAST, OF YPSILANTI TOWNSHIP, WASHTENAW COUNTY, MICHIGAN; SAID LAND BEING COMPRISED OF THE EAST HALF OF LOTS 370, 371, AND PART OF 372 OF "TEXTILE SUBDIVISION" ACCORDING TO THE PLAT THEREOF AS RECORDED IN LIBER 6 ON PAGE 57 OF PLATS, WASHTENAW COUNTY RECORDS; ALSO LOTS 398, 399, AND PART OF 397 OF SAID "TEXTILE SUBDIVISION"; SAID LAND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 13, TOWNSHIP 03 SOUTH, RANGE 07 EAST, OF YPSILANTI TOWNSHIP, WASHTENAW COUNTY, MICHIGAN; THENCE DUE SOUTH 60.07 FEET ALONG THE NORTH & SOUTH 1/4 LINE OF SAID SECTION 13; THENCE S87°10'45"W 392.34 FEET ALONG THE SOUTHERLY 60 FOOT RIGHT OF WAY LINE OF TYLER ROAD (120' WIDE) TO THE NORTHEASTERLY CORNER OF LOT 391; THENCE S00°01'45"W 345.5 FEET ALONG THE WESTERLY RIGHT OF WAY LINE OF VACATED WOODALE AVENUE (60' WIDE) TO THE POINT OF BEGINNING; THENCE CONTINUING S00°01'45"W 105.00 FEET TO THE SOUTHEASTERLY CORNER OF SAID LOT 399; THENCE N89°58'15"W 140.00 FEET ALONG THE SOUTHERLY LINE OF SAID LOT 399 TO ITS SOUTHWESTERLY CORNER; THENCE S00°01'45"W 9.64 FEET ALONG THE EAST LINE OF SAID LOT 370 TO ITS SOUTHEASTERLY CORNER; THENCE N89°58'15"W 75.00 FEET ALONG THE SOUTHERLY LINE OF SAID LOT 370; THENCE N00°01'45"E 114.64 FEET; THENCE S89°58'15"E 215.00 FEET TO THE POINT OF BEGINNING. CONTAINING 0.51 ACRES OF LAND. SUBJECT TO EASEMENTS AND RESTRICTIONS OF RECORD OR OTHERWISE.



**Engineering and Surveying** 

Excellence Since 1954 905 South Blvd. East

> Rochester Hills, MI 48307 Phone (248) 844-5400 15 E. Baltimore St. Detroit, MI 48202

Phone (313) 305-9120 27333 Meadowbrook Rd., Suite 210

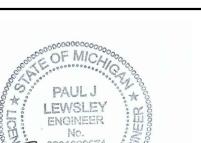
Novi, MI 48377 Phone (248) 844-6274 400 Ann St. NW, Suite 204

Grand Rapids, MI 49504

Phone (616) 885-5802 313 N. Capitol Ave., Suite 100

Lansing, MI 49933 www.sda-eng.com

(800) 598-1600



CLIENT:

BEDDER CONSULTING SERVICES, LL 32579 GATEWAY DRIVE ROMULUS, MI 48174



PRIOR TO CONSTRUCTION, ALL LOCATIONS AND DEPTHS OF IMPROVEMENTS) SHALL BE VERIFIED IN THE FIELD. CALL MISS DIG 3 WORKING DAYS PRIOR TO CONSTRUCTION.

UTILITY NOTE

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PROPOSED GRADING PLAN

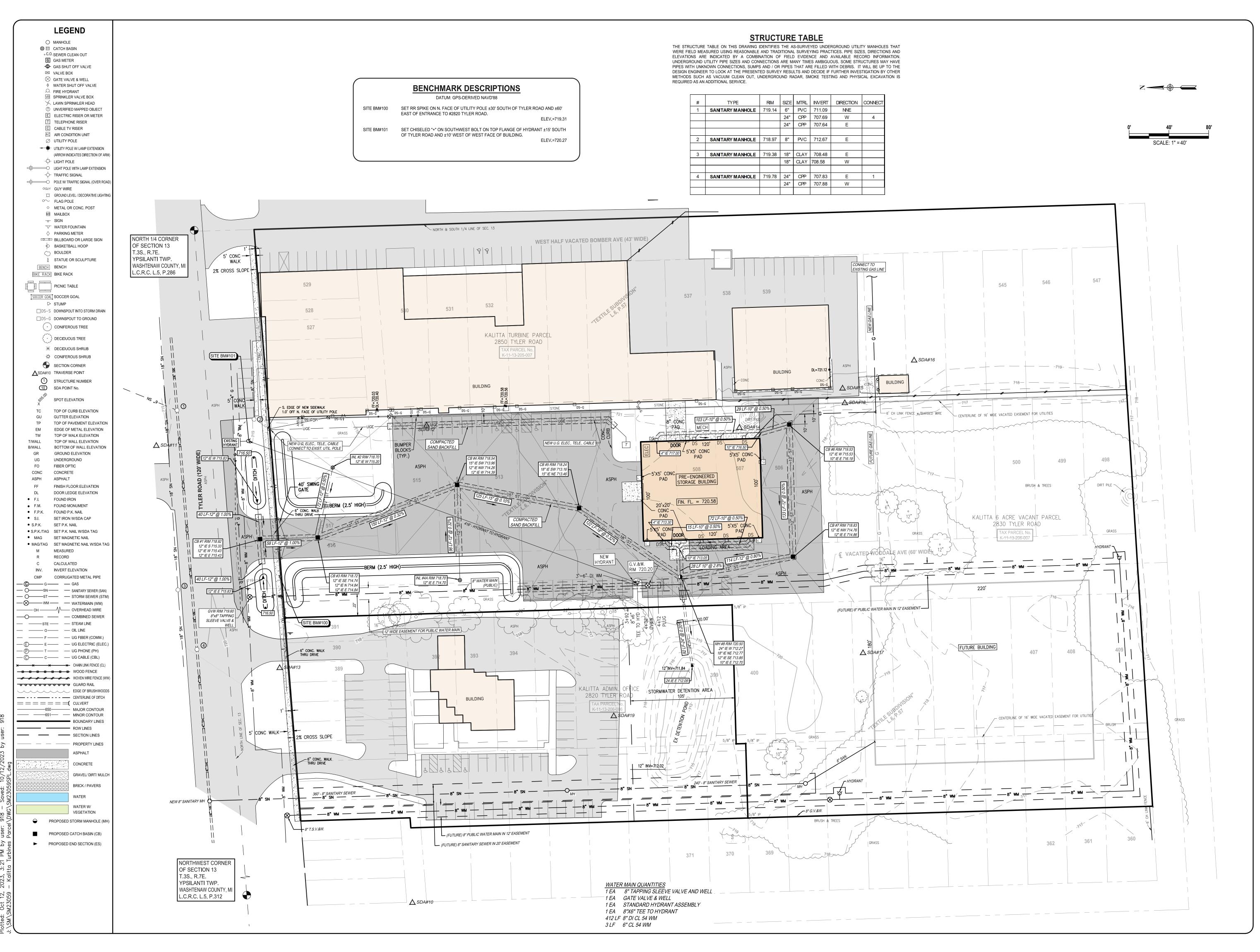
SECTION 13 TOWN 03 SOUTH RANGE 07 EAST YPSILANTI TOWNSHIP

WASHTENAW COUNTY, MICHIGAN

DATE	REVISION
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CHECKED	DATE
R.DONNELLY	8-24-23
FIELD LEADER	PROJECT SURVEYOR
S.MAYER	D.JACKSON
PROJECT MANAGER	DEPARTMENT MANAGER
D.JACKSON	G.PLATZ
JOB NO.	DRAWING NO.
SM23059	SM23059SPL
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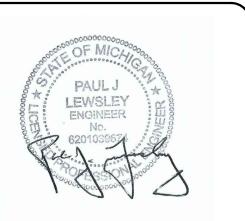
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**UTILITIES AND** STORM DRAINAGE PLAN

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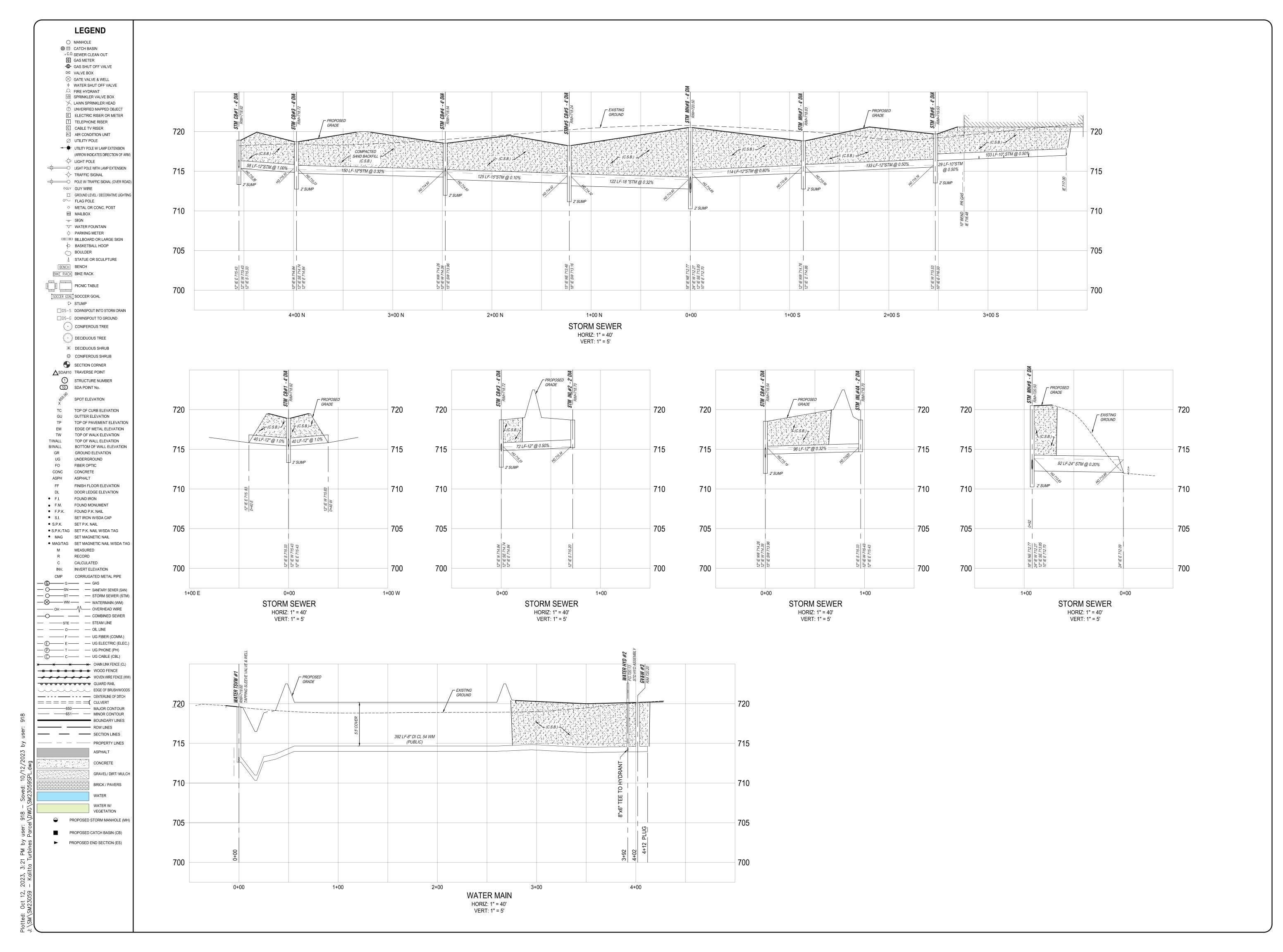
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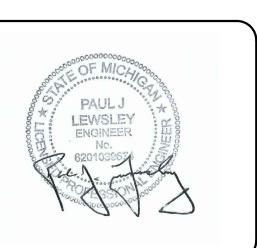
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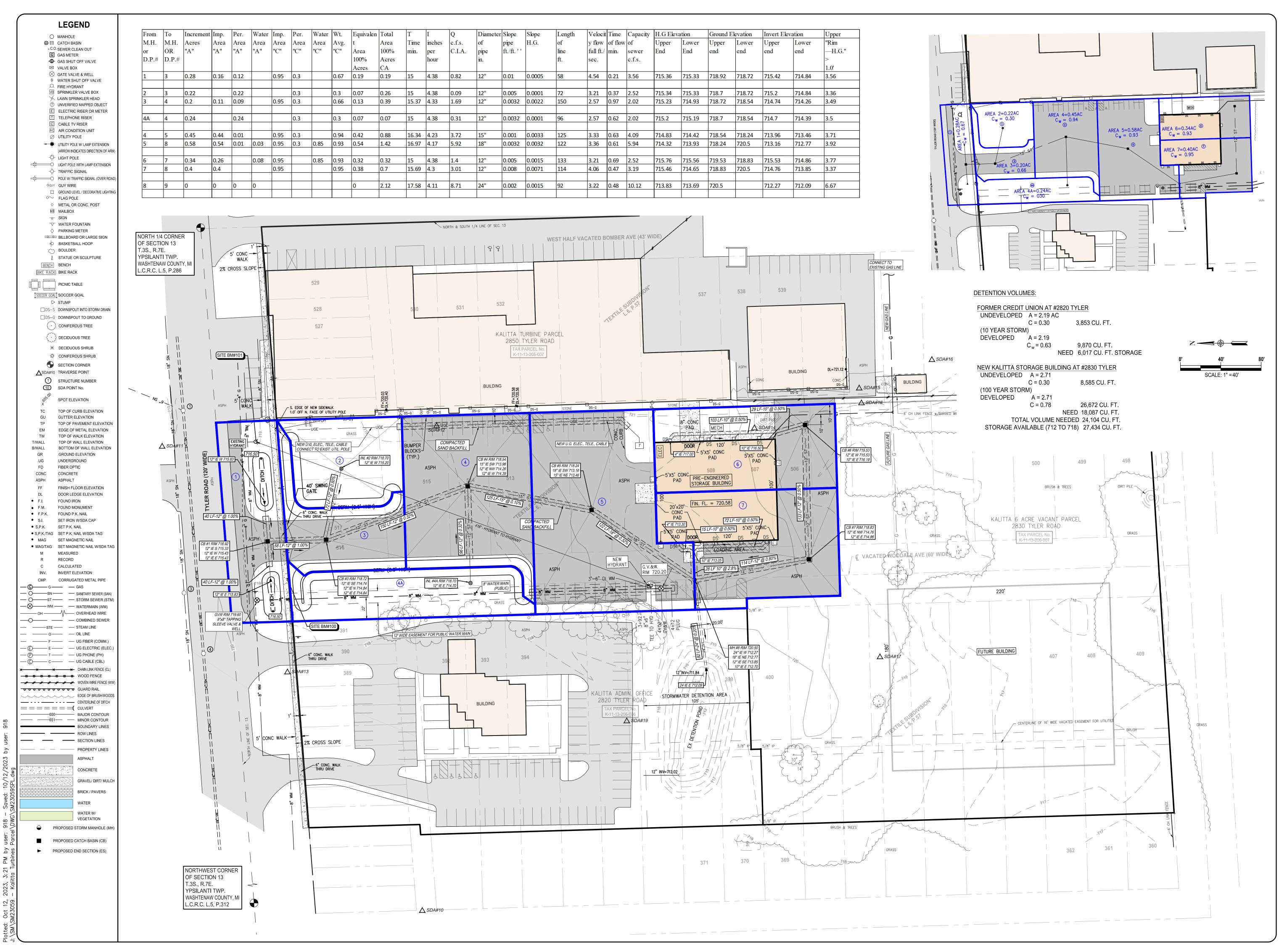
UTILITY PROFILES

SECTION 13
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ROJECT MANAGER	DEPARTMENT MANAGER
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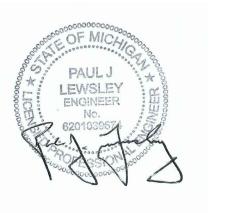
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STORM DRAINAGE PLAN

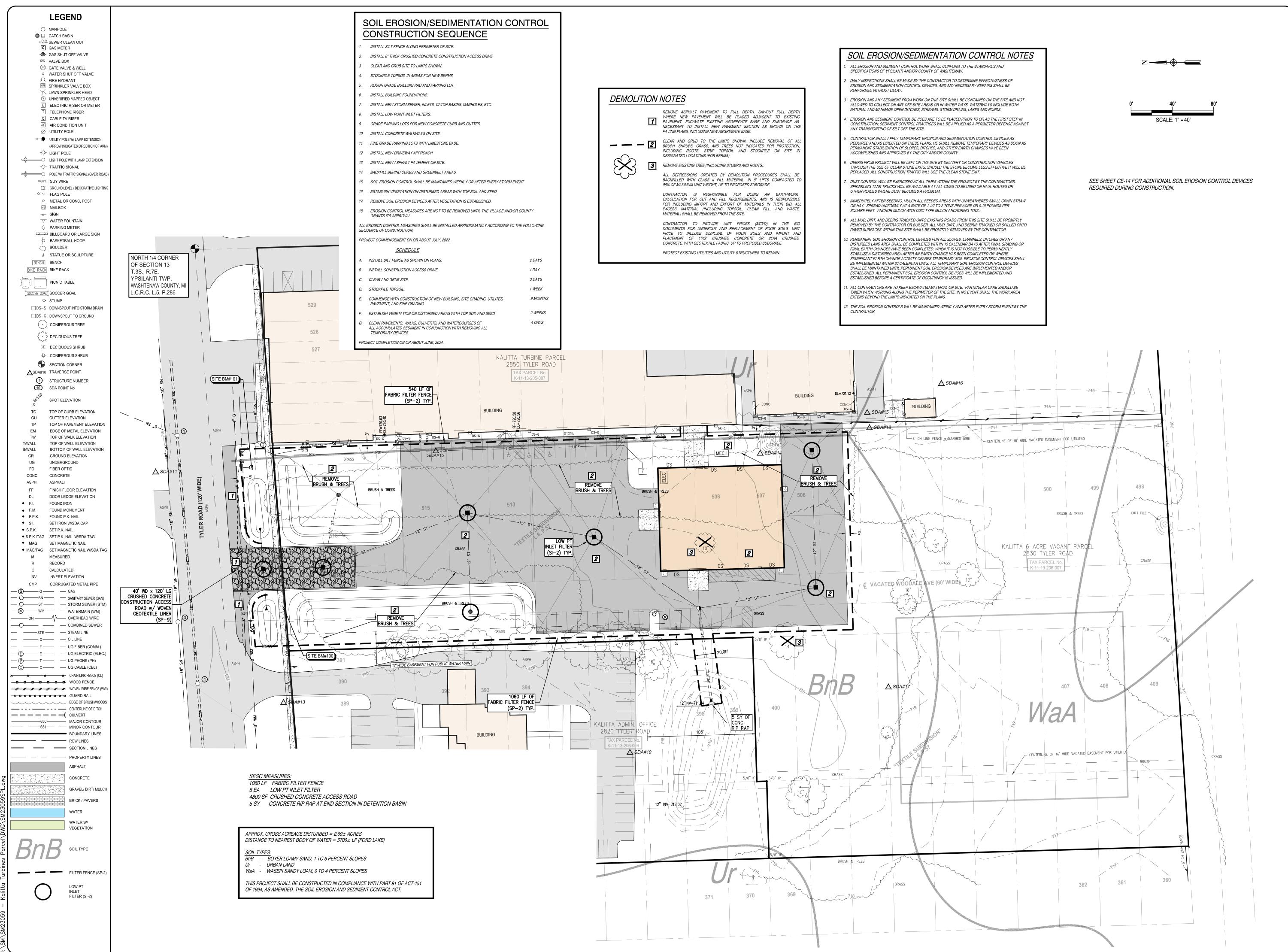
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.MAYER	D.JACKSON
OJECT MANAGER	DEPARTMENT MANAGER
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DEMOLITION AND SOIL EROSION PLAN

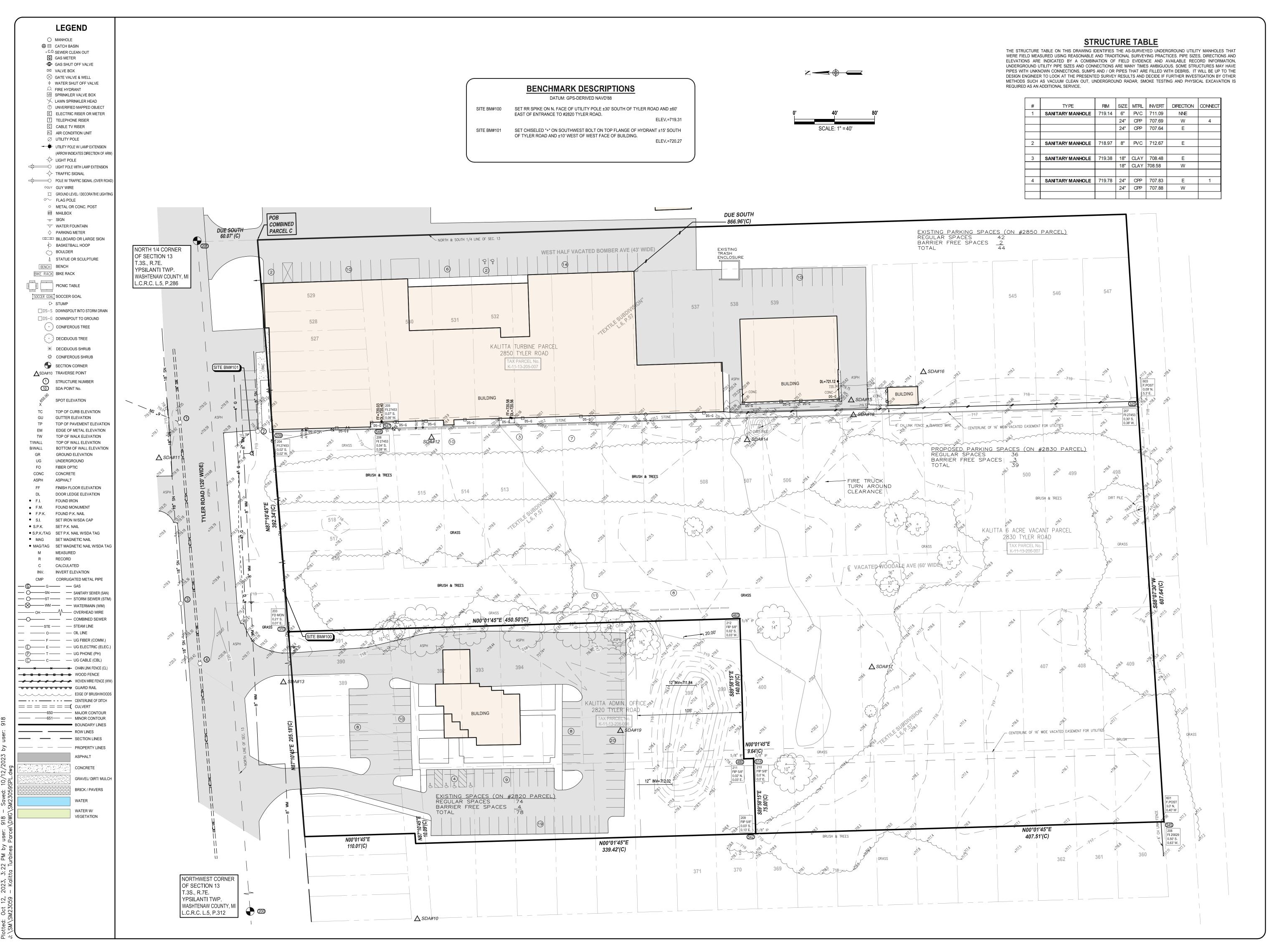
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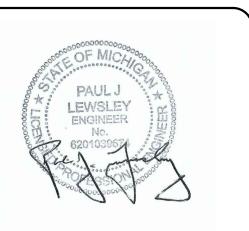
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TOPOGRAPHICAL SURVEY

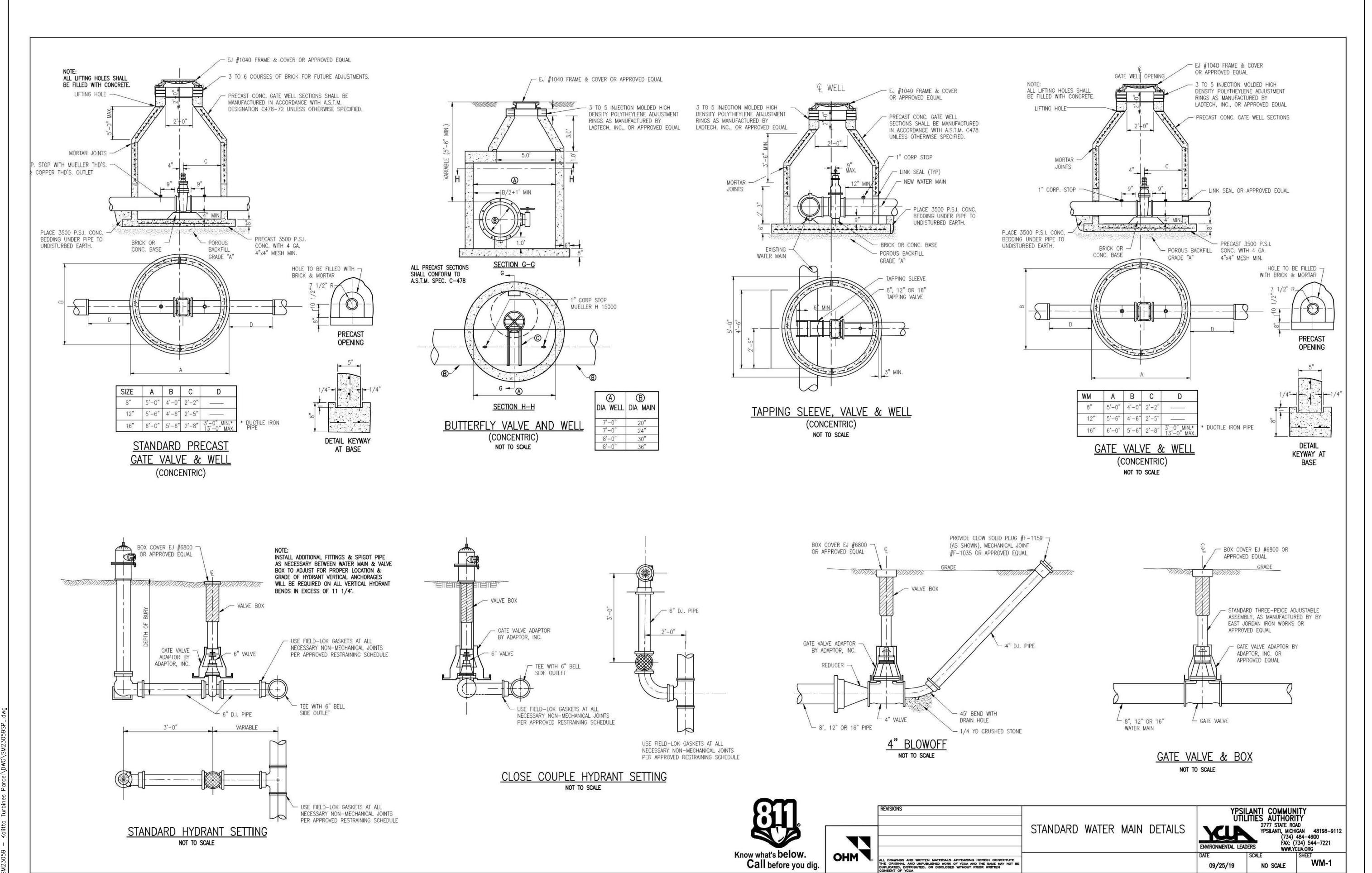
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ECT MANAGER	DEPARTMENT MANAGER
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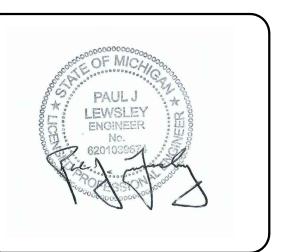
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WATER MAIN DETAILS

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PROJECT MANAGER
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PROJECT MANAGER
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G.PLATZ

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SM23059

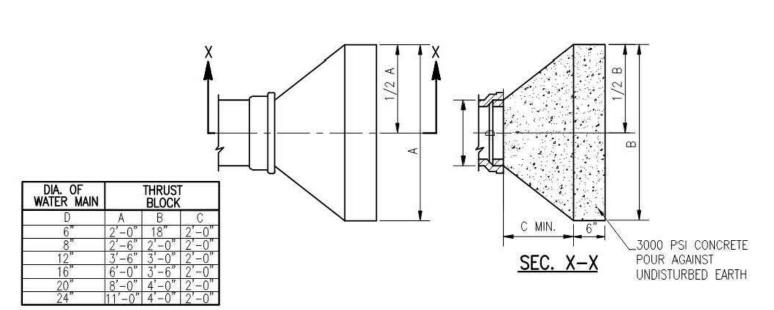
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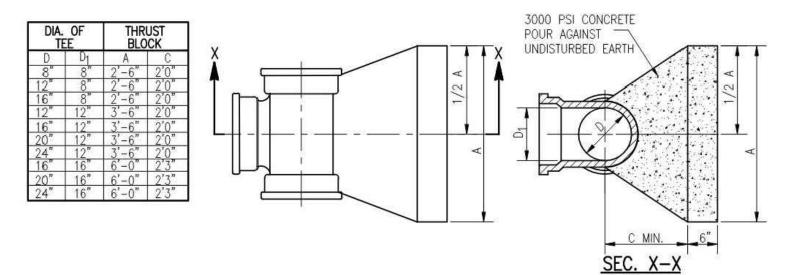
PROJECT SURVEYOR
D.JACKSON
DEPARTMENT MANAGER
D.JACKSON
DRAWING NO.
SM23059PL

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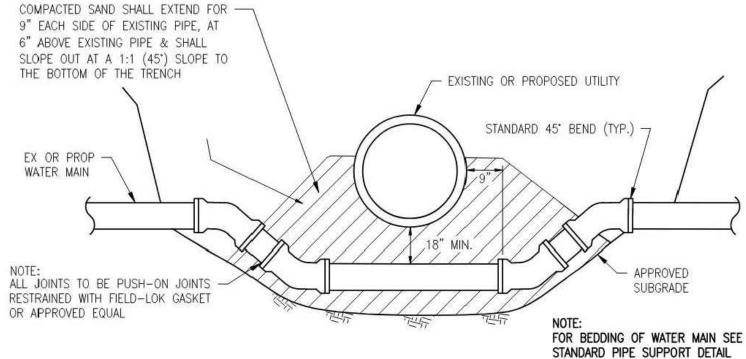


## THRUST BLOCK AT PLUG OR HYDRANT SHOE NOT TO SCALE

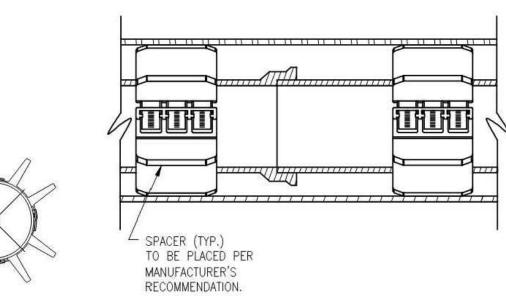


## THRUST BLOCK AT TAPPING SLEEVE TEE

CONCRETE THRUST BLOCKS WILL NOT BE PERMITTED EXCEPT BEHIND HYDRANT SHOES AND TAPPING SLEEVES. USE OF CONCRETE THRUST BLOCKS IN OTHER LOCATIONS WILL NOT BE PERMITTED WITHOUT THE WRITTEN APPROVAL OF YCUA. ALL OTHER VERTICAL AND HORIZONTAL BENDS SHALL BE RESTRAINED WITH FIELD-LOK GASKETS OR APPROVED MECHANICAL JOINTS.



WATER MAIN LOWERING NOT TO SCALE



SPACER END VIEW NOT TO SCALE

## STANDARD CASING SECTION

1. SPACERS FOR PLACEMENT IN THE ANNULAR SPACE BETWEEN THE CARRIER PIPE AND A CASING PIPE SHALL BE RANGER II AS

MANUFACTURED BY PSI OR APPROVED EQUAL. 2. END SEALS SHALL BE MODEL C RUBBER SEAL WITH STAINLESS

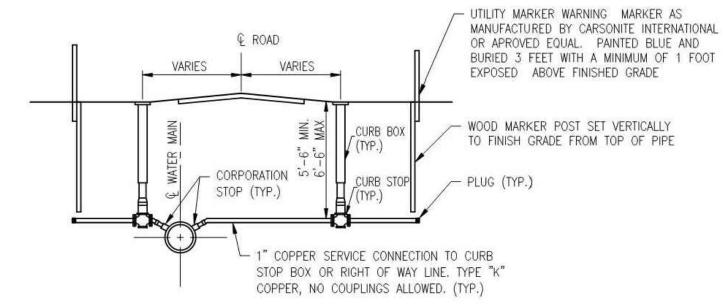
STEEL BANDS AS MANUFACTURED BY PSI OR APPROVED EQUAL.

TRENCH A TRENCH B STANDARD BACKFILL TRENCH SAND BACKFILL TRENCH (FOR AREAS UNDER OR WITHIN A 1:1 (FOR AREAS UNDER OR WITHIN A 1:1 INFLUENCE OF PAVEMENT) INFLUENCE OF PAVEMENT) COMPACTED MDOT GRANULAR MATERIAL CLASS II OR III - COMPACTED SUITABLE PLACED IN LAYERS NOT TO EXCAVATED MATERIAL EXCEED 12" IN THICKNESS (OR AS DIRECTED BY THE AGENCY HAVING JURISDICTION - MDOT GRANULAR MATERIAL OVER THE RIGHT-OF-WAY CLASS II, COMPACTED TO OR EASEMENT) 95% MAX. DENSITY 4" MIN.\* SUBGRADE\* \_{ 30" LESS THAN 16" I.D. 0.D. +12" 16"-36" I.D.

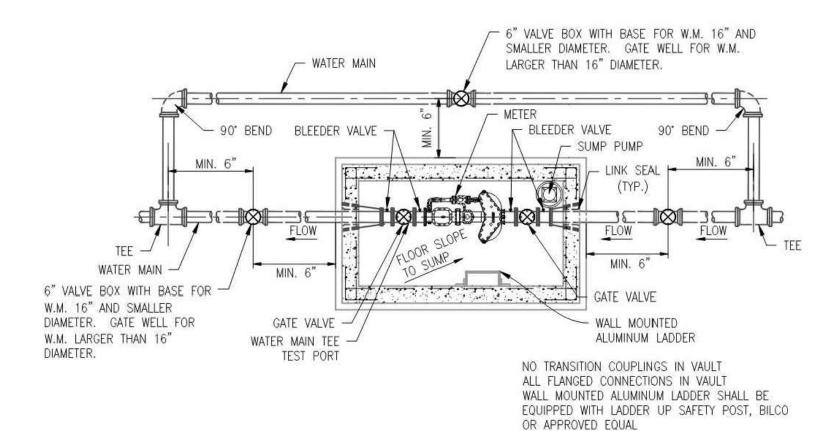
## BEDDING AND TRENCH BACKFILL DETAIL FOR WATER MAIN

NOT TO SCALE

NOTE: IF THE EXISTING SUBGRADE MATERIAL MEETS THE REQUIREMENTS FOR MDOT GRANULAR MATERIAL CLASS II (MINIMUM 4" THICK), THEN THE WATER MAIN MAY BE LAID DIRECTLY ON THE COMPACTED EXISTING SUBGRADE MATERIAL.



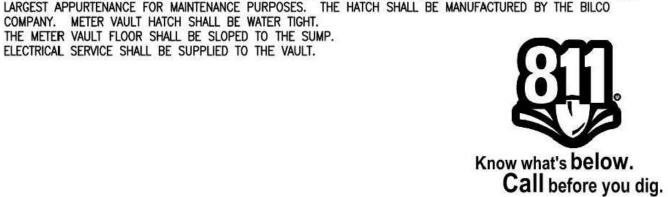
TYPICAL WATER SERVICE NOT TO SCALE

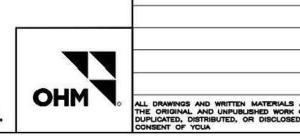


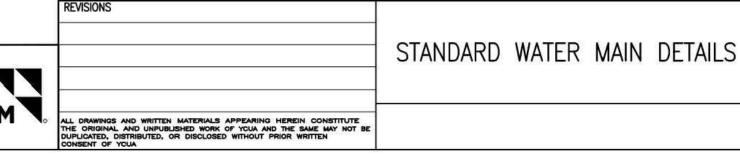
## MASTER METER VAULT CONFIGURATION (WITHOUT COVER)

## NOT TO SCALE WHERE POSSIBLE THE METER VAULT SHALL BE LOCATED AWAY FROM TRAFFIC AREAS, ROADS, PARKING LOTS, ETC. 2. THE ACCESS HATCH SHALL BE SIZED LARGE ENOUGH TO ACCOMMODATE REMOVAL OF THE LARGEST METER OR THE

COMPANY. METER VAULT HATCH SHALL BE WATER TIGHT. 3. THE METER VAULT FLOOR SHALL BE SLOPED TO THE SUMP. 4. ELECTRICAL SERVICE SHALL BE SUPPLIED TO THE VAULT.







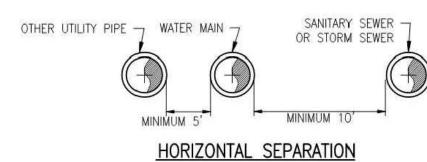
/ WATER PROOF

ALUMINUM LID

- WATER MAIN

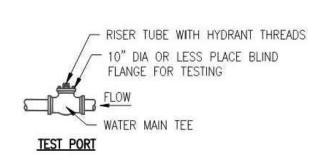
(INCLUDING WATER MAIN) WATER MAIN NOT LESS THAN FULL UNCUT LENGTH OF PIPE (L) L/2 WATER MAIN OVER -OTHER UTILITY PIPE OTHER UTILITY PIPE -MINIMUM 18" (INCLUDING WATER MAIN) SEPARATION REQUIREMENTS APPLY REGARDLESS OF VERTICAL VERTICAL SEPARATION ALIGNMENTS OF UTILITIES

OTHER UTILITY PIPE



WATER MAIN CROSSING OTHER UTILITIES

NOT TO SCALE



PIPE DIA TEST PORT SIZE 10" 10" 10"

ALUMINUM BILCO HATCH MASTER METER VAULT CONFIGURATION WITH COVER NOT TO SCALE

6" VALVE BOX ─\ 6" VALVE BOX ─\

LARGE WATER PROOF -

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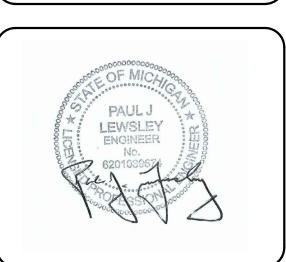
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Phone (248) 844-6274 400 Ann St. NW, Suite 204 Grand Rapids, MI 49504

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> KALITTA TURBINES **BUILDING ADDITION** 2830 TYLER ROAD YPSILANTI, MI

WATER MAIN DETAILS

SECTION 13 TOWN 03 SOUTH RANGE 07 EAST YPSILANTI TOWNSHIP WASHTENAW COUNTY MICHIGAN

WAS	WASHTENAW COUNTY, MICHIGAN		
NO.	DATE	REVISION	

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YPSILANTI COMMUNITY UTILITIES AUTHORITY

NO SCALE

09/25/19

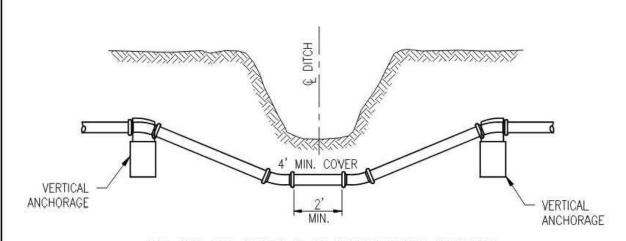
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WWW.YCUA.ORG

(734) 484-4600 FAX: (734) 544-7221

L.THORNTON	8-24-23
CHECKED	DATE
R.DONNELLY	8-24-23
FIELD LEADER	PROJECT SURVEYOR
S.MAYER	D.JACKSON
PROJECT MANAGER	DEPARTMENT MANAGER
D.JACKSON	G.PLATZ
JOB NO.	DRAWING NO.
SM23059	SM23059SPL
SCALE:	SHEET NO.
	CE-9

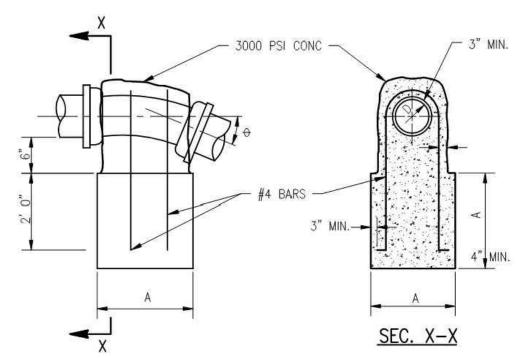
BACKFILL IN THE AREA OF STREETS, ALLEYS SIDEWALKS, DRIVES & PARKING LOTS NOT TO SCALE



JOINTS PER APPROVED RESTRAINING SCHEDULE

USE FIELD-LOK GASKETS AT ALL NECESSARY NON-MECHANICAL

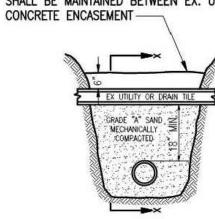
STANDARD DITCH CROSSING NOT TO SCALE

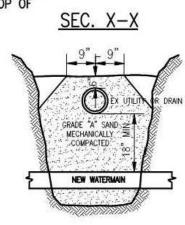


DETAIL OF VERTICAL ANCHORAGE NOT TO SCALE

DIA. OF WATER MAIN	BEND	A	NUMBER OF BARS
D	0		
6"	22 1/2*	2'-0"	2
8"	22 1/2*	3'-3"	2
12"	11 1/4	3'-3"	3 2
12	22 1/2*	4'-0"	3
16"	11 1/4*	3'-3"	2
10	22 1/2	4'-0"	3
20"	11 1/4	4'-0"	2
20	22 1/2	5'-0"	3
24"	11 1/4	4'-0"	2
24	22 1/2	5'-0"	3

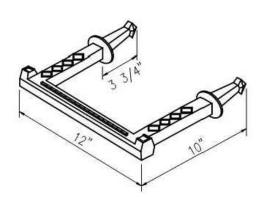
WHERE CONCRETE ENCASEMENT IS SPECIFIED FOR NEW UTILITY A 6" MINIMUM LAYER OF MECHANICALLY COMPACTED SAND SHALL BE MAINTAINED BETWEEN EX. UTILITY & TOP OF

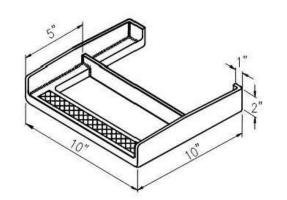




COMPACTED SAND SHALL EXTEND FOR 9" EACH SIDE OF EXISTING PIPE, AT 6" ABOVE EXISTING PIPE & SHALL SLOPE OUT AT A 1:1 (45") SLOPE TO THE BOTTOM OF THE TRENCH

STANDARD PIPE SUPPORT NOT TO SCALE

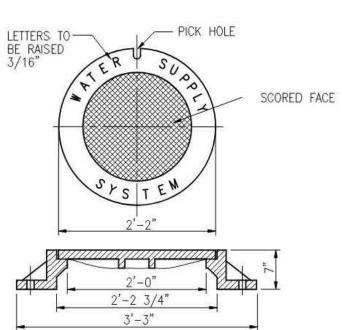




M.A. PSI-375 USE AS REQUIRED

STANDARD MANHOLE STEP EJ 8500 USE AS REQUIRED

INSTALLED IN ECCENTRIC WELLS ONLY. CONCENTRIC WELLS WILL NOT BE INSTALLED WITH STEPS.



STANDARD FRAME & COVER EJ #1040 USE AS "REQUIRED

## PIPE RESTRAINT SCHEDULE

THE FOLLOWING TABLE IS A JOINT RESTRAINT SCHEDULE (DIPRA) FOR GROUND-BURIED DUCTILE IRON OR PVC PIPE. LENGTHS OF PIPE RESTRAINT ARE GIVEN IN FEET.

PIPE DIAMETER	TEES, 90°, PLUGS	45° BENDS	22 1/2° BENDS	REDUCERS
6"	40	25	25	30
8"	55	25	25	30
12"	80	35	25	55
16"	100	40	25	60
24"	135	56	25	65

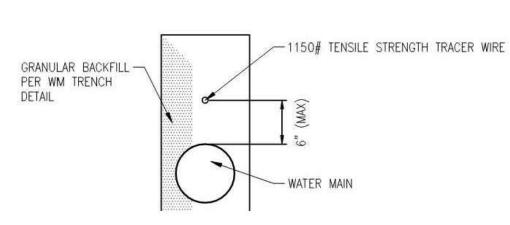
BASED UPON

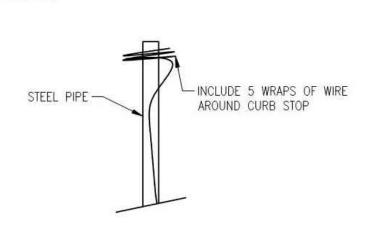
INTERNAL PRESSURE: PIPE DEPTH: BEDDING CLASS: SOIL TYPE: SAFETY FACTOR:

TYPE 4 GOOD SAND

- 1. IF PIPE DIAMETER IS NOT LISTED IN THIS TABLE; THE NEXT LARGEST PIPE SHALL BE USED. THIS TABLE IS BASED ON A TEST PRESSURE OF 180 PSI (OPERATING PRESSURE PLUS WATER HAMMER).
- 2. FOR OTHER TEST PRESSURES, ALL VALUES TO BE INCREASED OR DECREASED PROPORTIONALLY. THE VALUES PROVIDED OF RESTRAINT LENGTH ARE IN EACH DIRECTION FROM THE POINT OF DEFLECTION OR TERMINATION EXCEPT FOR TEES, AT WHICH ONLY THE BRANCH IN THE DIRECTION OF THE STEM.
- 3. IF TIE RODS ARE USED, USE FOUR RODS MINIMUM AND ADD 1/8 INCH TO BAR DIAMETER AS CORROSION ALLOWANCE. SIZE REDUCTION IS BASED UPON THE PIPE DIAMETER SHOWN IN THIS TABLE.
- 4. MANUFACTURER'S RESTRAINT SCHEDULE AND SPECIFIC SITE CONDITIONS MAY MODIFY THE ABOVE SCHEDULE. ANY ALTERNATIVE SCHEDULE SHALL BE SUBMITTED TO YOUA FOR APPROVAL.







OPEN CUT MAIN LINE TRENCH

NOT TO SCALE

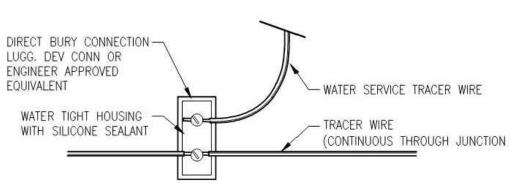
EQUIVALENT

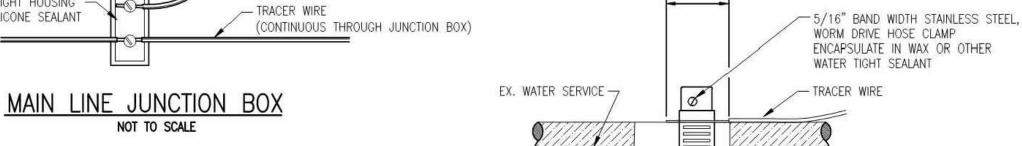
NOT TO SCALE

CURB BOX WIRE COIL NOT TO SCALE

REMOVE 1" OF WIRE INSULATION

FROM COPPER TRACER WIRE

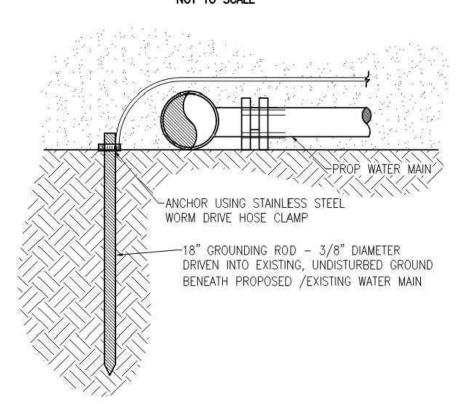




- TWIST ON WIRE NUT (4 WIRES MAXIMUM) - SILICONE SEALED DIRECT BURRY ENCASEMENT SINGLE KNOT



## SPLICE CONNECTOR



**GROUNDING ROD TERMINATION** 

----- WIRE TESTING POINT

CABLE TIE

SEE CURB BOX WIRE COIL DETAIL

- MAIN LINE JUNCTION BOX

NOT TO SCALE

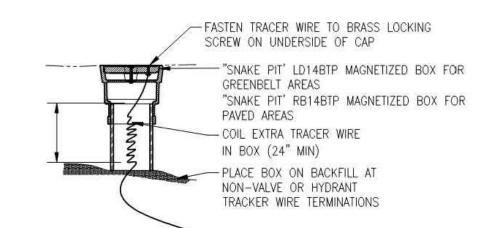
CONNECT TRACER WIRE TO -

SEE WATER SERVICE TRACER

EX WATER SERVICE WITH

WIRE TERMINATION DETAIL

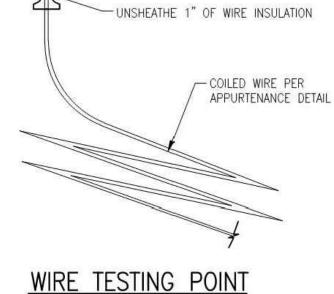
PIPE CLAMPS



CLEAN EX COPPER SURFACE WITH EMORY CLOTH

UNTIL SOIL RESIDUE & OXIDES ARE REMOVED

## TRACER WIRE TEST POINT NOT TO SCALE



NOT TO SCALE

## CURB STOP CONNECTION NOT TO SCALE



	KEVISIONS
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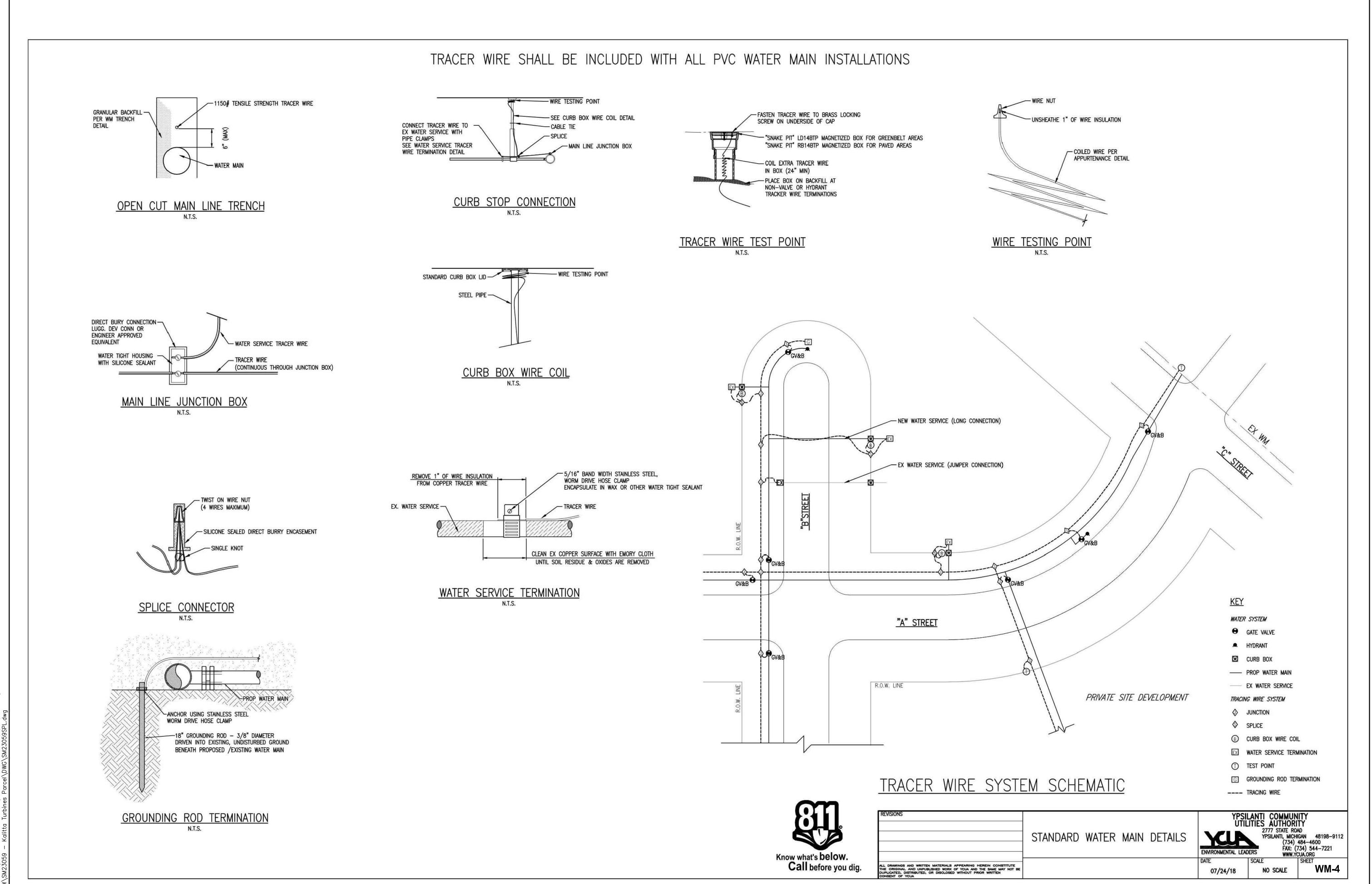
WATER MAIN DETAILS

SECTION 13 TOWN 03 SOUTH RANGE 07 EAST YPSILANTI TOWNSHIP

WAS	WASHTENAW COUNTY, MICHIGAN		
NO.	DATE	REVISION	

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8-24-23 ..THORNTON **R.DONNELLY** 8-24-23 FIELD LEADER PROJECT SURVEYOR S.MAYER D.JACKSON PROJECT MANAGER DEPARTMENT MANAGER D.JACKSON G.PLATZ SM23059 SM23059SPL CE-10



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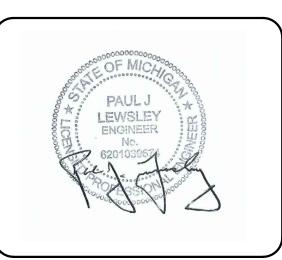
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WATER MAIN DETAILS

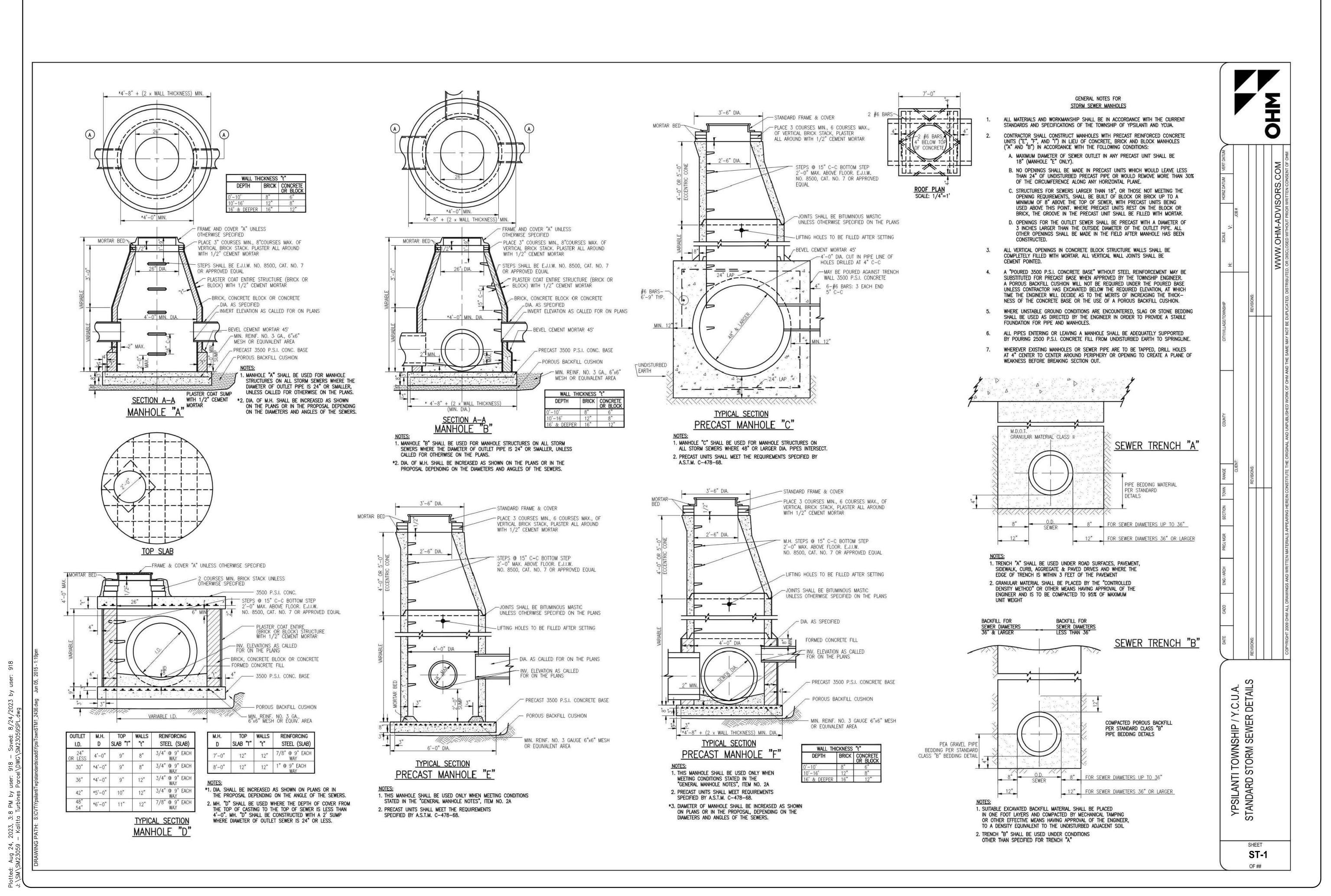
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L.THORNTON	8-24-23	
CHECKED	DATE	
R.DONNELLY	8-24-23	
FIELD LEADER	PROJECT SURVEYOR	
S.MAYER	D.JACKSON	
PROJECT MANAGER	DEPARTMENT MANAGER	
D.JACKSON	G.PLATZ	
JOB NO.	DRAWING NO.	
SM23059	SM23059SPL	

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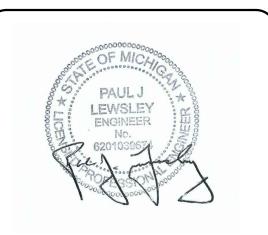
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KALITTA TURBINES BUILDING ADDITION 2830 TYLER ROAD YPSILANTI, MI

STORM SEWER DETAILS

SECTION 13
TOWN 03 SOUTH RANGE 07 EAST
YPSILANTI TOWNSHIP
WASHTENAW COUNTY, MICHIGAN

NO. DATE REVISION

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PROJECT MANAGER

D.JACKSON

PROJECT MANAGER

D.JACKSON

G.PLATZ

DRAWING NO.

SM23059

SCALE:

DATE

8-24-23

PROJECT SURVEYOR

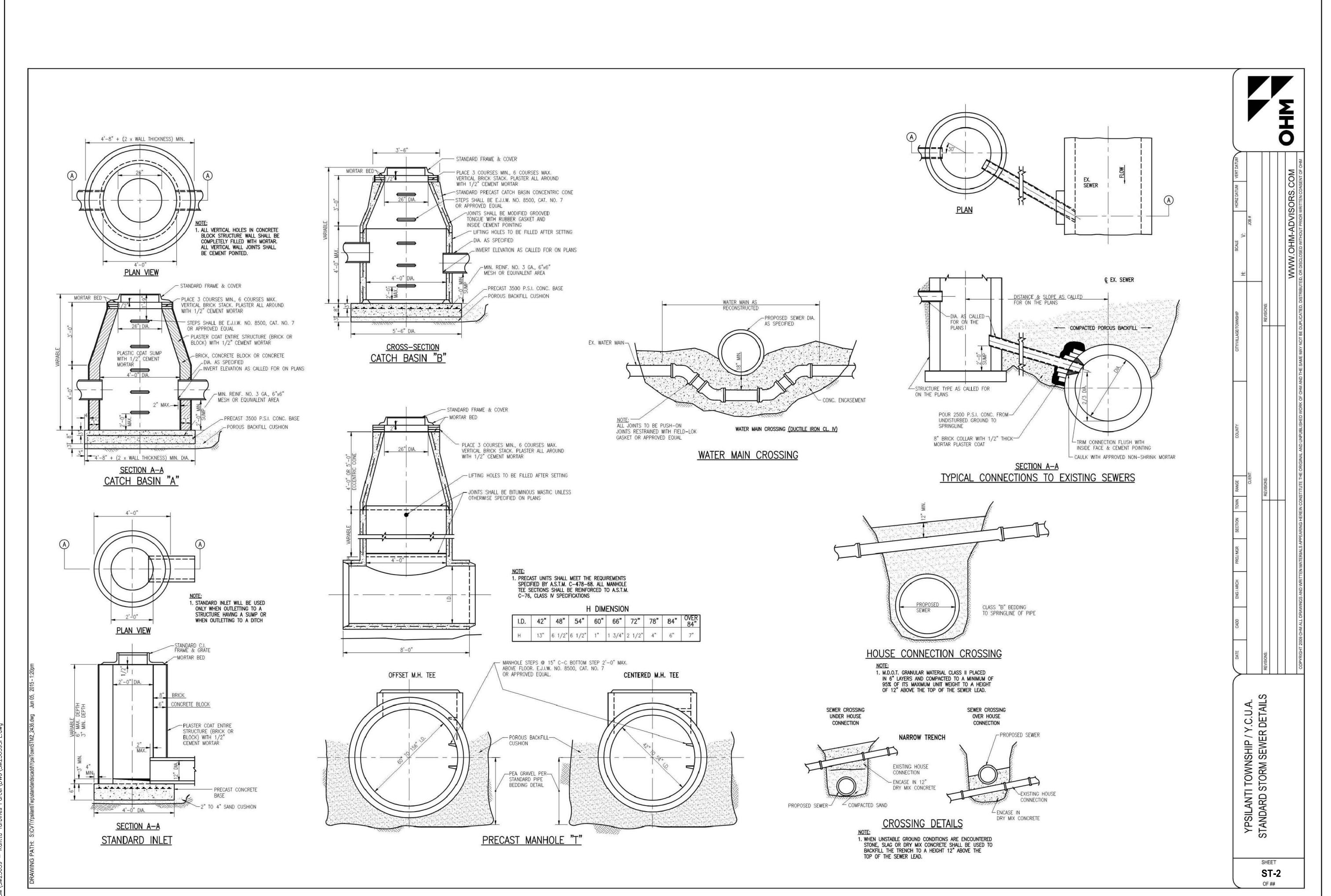
D.JACKSON

DEPARTMENT MANAGER

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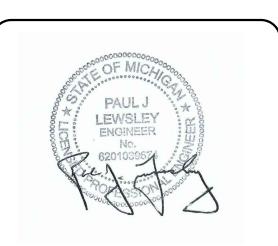
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KALITTA TURBINES
BUILDING ADDITION
2830 TYLER ROAD
YPSILANTI, MI

STORM SEWER DETAILS

SECTION 13

TOWN 03 SOUTH RANGE 07 EAST

YPSILANTI TOWNSHIP

WASHTENAW COUNTY, MICHIGAN

NO.	DATE	REVISION

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D.JACKSON

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D.JACKSON

DEPARTMENT MANAGER
G.PLATZ

JOB NO.

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PROJECT SURVEYOR
D.JACKSON

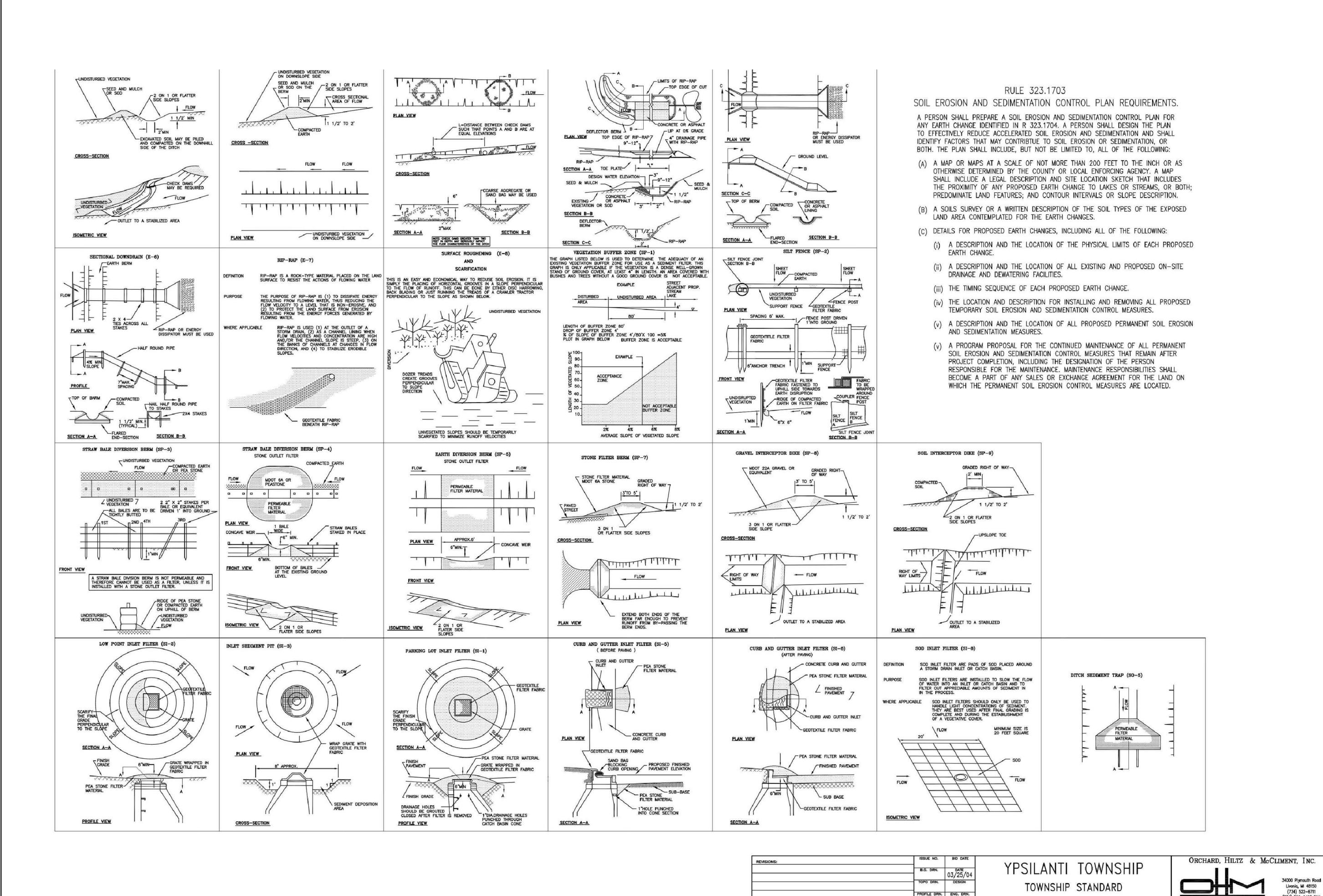
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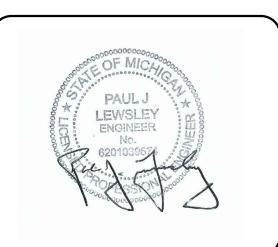
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KALITTA TURBINES
BUILDING ADDITION
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YPSILANTI, MI

SOIL EROSION CONTROL DETAILS

SECTION 13
TOWN 03 SOUTH RANGE 07 EAST
YPSILANTI TOWNSHIP
WASHTENAW COUNTY, MICHIGAN

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R.DONNELLY

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D.JACKSON

PROJECT MANAGER

D.JACKSON

G.PLATZ

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Provided: None

TABULAR AREA (TABLE 506.2): 17,500 SQ. FT. (COMPLIES) (TYPE IIB CONSTRUCTION, S-1: ONE STORY, NON-SPRINKLERED) FIRE RESISTANCE RATING OF STRUCTURAL ELEMENTS: Required: None

Length of exit access travel: Complies with Table 1017.2 (200 Egress Capacity: 0.20 inches per person (doors) per Section

> (4) DOORS x 34" clear opening = 680 persons 0.20 per person

**ACTUAL BUILDING AREA:** 

**TOTAL AREA:** 

12,000 SQ. FT.

## **CODE COMPLIANCE:**

## **INTERPRETIVE CODES:**

- Building: 2015 Michigan Building Code
- ICC/ANSI A117.1-2009 & Michigan Barrier Free Design Law of Public Act 1 of 1966 as amended.
- Energy: Michigan Uniform Energy Code Rules Part 10 with ANSI/ASHRAE/IESNA Standard 90.1-2013
- Electrical: Michigan Electrical Code based on 2017 NEC with Part 8 State Amendments
- Plumbing: 2018 Michigan Plumbing Code
- Mechanical: 2015 Michigan Mechanical Code

#### Fire Suppression System:

None provided.

## Fire Alarm System:

Fire Alarm System to be modified in accordance with NFPA 72. Fire Alarm Contractor shall submit plans for approval prior to modification.

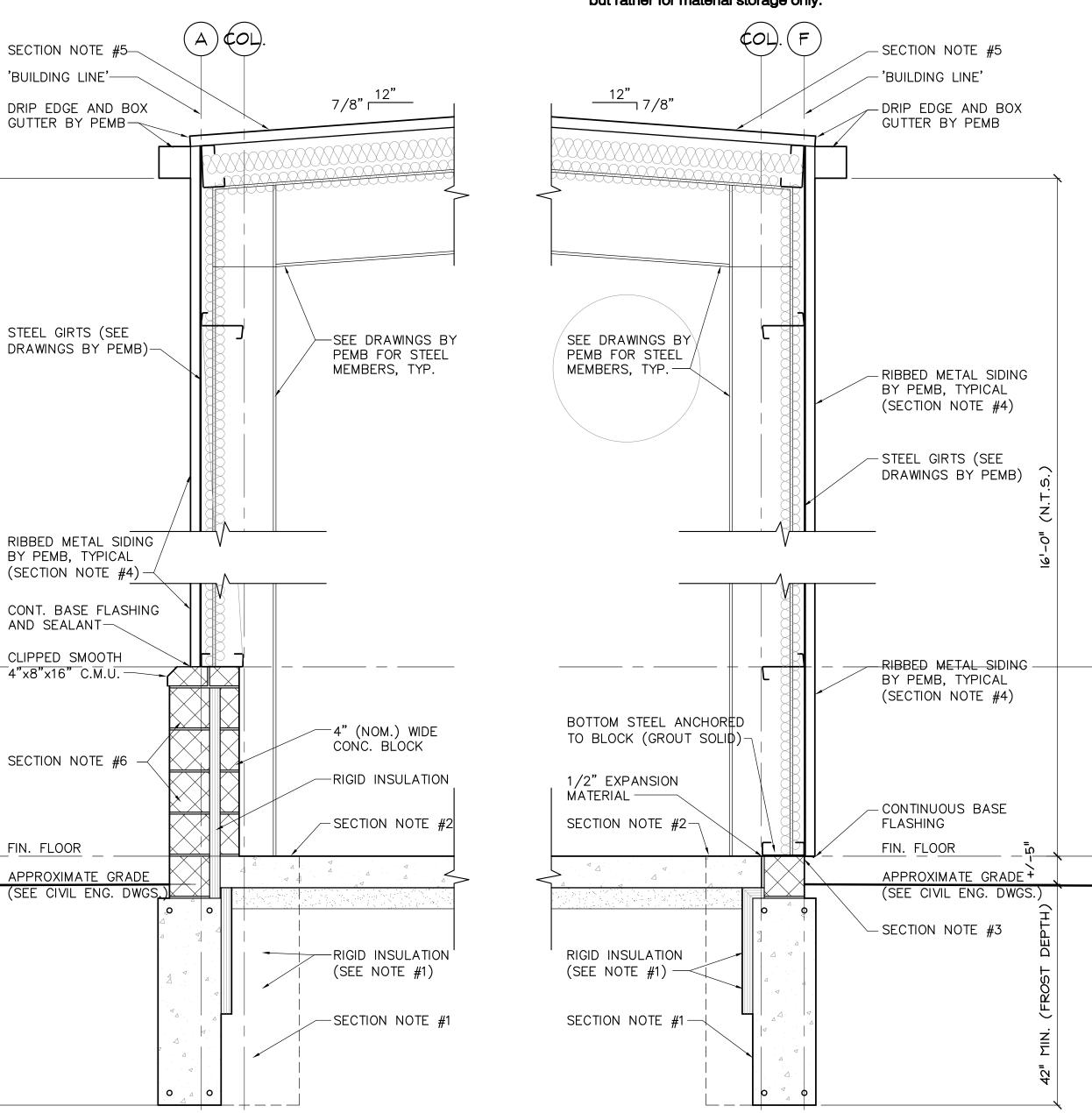
**Building Use Groups:** 'S-1' Storage

Construction Type: IIB (Non-combustible/Non-protected structure)

## EGRESS DESIGN OCCUPANT LOAD

12,000 G.S.F./500 G.S.F. = 24 OCCUPANTS\*

\* This Storage Building is not intended to be occupied, but rather for material storage only.



#### COL. COLUMN REIN.A. REINFORCING/REINFORCEMENT CONC. CONCRETE REQ'D REQUIRED CONT CONTINUOUS RTU ROOFTOP UNIT (MECH./HVAC) D.F. DRINKING FOUNTAIN RAINWATER CONDUCTOR DIA. DIAMETER SAN SANITARY DWG. DRAWING SCHED. SCHEDULE DR. DOOR SS STAINLESS STEEL OR SERVICE SINK ELEC. **ELECTRICAL** STL. STEEL ELEV. ELEVATION STRUCT. STRUCTURAL EXTERIOR EXT. SUSP. SUSPENDED ELECTRICAL WATER COOLER EWC THRESH THRESHOLD FD FLOOR DRAIN TLT. TOILET FINISHED FLOOR T.O.F. TOP OF FOOTING FIN. **FINISH** TOP OF MASONRY T.O.M. FIRE-RESISTANCE TREATED T.O.S. TOP OF STEEL FTG FOOTING TYP. TYPICAL GYP. BD. GYPSUM BOARD UNDERWRITERS LABORATORIES HOLLOW METAL UNLESS NOTED OTHERWISE U.N.O. HORIZ. HORIZONTAL USMD UNDERSIDE OF METAL DECK ICC INTERNATIONAL CODE COUNCIL VCT VINYL COMPOSITE TILE INSUL INSULATION VERT. VERTICAL LAV. LAVATORY VERIFY IN FIELD V.I.F. LUXURY VINYL TILE LVT W/ WITH MAX. MAXIMUM W/O WITHOUT

**ABBREVIATIONS:** 

ANODIZED

ALUMINUM

CENTERLINE

CONTROL JOINT

A.F.F.

ANOD.

ANSI

ALUM

CJ

MBC

MPC MECH. AMERICANS WITH DISABILITIES ACT

AMERICAN NATIONAL STANDARDS INSTITUTE

ABOVE FINISHED FLOOR

CONCRETE MASONRY UNIT

MICHIGAN BUILDING CODE (2015)

MICHIGAN PLUMBING CODE (2015)

MECHANICAL

METAL

MICHIGAN MECHANICAL CODE (2015)

## **SECTION NOTES**

REINFORCED CONCRETE FOOTING / FOUNDATION. SEE STRUCTURAL DRAWINGS BY OTHERS FOR ALL INFORMATION RELATING TO SIZE AND CONFIGURATION OF FOUNDATION WORK. FOUNDATION WORK SHOWN HERE IS FOR GENERAL REFERENCE

W.C.

WD. WOOD

MINIMUM

OVERHEAD

PLYWOOD

WATER CLOSET

M.M.

NFPA

O.C.

0.H.

PLAM.

PLYWD.

MASONRY OPENING

PLASTIC LAMINATE

NATIONAL ELECTRICAL CODE (2014)

ON CENTER (CENTER TO CENTER)

NATIONAL FIRE PROTECTION ASSOCIATION

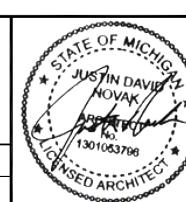
- 6" THICK CONCRETE SLAB (SEE STRUCTURAL ENGINEERING DRAWINGS BY OTHERS FOR SLAB DETAILS SUCH AS THICKNESS, REINFORCEMENT, ETC.) ON 4" MIN. WELL COMPACTED GRANULAR FILL. COMPACT FILL TO UNIFORM DENSITY, MINIMUM 95%. PROVIDE MINIMUM R-10 (2" THICK RIGID) PERIMETER INSULATION AT ALL EXTERIOR FOUNDATION WALLS.
- SINGLE BASE COURSE OF NOM. 8" WIDE CONCRETE BLOCK (GROUT SOLID), SEE DRAWINGS BY OTHERS FOR STEEL ANGLE OR CHANNEL AND METAL SIDING ATTACHMENT. INSTALL CONTINUOUS METAL FLASHING AT METAL SIDING BASE PER MANUFACTURER'S RECOMMENDED SPECIFICATIONS.
- 4 METAL SIDING PANELS FASTENED TO PRE-ENGINEERED BUILDING GIRTS BY OTHERS (SEE DRAWINGS BY PEMB) PER STANDARD OF PANEL MANUFACTURER (VERIFY COLOR WITH OWNER AND/OR DEVELOPER). INSTALL MINIMUM 4" THICK CONTINUOUS INSULATION BEHIND PANELS AT EXTERIOR WALLS WHERE NO OTHER INSULATION IS PROVIDED. PEMB TO FURNISH DOWNSPOUTS AT COLUMN LOCATIONS ON EAST AND WEST SIDES (SEE ELEVATIONS ON SHEET A-301)
- 5 STANDING SEAM METAL ROOF PANELS ON METAL PURLINS BY OTHERS (SEE DRAWINGS BY PRE-ENGINEERED BUILDING MANUFACTURER; METALLIC BUILDING SYSTEMS). INSTALL A MINUMUM OF R-32 INSULATION ON UNDERSIDE OF ROOF. PEMB TO FURNISH CONTINUOUS GUTTERS ON EAST AND WEST
- 6 8"x8"x16" (NOMINAL) SPLIT-FACE C.M.U. KNEEWALL ON NORTH AND WEST BUILDING SIDES. INSTALL JOINT REINF. 16" O.C. VERTICALLY (EVERY OTHER COURSE), SEE STRUCTURAL DWGS. FOR ADDITIONAL REINFORCEMENT.

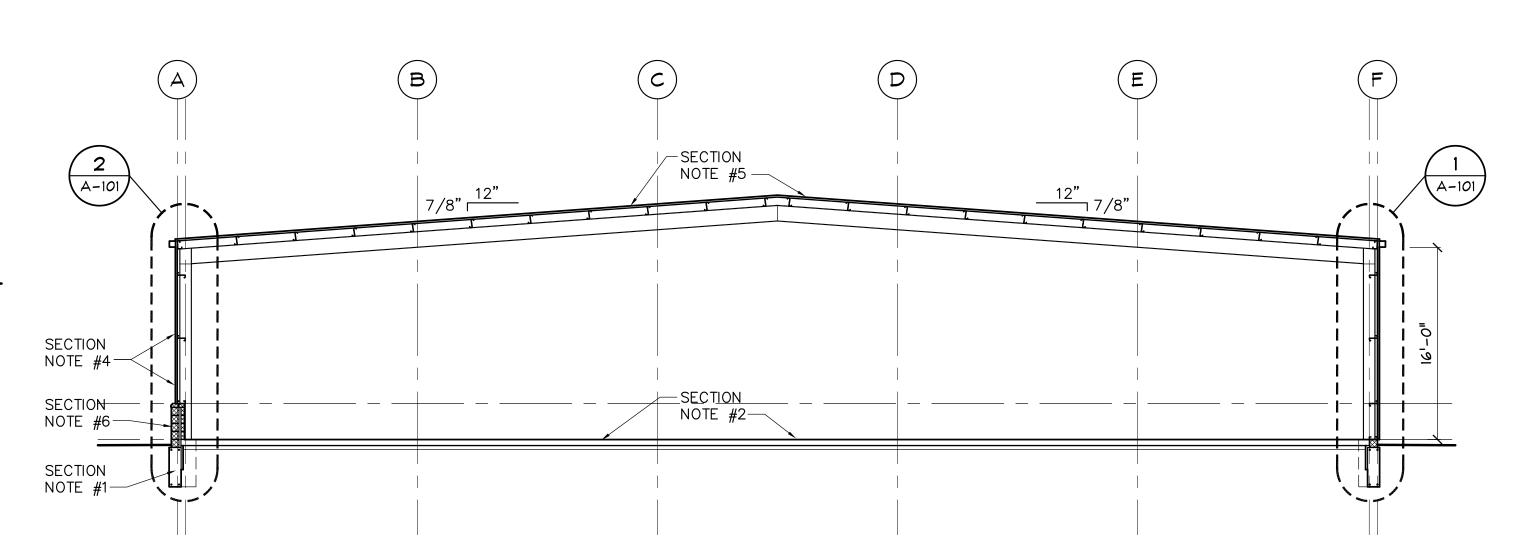
NO.	DESCRIPTION	
NO.	DESCRIPTION	
CE-1	COVER SHEET (CIVIL ENGINEERING)	
CE-2	GRADING PLAN	
CE-3	UTILITY PLAN	
CE-4	UTILITY PROFILES	
CE-5	STORM DRAINAGE PLAN	
CE-6	DEMOLITION AND SOIL EROSION PLAN	
CE-7	TOPOGRAPHICAL SURVEY	
CE-8	WATER MAIN DETAILS	
CE-9	WATER MAIN DETAILS	
CE-10	WATER MAIN DETAILS	
CE-11	WATER MAIN DETAILS	
CE-12	STORM SEWER DETAILS	
CE-13	STORM SEWER DETAILS	
CE-14	SOIL EROSION DETAILS	
A 101	SECTIONS & CODE COMPLIANCE	
A-101 A-201	SECTIONS & CODE COMPLIANCE	
A-201 A-301	PLANS ELEVATIONS	
A-301	ELEVATIONS	
S-1	FOUNDATION PLAN	
S-2	FOUNDATION DETAILS	
S-3	SCHEDULES AND DETAILS	
M-201	MECHANICAL SECTION, DETAILS, AND SCHEDULES	
E-000	ELECTRICAL LEGEND, TABLES, AND GENERAL NOTES	
E-010	ELECTRICAL RISER DIAGRAM & PANEL SCHEDULES	
E-020	WIRE & LIGHTING SCHEDULES & CONTROL MATRIX	
E-100	FLOOR PLAN — ELECTRICAL	
E-500	ELECTRICAL DETAILS	
E-600	ELECTRICAL SPECIFICATIONS	

## **ARCHITECT'S SEAL:**

Architects seal/signature only applies to scheduled Architectural sheets (those with an 'A' prefix) with the date and designation shown below. See drawings by other disciplines for their respective scale

disciplines for their respective seals.			
DATE:	DESIGNATION:		
Oct. 11, 2023	REVISED		



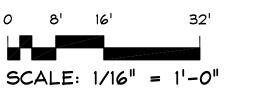


2 WEST WALL SECTION

SCALE: 3/4" = 1'-0"

EAST WALL SECTION A-101 SCALE: 3/4'' = 1'-0''





ciate churmar planners

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> REVIEW June 06, 2023 REVISED June 20, 2023 WAINSCOT Aug. 07, 2023 REVISED Oct. 11, 2023

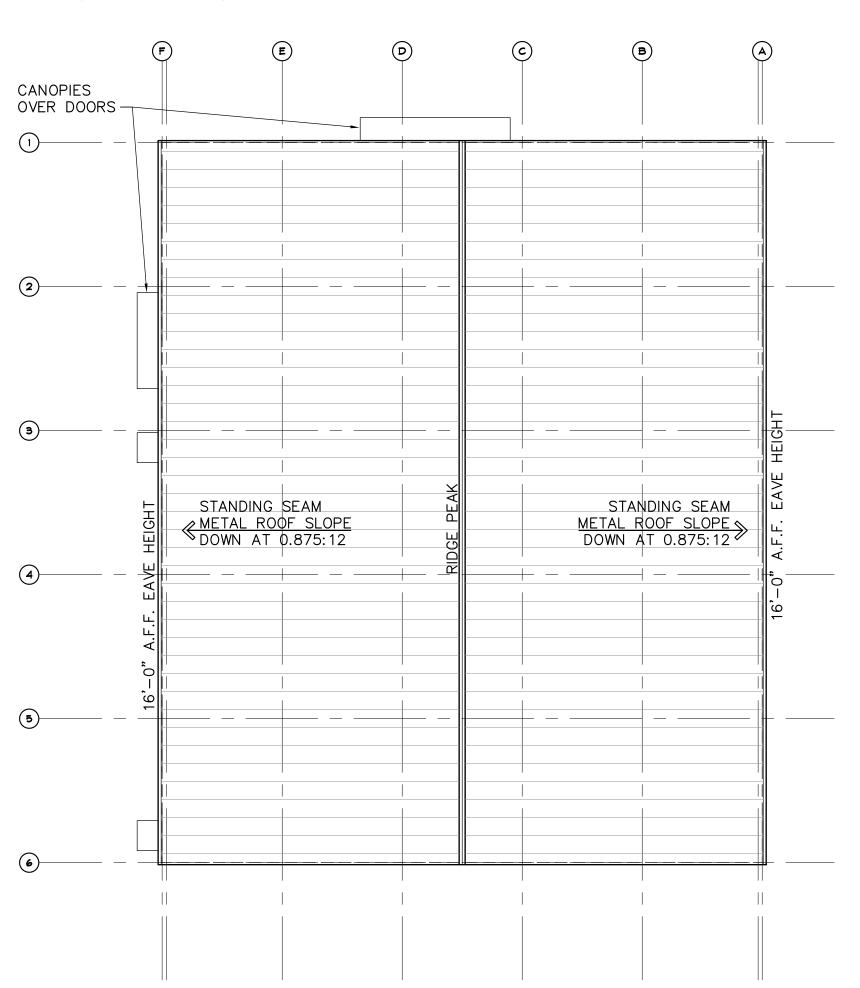
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DRAWN BY: HECKED BY: 23-9266 JOB NO: SHEET NUMBER:

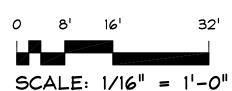
A-101

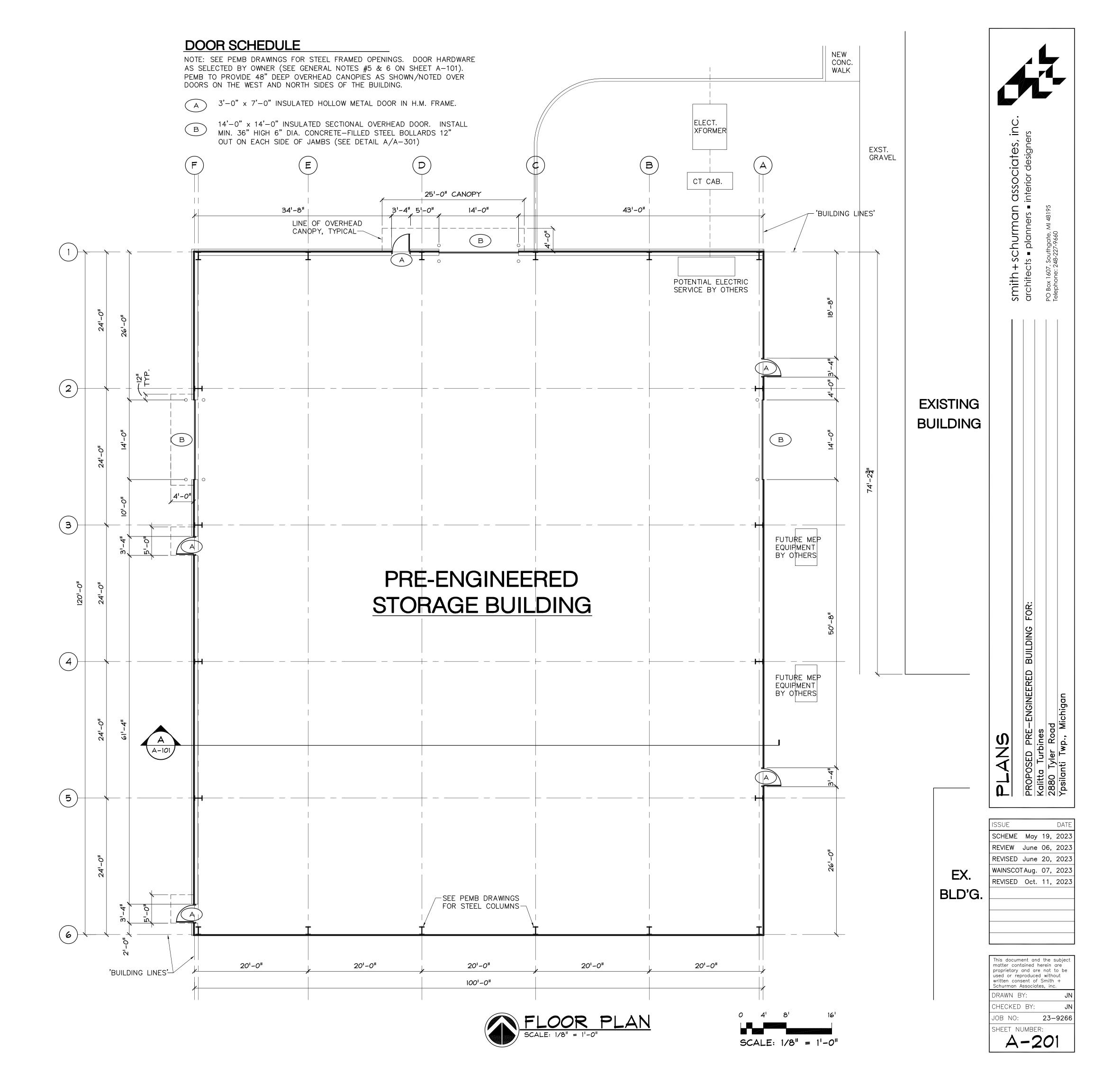
## **GENERAL NOTES**

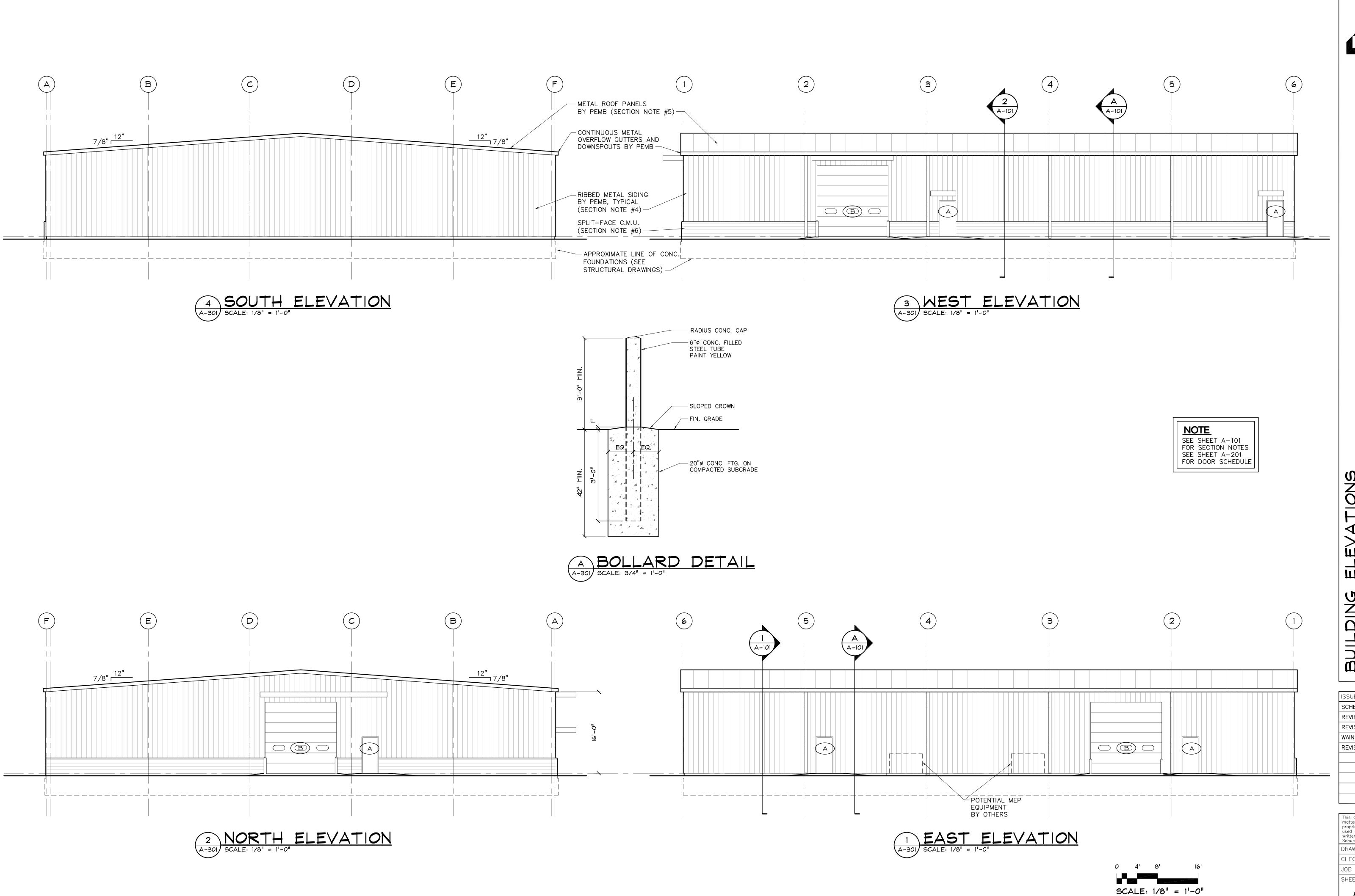
- 1 DO NOT SCALE DRAWINGS. USE DIMENSIONS GIVEN OR FIELD VERIFY IF NECESSARY.
- 2 ONLY DOCUMENTS INDICATED AS "BIDDING" OR "CONSTRUCTION" ARE TO BE USED FOR BIDDING OR CONSTRUCTION.
- THE REQUIREMENTS OF ICC/ANSI A117.1 AND THE AMERICANS WITH DISABILITIES ACT (ADA) ARE TO BE FULLY SATISFIED. ALL WORK SHALL MEET THE MOST STRINGENT REQUIREMENTS OF BOTH INCLUDING, BUT NOT LIMITED TO CLEARANCES, LIMITATIONS, ACCESSORIES, ETC. THESE DRAWINGS ARE PREPARED IN ACCORDANCE WITH THE LIMITED SERVICES FOR WHICH THE ARCHITECT WAS CONTRACTED. THE ARCHITECT MAKES NO REPRESENTATION THAT THE INTERPRETATION OF THESE DOCUMENTS WILL RESULT IN COMPLETE COMPLIANCE WITH THE ADA.
- 4 ALL GLASS SHALL CONFORM TO FS DD-G-451. SAFETY GLASS SHALL CONFORM TO U.S. CONSUMERS PRODUCT SAFETY COMMISSION STANDARD 16 CFR 1201.
- 5 ALL DOORS REQUIRED TO BE LABELED SHALL BE SET IN LABELED FRAMES AND IDENTIFIED WITH UL LABEL AND PROVIDED WITH APPROVED SELF—CLOSING DEVICES AND POSITIVE LATCHING HARDWARE.
- 6 ALL DESIGNATED EXIT DOORS SHALL BE EQUIPPED WITH NON-LOCKING AGAINST EGRESS HARDWARE.
- 7 UNLESS NOTED OTHERWISE, PRODUCTS SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS. CONTRACTOR TO PROVIDE ALL PRODUCT WARRANTIES AND INFORMATION TO PROPERTY MANAGER UPON COMPLETION OF CONSTRUCTION.
- PLASTIC PIPING, INSULATION AND OTHER COMBUSTIBLE MATERIALS SHALL BE RESTRICTED TO USE WHERE PERMITTED BY CODE AND IN NON-COMBUSTIBLE WALLS AND CEILING SPACES THAT DO NOT CONNECT DIRECTLY TO OCCUPIED ROOMS OR VENTILATING AIR DUCTS OR SPACES, IN ACCORDANCE WITH THE MICHIGAN STATE FIRE MARSHAL REGULATIONS. PROVIDE STEEL PIPING FOR ALL PLASTIC PIPING PASSING THROUGH FIREWALLS. RATED SHAFT WALLS SHALL BE DESIGNATED AS SUCH IN ACCORDANCE WITH 2015 MICHIGAN BUILDING CODE SECTION 703.7.
- 9 ALL SIGNAGE THAT PROVIDES EMERGENCY INFORMATION OR GENERAL CIRCULATION DIRECTIONS OR SPACE IDENTIFICATION SHALL COMPLY WITH THE MOST STRINGENT OF ANSI A117.1 AND THE AMERICANS WITH DISABILITIES ACT.
- 10 WHEN REQUIRED, PORTABLE FIRE EXTINGUISHERS SHALL BE FURNISHED BY THE OWNER AND INSTALLED IN ACCORDANCE WITH NFPA 10.
- 11 ALL FINISH LUMBER SHALL HAVE A MOISTURE CONTENT OF 9% OR LESS.
- 12 PROVIDE FIRE RETARDANT TREATED (FRT) WOOD BLOCKING WHERE REQUIRED TO SUPPORT ITEMS MOUNTED TO PARTITIONS AND AROUND ALL DOOR OPENINGS, ETC. ALL LUMBER REQUIRED TO BE FIRE TREATED SHALL BEAR THE UL FR—S LABEL.
- 13 ALL INTERIOR FINISHES SHALL MEET THE FLAME SPREAD AND SMOKE DEVELOPED REQUIREMENTS OF MBC 2015, CHAPTER 8 "INTERIOR FINISHES".
- 14 ALL INTERIOR METAL STUD PARTITIONS ARE TO BE DESIGNED TO WITHSTAND A UNIFORM LATERAL LOAD OF 5 P.S.F. BRACE WALLS TO THE STRUCTURE AS REQUIRED. SUBMIT SHOP DRAWINGS TO THE ARCHITECT FOR APPROVAL PRIOR TO CONSTRUCTION.
- 15 ALL MECHANICAL/ELECTRICAL ENGINEERING SHALL BE PERFORMED ON A "DESIGN-BUILD" BASIS BY THE OWNER'S RESPECTIVE CONTRACTORS. ANY M/E ITEMS SHOWN HERE ARE FOR GENERAL REFERENCE ONLY.











smith + schurman associates, architects • planners • interior designe

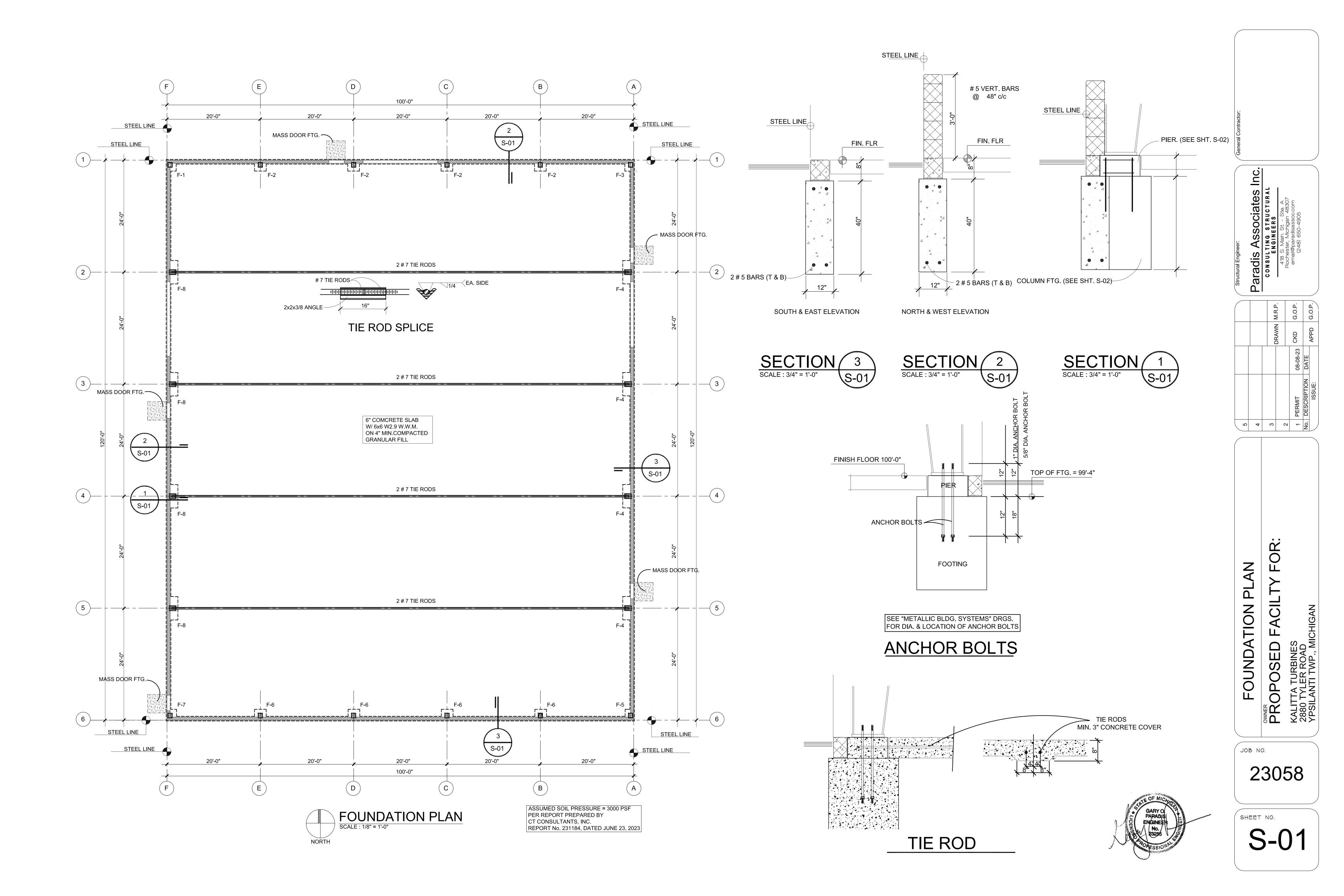
ELEVATIONS BUILDING

SCHEME May 19, 2023 REVIEW June 06, 2023 REVISED June 20, 2023

WAINSCOT Aug. 07, 2023 REVISED Oct. 11, 2023

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SHEET NUMBER: A-301



## **MASONRY NOTES:**

Contractor & all sub-trades are responsible for reviewing & complying with all applicable specifications contained herein. Where discrepancies occur between design drawings and these notes, design drawing specifications are to supersede.

#### **GENERAL WORMANSHIP:**

A: All work shall be in compliance with the latest building code requirements for masonry structures, Michigan Building Code, ACI 530/ASCE 5/TMS402 and specifications for masonry structures ACI 530.1/ASCE 6/TMS 602 and N.C.M.A. specifications.

B: The masonry contractor is responsible for the design and placement of all temporary shoring necessary for the stability of masonry structures during construction and prior to the completion of the project as shown in it's entirety in the construction documents.

#### C: All masonry below grade or fin. slab on grade shall be solid or have cores grouted solid.

D: Interior walls to be tied to the buildings structural steel at the top of the wall @ 48" c/c max. with a connection capable of min. 1" vert. deflection. Verify connection detail with Engineer.

#### MATERIALS:

A: All mortar shall be type "M" or "S".

B: All concrete masonry units shall conform to the latest version of the following: ASTM C 90 for load bearing or reinforced concrete units. ASTM C 744 for prefaced concrete and calcium silicate units. ASTM C 55 Grade N for concrete brick, i.e. split face. ASTM C 73 for calcium silicate face brick.

C: All clay or shale facing brick shall conform to ASTM C 216. All clay or shale hollow brick shall conform to ASTM C 652.

#### D: All masonry shall develop a 28 day minimum prism strength f'm = 1500 psi.

E: All reinforcing bars dowels, and ties shall conform to A.S.T.M. A615 grade 60. Reinforcing steel shall be continuous and have a minimum 50 bar diameter lap and be placed in accordance with ACI 530/ASCE 5/TMS402.

#### VERT. REINFORCEMENT:

A: All reinforcement to be #5 bars U.N.O. All bars to be placed in middle of fully grouted cell. Bars to be cont. & lapped spliced min. 31". Wire bars in place as required to maintain position during grouting.

#### B: All masonry vert. steel shall be lapped cont. & doweled into footings.

C: All interior C.M.U. and all exterior above grade C.M.U. walls up to 14'-0" in height shall have vertical reinforcing of @ 48" c/c. All masonry walls exceeding 14'-0" in height are to be reinforced. See structural details for specifics.

D: All C.M.U. walls are to have additional reinforced cells adjacent to all interruptions in the continuity of the wall, (i.e. door openings, control joints, ends of walls, etc.). Such additional reinforcement is to be of the same size vert. steel typical to that wall. Locate min. (1) reinforced cell located within 8" of all wall ends & corners & within 8" each side of control joints. For all openings provide one reinforced cell not obstructed by lintel within 16" of edge of opening plus one additional reinforced cell per side for each 4'-0" of opening width (round up to nearest number).

## HORZ. REINFORCEMENT:

A: Provide Dur-O-Wall 9 gauge "Ladur" type horz. C.M.U. wall reinforcement w/16" c/c cross-rod spacing. All horz. reinforcement to be lap spliced continous btwn. control joints. Splices to share one cross rod + min. 8" of side rods each side. Typical placement to be 16" c/c vert. Above all C.M.U. openings over 7'-4" wide place additional horz. reinforcement @ 8" c/c vert. Additional reinforcement to be continous from control joint on one side to min. 32" past edge of opening on other side.

B: All masonry bond beams are to have (2) #5 bars cont. Bars are to be lap spliced 32" min., be placed @ mid-height in course & have 1/2" grout cover to face shell. Wire bars in place as required to maintain position during grouting. Bond beams are to be continous through control

C: All control joints are to be typ. "Michigan" shear type with strecher block head joint grouted solid. All control joints are to have min. (1) reinforced cell located within 8" each side of joint.

## OPENINGS:

B: For all openings provide one reinforced cell not obstructed by lintel within 16" of edge of opening plus one additional reinforced cell per side for each 4'-0" of opening width (round up to nearest number).

C: For masonry openings up to 4'-0" wide provide (1) L4x3-1/2x1/4 for 4" masonry, (2) L4x3-1/2x1/4 for 8" C.M.U. & (2) L5x5x5/16 for 12" C.M.U. Provide 4" length of bearing each end on min. & grout solid min. 8" below.

D: For masonry openings up to 7'-4" wide provide (1) L6x3-1/2x3/8 for 4" masonry, (2) L6x3-1/2x3/8 for 8" C.M.U. & (2) L5x5x3/8 for 12" C.M.U. Provide 4" length of bearing each end on min. & grout solid min. 24" below.

## STEEL BEARING:

A: All steel beams bearing on masonry other than loose angles shall have 8" of bearing past edge of masonry on ½" thk. bearing plate. Plate width to be 1-1/2" less than nominal width of C.M.U. Plate to be embedded w/(2) 3/4"x6" headed shear studs. Grout solid below brg. plate to foundation below. Provide min. (2) reinforced cells directly adjacent to brg. plate continous from foundation to top of masonry. Beam to be fastened to brg. plate w/(2) 3/4" threaded shear studs welded to plate through long slotted holes in bottom flange of lintel. Lintel shelf plates are to be stitch welded to beam w/1/4" x 2" fillet @ 12" c/c - both sides.

B: Where joists bear on masonry provide steel bearing plates w/(2) 1/2"x6" headed shear stud anchors embedded btwn. horz. steel in cont. bond beam. For "K" series use 4"x6"x3/8" plates & for "LH" series use 6"x9"x3/8". Plate edge to be located within ½" of face of wall. Weld joists to bearing plates as follows, K-Series min. (2) 1/8"x1" long fillet welds. LH-Series min. (2) 1/4"x2" long fillet welds.

C: Where joist girders bear on masonry provide steel bearing plates w/(2) 3/4"x6" headed shear studs embedded btwn. horz. steel in cont. bond beam. Use 6"x12"x3/4" plate. Plate edge to be located within 1/2" of face of wall. Weld girder to bearing plates w/min. (2) 1/4"x3" fillet welds. Provide min. (2) reinforced cells directly below girder brg. plate cont. to foundation.

## MASONRY GROUTING GUIDE:

Slump 8" - 11" Compressive strength: 2000 psi min.

## Preparations for grouting:

Cleanouts Size: Cleanouts Spacing:

Required if pour height exceeds 5'-0". 3" x 3". In bottom course at each vertical bar

after water loss and settlement.

Grout Consolidation:

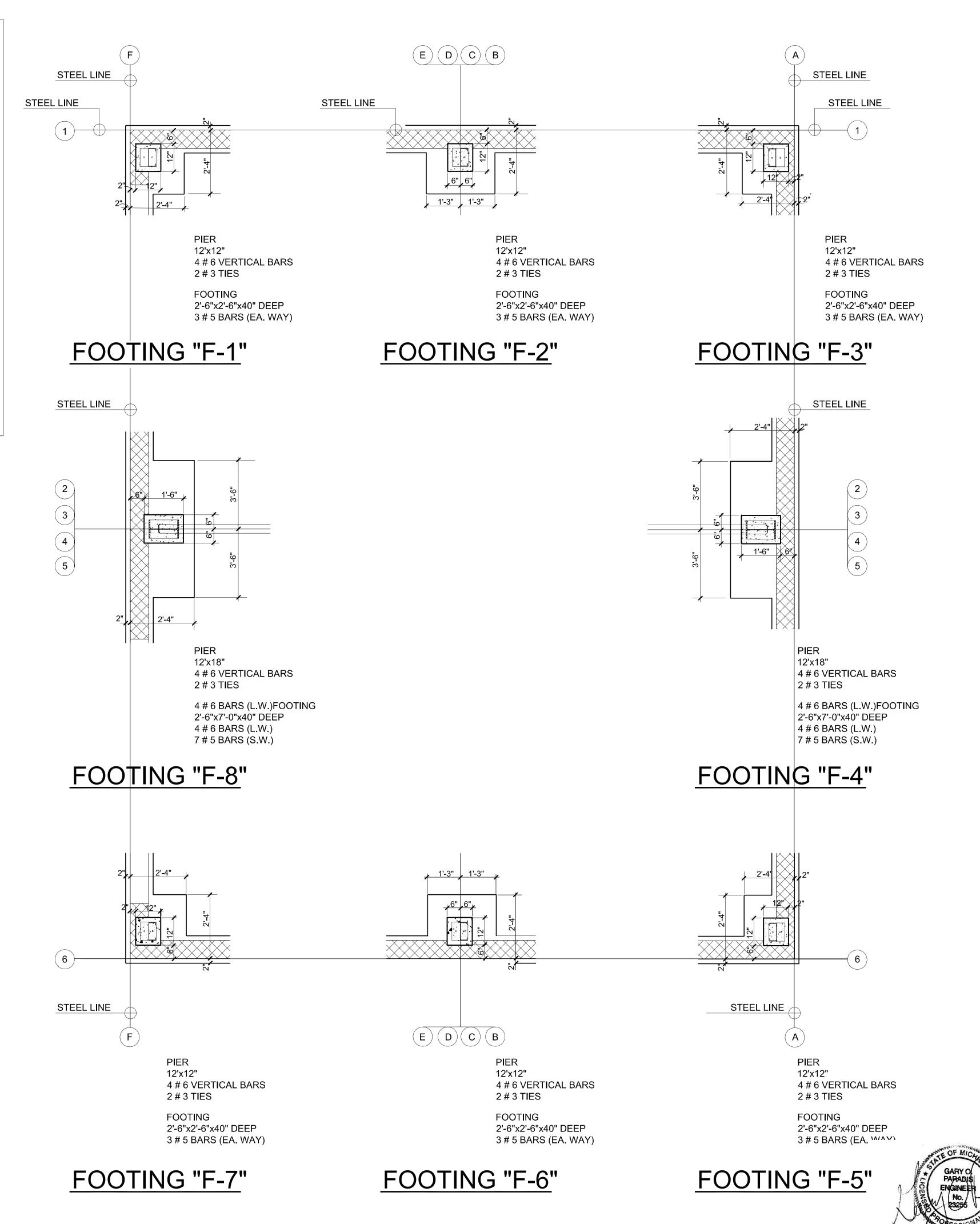
Pour height 12" or less: Pour height greater than 12": or 32" c/c max. if wall grouted solid. Mechanical vibration or puddling. Mechanical vibration and reconsolidate

#### **CONCRETE NOTES:**

Contractor & all sub-trades are responsible for reviewing & complying with all applicable specifications contained herein. Where discrepancies occur between design drawings and these notes, design drawing specifications are to supersede.

- A: Measuring, mixing and placing of concrete shall be in accordance with ACI 304.
- B: Protection and curing of concrete shall be in accordance with ACI 305, 306 and 308.
- C: All pertinent sections of ACI 318 shall apply.
- D: Reinforcing steel shall be fabricated and placed in accordance with the ACI 315.
- E: All reinforcing steel shall be ASTM A615 Grade 60, deformed in accordance with ASTM 305, unless otherwise noted.
- F: Step all footings at a ratio of (2) horizontal to (1) vertical.
- G: All footings to rest on undisturbed soil.
- H: U.N.O. In concrete piers provide (8) #7 vert. bars [(3) each face] w/#4 ties @ 12" c/c max. Ties to be 2" from top & bott. of pier.
- I: All columns & baseplates are to be fully encased in concrete from fin. floor to top of footing. Provide isolation joint encompassing entirity of base plate btwn. column pour &

CONCRETE MIX GUIDE			
CLASS OF CONCRETE	MIN. 28 28 DAY STRENGTH (PSI)	MAX. W/C RATIO LBS. HOH/LB. CEMENT	AIR CONT. %
STANDARD EXPOSED CONCRETE	4500	0.45	6 5-1/2
STANDARD FLOOR CONCRETE	4000	0.45	3-1/2 4-1/2
STANDARD FOUNDATION CONCRETE	3000	0.55	2
STANDARD UNEXPOSED & FORMED	4000	0.45	1 2



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PLAN

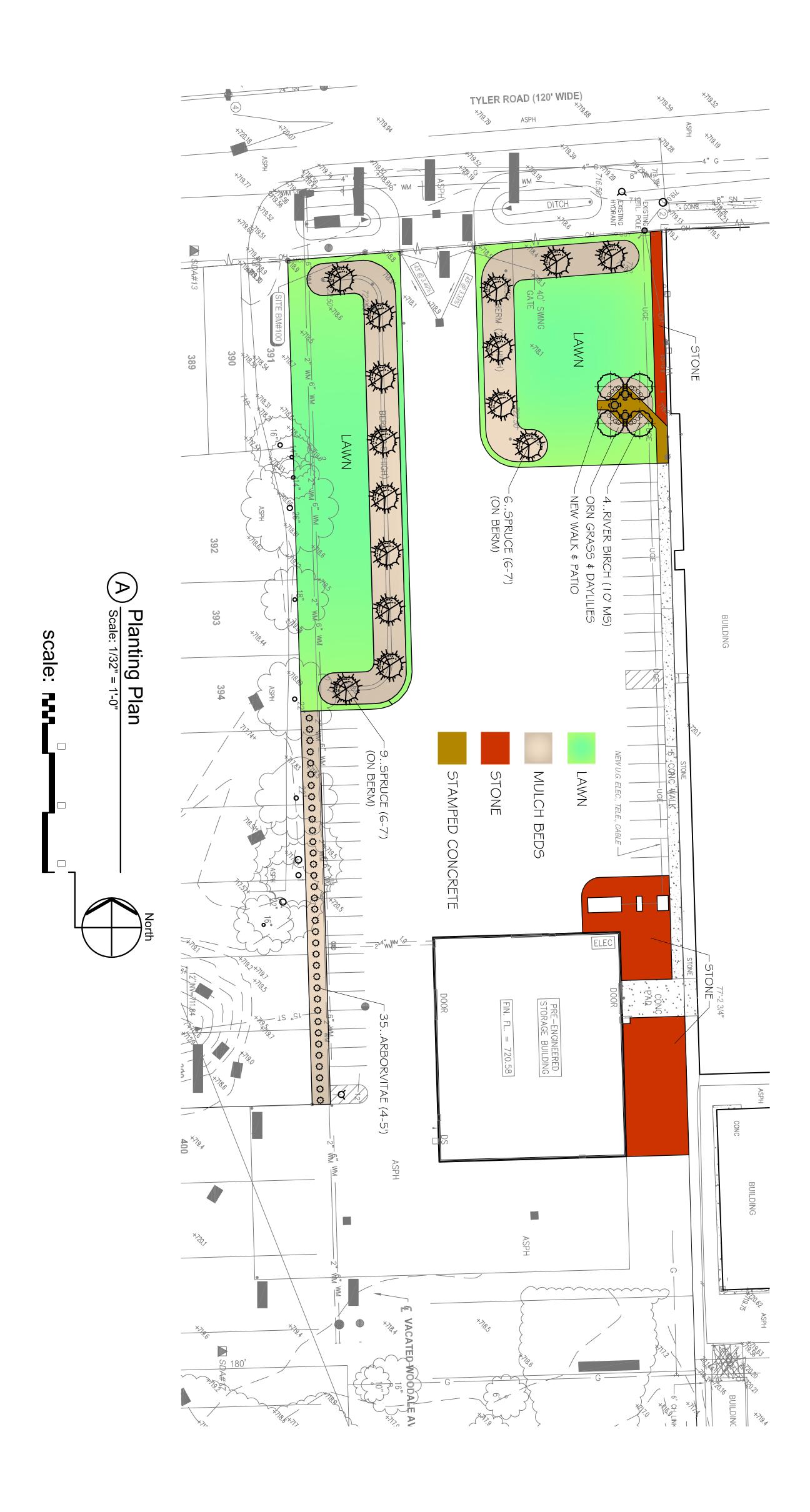
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JOB NO.

SHEET NO.







# Reliable Landscaping, Inc.

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	No.	Description	Date

