



# COHOCTAH TOWNSHIP BOARD MEETING

November 14, 2024 at 7:00 PM

Township Hall | Fowlerville, Michigan

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*The Township will provide necessary reasonable auxiliary aids and services to individuals with disabilities at the meeting upon 72 hour advance notice by contacting Barb Fear, Township Clerk, by email: [bfearclerk@gmail.com](mailto:bfearclerk@gmail.com), phone: (517) 546-0655, or mail: 10518 N Antcliff Rd Fowlerville MI 48836.*

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## AGENDA

### CALL TO ORDER

### AGENDA APPROVAL

### CONSENT AGENDA

- [1.](#) Minutes 10-10-2024
- [2.](#) Minutes 10-15-2024 Special Meeting
- [3.](#) Treasurer's Report
- [4.](#) Expenditures

### CALL TO THE PUBLIC

### UNFINISHED BUSINESS

5. House Update

#### Road Commission

#### Howell Fire Authority

#### Hall

#### Cemetery

#### Parks and Recreation

### NEW BUSINESS

- [6.](#) Renew Oakland County IT Services Agreement
- [7.](#) Withdraw from Fowlerville Recreation Agreement
- [8.](#) Adopt Ordinance to Amend the Zoning Ordinance Regarding a Renewable Energy Overlay District
9. Election Report
- [10.](#) Howell Schools Summer Tax Collection Agreement
- [11.](#) EMS Review of Site Plan

### REPORTS

#### Zoning Board of Appeals

#### Planning Commission

#### Violations and Complaints

### CALL TO THE PUBLIC

**NEXT REGULAR MEETING DATE - DECEMBER 12, 2024**

**ADJOURN**



# COHOCTAH TOWNSHIP BOARD MEETING

October 10, 2024 at 7:00 PM

Township Hall | Fowlerville, Michigan

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## MINUTES

### CALL TO ORDER

The meeting was called to order at 7:01pm with the Pledge of Allegiance.

PRESENT: Barb Fear, Phil Charette, Mark Fosdick, Tami Bock, Mark Torigian

### AGENDA APPROVAL

Motion made by Fear, Seconded by Charette to approve the agenda with the addition of New Business 6. PA233.  
Voting Yea: Fear, Charette, Fosdick, Bock, Torigian, motion carried.

### CONSENT AGENDA

1. Minutes 09-12-2024
2. Treasurer's Report
3. Expenditures

Motion made by Charette, Seconded by Torigian to approve the Consent Agenda as presented. Voting Yea: Fear, Charette, Fosdick, Bock, Torigian, motion carried.

### CALL TO THE PUBLIC

Public comment received.

### UNFINISHED BUSINESS

#### Road Commission

Verbal report given.

#### Howell Fire Authority

Verbal report given.

#### Hall

Verbal report given.

#### Cemetery

Verbal report given.

#### Parks and Recreation

Motion made by Charette, Seconded by Torigian to approve paying 1/5 of the attorney fees to create a new contract between the participating Townships and the Fowlerville Recreation Authority. Voting Yea: Fear, Charette, Fosdick, Bock, Torigian, motion carried.

#### **NEW BUSINESS**

4. House Inspection Report

The inspection report for the Township house was reviewed and no action was taken at this time.

5. Quarterly Budget Review

Motion made by Bock, Seconded by Torigian to move \$10,000 from Contingencies to Planning and Zoning to be allocated as follows: \$5,000 to ZA Wages and \$5,000 to Publishing. Voting Yea: Fear, Charette, Fosdick, Bock, Torigian, motion carried.

#### **REPORTS**

##### **Zoning Board of Appeals**

No report.

##### **Planning Commission**

Verbal report given.

##### **Violations and Complaints**

Verbal report given.

#### **CALL TO THE PUBLIC**

Public comment received.

#### **NEXT REGULAR MEETING DATE - NOVEMBER 14, 2024**

#### **ADJOURN**

There being no further business, the meeting was adjourned at 8:29pm.



**COHOCTAH TOWNSHIP BOARD MEETING-  
SPECIAL MEETING 10-15-2024  
October 15, 2024 at 5:00 PM  
Township Hall | Fowlerville, Michigan**

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## **MINUTES**

### **CALL TO ORDER**

The meeting was called to order at 5:12pm with the Pledge of Allegiance.

PRESENT: Barb Fear, Phil Charette, Mark Fosdick, Tami Bock, Mark Torigian

### **AGENDA APPROVAL**

Motion made by Torigian, Seconded by Charette to approve the agenda with the addition of New Business, 3. Barn Lease. Voting Yea: Fear, Charette, Fosdick, Bock, Torigian, motion carried.

### **NEW BUSINESS**

1. Michigan Public Service Commission Order dated 10-10-2024

Motion made by Fosdick, Seconded by Torigian to direct our legal counsel, Foster Swift, to pursue an appeal or other legal action, including any appellate issues, against the Michigan Public Service Commission Order dated October 10, 2024 in regard to PA 233 of 2023. Voting Yea: Fear, Charette, Fosdick, Bock, Torigian, motion carried.

A public comment that was received via email was entered into the record and is attached.

2. Bid for House Winterization

Motion made by Charette, Seconded by Torigian to approve the bid for the winterization of 10515 N Antcliff Rd. Voting Yea: Fear, Charette, Fosdick, Bock, Torigian, motion carried.

3. Barn Lease

Motion made by Charette, Seconded by Bock to approve the Barn Lease as presented. Voting Yea: Fear, Charette, Fosdick, Bock, Torigian, motion carried.

### **CALL TO THE PUBLIC**

Public comment received.

### **ADJOURN**

There being no further business, the meeting was adjourned at 5:32pm.

Public Comment:



**Cherie**

Mon, Oct 14, 1:37 PM (3 days ago)

to me

I can't attend the meeting, but strongly feel that our Township should be able to approve solar and wind farms, as well as "energy storage". So, YES--please appeal!

Thank you,

Cherie Philippi

<b>TAMI BOCK</b>			
<b>COHOCTAH TOWNSHIP TREASURER</b>			
<b>10518 ANTCLIFF ROAD</b>			
<b>FOWLerville MI 48836</b>			
<b>517-546-0655</b>			
			Oct 2024
RECEIPTS			
	LAND USE		\$ 100.00
	ELECTION REIMB		\$ 6,374.62
	INTEREST		\$ 6.91
	TRASH PICK UP		\$ 4,260.00
	BARN RENTAL		\$ 300.00
	OTHER REVUNUE		\$ 990.11
	BURIAL		\$ 1,238.80
	CEM SITES		\$ 800.00
	<b>RECEIPTS TOTAL</b>		<b>\$ 14,070.44</b>
	CASH ACCOUNT ENDING BALA		\$ 525,701.99
	THE STATE BANK		\$ 384,996.81
	FLAGSTAR CD		\$ 115,481.00
	PNC BANK		\$ 117,060.00
	GENERAL FUND BALANCE		\$ 1,143,239.80
	TRUST AND AGENCY BALANCE		\$ 7,050.00
	CAPITAL IMPROVEMENT FUNCI		\$ 223,887.00
	ROAD FUND ENDING BALANCI		\$ 20,042.58
	ARPA FUND		\$ 75,749.69

<b>EXPENDITURES - NOVEMBER 2024</b>			
DECKER AGENCY		\$	10,042.00
CARLISLE/WORTMAN		\$	6,300.00
SURF INTERNET		\$	99.64
GRANGER		\$	34,143.42
FOSTER SWIFT		\$	2,003.00
CONSUMERS ENERGY		\$	494.59
BEACHAMP WATER		\$	44.95
LIVINGSTON COUNTY TREASURER		\$	731.60
CHASE BANK		\$	1,560.19
SPRUNGTOWN OUTDOOR SERV		\$	3,285.00
MCALLISTERS EXCAVATING		\$	850.00
LIVINGSTON CTY PRESS		\$	215.64
ACCIDENT FUND		\$	1,285.00
THE CARPET GUYS		\$	140.00
HI TECH SAFE AND LOCK		\$	1,182.60
IVSCOMM INC		\$	125.00
LIVINGSTON CTY SHERIFF		\$	2,240.00
CIVICPLUS		\$	390.78
PRINTING SYSTEMS		\$	199.13
SPECTRUM PRINTERS		\$	331.68
K THURNER		\$	73.00
L DAVENPORT		\$	6.70
S BRONSBURG		\$	73.03
B FEAR		\$	161.32
T BOCK		\$	35.28
A KOZAK		\$	85.76
<b>SUB TOTAL</b>		<b>\$</b>	<b>66,099.31</b>
T BOCK		\$	2,061.61
A KOZAK		\$	232.71
A HODGE		\$	110.99
S BRONSBURG		\$	1,177.59
K THURNER			\$ 169.70
C DAMON		\$	305.58
C BEACH		\$	298.28
J BUTTERMORE		\$	203.51
D BULBUK		\$	239.64
C GARBER		\$	2,398.33
K JOHNSON		\$	601.50
J KELLY		\$	389.40
C MAXFIELD		\$	322.01
J SHONER		\$	164.75
C WOLVERTON		\$	580.35
M FOSDICK		\$	1,678.50
J BLACK		\$	132.15
L DAVENPORT		\$	323.23
B FEAR		\$	2,192.31
T LITZ		\$	1,113.15
MERS		\$	1,728.27
W/H		\$	4,391.01
BENEPAY		\$	55.08
<b>SUB TOTAL</b>		<b>\$</b>	<b>20,699.95</b>
<b>TOTAL GENERAL FND</b>		<b>\$</b>	<b>86,799.26</b>
LIVINGSTON COUNTY ROAD COMM		\$	118,109.81
<b>ROAD FUND</b>		<b>\$</b>	<b>118,109.81</b>
<b>TOTAL EXPENDITURES</b>		<b>\$</b>	<b>204,909.07</b>



**AGREEMENT FOR I.T. SERVICES BETWEEN  
OAKLAND COUNTY AND  
COHOCTAH TOWNSHIP**

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This Agreement (the "Agreement") is made between Oakland County, a Municipal and Constitutional Corporation, 1200 North Telegraph Road, Pontiac, Michigan 48341 ("County"), and **Cohoctah Township** ("Public Body") **10518 Antcliff Rd., Fowlerville, MI 48836**. County and Public Body may also be referred to jointly as "Parties".

**PURPOSE OF AGREEMENT.** County and Public Body enter into this Agreement for the purpose of providing Information Technology Services ("I.T. Services") for Public Body pursuant to Michigan law.

In consideration of the mutual promises, obligations, representations, and assurances in this Agreement, the Parties agree to the following:

1. **DEFINITIONS.** The following words and expressions used throughout this Agreement, whether used in the singular or plural, shall be defined, read, and interpreted as follows.
  - 1.1. **Agreement** means the terms and conditions of this Agreement and any other mutually agreed to written and executed modification, amendment, Exhibit and attachment.
  - 1.2. **Claims** mean any alleged losses, claims, complaints, demands for relief or damages, lawsuits, causes of action, proceedings, judgments, deficiencies, liabilities, penalties, litigation, costs, and expenses, including, but not limited to, reimbursement for reasonable attorney fees, witness fees, court costs, investigation expenses, litigation expenses, amounts paid in settlement, and/or other amounts or liabilities of any kind which are incurred by or asserted against County or Public Body, or for which County or Public Body may become legally and/or contractually obligated to pay or defend against, whether direct, indirect or consequential, whether based upon any alleged violation of the federal or the state constitution, any federal or state statute, rule, regulation, or any alleged violation of federal or state common law, whether any such claims are brought in law or equity, tort, contract, or otherwise, and/or whether commenced or threatened.
  - 1.3. **Confidential Information** means all information and data that the County is required or permitted by law to keep confidential including records of County' security measures, including security plans, security codes and combinations, passwords, keys, and security procedures, to the extent that the records relate to ongoing security of the County as well as records or information to protect the security or safety of persons or property, whether public or private, including, but not limited to, building, public works, and public water supply designs relating to ongoing security measures, capabilities and plans for responding to a violation of the Michigan anti-terrorisms act, emergency response plans, risk planning documents, threat assessments and domestic preparedness strategies.
  - 1.4. **County** means Oakland County, a Municipal and Constitutional Corporation, including, but not limited to, all of its departments, divisions, the County Board of Commissioners, elected and appointed officials, directors, board members, council members, commissioners, authorities, committees, employees, agents, volunteers, and/or any such persons' successors.

- 1.5. **Day** means any calendar day beginning at 12:00 a.m. and ending at 11:59 p.m.
- 1.6. **Public Body** means the **Cohoctah Township** which is an entity created by state or local authority or which is primarily funded by or through state or local authority, including, but not limited to, its council, its Board, its departments, its divisions, elected and appointed officials, directors, board members, council members, commissioners, authorities, committees, employees, agents, subcontractors, attorneys, volunteers, and/or any such persons' successors. For purposes of this Agreement, Public Body includes any Michigan court, when acting in concert with its funding unit, to obtain I.T. Services.
- 1.7. **Public Body Employee** means any employees, officers, directors, members, managers, trustees, volunteers, attorneys, and representatives of Public Body, licensees, concessionaires, contractors, subcontractors, independent contractors, agents, and/or any such persons' successors or predecessors (whether such persons act or acted in their personal, representative or official capacities), and/or any persons acting by, through, under, or in concert with any of the above who have access to the I.T. Services provided under this Agreement. "Public Body Employee" shall also include any person who was a Public Body Employee at any time during the term of this Agreement but, for any reason, is no longer employed, appointed, or elected in that capacity.
- 1.8. **Points of Contact** mean the individuals designated by Public Body and identified to County to act as primary and secondary contacts for communication and other purposes as described herein.
- 1.9. **I.T. Services** means the following individual I.T. Services provided by County's Department of Information Technology, if applicable:
  - 1.9.1. **Online Payments** mean the ability to accept payment of monies owed to Public Body initiated via a website maintained by County using a credit card, a debit card that functions as a credit card, or electronic debit of a checking account.
  - 1.9.2. **Over The Counter Payments** means the ability to accept payment of monies owed to Public Body initiated via a credit card reader attached to an on-premise computer with access to a website maintained by County using a credit card or a debit card that functions as a credit card.
  - 1.9.3. **Pay Local Taxes** means the ability to accept payment of local property taxes owed to Public Body initiated via a website maintained by County using a credit card, a debit card that functions as a credit card, or an electronic debit of a checking account. (Does not apply to Public Bodies outside of Oakland County).
  - 1.9.4. **Jury Management System** means a subscription based software that facilitates the selection and communication with potential and selected individuals who may serve as jurors.
  - 1.9.5. **Collaborative Asset Management System ("CAMS")** means providing for the collaborative use of information related to public assets, such as water, sanitary sewer, and/or storm sewer infrastructure, that is managed by various governmental entities participating in the CAMS within the County of Oakland in order to promote the effective maintenance and care of these assets.
  - 1.9.6. **Reserved**

- 1.9.7. **Data Center Use & Services** means providing space for Public Body's equipment in County's Data Center and access to electrical power and backup power.
- 1.9.8. **Oaknet Connectivity** means use of communication lines and network equipment maintained by County for the transmission of digital information whether leased or owned by County.
- 1.9.9. **Internet Service** means access to the Internet from Public Body's work stations. Access from the Internet to Public Body's applications, whether at County or at Public Body (hosting), is not included.
- 1.9.10. **CLEMIS** means the Court and Law Enforcement Management Information System, an information management system comprised of specific software applications (CLEMIS Applications) operated and maintained by the CLEMIS Division of County.
- 1.9.11. **ArcGIS Online** means the ability to access a web based, collaborative Geographic Information System (GIS) that allows users having an ArcGIS Online (AGO) Named User account to create and share maps, applications (apps), layers, analytics, and data in Environmental Systems Research Institute, Inc.'s ("ESRI") secure cloud.
- 1.9.12. **Data Sharing** means the ability for the Public Body to utilize Access Oakland Products and data owned and maintained by the County on or in relation to its Geographic Information System (GIS).
- 1.9.13. **Pictometry Licensed Products** means the ability to use a Geographic Information System (GIS) solution that allows authorized users to access Pictometry-hosted high-resolution, orthogonal and oblique imagery.
- 1.9.14. **Reserved**
- 1.10. **Service Center** means the location of technical support and information provided by County's Department of Information Technology.
- 1.11. **Exhibits** mean the following descriptions of I.T. Services which are governed by this Agreement only if they are attached to this Agreement and selected below or added at a later date by a formal amendment to this Agreement:
- Exhibit I: Online Payments
  - Exhibit II: Over The Counter Payments
  - Exhibit III: Pay Local Taxes
  - Exhibit IV: Jury Management System
  - Exhibit V: Collaborative Asset Management System (CAMS)
  - Exhibit VI: Reserved
  - Exhibit VII: Data Center Use and Services
  - Exhibit VIII: Oaknet Connectivity
  - Exhibit IX: Internet Service
  - Exhibit X: CLEMIS
  - Exhibit XI: ArcGIS Online

Exhibit XII: Data Sharing

Exhibit XIII: Pictometry Licensed Products

Exhibit XIV: Reserved

2. **COUNTY RESPONSIBILITIES.**

- 2.1. County, through its Department of Information Technology, shall provide the I.T. Services selected above which are attached and incorporated into this Agreement.
- 2.2. County shall support the I.T. Services as follows:
  - 2.2.1. **Access.** County will provide secure access to I.T. Services for use on hardware provided by Public Body as part of its own computer system or as otherwise provided in an Exhibit to this Agreement.
  - 2.2.2. **Maintenance and Availability.** County will provide maintenance to its computer system to ensure that the I.T. Services are functional, operational, and work for intended purposes. Such maintenance to County's system will include "bug" fixes, patches, and upgrades, such as software, hardware, database and network upgrades. The impact of patches and/or upgrades to the applications will be thoroughly evaluated by County and communicated to Public Body through their Points of Contact prior to implementation in Public Body's production environment. County will reserve scheduled maintenance windows to perform these work activities. These maintenance windows will be outlined specifically for each application in the attached Exhibits.
    - 2.2.2.1. If changes to scheduled maintenance windows or if additional maintenance times are required, County will give as much lead time as possible.
    - 2.2.2.2. During maintenance windows, access to the application may be restricted by County without specific prior notification.
- 2.3. County may deny access to I.T. Services so that critical unscheduled maintenance (i.e. break-fixes) may be performed. County will make prompt and reasonable efforts to minimize unscheduled application downtime. County will notify the Points of Contact about such interruptions with as much lead time as possible.
- 2.4. **Backup and Disaster Recovery.**
  - 2.4.1. County will perform periodic backups of I.T. Services hosted on County's computer system. Copies of scheduled backups will be placed offsite for disaster recovery purposes.
  - 2.4.2. County will maintain a disaster recovery process that will be used to recover applications during a disaster or failure of County's computer system.
- 2.5. **Auditing.** County may conduct scheduled and unscheduled audits or scans to ensure the integrity of County's data and County's compliance with Federal, State and local laws and industry standards, including, but not limited to, the Health Insurance Portability and Accountability Act (HIPAA) and Payment Card Industry Data Security Standard (PCI DSS.)

2.5.1. In order to limit possibility of data theft and scope of audit requirements, County will not store credit card account numbers. County is only responsible for credit card data only during the time of transmission to payment processor.

2.6. **Training and Information Resources.** County may provide training on use of the I.T. Services on an as-needed basis or as set forth in an Exhibit to this Agreement.

2.7. **Service Center.** I.T. Service incidents requiring assistance must be reported to the Service Center, by the Points of Contact, to the phone number, e-mail or website provided below. The Service Center is staffed to provide support during County's normal business hours of 8:30 a.m. to 5:00 p.m., EST, Monday through Friday, excluding holidays. The Service Center can receive calls to report I.T. Service outages 24 hours a day, 7 days a week. Outages are defined as unexpected service downtime or error messages. Depending on severity, outage reports received outside of County's normal business hours may not be responded to until the resumption of County's normal business hours.

Service Center Phone Number	248-858-8812
Service Center Email Address	servicecenter@oakgov.com
Service Center Website	<a href="https://sc.oakgov.com">https://sc.oakgov.com</a>

2.8. County may access, use and disclose transaction information and any content to comply with the law such as a subpoena, Court Order or Freedom of Information Act request. County shall first refer all such requests for information to Public Body's Points of Contact for their response within the required time frame. County shall provide assistance for the response if requested by the Public Body's Points of Contact, and if able to access the requested information. County shall not distribute Public Body's data to other entities for reasons other than in response to legal process.

2.9. I.T. service providers require County to pass through to Public Body certain terms and conditions contained in license agreements, service agreements, acceptable use policies and similar terms of service, in order to provide I. T. Services to Public Body. The County will provide Public Body with access to these terms and conditions. County will provide notice when it becomes aware of changes to the terms and conditions of these agreements that are applicable to Public Body.

### 3. **PUBLIC BODY RESPONSIBILITIES.**

3.1. Public Body shall immediately notify County of any unauthorized use of the I.T. Services and any breach of security of the I.T. Services. Public Body shall cooperate with County in all investigations involving the potential misuse of County's computer system or data.

3.2. Public Body is the owner of all data provided by Public Body and is responsible to provide all initial data identified in the attached Exhibits, in a format acceptable to County, and, for the CLEMIS Exhibit, as required by applicable statute, regulation, or administrative rule. Public Body is responsible for ensuring the accuracy and currency of data contained within its applications.

3.3. Public Body shall follow County's I.T. Services requirements as described on County's website. Public Body shall comply with County's minimum standards for each Internet browser used by Public Body to access I.T. Services as set forth in an Exhibit(s) to this Agreement. Public Body shall meet any changes to these minimum standards that County may reasonably update from time to time.

- 3.4. Public Body shall not interfere with or disrupt the I.T. Services provided herein or networks connected with the I.T. Services.
- 3.5. Public Body requires that each Public Body Employee with access to I.T. Services shall:
  - 3.5.1. Utilize an antivirus software package/system on their equipment and keep same updated in a reasonable manner.
  - 3.5.2. Have a unique User ID and password that will be removed upon termination of Public Body Employee's employment or association with Public Body.
  - 3.5.3. Maintain the most reasonably current operating system patches on all equipment accessing the I.T. Services.
- 3.6. If authorized by County, Public Body may extend I.T. Services to other entities which are created by or primarily funded by state or local authority. If County authorizes Public Body to provide access to any I.T. Services to other entities, Public Body shall require those entities to agree to utilize an antivirus software package/system on computers accessing the I.T. Services and to assign users of the I.T. Services a unique User ID and password that will be terminated when a user is no longer associated with the entity. Public Body must require an entity receiving I.T. Services under this Section, to agree in writing to comply with the terms and conditions of this Agreement and to provide County with a copy of this writing.
- 3.7. For each I.T. Service covered by an Exhibit to this Agreement, Public Body shall designate two representatives to act as a primary and secondary Points of Contact with County. The Points of Contact responsibilities shall include:
  - 3.7.1. Direct coordination and interaction with County staff.
  - 3.7.2. Communication with general public supported by Public Body.
  - 3.7.3. Following County's procedures to report an application incident.
  - 3.7.4. If required by County, attend training classes provided by County either online or at County's Information Technology Building in Waterford, Michigan or other suitable location determined by County.
  - 3.7.5. Providing initial support services to Public Body users prior to logging a Service Center incident with County.
  - 3.7.6. Requesting security changes and technical support from the Service Center.
  - 3.7.7. Testing Applications in conjunction with County, at the times and locations mutually agreed upon by County and Public Body.
  - 3.7.8. To report a service incident to the Service Center, one of Public Body's Points of Contact shall provide the following information:
    - 3.7.8.1. Contact Name
    - 3.7.8.2. Telephone Number
    - 3.7.8.3. Email Address
    - 3.7.8.4. Public Body Name
    - 3.7.8.5. Application and, if possible, the specific module with which the incident is associated.

- 3.7.8.6. Exact nature of the problem or function including any error message that appeared on the computer screen.
- 3.7.8.7. Any action the Points of Contact or user has taken to resolve the matter.
- 3.8. Public Body may track the status of the incident by calling the Service Center and providing the Incident Number.
- 3.9. Public Body shall respond to Freedom of Information Act Requests relating to Public Body's data.
- 3.10. I.T. service providers require County to pass through to Public Body certain terms and conditions contained in license agreements, service agreements, acceptable use policies and similar terms of service, in order to provide I. T. Services to Public Body. Public Body agrees to comply with these terms and conditions. Public Body may follow the termination provisions of this Agreement if it determines that it cannot comply with any of the terms and conditions.

4. **DURATION OF INTERLOCAL AGREEMENT.**

- 4.1. This Agreement and any amendments shall be effective when executed by both Parties with resolutions passed by the governing bodies of each Party except as otherwise specified below. The approval and terms of this Agreement and any amendments, except as specified below, shall be entered in the official minutes of the governing bodies of each Party. An executed copy of this Agreement and any amendments shall be filed by the County Clerk with the Secretary of State. If Public Body is a Court, a signature from the Chief Judge of the Court shall evidence approval by the Public Body, providing a resolution and minutes does not apply. If the Public Body is the State of Michigan, approval and signature shall be as provided by law.
- 4.2. Notwithstanding Section 4.1, the Chairperson of the Oakland County Board of Commissioners is authorized to sign amendments to the Agreements to add Exhibits that were previously approved by the Board of Commissioners but are requested by Public Body after the execution of the Agreement. An amendment signed by the Board Chairperson under this Section must be sent to the Election Division in the County Clerk's Office to be filed with the Agreement once it is signed by both Parties.
- 4.3. Unless extended by an Amendment, this Agreement shall remain in effect for five (5) years from the date the Agreement is completely executed by all Parties or until cancelled or terminated by any of the Parties pursuant to the terms of the Agreement.

5. **PAYMENTS.**

- 5.1. I.T. Services shall be provided to Public Body at the rates specified in the Exhibits, if applicable.
- 5.2. **Possible Additional Services and Costs.** If County is legally obligated for any reason, e.g. subpoena, Court Order, or Freedom of Information Request, to search for, identify, produce or testify regarding Public Body's data or information that is electronically stored by County relating to I.T. Services the Public Body receives under this Agreement, then Public Body shall reimburse County for all reasonable costs the County incurs in searching for, identifying, producing or testifying regarding such data or information. County may waive this requirement in its sole discretion.
- 5.3. County shall provide Public Body with a detailed invoice/explanation of County's costs for I.T. Services provided herein and/or a statement describing any amounts owed to County.

Public Body shall pay the full amount shown on any such invoice within sixty (60) calendar days after the date shown on any such invoice. Payment shall be sent along with a copy of the invoice to: Oakland County Treasurer – Cash Acctg, Bldg 12 E, 1200 N. Telegraph Road, Pontiac, MI 48341.

- 5.4. If Public Body, for any reason, fails to pay County any monies when and as due under this Agreement, Public Body agrees that unless expressly prohibited by law, County or the Oakland County Treasurer, at their sole option, shall be entitled to set off from any other Public Body funds that are in County's possession for any reason, including but not limited to, the Oakland County Delinquent Tax Revolving Fund ("DTRF"), if applicable. Any setoff or retention of funds by County shall be deemed a voluntary assignment of the amount by Public Body to County. Public Body waives any Claims against County or its Officials for any acts related specifically to County's offsetting or retaining of such amounts. This paragraph shall not limit Public Body's legal right to dispute whether the underlying amount retained by County was actually due and owing under this Agreement.
- 5.5. If County chooses not to exercise its right to setoff or if any setoff is insufficient to fully pay County any amounts due and owing County under this Agreement, County shall have the right to charge up to the then-maximum legal interest on any unpaid amount. Interest charges shall be in addition to any other amounts due to County under this Agreement. Interest charges shall be calculated using the daily unpaid balance method and accumulate until all outstanding amounts and accumulated interest are fully paid.
- 5.6. Nothing in this Section shall operate to limit County's right to pursue or exercise any other legal rights or remedies under this Agreement or at law against Public Body to secure payment of amounts due County under this Agreement. The remedies in this Section shall be available to County on an ongoing and successive basis if Public Body at any time becomes delinquent in its payment. Notwithstanding any other term and condition in this Agreement, if County pursues any legal action in any court to secure its payment under this Agreement, Public Body agrees to pay all costs and expenses, including attorney fees and court costs, incurred by County in the collection of any amount owed by Public Body.

## 6. **ASSURANCES.**

- 6.1. Each Party shall be responsible for any Claims made against that Party by a third party, and for the acts of its employees arising under or related to this Agreement.
- 6.2. Except as provided for in Section 5.6, in any Claim that may arise from the performance of this Agreement, each Party shall seek its own legal representation and bear the costs associated with such representation, including judgments and attorney fees.
- 6.3. Except as otherwise provided for in this Agreement, neither Party shall have any right under this Agreement or under any other legal principle to be indemnified or reimbursed by the other Party or any of its agents in connection with any Claim.
- 6.4. Public Body shall be solely responsible for all costs, fines and fees associated with any misuse by its Public Body Employees of the I.T. Services provided herein.
- 6.5. This Agreement does not, and is not intended to, impair, divest, delegate or contravene any constitutional, statutory, and/or other legal right, privilege, power, obligation, duty, or immunity of the Parties. Nothing in this Agreement shall be construed as a waiver of governmental immunity for either Party.
- 6.6. The Parties have taken all actions and secured all approvals necessary to authorize and complete this Agreement. The persons signing this Agreement on behalf of each Party



have legal authority to sign this Agreement and bind the Parties to the terms and conditions contained herein.

- 6.7. Each Party shall comply with all federal, state, and local ordinances, regulations, administrative rules, and requirements applicable to its activities performed under this Agreement.

## **7. USE OF CONFIDENTIAL INFORMATION**

- 7.1. The Parties shall not reproduce, provide, disclose, or give access to Confidential Information to the County or to a Public Body Employee not having a legitimate need to know the Confidential Information, or to any third-party. County and Public Body Employees shall only use the Confidential Information for performance of this Agreement. Notwithstanding the foregoing, the Parties may disclose the Confidential Information if required by law, statute, or other legal process provided that the Party required to disclose the information: (i) provides prompt written notice of the impending disclosure to the other Party, (ii) provides reasonable assistance in opposing or limiting the disclosure, and (iii) makes only such disclosure as is compelled or required. This Agreement imposes no obligation upon the Parties with respect to any Confidential Information which can establish by legally sufficient evidence: (i) was in possession of or was known by prior to its receipt from the other Party, without any obligation to maintain its confidentiality; or (ii) was obtained from a third party having the right to disclose it, without an obligation to keep such information confidential.
- 7.2. Within five (5) business days' receipt of a written request from the other Party, or upon termination of this Agreement, the receiving Party shall return or destroy all of the disclosing Party's Confidential Information.

## **8. DISCLAIMER OR WARRANTIES.**

- 8.1. The I.T. Services are provided on an "as is" and "as available" basis. County expressly disclaims all warranties of any kind, whether express or implied, including, but not limited to, the implied warranties of merchantability, fitness for a particular purpose and non-infringement.
- 8.2. County makes no warranty that (i) the I.T. Services will meet Public Body's requirements; (ii) the I.T. Services will be uninterrupted, timely, secure or error-free; nor (iii) the results that may be obtained by the I.T. Services will be accurate or reliable.
- 8.3. Any material or data downloaded or otherwise obtained through the use of the I.T. Services is accessed at Public Body's discretion and risk. Public Body will be solely responsible for any damage to its computer system or loss of data that results from downloading of any material.

9. **LIMITATION OF LIABILITY.** In no event shall either Party be liable to the other Party or any other person, for any consequential, incidental, direct, indirect, special, and punitive or other damages arising out of this Agreement.

10. **DISPUTE RESOLUTION.** All disputes relating to the execution, interpretation, performance, or nonperformance of this Agreement involving or affecting the Parties may first be submitted to County's Director of Information Technology and Public Body's Agreement Administrator for possible resolution. County's Director of Information Technology and Public Body's Agreement Administrator may promptly meet and confer in an effort to resolve such dispute. If they cannot resolve the dispute in five (5) business days, the dispute may be submitted to the signatories of this

Agreement or their successors in office. The signatories of this Agreement may meet promptly and confer in an effort to resolve such dispute.

11. **TERMINATION OR CANCELLATION OF AGREEMENT.**

11.1. Either Party may terminate or cancel this entire Agreement or any one of the I.T. Services described in the attached Exhibits, upon one hundred twenty (120) days written notice, if either Party decided, in its sole discretion, to terminate this Agreement or one of the Exhibits, for any reason including convenience.

11.2. Early termination fees may apply to Public Body if provided for in the Exhibits.

11.3. The effective date of termination and/or cancellation shall be clearly stated in the written notice. Either the County Executive or the Board of Commissioners is authorized to terminate this Agreement for County under this provision. A termination of one or more of the Exhibits which does not constitute a termination of the entire Agreement may be accepted on behalf of County by its Chief Information Officer.

12. **SUSPENSION OF SERVICES.** County, through its Chief Information Officer, may immediately suspend I.T. Services for any of the following reasons: (i) requests by law enforcement or other governmental agencies; (ii) engagement by Public Body in fraudulent or illegal activities relating to the I.T. Services provided herein; (iii) breach of the terms and conditions of this Agreement; or (iv) unexpected technical or security issues. The right to suspend I.T. Services is in addition to the right to terminate or cancel this Agreement according to the provisions in Section 11. County shall not incur any penalty, expense or liability if I.T. Services are suspended under this Section.

13. **DELEGATION OR ASSIGNMENT.** Neither Party shall delegate or assign any obligations or rights under this Agreement without the prior written consent of the other Party.

14. **NO EMPLOYEE-EMPLOYER RELATIONSHIP.** Nothing in this Agreement shall be construed as creating an employee-employer relationship between County and Public Body.

15. **NO THIRD-PARTY BENEFICIARIES.** Except as provided for the benefit of the Parties, this Agreement does not and is not intended to create any obligation, duty, promise, contractual right or benefit, right to indemnification, right to subrogation, and/or any other right in favor of any other person or entity.

16. **NO IMPLIED WAIVER.** Absent a written waiver, no act, failure, or delay by a Party to pursue or enforce any rights or remedies under this Agreement shall constitute a waiver of those rights with regard to any existing or subsequent breach of this Agreement. No waiver of any term, condition, or provision of this Agreement, whether by conduct or otherwise, in one or more instances shall be deemed or construed as a continuing waiver of any term, condition, or provision of this Agreement. No waiver by either Party shall subsequently affect its right to require strict performance of this Agreement.

17. **SEVERABILITY.** If a court of competent jurisdiction finds a term or condition of this Agreement to be illegal or invalid, then the term or condition shall be deemed severed from this Agreement. All other terms, conditions, and provisions of this Agreement shall remain in full force.

18. **PRECEDENCE OF DOCUMENTS.** In the event of a conflict between the terms of and conditions of any of the documents that comprise this Agreement, the terms in the Agreement shall prevail and take precedence over any allegedly conflicting terms in the Exhibits or other documents that comprise this Agreement.

19. **CAPTIONS.** The section and subsection numbers, captions, and any index to such sections and subsections contained in this Agreement are intended for the convenience of the reader and are not intended to have any substantive meaning. The numbers, captions, and indexes shall not be interpreted or be considered as part of this Agreement. Any use of the singular or plural, any reference to gender, and any use of the nominative, objective or possessive case in this Agreement shall be deemed the appropriate plurality, gender or possession as the context requires.
20. **FORCE MAJEURE.** Notwithstanding any other term or provision of this Agreement, neither Party shall be liable to the other for any failure of performance hereunder if such failure is due to any cause beyond the reasonable control of that Party and that Party cannot reasonably accommodate or mitigate the effects of any such cause. Such cause shall include, without limitation, acts of God, fire, explosion, vandalism, national emergencies, insurrections, riots, wars, strikes, lockouts, work stoppages, other labor difficulties, or any law, order, regulation, direction, action, or request of the United States government or of any other government. Reasonable notice shall be given to the affected Party of any such event.
21. **NOTICES.** Notices given under this Agreement shall be in writing and shall be personally delivered, sent by express delivery service, certified mail, or first class U.S. mail postage prepaid, and addressed to the person listed below. Notice will be deemed given on the date when one of the following first occur: (i) the date of actual receipt; (ii) the next business day when notice is sent express delivery service or personal delivery; or (iii) three days after mailing first class or certified U.S. mail.
- 21.1. If Notice is sent to County, it shall be addressed and sent to: Chief Information Officer, Oakland County Department of Information Technology, 1200 North Telegraph Road, Pontiac, Michigan, 48341, and the Chairperson of the Oakland County Board of Commissioners, 1200 North Telegraph Road, Pontiac, Michigan 48341.
- 21.2. If Notice is sent to Public Body, it shall be addressed to: **Barb Fear, bfearclerk@gmail.com ; Tami Bock tbtreasurer@gmail.com, 10518 Antcliff Rd., Fowlerville, MI 48836.**
- 21.3. Either Party may change the individual to whom Notice is sent and/or the mailing address by notifying the other Party in writing of the change.
22. **GOVERNING LAW/CONSENT TO JURISDICTION AND VENUE.** This Agreement shall be governed, interpreted, and enforced by the laws of the State of Michigan. Except as otherwise required by law or court rule, any action brought to enforce, interpret, or decide any Claim arising under or related to this Agreement shall be brought in the 6th Judicial Circuit Court of the State of Michigan, the 50th District Court of the State of Michigan, or the United States District Court for the Eastern District of Michigan, Southern Division, as dictated by the applicable jurisdiction of the court. Except as otherwise required by law or court rule, venue is proper in the courts set forth above.
23. **ENTIRE AGREEMENT.**
- 23.1. This Agreement represents the entire agreement and understanding between the Parties regarding the specific Services described in the attached Exhibits. With regard to those Services, this Agreement supersedes all other oral or written agreements between the Parties.
- 23.2. The language of this Agreement shall be construed as a whole according to its fair meaning, and not construed strictly for or against any Party.

IN WITNESS WHEREOF, **Barb Fear** hereby acknowledges that he/she has been authorized by a resolution of the **Cohoctah Township**, a certified copy of which is attached, or by approval of the Chief Judge if the Public Body is a Court, to execute this Agreement on behalf of Public Body and hereby accepts and binds Public Body to the terms and conditions of this Agreement.

EXECUTED: \_\_\_\_\_

Barb Fear  
Clerk

DATE: \_\_\_\_\_

WITNESSED: \_\_\_\_\_

DATE: \_\_\_\_\_

AGREEMENT

ADMINISTRATOR: \_\_\_\_\_  
(IF APPLICABLE)

DATE: \_\_\_\_\_

IN WITNESS WHEREOF, David T. Woodward, Chairperson, Oakland County Board of Commissioners, hereby acknowledges that he has been authorized by a resolution of the Oakland County Board of Commissioners to execute this Agreement on behalf of Oakland County, and hereby accepts and binds Oakland County to the terms and conditions of this Agreement.

EXECUTED: \_\_\_\_\_

David T. Woodward, Chairperson  
Oakland County Board of Commissioners

DATE: \_\_\_\_\_

WITNESSED: \_\_\_\_\_

Oakland County Board of Commissioners  
County of Oakland

DATE: \_\_\_\_\_

**EXHIBIT I**  
**I.T. SERVICES AGREEMENT**  
**ONLINE PAYMENTS**

**INTRODUCTION**

The I.T. Service described in this Exhibit (Online Payments) will provide government agencies with the ability to accept credit card and/or electronic check payments online.

**1.0 COUNTY RESPONSIBILITIES**

- 1.1 County will provide an I.T. Service where the general public can make payments for any type of fees or costs, i.e. pay property taxes, licenses, permits or traffic tickets by means of a credit card or electronic check, utilizing the Internet.
- 1.2 If requested by Public Body, County will provide a single public web page that will reside on County server(s) and include basic information with links to the I.T. Service for Online Payments. County will not provide content management. County will provide basic design template customization (header and colors) and minimal content (basic contact information). URLs will have a G2Gcloud.com domain name. County has sole discretion as to what may be placed on this one-page website.
- 1.3 County will provide Public Body with access to a password protected web site where Public Body can issue credits and view daily, weekly, and monthly transaction activity of payments processed through this I.T. Service.
- 1.4 The Enhanced Access Fee charged to the general public shall be an amount established by County Board of Commissioners (MISCELLANEOUS RESOLUTION #07121, County Board of Commissioner Minutes, May 24, 2007, p. 246) or as revised by County Board of Commissioners.

**2.0 PUBLIC BODY RESPONSIBILITIES**

- 2.1 Public Body will be responsible for placing the URL provided by County onto their website for this service.
- 2.2 Public Body will include the URL in printed or electronic communications to the general public regarding this service.
- 2.3 Public Body shall respond to all questions from the general public regarding payments. County shall refer questions regarding the amount of payment due or owing to Public Body.

**3.0 SUPPORT**

The I.T. Service will be supported by County's Information Technology (I.T.) Department as described in the Agreement.

**4.0 SERVICE ACCESS AND REQUIREMENTS**

- 4.1 Service Access
  - 4.1.1 Access to the I.T. Service is via an internet browser. The URL for the general public to initiate the Online Payments service will be provided by County.

**EXHIBIT I**  
**I.T. SERVICES AGREEMENT**  
**ONLINE PAYMENTS**

- 4.1.2 Public Body will provide access to this I.T. Service for the general public via the URL provided by County on the web site owned by Public Body.
- 4.1.3 The URL for Public Body to view activity reports and to perform all administrative functions and for the general public to maintain recurring payments will be provided by County.
- 4.2 Service Requirements
  - 4.2.1 The general public shall be required to pay County an Enhanced Access Fee to use this I.T. Service. County will use Enhanced Access Fees to recover costs associated with this I.T. Service.
  - 4.2.2 The person making the payment will authorize two transactions: (1) one transaction for payment of monies owed to Public Body and (2) one transaction for payment of the Enhanced Access Fee. The payment to Public Body will be deposited in Public Body's designated account. The funds for the Enhanced Access Fee will be deposited into an account owned by County.

**5.0 SERVICE COSTS**

There is no cost to Public Body for this I.T. Service.

**6.0 SHARING OF NET ENHANCED ACCESS FEES**

- 6.1 Public Body will receive 50% of Net Enhanced Access Fees collected from Online Payments. For purposes of Sharing Net Enhanced Access Fees, if the Public Body that entered into this Agreement is a Court, any Net Enhanced Access Fees that can be shared will be directed to and deposited with the Court's Funding Unit or Units. Payments will be made quarterly based on the County's fiscal year of October 1 through September 30. Net Enhanced Access Fees is defined as follows:
- 6.2 County will deduct a percentage from Public Body's gross Enhanced Access Fees to cover transactional fees. The percentage will be recalculated every fiscal year due to changes in County's costs incurred. County shall list the percentage of Enhanced Access Fee used to calculate transactional fees on the [www.G2Gcloud.com](http://www.G2Gcloud.com) website.
- 6.3 Definitions.
  - 6.3.1 Gross Enhanced Access Fees Collected – All fees added to transactions processed for your agency paid by end-user
  - 6.3.2 County's Cost for Transactional Fees –Average costs incurred by County to process transactions for all agencies as a percentage of Gross Enhanced Access Fees Collected
  - 6.3.3 Transactional Fees Deducted from Gross Enhanced Access Fees – Result of applying percentage to Gross Enhanced Access Fees Collected

**EXHIBIT I**  
**I.T. SERVICES AGREEMENT**  
**ONLINE PAYMENTS**

- 6.3.4 Net Enhanced Access Fees Remaining – Result of subtracting costs of transactional fees from Gross Enhanced Access Fees Collected
- 6.3.5 50% Shared Back with Public Body- Percentage of Total Net Enhanced Access Fees to be shared with your agency.
- 6.3.6 Fees Shared Back with Public Body – Funds your agency will receive.
- 6.4 Illustration. Below is an example of how the Net Enhanced Access Fees will be shared:
  - \$5,000 Gross Enhanced Access Fees Collected
  - x 39% County’s Cost for Transactional Fees
  - \$1950 Transactional Fees Deducted from Gross Enhanced Access Fees
  - \$3050 Net Enhanced Access Fees Remaining
  - x50% 50% Shared Back with Public Body
  - \$1525 Fees Shared Back with Public Body

**7.0 PROVISION AND MAINTENANCE OF DATA**

- 7.1 Public Body must use the same credit card and check processing entities used by County. The names and contact information for these entities shall be provided by County. County shall notify Public Body in advance of any changes to the third-party entities.
- 7.2 Public Body shall provide County with all necessary bank account and routing numbers to give effect to this Agreement.

**8.0 LICENSE USE AND ACCESS**

County grants to Public Body a nonexclusive license to use County developed applications needed to receive this I.T. Service. This license cannot be provided to any other party without County’s consent in writing.

**EXHIBIT II**  
**I.T. SERVICES AGREEMENT**  
**OVER THE COUNTER PAYMENTS**

**INTRODUCTION**

The I.T. Service described in this Exhibit (Over the Counter Payments) will provide government agencies with the ability to take credit card payments at the counter and over the phone.

**1.0 COUNTY RESPONSIBILITIES**

- 1.1 County will provide an I.T. Service where the general public can make Over the Counter Payments for any type of fees or costs; i.e. pay property taxes, licenses, permits or traffic tickets by means of a credit card.
- 1.2 County will provide Public Body with access to a password protected web site where Public Body can issue credits and view daily, weekly, and monthly transaction activity of payments processed through this I.T. Service.
- 1.3 The Enhanced Access Fee charged to the general public shall be an amount established by County Board of Commissioners (MISCELLANEOUS RESOLUTION #07121, County Board of Commissioner Minutes, May 24, 2007, p. 246) or as revised by County Board of Commissioners.

**2.0 PUBLIC BODY RESPONSIBILITIES**

- 2.1 Public Body shall respond to all questions from the general public regarding payments.

**3.0 SUPPORT**

The I.T. Service will be supported by County's Information Technology (I.T.) Department as described in the Agreement.

**4.0 SERVICE ACCESS AND REQUIREMENTS**

- 4.1 Service Access
  - 4.1.1 Access to the I.T. Service is via a credit card reader provided by County attached to a computer with a connection to an Internet website run by County.
  - 4.1.2 The URL for Public Body to view activity reports and to perform all administrative functions will be provided by County.
  - 4.1.3 Public Body will provide access to this I.T. Service for the general public via computer owned by Public Body an on the premise of the Public Body. This computer may be operated by Public Body staff or made available directly to the general public.
- 4.2 Service Requirements
  - 4.2.1 The general public shall be required to pay County a fee to use this I.T. Service. County will use fees to recover costs associated with this I.T. Service.



**EXHIBIT II**  
**I.T. SERVICES AGREEMENT**  
**OVER THE COUNTER PAYMENTS**

4.2.2 The person making the payment will authorize two transactions: (1) one transaction for payment of monies owed to Public Body and (2) one transaction for payment of the fee. The payment to Public Body will be deposited in Public Body's designated account. The fee will be deposited into an account owned by County.

**5.0 SERVICE COSTS**

There is no cost to Public Body for this I.T. Service.

**6.0 SHARING OF NET ENHANCED ACCESS FEES**

6.1 Public Body will receive 50% of Net Enhanced Access Fees collected from Over the County Online Payments. For purposes of Sharing Net Enhanced Access Fees, if the Public Body that entered into this Agreement is a Court, any Net Enhanced Access Fees that can be shared will be directed to and deposited with the Court's Funding Unit or Units. Payments will be made quarterly based on the County's fiscal year of October 1 through September 30. Net Enhanced Access Fees is defined as follows:

6.2 County will deduct a percentage from Public Body's gross Enhanced Access Fees to cover transactional fees. The percentage will be recalculated every fiscal year due to changes in County's costs incurred. County shall list the percentage of Enhanced Access Fee used to calculate transactional fees on the [www.G2Gcloud.com](http://www.G2Gcloud.com) website.

6.3 Definitions.

6.3.1 Gross Enhanced Access Fees Collected – All fees added to transactions processed for your agency paid by end-user

6.3.2 County's Cost for Transactional Fees –Average costs incurred by County to process transactions for all agencies as a percentage of Gross Enhanced Access Fees Collected

6.3.3 Transactional Fees Deducted from Gross Enhanced Access Fees – Result of applying percentage to Gross Enhanced Access Fees Collected

6.3.4 Net Enhanced Access Fees Remaining – Result of subtracting costs of transactional fees from Gross Enhanced Access Fees Collected

6.3.5 50% Shared Back with Public Body- Percentage of Total Net Enhanced Access Fees to be shared with your agency.

6.3.6 Fees Shared Back with Public Body – Funds your agency will receive.

**EXHIBIT II**  
**I.T. SERVICES AGREEMENT**  
**OVER THE COUNTER PAYMENTS**

6.4 Illustration. Below is an example of how the Net Enhanced Access Fees will be shared:

\$5,000	Gross Enhanced Access Fees Collected
<u>x 39%</u>	County's Cost for Transactional Fees
- \$1950	Transactional Fees Deducted from Gross Enhanced Access Fees
\$3050	Net Enhanced Access Fees Remaining
<u>x50%</u>	50% Shared Back with Public Body
\$1525	Fees Shared Back with Public Body

**7.0 PROVISION AND MAINTENANCE OF DATA**

7.1 Public Body must use the same credit card processing entities used by County. The names and contact information for these entities shall be provided by County. County shall notify Public Body in advance of any changes to the third-party entities.

7.2 Public Body shall provide County with all necessary bank account and routing numbers to give effect to this Agreement.

**8.0 LICENSE USE AND ACCESS**

County grants to Public Body a nonexclusive license to use County developed applications needed to receive this I.T. Service. This license cannot be provided to any other party without County's consent in writing.

**COHOCTAH TOWNSHIP**

10518 Antcliff Road  
Fowlerville, MI 48836  
**(517) 546-0655**

November 14, 2024

Fowlerville Community Schools  
Matt Stuard, Superintendent  
Fowlerville Community Schools Board of Education  
Amy Sova, Robert Hinton, Susan Charron, John Belcher  
Danielle DeVries, Diana Dombrowski, Justin Braska

Dear Mr. Stuard and Fowlerville School Board Trustees:

RE: Community Recreation Agreement Notice of Termination

This letter provides the required notice of the Community Recreation Agreement termination between Cohoctah Township, The Village of Fowlerville, Handy Township, Conway Township, Iosco Township, and Fowlerville Community Schools.

We hereby provide notice of termination of Cohoctah Township's participation in the agreement as required under Section 6, page 4, of the Agreement. The termination shall be effective December 31, 2024, as listed in the terms outlined within the contract.

*A party may withdraw from this agreement by furnishing all other parties, on or before November 1 of each year with written notice of its intent to terminate participation in the agreement effective December 31 of that year. If more than one party provides such timely notice of an intent to terminate in the same year, the remaining parties shall have an additional 30-day period (i.e., until December 1 of that year) to furnish written notice to the remaining participants of the intent to terminate.*

Thank you for the opportunity to work together.

Respectfully submitted,

Cohoctah Township Board of Trustees

Mark Fosdick, Barb Fear, Tami Bock, Phil Charette, Mark Torigian

Cc: Conway Township, Handy Township, Iosco Township and The Village of Fowlerville

Sent Via First Class Mail and Email

**COHOCTAH TOWNSHIP**

**RESOLUTION NO. \_\_\_\_\_**

**RESOLUTION TO ADOPT AN ORDINANCE TO AMEND THE ZONING  
ORDINANCE REGARDING A RENEWABLE ENERGY OVERLAY DISTRICT**

At a meeting of the Township Board for the Township of Cohoctah, Livingston County, Michigan, held on the 14th day of November, 2024, at 7:00 p.m.

PRESENT: \_\_\_\_\_

ABSENT: \_\_\_\_\_

The following preamble and resolution were offered by \_\_\_\_\_  
and seconded by \_\_\_\_\_.

WHEREAS, the Michigan Zoning Enabling Act, Public Act 110 of 2006, MCL 125.3101 *et seq.*, as amended, authorizes townships to adopt and amend zoning ordinances to regulate the use of land and structures within their zoning jurisdictions; and

WHEREAS, the Cohoctah Township Board (“Township Board”) has adopted such a zoning ordinance (“Zoning Ordinance”); and

WHEREAS, the Township Board desires to consider amendments to the Zoning Ordinance to regulate the location of additional renewable energy land uses and structures within the Township; and

WHEREAS, on July 25, 2024, the Township Planning Commission (“Planning Commission”) published notice of a special meeting and public hearing on the Proposed Amendments (“Notice”); and

WHEREAS, the Notice specified which properties, identified by parcel numbers 4702-22-100-004, 4702-22-100-009, 4702-22-200-011, 4702-22-400-010, and 4702-23-100-004 (the “Overlay Properties”), would be added to a new Renewable Energy Overlay District; and

WHEREAS, the Notice was mailed to all owners of properties within 300 feet of the Overlay Properties and the occupants of all structures within 300 of the Overlay Properties; and

WHEREAS, on August 13, 2024, Planning Commission held a duly noticed public hearing and special meeting to consider the amendments to the Zoning Ordinance to establish a new Renewable Energy Overlay District; and

WHEREAS, at its August 13, 2024 meeting, the Planning Commission discussed expanding and renaming the Solar Energy Overlay District and permitting utility-scale win, solar, and battery energy storage systems to be permitted as special land uses within the Overlay District (“Proposed Amendments”); and

WHEREAS, the Planning Commission recommended the adoption of the Proposed Amendments to the Township Board; and

WHEREAS, after the Planning Commission’s August 13, 2024, public hearing it transmitted the Proposed Amendments to the Livingston County Planning Commission for review pursuant to MCL 125.3307; and

WHEREAS, the Livingston County Planning Commission’s right to review the Proposed Amendments and make recommendations is deemed waived because the thirty (30) day period for such review and recommendation has ended, pursuant MCL 125.3307(3); and

WHEREAS, the Township discussed the Proposed Amendments at its public meeting on November 14, 2024; and

WHEREAS, the Township determined to amend the Proposed Amendments as reflected in Ordinance No. \_\_\_\_, An Ordinance to Amend the Zoning Ordinance Regarding a Renewable Energy Overlay District (the “Ordinance”), attached as **Exhibit A**, and

WHEREAS, the Township now desires to adopt the Ordinance; and

WHEREAS, the Township Board finds the Ordinance promotes public health, safety, and welfare.

NOW, THEREFORE, the Cohoctah Township Board resolves as follows:

1. Ordinance No. 2024-\_\_\_\_, An Ordinance to Amend the Zoning Ordinance Regarding a Renewable Energy Overlay District (the “Ordinance”), attached as **Exhibit A**, is hereby adopted.

2. The Ordinance will be filed with the Township Clerk.

3. The Township Clerk is to publish notice of adoption of the Ordinance, substantially similar to **Exhibit B**, in a newspaper of general circulation in the Township.

4. Any resolutions that conflict with this Resolution are hereby repealed to the extent necessary to give this Resolution full force and effect.

A vote on the above Resolution was taken and was as follows:

ADOPTED:

YEAS: \_\_\_\_\_

NAYS: \_\_\_\_\_

STATE OF MICHIGAN                    )  
  ) ss.  
COUNTY OF LIVINGSTON            )

I, the undersigned, the duly qualified and acting Clerk for Cohoctah Township, Livingston County, Michigan, CERTIFY that the foregoing is a true and complete copy of certain proceedings taken by the Township Board of said Township at a meeting held on the 14th day of November, 2024.

\_\_\_\_\_  
Barb Fear, Township Clerk

**EXHIBIT A**  
**COHOCTAH TOWNSHIP**  
**ORDINANCE NO. \_\_\_\_**  
**AN ORDINANCE TO AMEND THE ZONING ORDINANCE**  
**REGARDING A RENEWABLE ENERGY OVERLAY DISTRICT**

The Township of Cohoctah ordains:

**Section 1. Addition of New Article 33 to the Zoning Ordinance.**

A new Article 33, “Renewable Energy Overlay District,” is added to the Zoning Ordinance and reads in its entirety as follows:

**Section 33.01. Purpose and Findings**

- A. Purpose. The Renewable Energy Overlay District (the “District”) is intended to provide suitable locations for renewable energy systems that are otherwise authorized under state law and the Township’s Code of Ordinances and Zoning Ordinance to meet a reasonable demonstrated need for this land use in the Township. It is the intent of the Township to permit these systems to the extent a demonstrated need exists for the land use by regulating the siting, design, construction, operation, monitoring, modification, and removal of such systems to protect the public health, safety, and welfare, and to ensure compatibility of land uses in the vicinity of renewable energy systems. The Township seeks to preserve its rural character and agricultural heritage. To these ends, the lands included in this District are within reasonable proximity to existing electric power transmission infrastructure.
- B. Findings. In establishing this overlay district, the Township of Cohoctah finds as follows:
1. It is necessary and reasonable to permit renewable energy systems in the Township to the extent that there is a demonstrated need for that land use.
  2. Land use for renewable energy systems beyond a reasonable and legitimate demonstrated need to provide for the Township’s energy needs would have needless adverse effects on surrounding businesses and residences, and be detrimental to the health, safety, welfare, and prosperity of the Township and its residents.
  3. The Township wishes to preserve its existing topography and rural character, maintain property values, and protect and preserve the quality and pace of rural life of its residents while preserving the environment and protecting wildlife.
  4. Renewable energy systems can adversely impact the health, safety, welfare, and prosperity of that community, including existing property values, especially when in proximity to farms, forests, and residential properties.
  5. Renewable energy systems shall be carefully managed to reduce the adverse long-term effects such land use can have on the productivity of farmland. *See, e.g.,*

University of Michigan Graham Sustainability Institute & Michigan State University Extension, “Planning & Zoning for Wind Energy Systems.”

6. Several Michigan communities have suffered, or are suffering, from fiscal uncertainty due to litigation and rule changes concerning taxation arising from rural renewable energy production.
7. The Township contributes significant storm water runoff into adjacent municipalities because of relative elevations, and therefore the Township values low-impact development to better manage its stormwater runoff.
8. Impervious surfaces, such as wind turbines, solar, panels, channel stormwater runoff, and support posts and trenching are likely to damage drain tiles. Thus, renewable energy systems must be carefully sited, designed, and limited in scope.
9. The Township adopts these land use regulations to balance any demonstrated need for renewable energy systems in the Township with the public, health, and safety impacts identified above.

**Section 33.02. Delineation of the Renewable Energy Overlay District**

The Renewable Energy Overlay District (REO) overlays existing zoning districts delineated on the official Township Zoning Map. The following parcels within the Township compromise the Renewable Energy Overlay District:

4702-22-100-004	4702-22-200-011	4702-23-100-004
4702-22-100-009	4702-22-400-010	

**Section 33.03. Permitted Principal Uses.**

There are no uses permitted by right in the Renewable Energy Overlay District, other than uses permitted by right in the underlying zoning districts.

**Section 33.04. Permitted Principal Special Uses with Conditions.**

The following uses are permitted following approval by the Planning Commission as a Special Land Use in the Renewable Energy Overlay District, subject to the provisions of Article XIII, “Special Uses,” and Article XX, “Site Plan Review Procedures”:

- A. Utility-Scale Wind Energy Systems
- B. Utility-Scale Battery Energy Storage Systems
- C. Utility-Scale Solar Energy Systems

**Section 2. Amendments to Section 3.01.**

Section 3.01 of the Zoning Ordinance, entitled “Establishment of Districts,” is amended by the addition of the following text:

<b>Article XXXIII</b>	<b>REO</b>	<b>Renewable Energy Overlay District</b>
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**Section 3. Amendments to Section 16.57.**

The text of Section 16.57(C) is amended to replace “Wind Energy System Overlay District” with “Renewable Energy Overlay District” as follows, where a strikethrough indicates deletion of text and bold font indicates the addition of text:

- C. Utility-Scale Wind Energy Systems. Utility-Scale Wind Energy Systems are permitted by Special Land Use approval in the ~~Wind Energy System Overlay District~~ **Renewable Energy Overlay District and Solar Energy Systems District** and require a special land use permit under Article 5 and site plan approval under Article 4. Utility-Scale Wind Energy Systems are also subject to the following requirements:

...

- 4. System and Location Requirements.
  - a. Utility-Scale Wind Energy Systems are to be located only in the ~~Wind Energy System Overlay District~~ **Renewable Energy Overlay District or Solar Energy Systems District**.

**Section 4. Amendment to Section 13.28(A)(3).**

Section 13.28(A)(3) of the Zoning Ordinance is amended by the addition of new subsection (b), which reads in its entirety as follows:

- b. Renewable Energy Overlay District

**Section 5. Amendment to Section 13.27(D).**

Section 13.27(D) of the Zoning Ordinance is amended by the addition of the following text indicated in bold font:

On or after November 29, 2024, once PA 233 of 2023 is in effect, the following provisions apply to Utility-Scale Solar Energy Systems with a nameplate capacity of 50 megawatts or more, which shall only be allowed in the Solar Energy System Overlay District **and Renewable Energy Overlay District** by special use permit. To the extent the following provisions conflict with the provisions in subsection C above (“Utility-Scale Solar Energy Systems”), the provisions below control as to such Utility-Scale Solar Energy Systems with a nameplate capacity of 50 megawatts or more. All provisions in subsection C above that do not conflict with this subsection remain in full force and effect and shall be applicable to all Utility-Scale Solar Energy Systems regardless of nameplate capacity. The following provisions do not apply if PA 233 of 2023 is repealed, enjoined, or otherwise not in effect, and do not apply to Utility-Scale Solar Energy Systems with a nameplate capacity of less than 50 megawatts.

**Section 6. Validity and Severability.**

If any portion of this Ordinance is found invalid for any reason, such holding will not affect the validity of the remaining portions of this Ordinance.

**Section 7. Repealer.**

All other ordinances inconsistent with the provisions of this Ordinance are hereby repealed to the extent necessary to give this Ordinance full force and effect.

**Section 8. Effective Date.**

This Ordinance takes effect seven days after publication as provided by law.

**EXHIBIT B**

**COHOCTAH TOWNSHIP  
NOTICE OF ORDINANCE ADOPTION AND SUMMARY**

TAKE NOTICE that at a meeting on November 14, 2024, the Township of Cohoctah adopted Ordinance No. \_\_\_\_, An Ordinance to Amend the Zoning Ordinance Regarding a Renewable Energy Overlay District (the “Ordinance”). The Ordinance is available for inspection at the Township Hall, 10518 Antcliff Road, Fowlerville, MI 48836, during regular office hours. Copies of the Ordinance may be obtained for a reasonable charge. The Ordinance takes effect seven (7) days after the publication of this Notice and Summary. A summary of the Ordinance follows:

**SUMMARY OF ORDINANCE NO. \_\_\_\_**

**Section 1. New Renewable Energy Overlay District.** Section 1 of the Ordinance creates a new Article 33, “Renewable Energy Overlay District,” of the Zoning Ordinance. Article 33 establishes the Renewable Energy Overlay District, which consists of the following properties:

4702-22-100-004    4702-22-100-009    4702-22-200-011    4702-22-400-010  
4702-23-100-004

Utility-scale wind energy systems, Utility-scale solar energy systems, and Utility-scale battery energy storage systems are permitted special land uses within the Renewable Energy Overlay District.

**Section 2. Amendment to Section 3.01.** Section 2 of the Ordinance amends Section 3.01 of the Zoning Ordinance to add the Renewable Energy Overlay District to the chart of zoning districts.

**Section 3. Amendment to Section 16.57.** Section 3 of the Ordinance amends Section 16.57 of the Zoning Ordinance to replace “Wind Energy System Overlay District” with “Renewable Energy Overlay District.”

**Section 4. Amendment to Section 13.28.** Section 4 of the Ordinance amends Section 13.28(A)(3) of the Zoning Ordinance to add utility-scale battery energy storage systems as a special land use in the Renewable Energy Overlay District.

**Section 5. Amendment to Section 13.27.** Section 5 of the Ordinance amends Section 13.27(D) of the Zoning Ordinance to add utility-scale solar energy systems as a special land use in the Renewable Energy Overlay District.

**Section 6. Validity and Severability.** Section 6 of the Ordinance makes its provisions severable.

**Section 7. Repealer.** Section 7 of the Ordinance repeals any ordinances or parts of ordinances that conflict with the Ordinance to the extent necessary to give the Ordinance full force and effect.

**Section 8. Effective Date.** Section 8 of the Ordinance states that the Ordinance takes effect seven (7) days after its publication.

88436:00001:200980486-1

## ANNUAL SUMMER TAX RESOLUTION

Howell Public Schools

A regular meeting of the Board of Education of Howell Public Schools (the "District") was held in the Administration Building Edinburgh Room on the 14th day of October, 2024 at 7:00 o'clock p.m.

The meeting was called to order at 7:00 o'clock, p.m. by President Tarara.

Present: Members Tarara, Pasini, Earl, Conn, Bedford, Marhofer, Zurek

Absent: n/a

The following preamble and resolution were offered by Member Marhofer and supported by Member Pasini.

### **WHEREAS:**

1. This Board of Education previously adopted a resolution to impose a summer property tax levy to collect all of the non-homestead school property taxes, and one-half debt service, upon property located within the school district and continuing from year to year until specifically revoked by this Board of Education; and
2. The Revised School Code, as amended, requires formal action of the Board of Education every year to continue the summer tax levy.

### **NOW, THEREFORE, BE IT RESOLVED THAT:**

1. This Board of Education, pursuant to the Revised School Code, as amended, hereby invokes for 2025 its previously adopted ongoing resolution imposing a summer tax levy of all the non-homestead school property taxes, and one-half debt service, and continuing from year to year until specifically revoked by this Board of Education, and requests each city and/or township in which this district is located (and in which a local school district or city is concurrently imposing a summer tax levy\*) to collect those summer taxes.
2. The Superintendent, school business official, or his/her designee, is authorized and directed to forward to the governing body of each city and/or township in which this district is located (and in which a local school district or city is concurrently imposing a summer tax levy\*) a copy of this Board's resolution imposing a summer property tax levy on an ongoing basis and a copy of this resolution requesting that each such city and/or township agree to collect the summer tax levy for 2025 in the amount specified in this resolution. Said resolutions and the request to collect the 2025 summer tax levy shall be forwarded so that they are received by the appropriate governing bodies.

3. The Superintendent, school business official, or his/her designee, is authorized and directed to negotiate on behalf of this District with the governing body of each city and/or township in which the District is located for the reasonable expenses for collection of the District's summer tax levy that the city and/or township may bill under MCL 380.1611 or MSL 380.1612. Any such proposed agreement shall be brought before this Board of Education for its approval or disapproval.

4. All resolutions and parts of resolutions insofar as they conflict with the provisions of this resolution are hereby rescinded.

Ayes: Members Tarara, Pasini, Earl, Conn, Bedford, Marhofer, Zurek

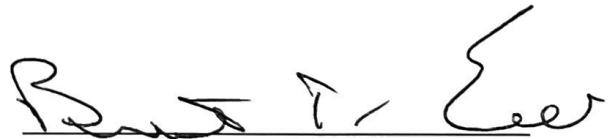
Nays: Members: n/a

Resolution declared adopted.



Brent Earl  
Secretary, Board of Education

The undersigned, duly qualified and acting Secretary of the Board of Education of Howell Public Schools, hereby certifies that the foregoing constitutes a true and complete copy of a resolution adopted by said Board of Education at a regular meeting held on the 14th day of October, 2024, the original of which is part of the Board's minutes. The undersigned further certifies that notice of the meeting was given to the public pursuant to the provision of the "Open Meetings Act" (1976 PA 267, as amended).



Brent Earl  
Secretary, Board of Education

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\*To be used only by ISD's at their discretion.

AGREEMENT FOR COLLECTION OF SUMMER SCHOOL PROPERTY TAXES

AGREEMENT made this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_ by and between Howell Public Schools, with offices located at 411 N. Highlander Way, Howell, MI 48843 (hereinafter "School District") and Cohoctah Township with offices located at 10518 Antcliff Road Fowlerville, MI 48836 (hereinafter "Township"), pursuant to 1976 PA 451, as amended, for the purposes of providing for the collection by the Township of a Summer levy of School District property taxes for the year 2025.

The parties agree as follows:

1. The Township agrees to collect 100% of the total school non-homestead property taxes and 50% of the school debt property taxes as certified by the School District for levy on July 1, 2025 on property located within the Township. Interest earned on said taxes will be retained by the township.

2. ~~The School District agrees to pay Township costs of assessment and collection as follows:~~

\$ 3.00 per parcel

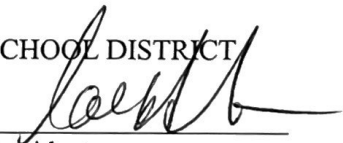

It is understood that the tax rate as spread by the Township would also reflect the sum of 100% of the taxes of the Livingston Education Service Agency.

3. No later than June 15, 2025 the School District shall certify to the Township Supervisor the school millage to be levied on property for summer collection in 2025.

4. The Township Treasurer shall account for and deliver summer school tax collections as follows:

a. Summer Tax collections shall be paid to the School District within ten (10) business days from the 1st and 15th of each month. At your discretion, you may elect to discontinue summer tax disbursements to Howell Public Schools in November, December, January, and March.

Signature authorized by Board  
of Education Resolution of  
October 14, 2024 (date)

SCHOOL DISTRICT  
  
\_\_\_\_\_  
President  
  
\_\_\_\_\_  
Secretary

Signature authorized by Board  
of Trustees Resolution of  
\_\_\_\_\_  
(date)

TOWNSHIP  
\_\_\_\_\_  
Supervisor  
\_\_\_\_\_  
Clerk



**Carlisle | Wortman**  
ASSOCIATES, INC.

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

October 9, 2024

**Preliminary Site Plan Review**  
**for**  
**Cohoctah Township, Michigan**

**PROJECT AND APPLICANT INFORMATION**

<b>Applicant:</b>	Livingston County EMS 1911 Tooley Road, Howell MI 48855
<b>Parcel Address/ID:</b>	4702-26-400-016 7308 Oak Grove Rd. Corner of Chase Lake and Oak Grove Roads
<b>Owner:</b>	Cohoctah Township
<b>Current Zoning:</b>	SR, Suburban Residential District
<b>Request:</b>	Preliminary site plan for an Emergency Services Substation.

**PROJECT AND SITE DESCRIPTION**

The applicant is requesting preliminary site plan approval for the construction of a new Livingston County EMS building. The proposed building is shown to be located on the northwest corner of the project site which also houses the existing Howell Area Fire Department. The 3,159 square foot structure will include living quarters for up to eight (8) personnel and garage space that can accommodate two (2) EMS vehicles.

The proposed building will tie into the existing circulation lot currently in use for the Fire Hall. The proposed EMS building is classified as an essential service, and is a permitted use within in the SR, Suburban Residential District. Should the Planning Commission approve the proposed preliminary site plan, a final site plan containing any additional information required by the zoning ordinance or the Commission will then need to be submitted.



Figure 1- Aerial of Property



Source: Nearmap, aerial photo date June 8, 2024

**SURROUNDING ZONING AND LAND USE**

The property is within the SR, Suburban Residential District. A summary of the intent of that zoning district is below:

*“...provide for single-family residential uses at reasonable nonpollutional densities. It is further the purpose to require lot areas large enough to protect Township groundwaters from excessive pollution due to an overconcentration of septic tank systems, particularly in areas adjacent to water bodies and in areas where groundwaters need to be protected because of on-site or off-site human use.*”

Surrounding zoning district and land uses are summarized in the table below:

	Existing Land Use	Surrounding Zoning
<b>Site</b>	<ul style="list-style-type: none"> <li>Howell Area Fire Department</li> </ul>	SR, Suburban Residential
<b>North</b>	<ul style="list-style-type: none"> <li>Open farmland</li> </ul>	SR, Suburban Residential
<b>East</b>	<ul style="list-style-type: none"> <li>Railroad, Wooded area</li> </ul>	SR, Suburban Residential

<b>West</b>	<ul style="list-style-type: none"> <li>• Single Family Homes</li> </ul>	SR, Suburban Residential
<b>South</b>	<ul style="list-style-type: none"> <li>• Wooded area</li> </ul>	SR, Suburban Residential

**Items to be Addressed:** None.

**NATURAL RESOURCES**

**Topography:** The site is relatively flat, with a gentle slope from the northwestern to southeastern corner of the site.

**Wetlands:** There do not appear to be any wetlands on the site.

**Woodland:** The majority of the site consists of wooded area. It appears the proposed EMS building and detention basin will require an unspecified number of trees to be removed.

**Items to be Addressed:** None.

**AREA, WIDTH, HEIGHT, & SETBACKS**

Existing and proposed building envelopes and architectural plans are included in the site plan. A summary of standards for the SR, Suburban Residential District is outlined below.

	<b>SR Requirement</b>	<b>Proposed</b>	<b>Meets Requirement</b>
<b>Lot Area (min)</b>	1 acre	≈4.98 acres	Yes
<b>Lot Width (min)</b>	120 feet	≈343 feet	Yes
<b>Max. Lot Coverage</b>	30%	3%	Yes
<b>Building Height</b>	35 feet	1 story, 25 feet	Yes
<b>Front Setback</b>	50 feet	95 feet	Yes
<b>Side Setback</b>	20 feet	41 feet	Yes
<b>Rear Setback</b>	50 feet	335 feet	Yes

**Items to be Addressed:** None.

**BUILDING LOCATION AND SITE ARRANGEMENT**

The proposed EMS center will be located near the northwest corner of the site, west of the existing fire hall. A concrete sidewalk is proposed around the building, connecting to the fire hall parking area. The proposed parking lot expansion is proposed on the western side of the building and is shown to be screened from Oak Grove Road via a landscaped berm. A new detention basin is also proposed on the south side of the access drive.

**Items to be Addressed:** None.

## ACCESS AND CIRCULATION

The site will be accessed by an existing driveway located along Oak Grove Road, which will be shared with the fire hall. The proposed parking lot for the EMS building will extend northward, creating a separate parking area from that of the fire hall. The proposed access drive leading to both the fire hall and EMS building is shown at thirty (30) feet wide. A dumpster enclosure is also proposed on the south side of the fire hall parking lot.

We defer further comments and recommendations related to access and circulation to the Township Engineer and the Fire Department.

**Items to be Addressed:** 1) Township Engineer approval of access and circulation. 2) Fire Chief approval of the circulation pattern.

## OFF-STREET PARKING AND LOADING

The location of proposed off-street parking is shown on sheet 4. The plan calls for six (6) new parking spaces for the EMS building, with ten (10) future spaces planned. Six (6) additional parking spaces are also proposed for the existing fire hall, for a new total of fifteen (15) new spaces throughout the site. The proposed EMS building also contains a 2-car garage for emergency vehicle parking. One (1) accessible parking space has been provided in the EMS parking lot. No loading spaces appear to be proposed at this time.

All parking spaces require a minimum area of 200 square feet, which has been demonstrated in sheet 4. Parking space access aisles are also shown at twenty-seven (27) feet, exceeding ordinance requirements for 90-degree parking (20 feet).

It shall be determined by the Planning Commission whether to require bumper stops in front of the proposed parking spaces. Based on the detail provided on sheet 12, the height of the curb between the parking area and the sidewalk appears to be six (6) inches in height. We are of the opinion that bumper stops would not be required in this instance.

**Items to be Addressed:** Planning Commission to consider requiring bumper stops.

## ESSENTIAL SERVICES

The proposed building is shown on sheet 7, Utility Plan to be served by its own on-site well and septic system. We defer to the Township Engineer and Livingston County on the proposed utilities and stormwater management system.

**Items to be Addressed:** 1) Township Engineer approval of the onsite utilities and stormwater management. 2) Livingston County approval of well and septic.

## LANDSCAPING AND SCREENING

A landscape plan has been provided on Sheet 8. The demolition plan calls for the removal of the wooded area south of the existing access drive, and the number of trees to be removed has not been provided.

The plan calls for the planting of twenty-four (24) deciduous shrubs and eleven (11) evergreen shrubs throughout the site, with planting details provided. Eight (8) evergreen shrubs are shown on the proposed

berm located west of the parking lot and will measure at two (2) feet in height, and when combined with the berm will be four (4) feet in height. We strongly recommend the preservation of the tree line along Oak Grove Road in order to preserve the buffering of the fire hall and EMS building from the residential uses to the west through either the preservation of trees or for additional landscaping measures.

The proposed dumpster is proposed to be screened with a covered enclosure; however, no enclosure details have been provided. We also ask the applicant to provide the method of irrigation to be used during final site plan review.

A performance guarantee may also be required to ensure the installation of the proposed landscape material. The Planning Commission may waive this requirement if desired.

**Items to be Addressed:** 1) Provide details of dumpster enclosure. 2) Provide method of irrigation. 3) Provide performance guarantee if required.

## LIGHTING

A lighting plan is included in the provided plan set. Six (6) building mounted light fixtures, along with the two (2) light pole fixtures are proposed throughout the site. Specifications and fixture details have been provided, and we are of the opinion the proposed method of lighting will not have an adverse effect on the adjacent residential properties, as all proposed lighting appears to be downcast. Due to the proximity to residential uses, we recommend additional shielding on the proposed pole fixtures to ensure no glare is cast on neighboring properties.

**Items to be Addressed:** Consider adding additional shielding to light pole fixtures.

## SIGNS

Presented plans indicate a building mounted EMS sign will be present on the west elevation of the building. No other form of signage appears to be proposed. A permit submitted through the Township Building Department will be required prior to the installation of the sign.

**Items to be Addressed:** Seek building department approval of proposed signs prior to installation.

## FLOOR PLANS AND ELEVATIONS

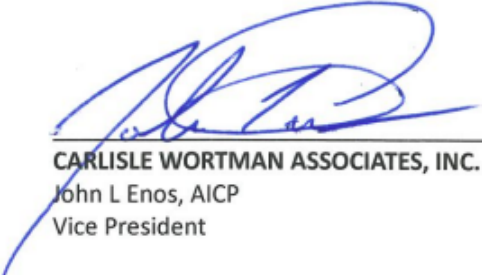
Floor plans and elevations of the proposed EMS building are shown on sheets A1.0 through A3.0. We are of the opinion that the proposed building will match the existing character of the site in terms of building materials used.

**Items to be Addressed:** None.

## RECCOMENDATION

The preliminary site plan appears to be complete. The proposed development will help provide a great benefit to the overall public safety and well-being of the Township and surrounding areas and will be constructed in a manner that will complement the existing character of the property. We are recommending preliminary site plan approval, with the items listed below to be addressed during final site plan review:

1. Township Engineer approval of access and circulation.
2. Fire Chief approval of the circulation pattern.
3. Planning Commission to consider requiring bumper stops.
4. Township Engineer approval of the onsite utilities and stormwater management.
5. Livingston County approval of well and septic.
6. Provide details of dumpster enclosure
7. Provide method of irrigation.
8. Provide performance guarantee if required.
9. Consider adding additional shielding to light pole fixtures.
10. Seek building department approval of proposed signs prior to installation.



CARLISLE WORTMAN ASSOCIATES, INC.  
John L Enos, AICP  
Vice President



CARLISLE WORTMAN ASSOCIATES, INC.  
Joe Pezzotti  
Community Planner

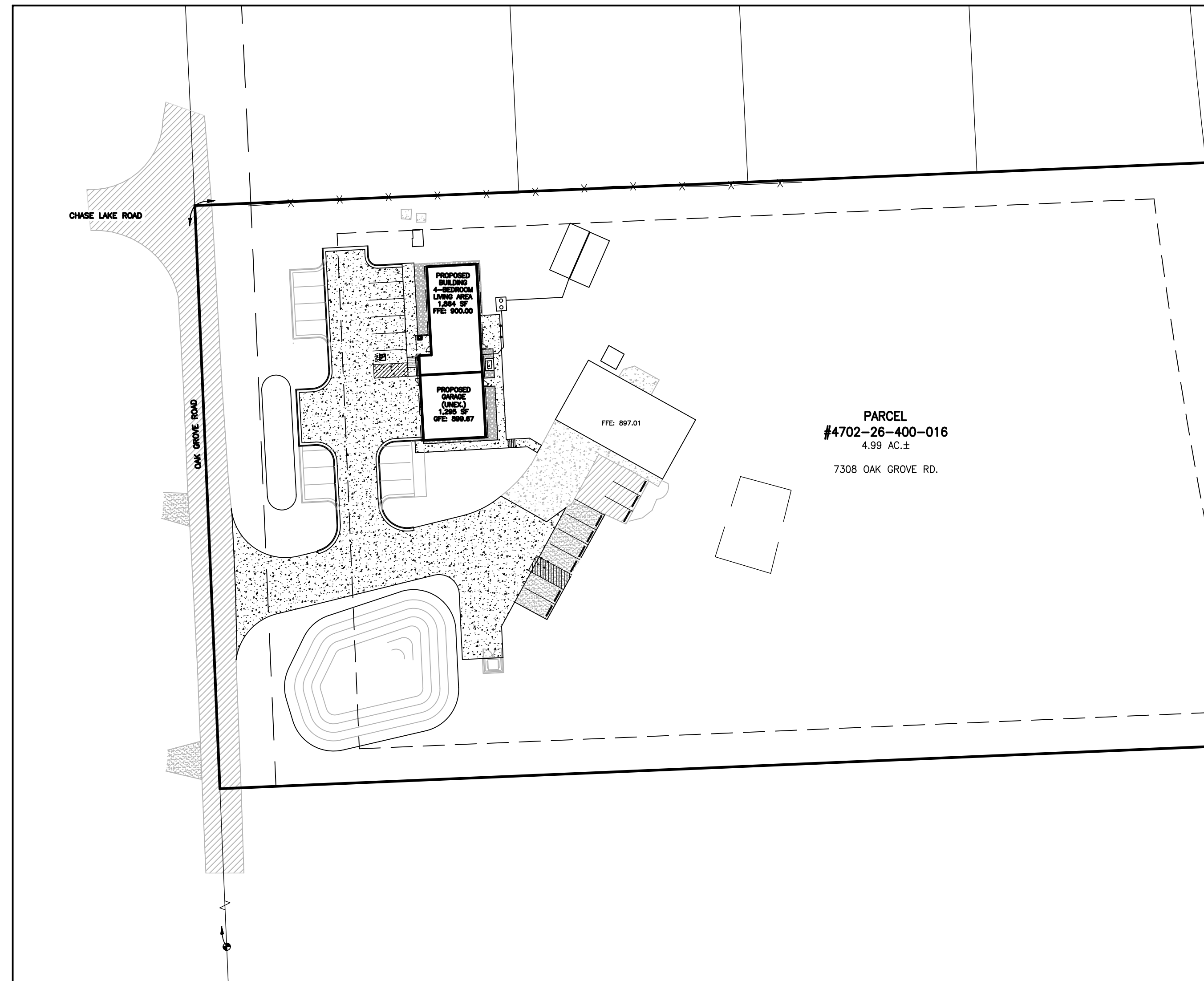
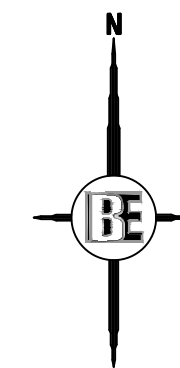
**PROPERTY DESCRIPTION:**

DESCRIPTION OF PARCEL PER  
LIVINGSTON COUNTY TAX ROLL:  
SEC 26 T4N R4E N 5 AC OF N 1/2 OF  
SE 1/4 OF SEC 26 WHICH IS LYING W  
OF ANN ARBOR RAILROAD ROW SPLIT  
FROM 400-001

# PRELIMINARY SITE PLAN FOR LIVINGSTON COUNTY EMS - COHOCTAH SUBSTATION PART OF SE QUARTER, SECTION 26 COHOCTAH TOWNSHIP, LIVINGSTON COUNTY, MI



**LOCATION MAP**  
NO SCALE



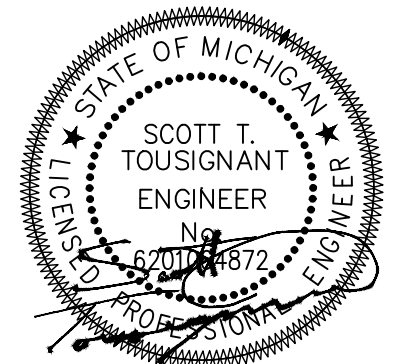
**OVERALL SITE MAP**  
NO SCALE

PERMITS & APPROVALS		
AGENCY	DATE SUBMITTED	DATE APPROVED
• COHOCTAH TOWNSHIP	-	-
• LCDC - SESC	-	-
• LORC	-	-

SHEET INDEX	
SHEET NO.	DESCRIPTION
1	COVER
2	GENERAL NOTES & LEGEND
3	EXISTING CONDITIONS & DEMOLITION PLAN
4	SITE PLAN
5	GRADING & DRAINAGE PLAN
6	SOIL EROSION & SEDIMENTATION CONTROL PLAN
7	UTILITY PLAN
8	BASIN DETAILS
9	STORM PLAN & PROFILE
10	LANDSCAPE PLAN
11	NATURAL FEATURES PLAN
12	CONSTRUCTION DETAILS
PLANS BY OTHERS	
1	LIGHTING PLAN (GASSER BUSH)
A1.0	FLOOR PLAN (LINDHOUT ASSOCIATES)
A2.1	EXTERIOR ELEVATIONS (LINDHOUT ASSOCIATES)
A2.2	EXTERIOR ELEVATIONS (LINDHOUT ASSOCIATES)
A3.0	RENDERED VIEWS (LINDHOUT ASSOCIATES)

PREPARED FOR:

LINDHOUT ASSOCIATES ARCHITECTS  
10465 CITATION DRIVE  
BRIGHTON, MI 48116  
CONTACT: BRAD ALVORD  
PHONE: 810.227.5668  
EMAIL: BMA@LINDHOUT.COM



LIGHTING BY:

GASSER BUSH ASSOCIATES  
30984 INDUSTRIAL RD.  
LIVINGSTON, MI 48150  
CONTACT: BRAD ALVORD  
PHONE: 810.227.5668  
EMAIL: BMA@LINDHOUT.COM

PREPARED BY:

**BEBOSS**  
*Engineering*  
Engineers Surveyors Planners Landscape Architects  
3121 E. GRAND RIVER AVE.  
HOWELL, MI. 48843  
517.546.4836 FAX 517.548.1670  
CONTACT: SCOTT TOUSIGNANT  
EMAIL: SCOTT@BOSSENG.COM

**INDEMNIFICATION STATEMENT**

THE CONTRACTOR SHALL HOLD HARMLESS THE DESIGN PROFESSIONAL, MUNICIPALITY, COUNTY, STATE AND ALL OF ITS SUB CONSULTANTS, PUBLIC AND PRIVATE UTILITY COMPANIES, AND LANDOWNERS FOR DAMAGES TO INDIVIDUALS AND PROPERTY, REAL OR OTHERWISE, DUE TO THE OPERATIONS OF THE CONTRACTOR AND/OR THEIR SUBCONTRACTORS.

				<b>1</b>
NO	BY	CK	REVISION	DATE
				ISSUE DATE: 9/10/24
				JOB NO: 24-176

GENERAL NOTES

- 1. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED TOWNSHIP, COUNTY, AND STATE OF MICHIGAN PERMITS.
2. A GRADING PERMIT FOR SOIL EROSION-SEDIMENTATION CONTROL SHALL BE OBTAINED FROM THE GOVERNING AGENCY PRIOR TO THE START OF CONSTRUCTION.
3. IF DUST PROBLEM OCCURS DURING CONSTRUCTION, CONTROL WILL BE PROVIDED BY AN APPLICATION OF WATER, EITHER BY SPRINKLER OR TANK TRUCK.
...
35. WHERE CITY/TOWNSHIP STANDARD CONSTRUCTION DETAILS/SPECIFICATIONS ARE PROVIDED AND ARE IN CONFLICT WITH NOTES AND SPECIFICATIONS HEREIN, THE CITY/TOWNSHIP STANDARD SHALL GOVERN.

INDEMNIFICATION STATEMENT

THE CONTRACTOR SHALL HOLD HARMLESS THE DESIGN PROFESSIONAL, MUNICIPALITY, COUNTY, STATE, AND ALL OF ITS SUB CONSULTANTS, PUBLIC AND PRIVATE UTILITY COMPANIES, AND LANDOWNERS FOR DAMAGES TO INDIVIDUALS AND PROPERTY, REAL OR OTHERWISE, DUE TO THE OPERATIONS OF THE CONTRACTOR AND/OR THEIR SUBCONTRACTORS.

CONTRACTOR TO FOLLOW MANUFACTURER SPECS/RECOMMENDATIONS THAT SUPERCEDE PLANS

GENERAL GRADING & SESC NOTES

- 1. THE CONTRACTOR SHALL HAVE IN PLACE ALL REQUIRED EROSION CONTROL METHODS AS INDICATED ON THE CONSTRUCTION PLANS AND AS REQUIRED BY GENERAL PRACTICE. SPECIFIC MEANS, METHODS AND SEQUENCES OF CONSTRUCTION MAY DICTATE ADDITIONAL SOIL EROSION CONTROL MEASURES BE NEEDED. THE CONTRACTOR SHALL COORDINATE WITH THE DESIGN ENGINEER ON THESE ANTICIPATED METHODS. ADDITIONAL SOIL EROSION CONTROL METHODS SHALL BE INCIDENTAL TO THE SCOPE OF WORK.
2. ACTUAL FIELD CONDITIONS MAY DICTATE ADDITIONAL OR ALTERNATE SOIL EROSION CONTROL MEASURES BE UTILIZED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DEFICIENCIES OR FIELD CONDITIONS THAT WARRANT ADDITIONAL AND/OR ALTERNATIVE SESC MEASURES BE UTILIZED.
...
11. ALL EXCAVATION UNDER OR WITHIN 3 FEET OF PUBLIC PAVEMENT, EXISTING OR PROPOSED SHALL BE BACKFILLED AND COMPACTED WITH SAND (MDO CLASS II).

GENERAL LANDSCAPE NOTES

- 1. ALL PLANT MATERIAL SHALL CONFORM TO THE REQUIREMENTS AND SPECIFICATIONS OF THE GOVERNING MUNICIPALITY. ALL STOCK SHALL BE NURSERY GROWN, CONFORMING TO ANSI Z60.1 "AMERICAN STANDARD FOR NURSERY STOCK", AND IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICE. STOCK SHALL EXHIBIT NORMAL GROWTH HABIT AND BE FREE OF DISEASE, INSECTS, EGGS, LARVAE, & DEFECTS SUCH AS KNOTS, SUN-SCALD, INJURIES, ABRASIONS, OR DISFIGUREMENT. ALL PLANT MATERIAL SHALL BE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT.
2. ALL PLANT MATERIALS SHALL BE BALLED AND BURLAPPED OR CONTAINER STOCK. NO BARE ROOT STOCK IS PERMITTED. ALL PLANT BALLS SHALL BE FIRM, INTACT, AND SECURELY WRAPPED AND BOUND.
...
12. ALL AREAS OF THE SITE THAT BECOME DISTURBED DURING CONSTRUCTION AND ARE NOT TO BE PAVED, STONED, LANDSCAPED, OR SODDED SHALL BE SEEDING AND MULCHED.
SEED MIXTURE SHALL BE AS FOLLOWS:
KENTUCKY BLUEGRASS (CHOOSE 3 VARIETIES - ADLPHI, RUGBY, GLADE, OR PARADE) 30%
RUBY RED OR DAWSON RED FINE FESCUE 30%
ATLANTA RED FESCUE 20%
PENNFINE PERENNIAL RYE 20%

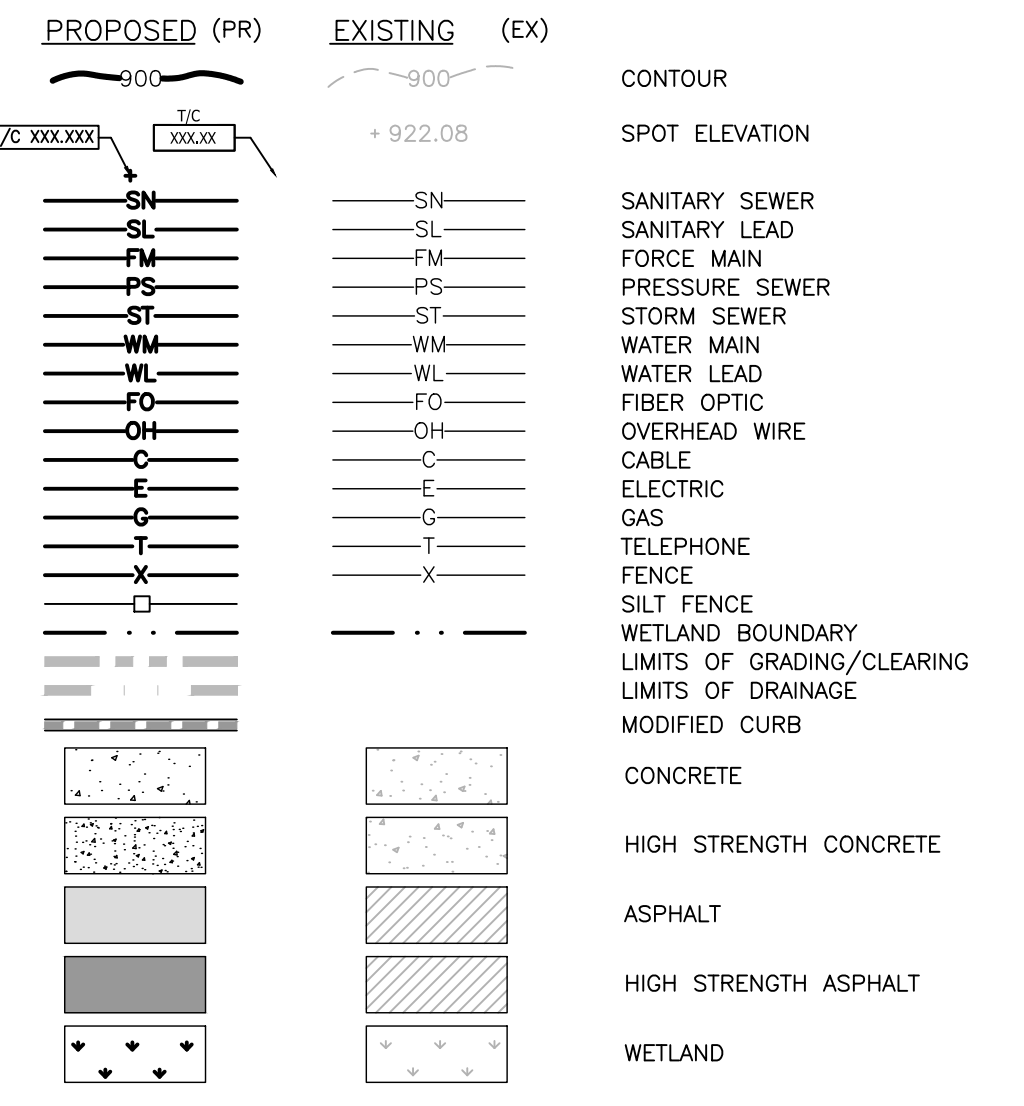
GENERAL UTILITY NOTES

- 1. BEDDING SHALL EXTEND A MINIMUM OF 4" BELOW THE PIPE, UNLESS OTHERWISE NOTED ON THE PLANS. BEDDING SHALL BE OF UNIFORM GRADATION MDO CLASS II GRANULAR MATERIAL FOR SANITARY AND STORM PIPE AND MDO CLASS II GRANULAR MATERIAL ONLY FOR WATERMAIN.
2. WHERE UNSTABLE GROUND CONDITIONS ARE ENCOUNTERED, STONE BEDDING SHALL BE USED AS DIRECTED BY THE ENGINEER.
3. BACKFILL SHALL BE OF A SUITABLE MATERIAL AND SHALL BE FREE OF ANY ORGANIC MATERIALS AND ROCKS.
...
5. 18" MINIMUM VERTICAL SEPARATION AND 10" HORIZONTAL SEPARATION IS TO BE MAINTAINED BETWEEN WATERMAIN AND SANITARY/STORM SEWER TO THE MAXIMUM EXTENT POSSIBLE.

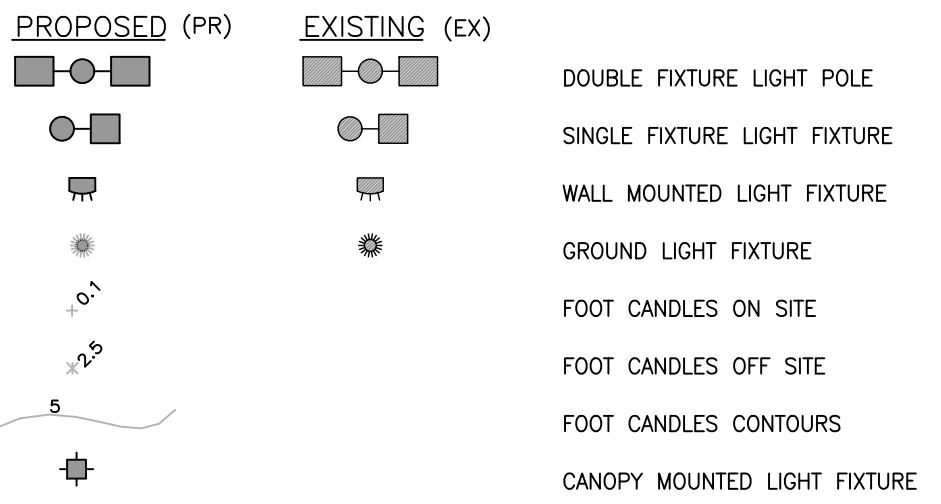
GENERAL STORM NOTES

- 1. ALL STORM PIPE LENGTHS ARE SHOWN FROM C/L TO C/L OF STRUCTURE OR FROM C/L OF STRUCTURE TO DISCHARGE END OF FLARED END SECTION.
2. STORM PIPE MATERIALS SHALL BE AS FOLLOWS:
2.1. RCP(REINFORCED CONCRETE PIPE); SHALL MEET THE REQUIREMENTS OF ASTM C76 WITH MODIFIED GROOVED TONGUE AND RUBBER GASKETS MEETING THE REQUIREMENTS OF ASTM C443. RCP TO BE EITHER CLASS IV OR V AS CALLED OUT ON THE PLANS.
2.2. PVC(POLYVINYL CHLORIDE); SHALL MEET THE REQUIREMENTS OF ASTM D3034.
3. STORM PIPE JOINTS SHALL MEET THE REQUIREMENTS OF ASTM D3212. HDPE AND PP PIPE GASKETS SHALL MEET THE REQUIREMENTS OF ASTM F477.
...
10. THE PROPOSED DRAINAGE SYSTEM IS TO BE OWNED AND PROPERLY MAINTAINED BY THE PROPERTY OWNER

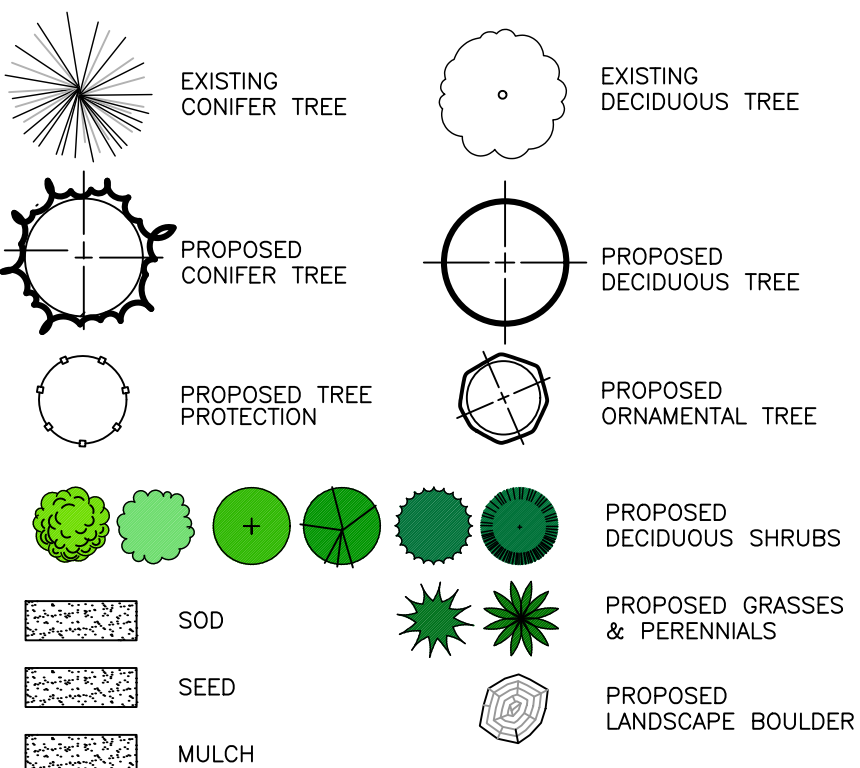
LINES & HATCHES LEGEND



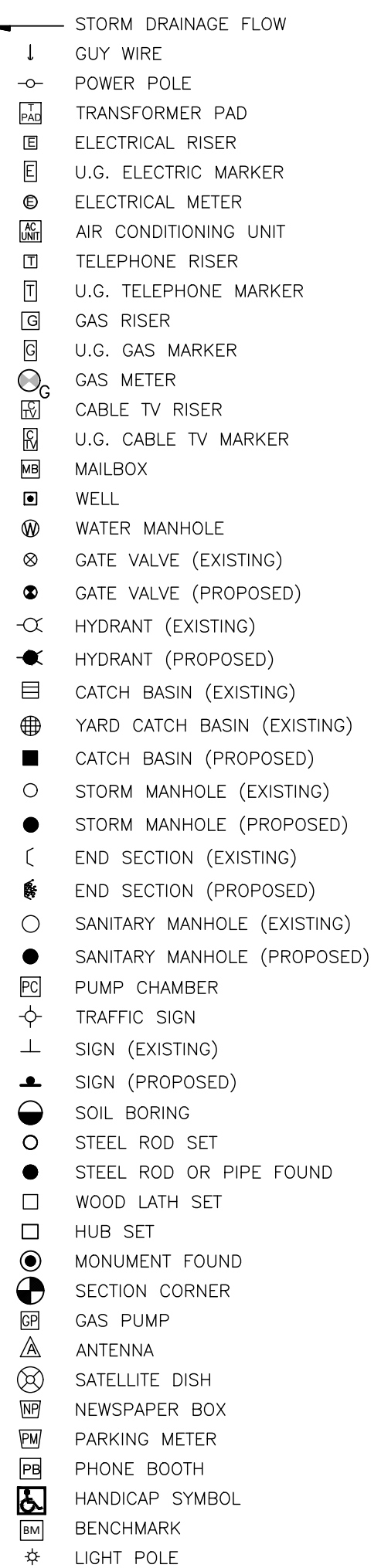
LIGHTING LEGEND



LANDSCAPE LEGEND



SYMBOL LEGEND



ABBREVIATIONS

- FFE FINISHED FLOOR ELEVATION
BFE BASEMENT FLOOR ELEVATION
GFE GARAGE FLOOR ELEVATION
FG FINISHED GRADE
T/A TOP OF ASPHALT
T/C TOP OF CURB
T/CO TOP OF CONCRETE
T/W TOP OF WALK
T/P TOP OF PIPE
B/P/P BOTTOM OF PIPE
F/L FLOW LINE
RIM RIM ELEVATION (AT FLOW LINE)
INH INVERT ELEVATION
MH MANHOLE
CB CATCH BASIN
RY REAR YARD
YD YARD DRAIN
RD ROOF DRAIN
FES FLARED END SECTION
CMP CORRUGATED METAL PIPE
CPP CORRUGATED PLASTIC PIPE
RCP REINFORCED CONCRETE PIPE
HDPE HIGH DENSITY POLYETHYLENE
PVC POLYVINYL CHLORIDE
DIP DUCTILE IRON PIPE

THE LOCATION AND ELEVATION OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE DRAWINGS ARE ONLY APPROXIMATE. NO ASSURANCE OF ACCURACY IS MADE. THE CONTRACTOR SHALL COMPLETELY VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES BE FORECAUGHT BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL UTILITIES APPEAR ON THE PLANS OR THEIR DIFFERS SIGNIFICANTLY FROM THE PLANS.

BEBOSS Engineering logo and contact information: BEBOSS Engineering, 3121 E. GRAND RIVER AVE., HOWELL, MI. 48843

PROJECT: LIVINGSTON COUNTY EMS - COHOCTAH SUBSTATION
PREPARED FOR: LINDHOOT ASSOCIATES AIA, PC
10465 CATTARAUGUS DRIVE, BRIGHTON, MI 48116, 810.227.2568

GENERAL NOTES & LEGEND
REVISION PER: I DATE

Table with columns for DESIGNED BY (ST), DRAWN BY (MJD), CHECKED BY, SCALE (NO SCALE), JOB NO (24-176), DATE (9/10/2024), SHEET NO (2), and BOSS Engineering logo.

DESCRIPTION OF PARCEL PER LIVINGSTON COUNTY TAX ROLL:

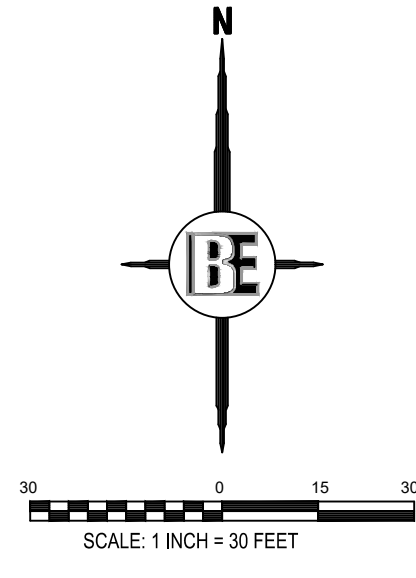
SEC 26 T4N R4E N 5 AC OF N 1/2 OF SE 1/4 OF SEC 26 WHICH IS LYING W OF ANN ARBOR RAILROAD ROW SPLIT FROM 400-001

GENERAL SURVEY NOTES:

1. BEARINGS ARE BASED ON MICHIGAN STATE PLANE COORDINATE SYSTEM, SOUTH ZONE.
2. SUBSURFACE UTILITIES NOT LOCATED FOR THIS SURVEY MAY EXIST. IT IS THE RESPONSIBILITY OF THE OWNER OF THE RESPECTIVE UTILITY TO ACCURATELY LOCATE SUCH UTILITIES.
3. EASEMENTS OR RESTRICTIONS OF RECORD NOT DEPICTED ON THIS DRAWING MAY EXIST.
4. ELEVATIONS WERE ESTABLISHED WITH GPS USING OPUS GPS POST-PROCESSING. (NAVD83 DATUM)
5. CONTOURS ARE SHOWN AT 1 FOOT INTERVALS.
6. THE LOCATIONS OF UNDERGROUND UTILITIES, AS SHOWN ON THIS DRAWING ARE APPROXIMATE. THE LOCATIONS ARE BASED ON PHYSICAL FIELD LOCATIONS OF STRUCTURES ALONG WITH MISS DIG MARKINGS.
7. ALL WORK SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE MUNICIPALITY, THE COUNTY, AND THE STATE OF MICHIGAN.
8. ALLOW THREE WORKING DAYS BEFORE YOU DIG, CALL MISS DIG TOLL FREE 1-800-482-7171.

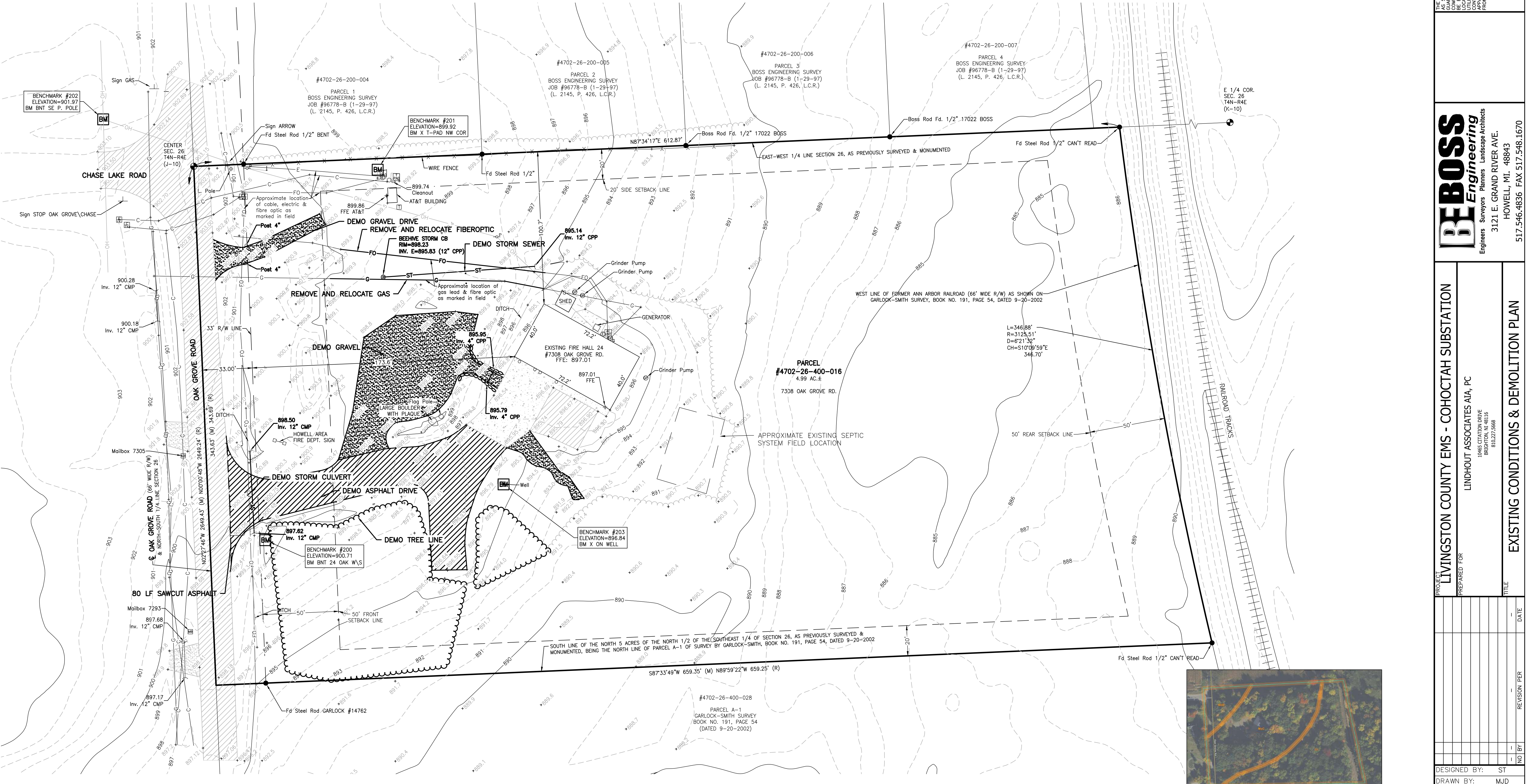
CURRENT ZONING: SUBURBAN RESIDENTIAL DISTRICT (SR)  
MINIMUM SETBACK REQUIREMENTS:  
FRONT = 50 FEET  
SIDES = 20 FEET  
REAR = 50 FEET  
MAXIMUM LOT COVERAGE = 30%  
MAXIMUM BUILDING HT. = 35 FEET

SEE SHEET 2 FOR GENERAL NOTES AND LEGEND



THE LOCATION AND ELEVATION OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE DRAWINGS ARE ONLY APPROXIMATE. NO RESPONSIBILITY FOR THE LOCATION OR DEPTH OF UTILITIES SHALL BE EXCLUDED OR RESPECTED FOR DETERMINING THE EXACT LOCATION OF UTILITIES CROSSING IN THE FIELD PRIOR TO CONSTRUCTION. THE APPARENT OR THE LOCATION OR DEPTH DIFFERS SIGNIFICANTLY FROM THE PLANS.

BE BOSS ENGINEERING  
1-800-482-7171  
www.beboss.com



SOIL MAP (WEB SOIL SURVEY)  
NOT TO SCALE

SOILS:  
Ls - LAMSON FINE SANDY LOAM  
MoB - WAWASEE LOAM, 2 TO 6 PERCENT SLOPES  
MoC - WAWASEE LOAM, 6 TO 12 PERCENT SLOPES

**BE BOSS**  
Engineering  
Engineers Surveyors Planners Landscape Architects  
3121 E. GRAND RIVER AVE.  
HOWELL, MI. 48843  
517.546.4836 FAX 517.548.1670

PROJECT: LIVINGSTON COUNTY EMS - COHOCTAH SUBSTATION  
PREPARED FOR: LINDHOUT ASSOCIATES AIA, PC  
10465 CITATION DRIVE  
BRIGHTON, MI 48116  
810.227.5668

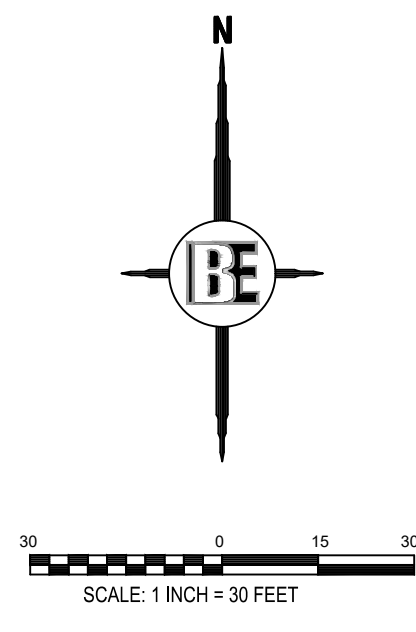
TITLE: EXISTING CONDITIONS & DEMOLITION PLAN

NO.	BY	DATE	REVISION PER

DESIGNED BY: ST  
DRAWN BY: MJD  
CHECKED BY: MJD  
SCALE: 1" = 30'  
JOB NO: 24-176  
DATE: 9/10/2024  
SHEET NO. 3



SEE SHEET 2 FOR GENERAL NOTES AND LEGEND

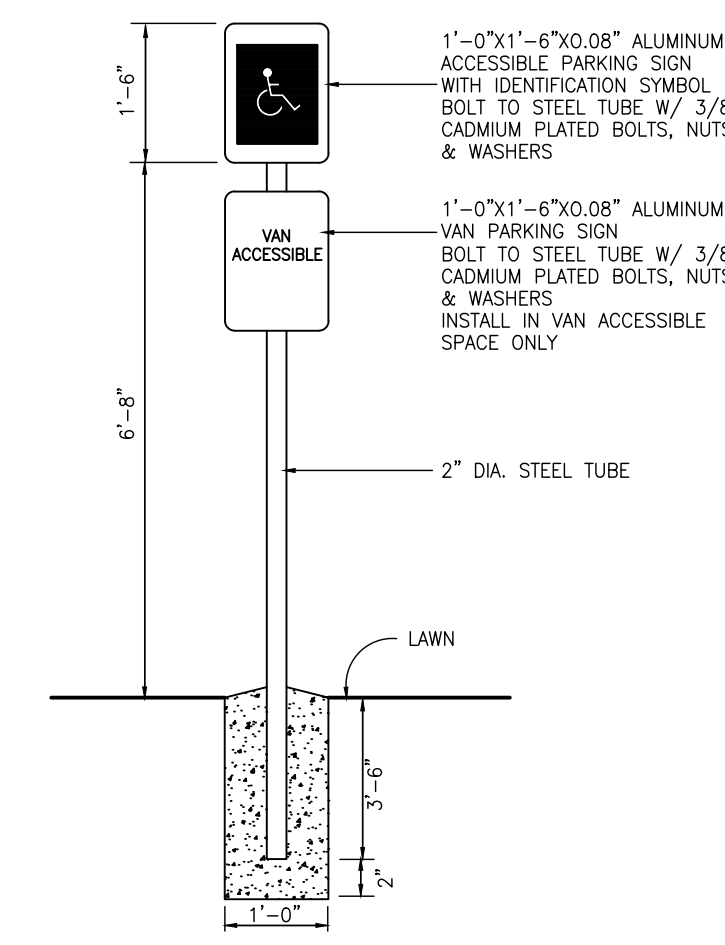
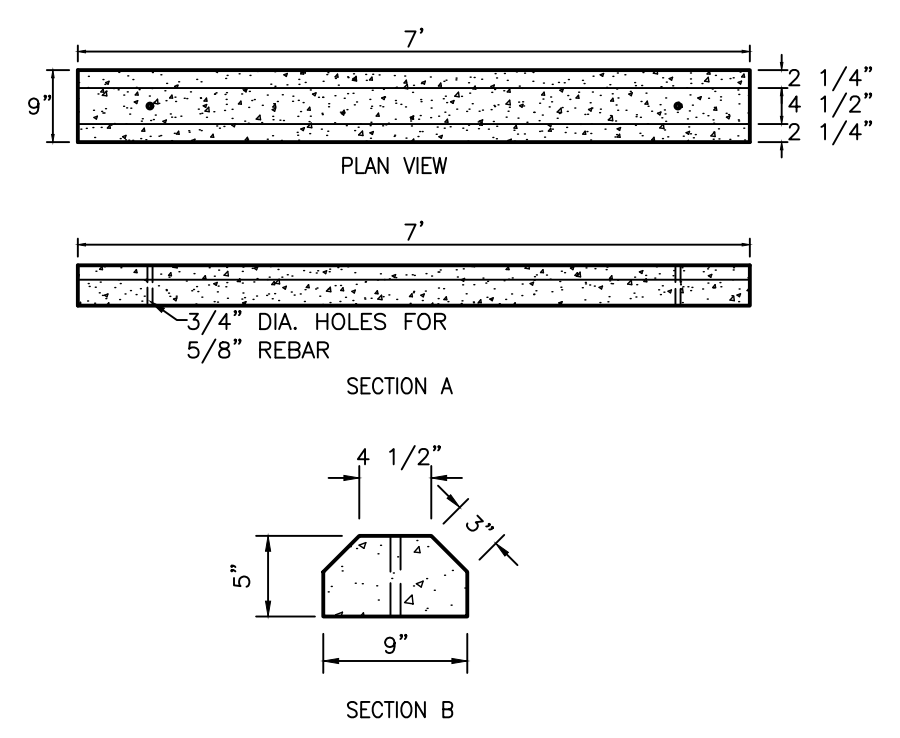
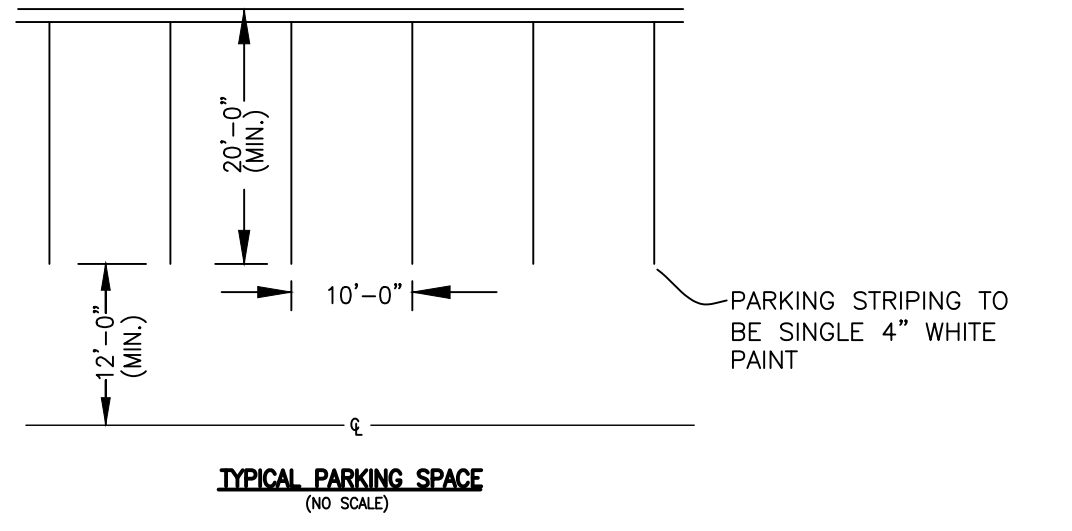
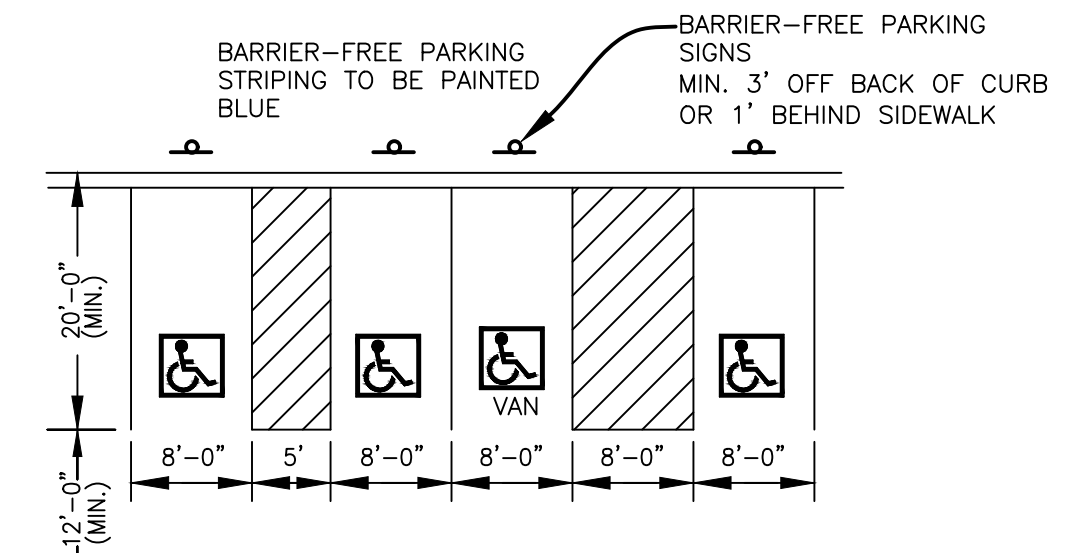
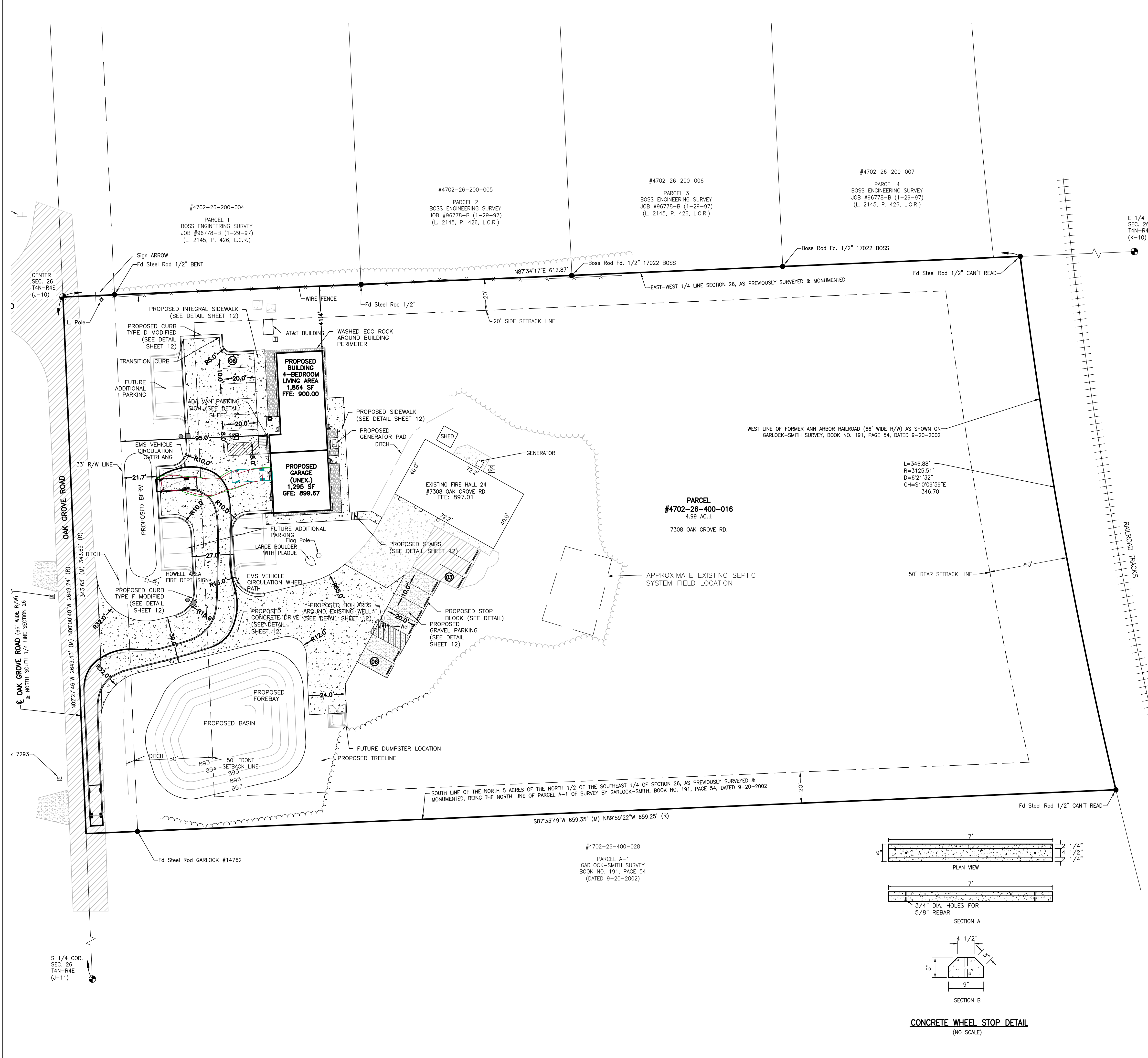


THE LOCATION AND ELEVATION OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE DRAWINGS ARE ONLY APPROXIMATE. NO CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION AND DEPTH OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF UTILITIES PRIOR TO CONSTRUCTION.

BOSS ENGINEERING  
CALL MSS DIG  
1-800-467-7171  
www.boss-engineering.com

SITE DATA:  
CURRENT ZONING: SUBURBAN RESIDENTIAL DISTRICT (SR)  
MINIMUM SETBACK REQUIREMENTS:  
FRONT = 50 FEET  
SIDES = 20 FEET  
REAR = 50 FEET  
MAXIMUM LOT COVERAGE = 30%  
MAXIMUM BUILDING HT. = 35 FEET

PROPOSED BUILDING SETBACKS  
FRONT: 95 FT  
SIDE: 41 FT  
REAR: 335 FT  
LOT COVERAGE: 3%



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3121 E. GRAND RIVER AVE.  
HOWELL, MI. 48843  
517.546.4836 FAX 517.548.1670

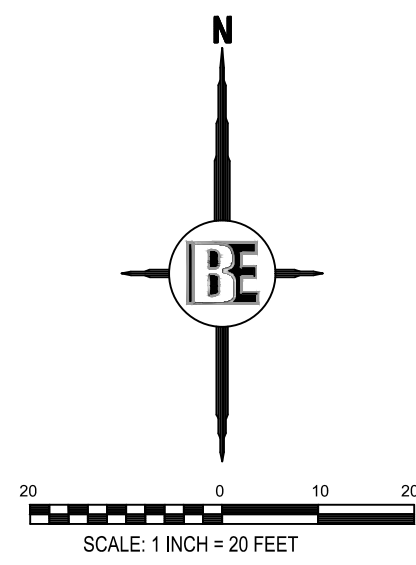
PROJECT: LIVINGSTON COUNTY EMS - COHOCTAH SUBSTATION  
PREPARED FOR: LINDHOUT ASSOCIATES AIA, PC  
10462 CITATION DRIVE  
BRIGHTON, MI 48116  
810.227.5668

TITLE: SITE PLAN

NO.	BY	REVISION	DATE

DESIGNED BY: ST  
DRAWN BY: MJD  
CHECKED BY:  
SCALE: 1" = 30'  
JOB NO: 24-176  
DATE: 9/10/2024  
SHEET NO. 4

SEE SHEET 2 FOR GENERAL NOTES AND LEGEND

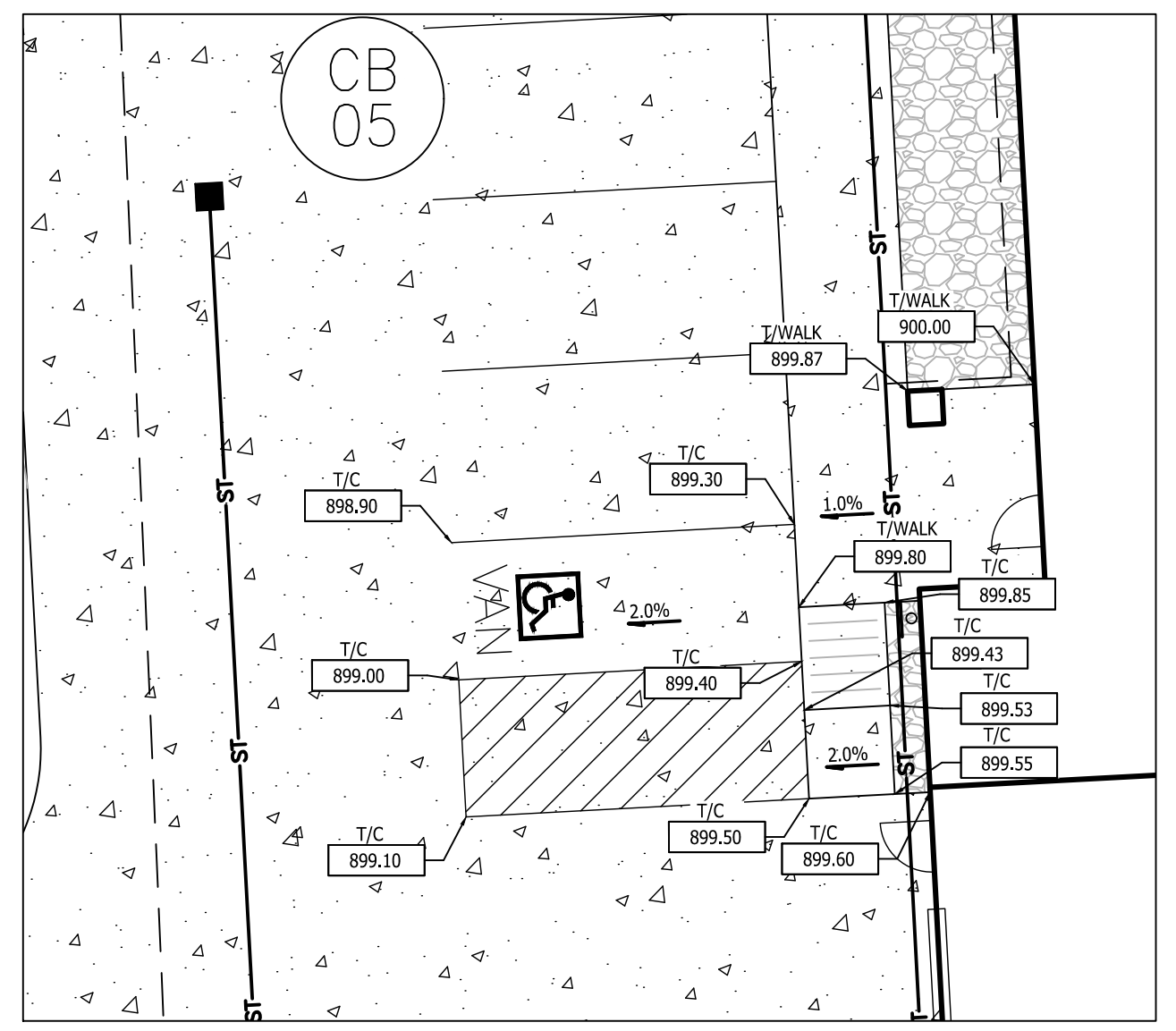


DRAINAGE AREA	TOTAL AREA (AC)	IMP. AREA (AC)	C VALUE	A°C
2	0.29	0.08	0.40	0.12
4	0.17	0.13	0.74	0.13
5	0.19	0.11	0.60	0.11
C	0.04	0.04	0.90	0.03
D	0.04	0.04	0.90	0.03
<b>TOTALS</b>	<b>0.73</b>	<b>0.40</b>	<b>0.58</b>	<b>0.43</b>

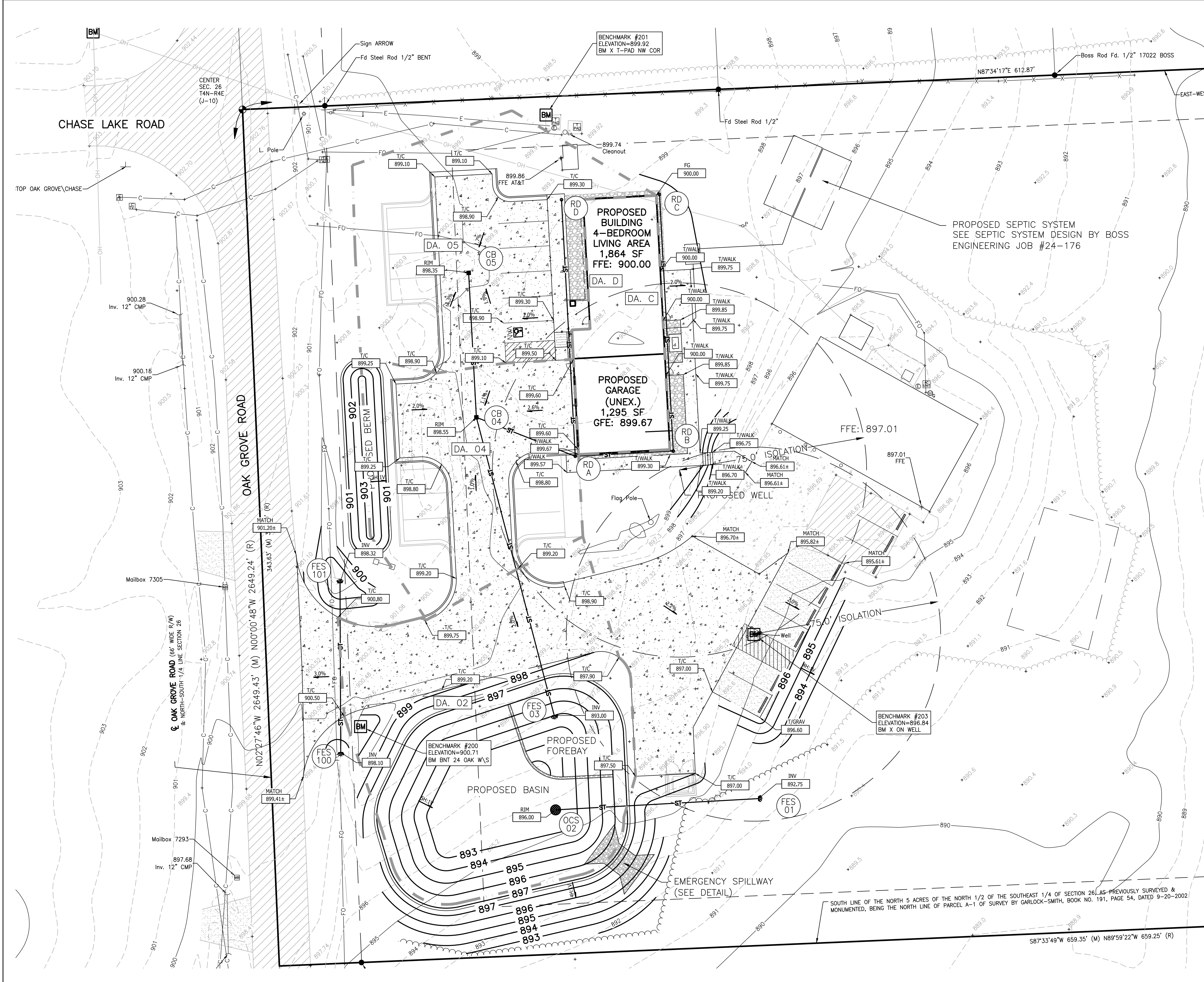
**EXISTING DRAINAGE:**  
 THE EXISTING SITE IS PARTIALLY DEVELOPED. SITE IMPERVIOUS RUNNOF SHEET FLOWS TO GRASSED AREAS AND SWALES AROUND THE EXISTING DRIVE AND BUILDING. THE SITE SLOPES FROM THE NORTHWEST CORNER IN THE EAST AND SOUTHEASTERLY DIRECTION.

**PROPOSED DRAINAGE:**  
 THE SITE WILL CONTINUE TO DRAIN FROM THE NORTHWEST CORNER TO THE EAST. ALL NEW IMPERVIOUS IS PROPOSED TO BE CAPTURED BY THE PROPOSED STORM NETWORK. A SERIES OF CATCH BASINS ARE PROPOSED WITHIN THE SITE TO CAPTURE AND TRANSMIT STORM WATER TO THE PROPOSED DETENTION BASIN ALONG SOUTHERN EDGE OF THE EXISTING DRIVE.

THE BASIN CONSISTS OF A FOREBAY, WITH THE USE OF GABION BASKET WALLS WITHIN THE BASIN TO CREATE A SEPARATE FOREBAY SPACE. THE BASIN WILL UTILIZE AN OUTLET CONTROL STRUCTURE TO DISCHARGE STORM WATER AT A PREDEVELOPMENT RATE TO THE EAST AS LIKE THE EXISTING CONDITION. A RIP RAP EMERGENCY OVERLAND OVERFLOW SPILLWAY IS PROPOSED WHICH WILL DIRECT OVERFLOW STORM WATER TO THE SAME EAST DISCHARGE LOCATION.



ADA DETAILED GRADING  
 SCALE: 1" = 10'



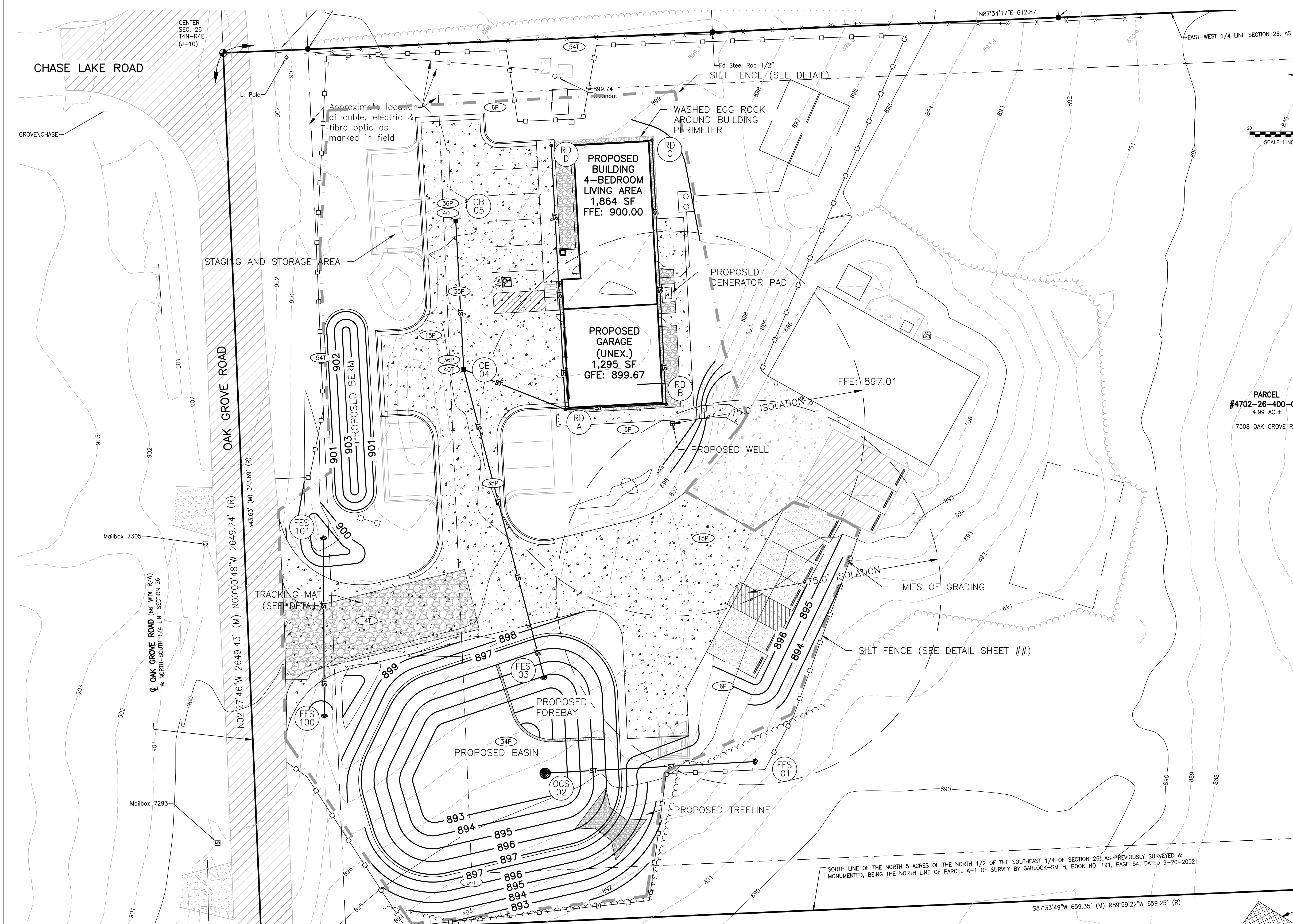
PROPOSED SEPTIC SYSTEM  
 SEE SEPTIC SYSTEM #24-176  
 ENGINEERING JOB #24-176

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 HOWELL, MI. 48843  
 517.546.4836 FAX 517.548.1670

PROJECT: LIVINGSTON COUNTY EMS - COHOCTAH SUBSTATION  
 PREPARED FOR: LINDHOUT ASSOCIATES AIA, PC  
 10462 CATION DRIVE  
 BRIGHTON, MI 48116  
 810.227.5668

NO	BY	REVISION	DATE

DESIGNED BY: ST  
 DRAWN BY: MJD  
 CHECKED BY:  
 SCALE: 1" = 20'  
 JOB NO: 24-176  
 DATE: 9/10/2024  
 SHEET NO. **5**



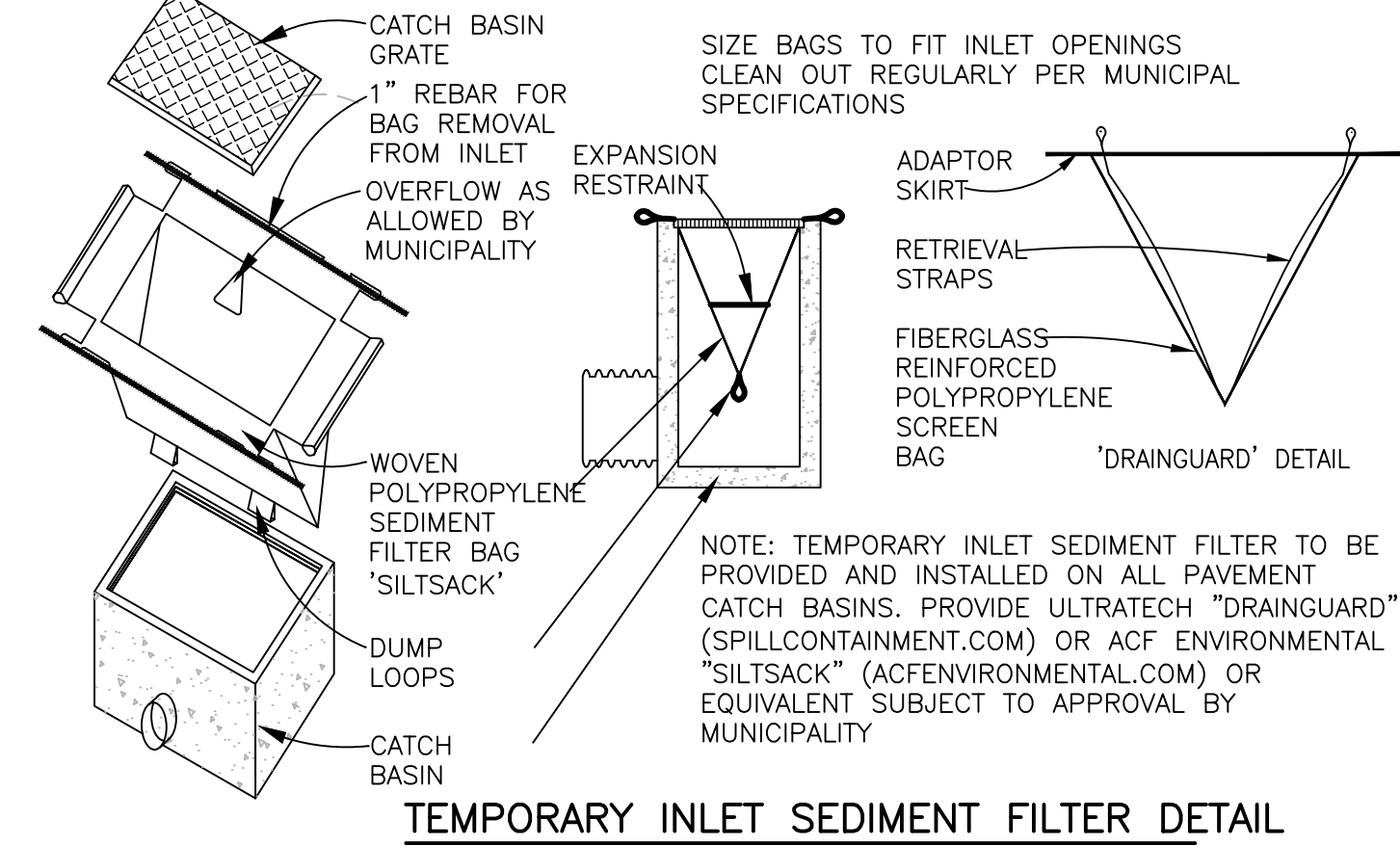
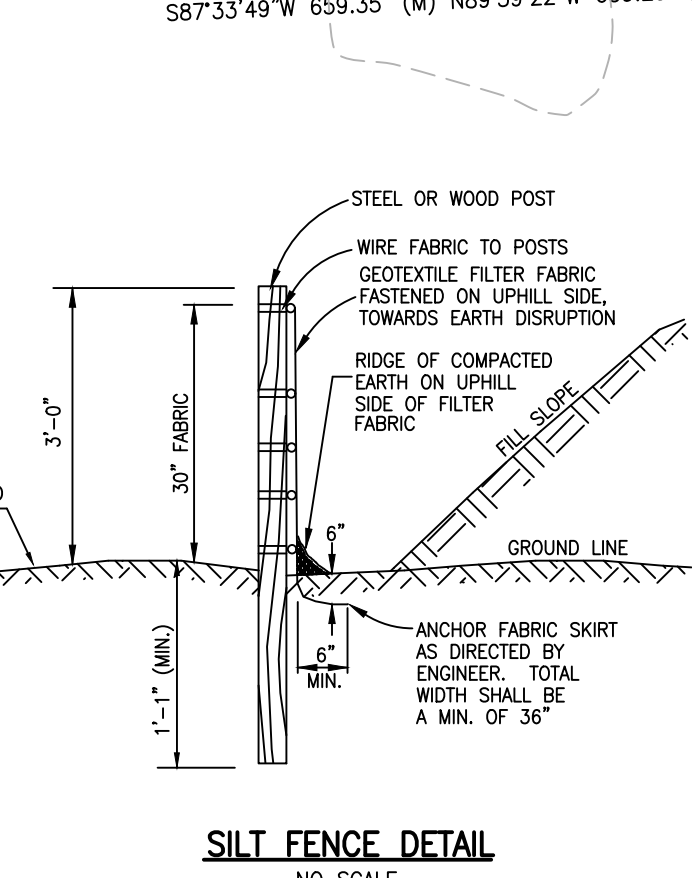
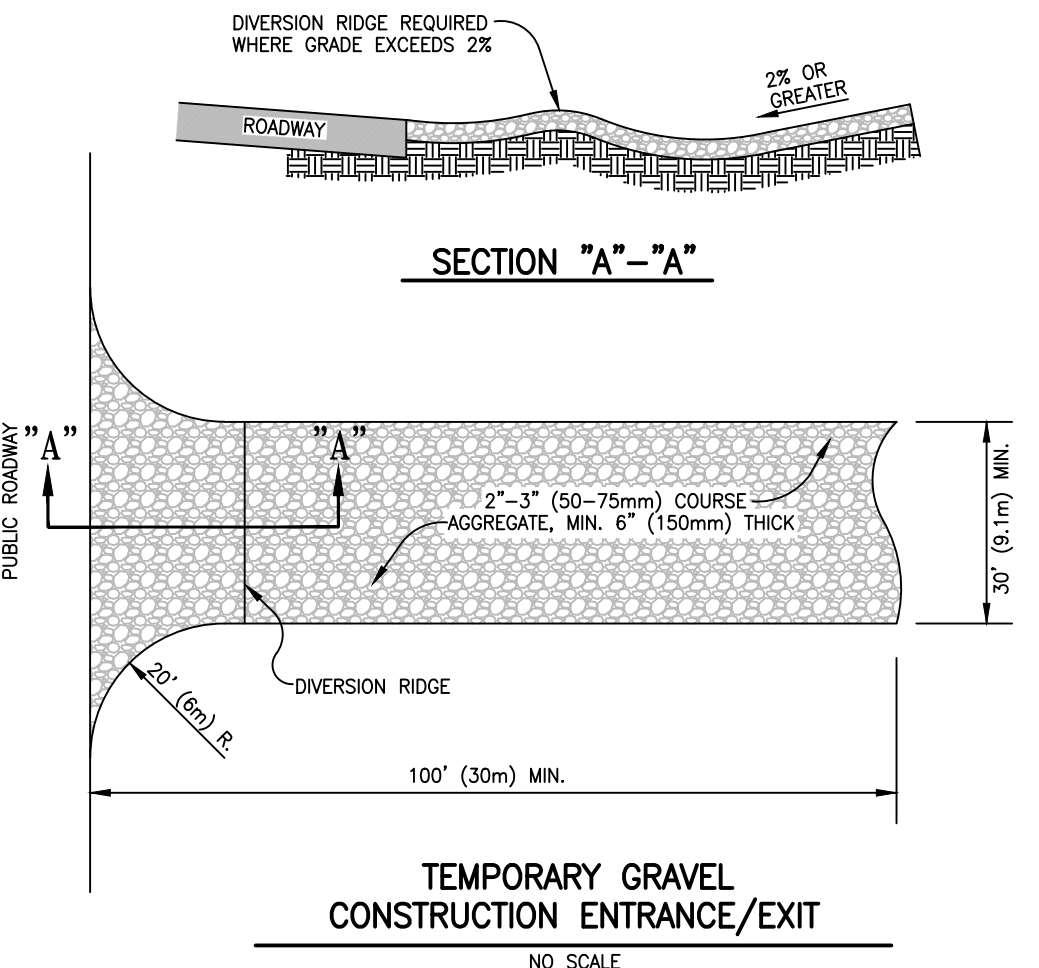
SEE SHEET 2 FOR GENERAL NOTES AND LEGEND

SOIL EROSION CONTROL MEASURES		
1		TOPSOIL MAY BE STOCKPILED ABOVE BERM AREAS TO ACT AS A DIVERSION STOOPPLE SHOULD BE TEMPORARILY SEEDED
6		EXPECTED ESTABLISHMENT OF VEGETATIVE COVER EFFECTIVE FOR DRAMAWAYS WITH LOW VELOCITY SOFTLY PLACED IN SMALL QUANTITIES BY UNPROTECTED PERSONNEL
13		USED WHERE VEGETATION IS NOT EARLY ESTABLISHED EFFECTIVE FOR HIGH VELOCITIES OR HIGH CONCENTRATIONS PERMITS RUNOFF TO INCREASE SOIL DISPERSES ENERGY FLOW AT SYSTEM OUTLETS
14		STABILIZES SOIL SURFACE THIS MINIMIZES EROSION PERMITS CONSTRUCTION TRAFFIC IN ADVERSE WEATHER MAY BE USED AS PART OF PERMANENT BASE CONSTRUCTION OF PAVED AREAS
15		PROTECTS AREAS WHICH CANNOT OTHERWISE BE PROTECTED, BUT INCREASES RUNOFF VELOCITY IRREGULAR SURFACE WILL HELD SLOW VELOCITY
34		TRAPS SEDIMENT RELEASES RUNOFF AT NON-EROSIVE RATES CONTROLS RUNOFF AT SYSTEM OUTLETS CAN BE USUAL AMOUNTS
35		SYSTEM REMOVES COLLECTED RUNOFF FROM SITE, PARTICULARLY FROM PAVED AREAS CAN ACCEPT LARGE CONCENTRATIONS OF RUNOFF CONDUCTS RUNOFF TO MANICUAL SEWER SYSTEM OR STABILIZED OUTLET LOCATION USE EACH BASIN TO COLLECT SEDIMENT
36		COLLECTS HIGH VELOCITY CONCENTRATED RUNOFF MAY USE FILTER CLOTH OVER INLET
40		EASY TO SHAPE COLLECTS SEDIMENT MAY BE CLEANED AND EXPANDED AS NEEDED
49		REDUCES FLOW VELOCITY CATCHES SEDIMENT CAN BE CONSTRUCTED OF LOGS, STRAW, HAY, ROCK, LUMBER, WOODSHPY OR SAND BAGS
54		USES GEOTEXTILE FABRIC AND POSTS OR POLES. EASY TO CONSTRUCT AND LOCATE AS NECESSARY. (SEE DETAIL THIS SHEET)

T= TEMPORARY, P= PERMANENT  
TOTAL DISTURBED AREA= 1.20 AC.

DEWATERING NOTE:

- ANY DEWATERING REQUIRED SHALL HAVE A DEWATERING PLAN SUBMITTED PRIOR TO STARTING THE ACTIVITY AND MAY REQUIRE EGLE APPROVAL.



**SURFACE WATER & COUNTY DRAINS**

WETLAND - ON SITE  
 LAKES - APPROXIMATELY 9140 FT NORTHEAST TO HIDDEN LAKE  
 STREAMS - APPROXIMATELY 2890 FT EAST TO BOGUE CREEK  
 BASINS - APPROXIMATELY 205 FT SOUTH AT 7500 SANFORD ROAD  
 DRAINS - APPROXIMATELY 1890 FT WEST TO IRA ACRES DRAIN  
 PONDS - APPROXIMATELY 205 FT SOUTH AT 7500 SANFORD ROAD

**PROPOSED CONST. SCHEDULE FOR THE YEAR 2025**

ACTIVITY	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV
DEMO & CLEAR							
MASS GRADING							
UNDERGROUND UTILITY							
BUILDING CONSTRUCTION							
FINAL GRADING							
SEED & MULCH							

**CONSTRUCTION SEQUENCE**

THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT EROSION IS MINIMIZED AND THAT COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS, REGULATIONS, AND ORDINANCES IS MAINTAINED THROUGHOUT EXECUTION OF THIS PROJECT.

DAYS	ACTIVITY
1	INSTALL SILT FENCE AS SHOWN ON PLANS.
5	ROUGH GRADE AND INSTALL STORM DRAINAGE.
1 DAY	INSTALL INLET PROTECTION ON STORM INLETS.
180 DAY	START BLDG. CONSTRUCTION
4 DAYS	INSTALL PAVEMENT
4 DAYS	FINE GRADE AROUND BUILDING, SPREAD TOPSOIL, SEED OR SOD AS APPLICABLE.
1 DAY	REMOVE ALL EROSION CONTROL STRUCTURES.
1 DAY	REMOVE ACCUMULATED SILT FROM ALL EXISTING DRAINAGE.

**CONTROLS & MEASURES NARRATIVE**

ACTIVITY	DESCRIPTION
MAINTAIN LANDSCAPING, REPLACE MULCH	COLLECT GRASS, TREE, AND SHRUB CLIPPINGS. DISPOSE IN APPROVED CONTAINER. REPLACE DEAD SOD, TREES AND SHRUBS.
CLEAN INLETS	REMOVE LITTER, SEDIMENT, AND DEBRIS. DISPOSE OF IN APPROVED LANDFILL.
COLLECT LITTER	DISPOSE OF WITH INLET DEBRIS.
SWEEP PARKING LOT	REMOVE MUD, DIRT, GREASE AND OIL WITH PERIODIC SWEEPING
DUST CONTROL	SPRINKLE WATER AS NEEDED

**CONTROLS & MEASURES POST CONSTRUCTION SEQUENCE**

ACTIVITY	WEEKLY	MONTHLY	AS REQUIRED
MAINTAIN LANDSCAPING, REPLACE MULCH	X	X	X
CLEAN INLETS		X	X
COLLECT LITTER	X		X
SWEEP PARKING LOT		X	X

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**BEBOSS Engineering**  
 Engineers Surveyors Planners Landscape Architects  
 3121 E. GRAND RIVER AVE.  
 HOWELL, MI. 48843  
 517.546.4836 FAX 517.548.1670

PROJECT: LIVINGSTON COUNTY EMS - COHOCTAH SUBSTATION

PREPARED FOR: LINDHOUT ASSOCIATES AIA, PC  
 10465 CITATION DRIVE  
 BRIGHTON, MI 48116  
 810.227.5668

TITLE: SOIL EROSION & SEDIMENTATION CONTROL PLAN

DESIGNED BY:	DATE
ST	

DRAWN BY:	DATE
MJD	

CHECKED BY:	DATE

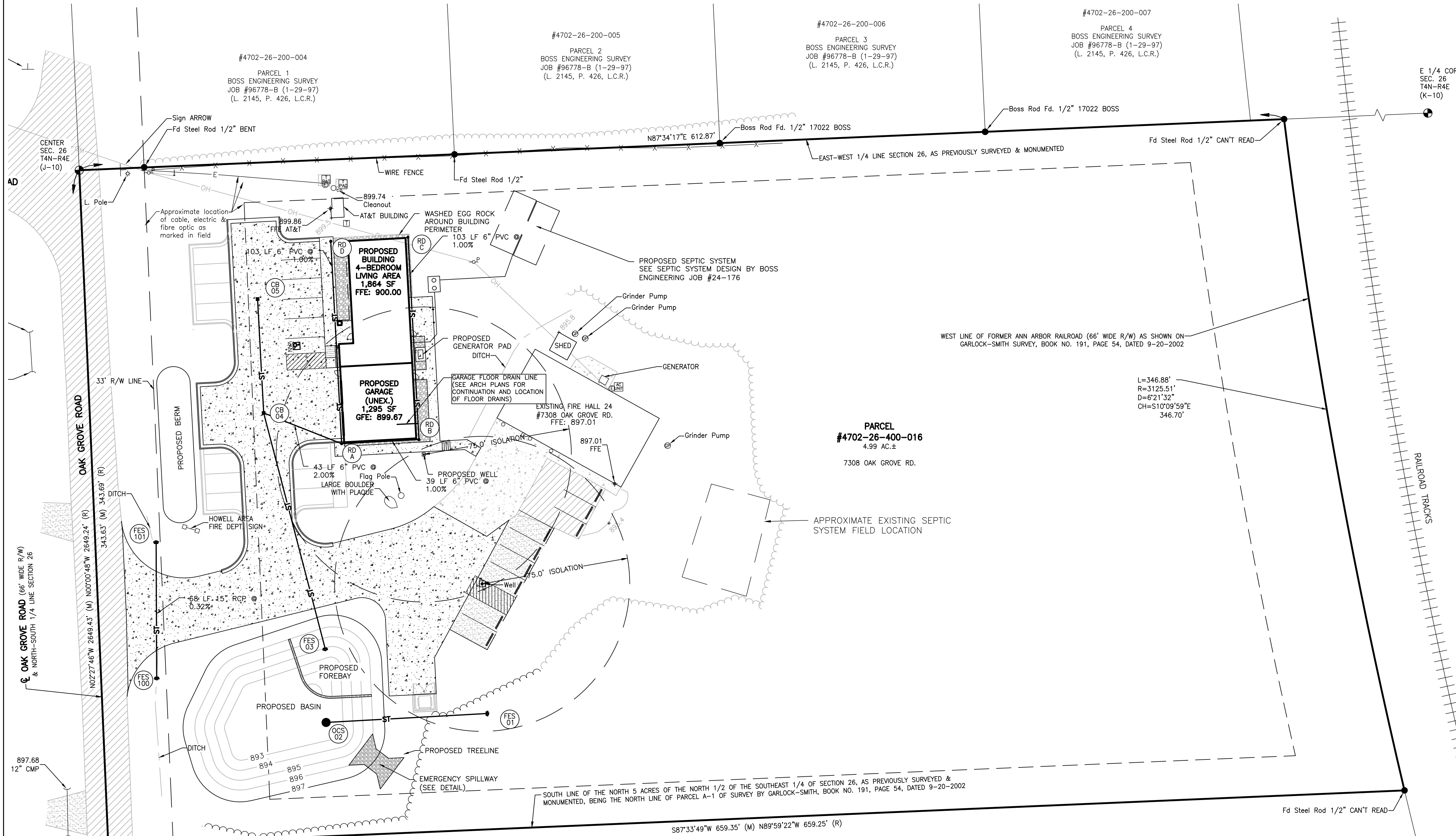
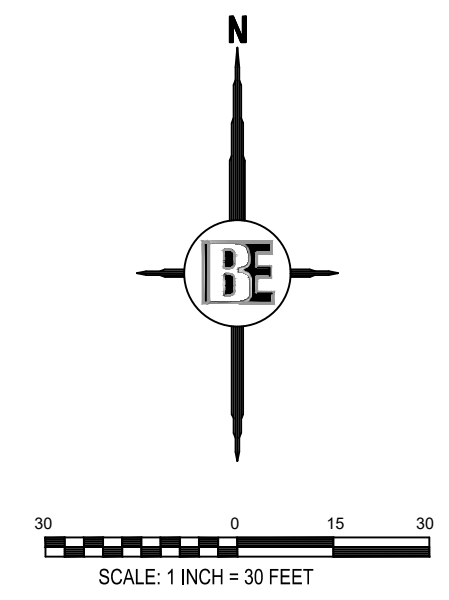
SCALE: 1" = 20'

JOB NO: 24-176

DATE: 9/10/2024

SHEET NO. 6

SEE SHEET 2 FOR GENERAL NOTES AND LEGEND



**100-YEAR PIPE FLOW CALCULATION FOR OCS**

FROM	TO	DRAIN AREA	ACRES	RUNOFF COEFF	EQUIV. AREA A * C	INTEN-SITY I	TIME OF CONC. T <sub>c</sub>	ADD'L RUNOFF Q	RUNOFF (CFS) Q	PIPE LENGTH (LF)	PIPE DIA. (IN)	VELOCITY FLOWING FULL (FPS)	HYDRAULIC GRADIENT SLOPE %	ACTUAL SLOPE USED	MANNING COEFFICIENT	MANNING FLOW CAPACITY	MANNING'S VELOCITY (FT/SEC)	TIME (MIN)	HG ELEV UPPER END	HG ELEV LOWER END	RIM ELEV <sup>1</sup> UPPER END	RIM ELEV <sup>2</sup> LOWER END	INVERT UPPER END	INVERT LOWER END
C	B	C	0.04	0.90	0.03	4.38	15.00	0.15	103	6	2.01	0.49%	1.00%	0.013	0.56	2.87	0.60	897.49	896.46	900.00	900.00	897.09	896.06	
B	A	B	-	-	-	-	15.60	0.15	0.30	39	6	2.55	0.79%	1.00%	0.013	0.56	2.87	0.23	896.46	896.06	900.00	900.00	896.06	895.66
A	4	A	-	-	-	-	15.83	-	0.30	43	6	3.24	1.28%	2.00%	0.013	0.80	4.05	0.18	896.06	895.21	900.00	898.55	895.66	894.81
5	4	5	0.19	0.60	0.11	4.38	15.00	0.50	0.50	58	12	1.80	0.16%	0.32%	0.013	2.02	2.57	0.38	895.40	895.21	898.35	898.55	894.60	894.41
4	3	4	0.17	0.74	0.13	4.33	15.38	0.30	1.36	129	12	2.38	0.27%	0.32%	0.013	2.02	2.57	0.83	895.21	894.80	898.55	-	894.41	894.00
D	A	D	0.04	0.90	0.03	4.38	15.00	0.15	103	6	2.01	0.49%	1.00%	0.013	0.56	2.87	0.60	897.09	896.06	900.00	900.00	896.69	895.66	
2	1	ALL	0.73	0.58	0.42674	6.14	15.83	2.62	81	12	3.34	0.54%	0.32%	0.013	2.02	2.57	0.53	893.98	893.54	895.00	-	893.00	892.74	

THE LOCATION AND ELEVATION OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE DRAWINGS ARE ONLY APPROXIMATE. NO GUARANTEE IS MADE FOR THE ACCURACY OF THESE UTILITIES. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT LOCATION AND ELEVATION OF EXISTING UTILITIES CROSSINGS IN THE FIELD PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF UTILITIES FROM THE PLANS.

BE ENGINEERING AND SURVEYING  
CALL M55 DIG  
1-800-848-4848  
www.be-engineering.com

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Engineers Surveyors Planners Landscape Architects  
3121 E. GRAND RIVER AVE.  
HOWELL, MI. 48843  
517.546.4836 FAX 517.548.1670

PROJECT: LIVINGSTON COUNTY EMS - COHOCTAH SUBSTATION  
PREPARED FOR: LINDHOUT ASSOCIATES AIA, PC  
10462 CITATION DRIVE  
BRIGHTON, MI 48116  
810.227.5668

TITLE: UTILITY PLAN

NO	BY	DATE	REVISION	PER

DESIGNED BY: ST  
DRAWN BY: MJD  
CHECKED BY: [Signature]  
SCALE: 1" = 30'  
JOB NO: 24-176  
DATE: 9/10/2024  
SHEET NO. 7

**BOSS**  
Engineering

SEE SHEET 2 FOR GENERAL NOTES AND LEGEND

**LIVINGSTON COUNTY DETENTION BASIN CALCULATIONS**

AREA (ACRES)	IMPERVIOUS FACTOR	ACRE IMPERVIOUS
0.40	0.9	0.36
0.00	0.7	0.00
0.33	0.2	0.07

COMPOUND C: 0.58  
 TOTAL DRAINAGE AREA: 0.73 ACRES

**WATER QUALITY VOLUME V<sub>WQ</sub>**  
 $V_{WQ} = 3.630(C)(A) = 1537 \text{ FT}^3$   
 Are upstream infiltration BMP's provided? No  
 $V_p = 0.15(V_{WQ}) = 231 \text{ FT}^3$

**WATER QUALITY RATE FOR MECHANICAL STRUCTURE**  
 $T_c = \text{MAX TIME OF CONCENTRATION} = 15.83 \text{ MIN}$   
 $Q_{WQ} = (C)(A)(30.2 / (T_c + 9.17))^{0.81} = 0.94 \text{ CFS}$

**CHANNEL PROTECTION VOLUME CONTROL - REQUIRED**  
 $V_{CP-R} = 4.719(C)(A) = 1998 \text{ FT}^3$

**CHANNEL PROTECTION VOLUME CONTROL - PROVIDED**  
 In-Situ Infiltration rate = 1 IN/HR  
 Are upstream infiltration BMP's provided? No  
 Basin Footprint Infiltration Area Required = 799 FT<sup>2</sup>  
 $V_{CP-P} = 0 \text{ FT}^3$

**CHANNEL PROTECTION RATE CONTROL (EXTENDED DETENTION VOLUME)**  
 $V_{ED} = 6.897(C)(A) = 2920 \text{ FT}^3$

**EXTENDED DETENTION OUTLET RATE**  
 $Q_{ED} = V_{ED} / (48 \text{ hr}) = 0.017 \text{ CFS}$   
 $H_{ED} = V_{ED} / (4,800 (H)^{1.486}) = 1.0 \text{ 1" HOLES}$   
 H = 3.00 FT  
 ELEV<sub>ED</sub> = 895.15 FT

**100-YEAR ALLOWABLE OUTLET RATE**

$Q_{DRAIN} = \text{Restricted Drain Rate} = 0.1 \text{ CFS/ACRE}$   
 $Q_{VIR} = 1.1055 - 0.206 \ln(A) = 1.000 \text{ CFS/ACRE}$   
 $Q_{100P} = (\text{LESSER OF } Q_{DRAIN} \text{ \& } Q_{VIR})^A = 0.073 \text{ CFS}$

CONTACT LIVINGSTON COUNTY DRAIN COMMISSION FOR ALLOWABLE RELEASE RATE

**100-YEAR DETENTION VOLUME**

$V_{100R} = 18985 (C)(A) = 8038 \text{ FT}^3$   
 $Q_{100IN} = (C)(A)(83.3 / (T_c + 9.17))^{0.81} = 2.80 \text{ CFS}$   
 $R = 0.206 - 15 \ln(Q_{100IN} / Q_{100P}) = 0.7420$   
 $V_{100D} = V_{100R} - R \cdot V_{CP-P} = 5964 \text{ FT}^3$   
 Is  $V_{100D} \geq V_{ED}$ ? YES  
 $V_{100D} = 5964 \text{ FT}^3$

**FOREBAY STORAGE VOLUME PROVIDED:**

ELEVATION	AREA	VOLUME	TOTAL VOLUME	DHWL
896	1130	972	2,105	DHWL
895	814	1,133	1,133	
894	545	681	681	BOTTOM OF STORAGE
893	319	0	0	SUMP
892	136	0	0	SUMP
891	21	0	0	SUMP

**BASIN STORAGE PROVIDED**

ELEVATION	AREA (FT <sup>2</sup> )	DEPTH (FT)	VOLUME (FT <sup>3</sup> )	TOTAL VOLUME (FT <sup>3</sup> )	DESCRIPTION
897	6467	1	5,254	11,767	FREEBOARD
896	4040	1	3,797	6,513	DHWL
895	3553	1	2,717	2,717	
894	2663	1	1,332	1,332	
893	1880	0	0	0	BOTTOM OF STORAGE

PROVIDED FOOTPRINT OF BASIN BOTTOM AREA: 1880 FT<sup>2</sup>

**OUTLET CONTROL STRUCTURE**

$Q_{ED} \text{ ACTUAL} = 1 \text{ (1" HOLES)}$   
 $A_{ED} = 0.0055 \text{ FT}^2$   
 $Q_{ED-ACTUAL} = (A_{ED})(0.62 \times (2 \times 32.2 \times h)^{0.5}) = 0.047 \text{ CFS}$

**100ALL OUTLET**  
 $Q_{100-ACTUAL} = Q_{100P} - Q_{ED-ACTUAL} = 0.026 \text{ CFS}$   
 $A_{100} = Q_{100-ACTUAL} / (0.62 \times (2 \times 32.2 \times (ELEV_{DHWL} - ELEV_{ED}))^{0.5}) = 0.006 \text{ FT}^2$   
 AREA OF 1 INCH DIAMETER ORIFICE = 0.005 FT<sup>2</sup>  
 # ORIFICES =  $A_{100} / 0.005 = 1.0$  ORIFICES

**OVERFLOW SPILLWAY DESIGN**

Design Flow Rate:  $Q_{100IN} = 2.80 \text{ CFS}$   
 Depth of Spillway:  $D_{SPILL} = 6 \text{ INCHES}$   
 Width of Spillway:  $W_{SPILL} = Q_{100IN} / (3.33 D_{SPILL}^{3/2}) = 2.2 \text{ FT}$

**BASIN DESIGN SUMMARY**

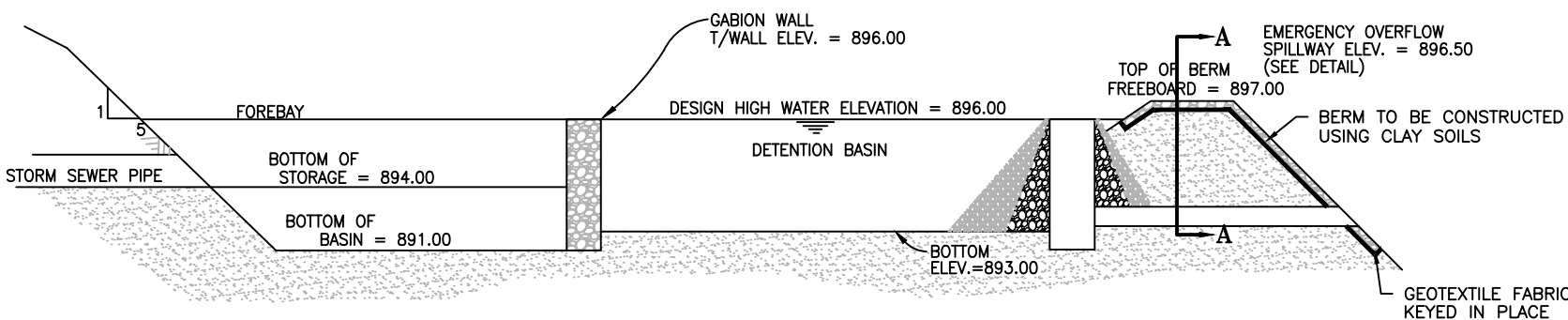
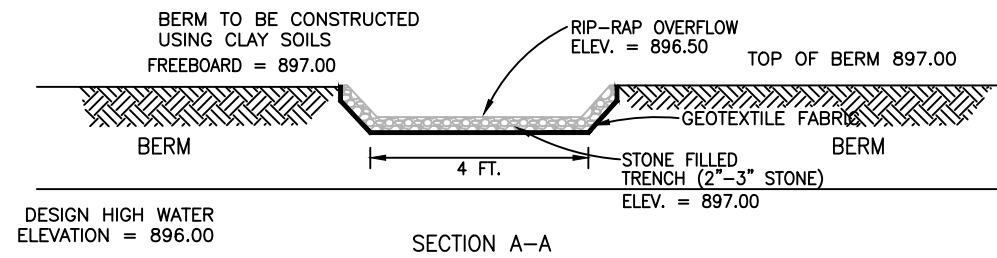
FOREBAY SIZE REQUIRED =	1537 FT <sup>3</sup>
FOREBAY SIZE PROVIDED =	2105 FT <sup>3</sup>
BASIN SIZE REQUIRED =	5964 FT <sup>3</sup>
BASIN SIZE PROVIDED =	6,513 FT <sup>3</sup>

**ORIFICE DESIGN SUMMARY**

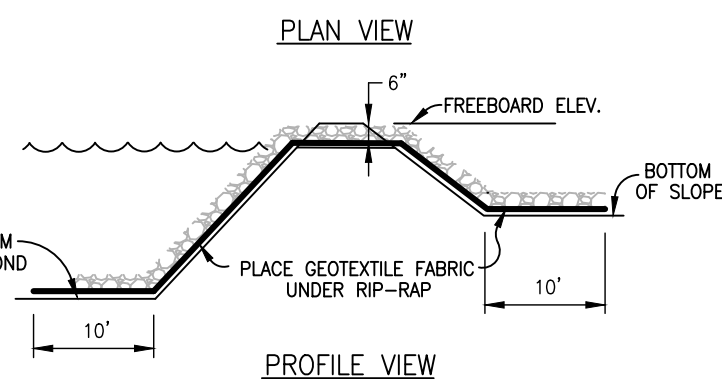
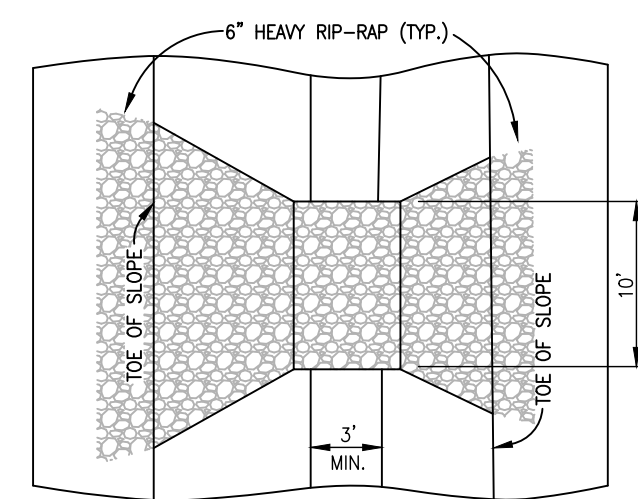
ELEVATION	# OF HOLES	DIAMETER OF HOLES
893.00	1.0	1-INCH
895.15	1.0	1-INCH

**OVERFLOW SPILLWAY SUMMARY**

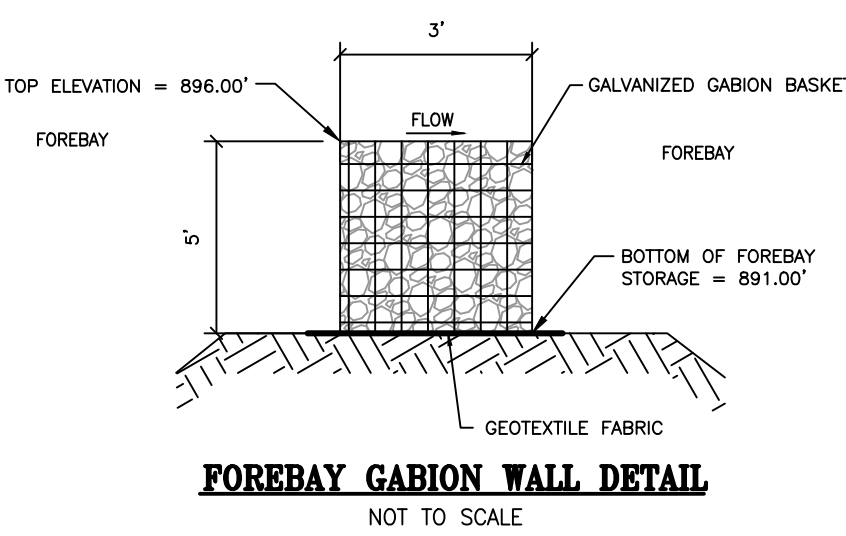
WIDTH OF OVERFLOW SPILLWAY = 3 FT



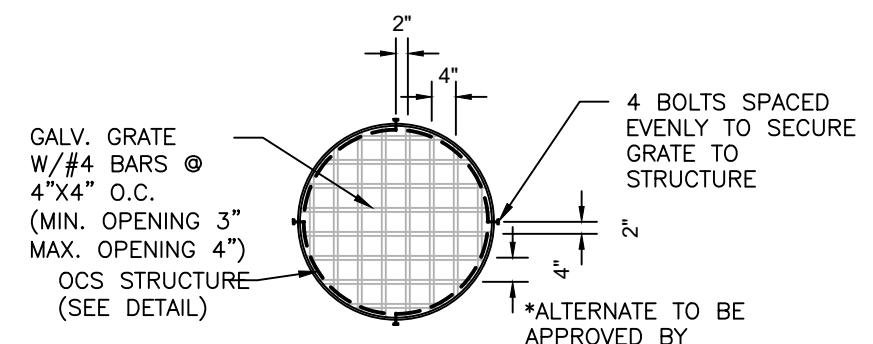
DETENTION BASIN CROSS SECTION NOT TO SCALE



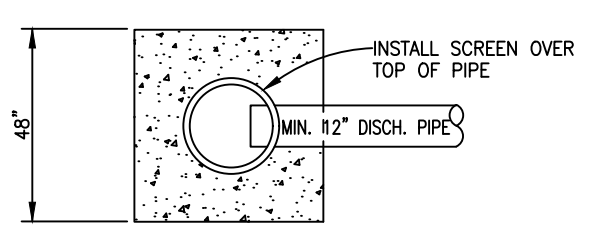
EMERGENCY SPILLWAY DETAIL NO SCALE



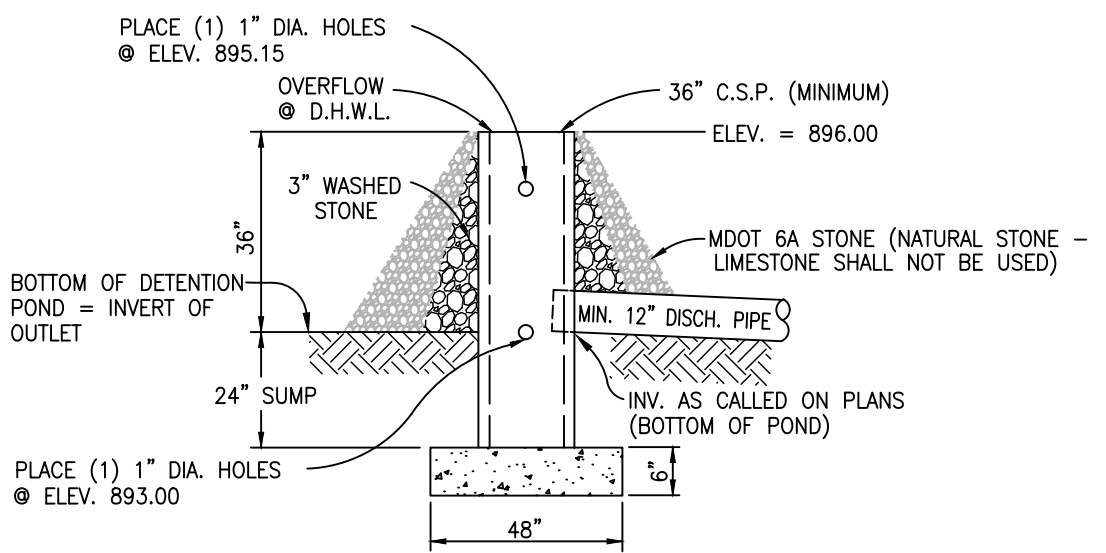
FOREBAY GABION WALL DETAIL NOT TO SCALE



OUTLET CONTROL STRUCTURE GRATE (NO SCALE)

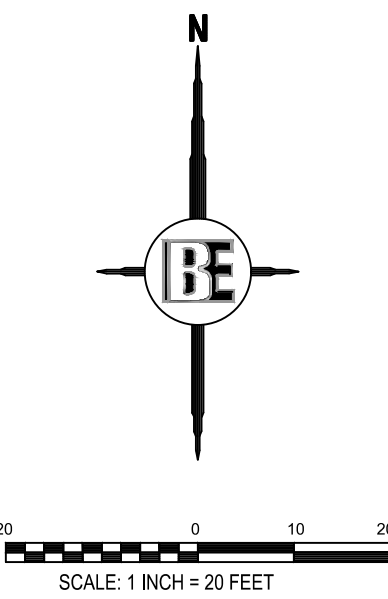
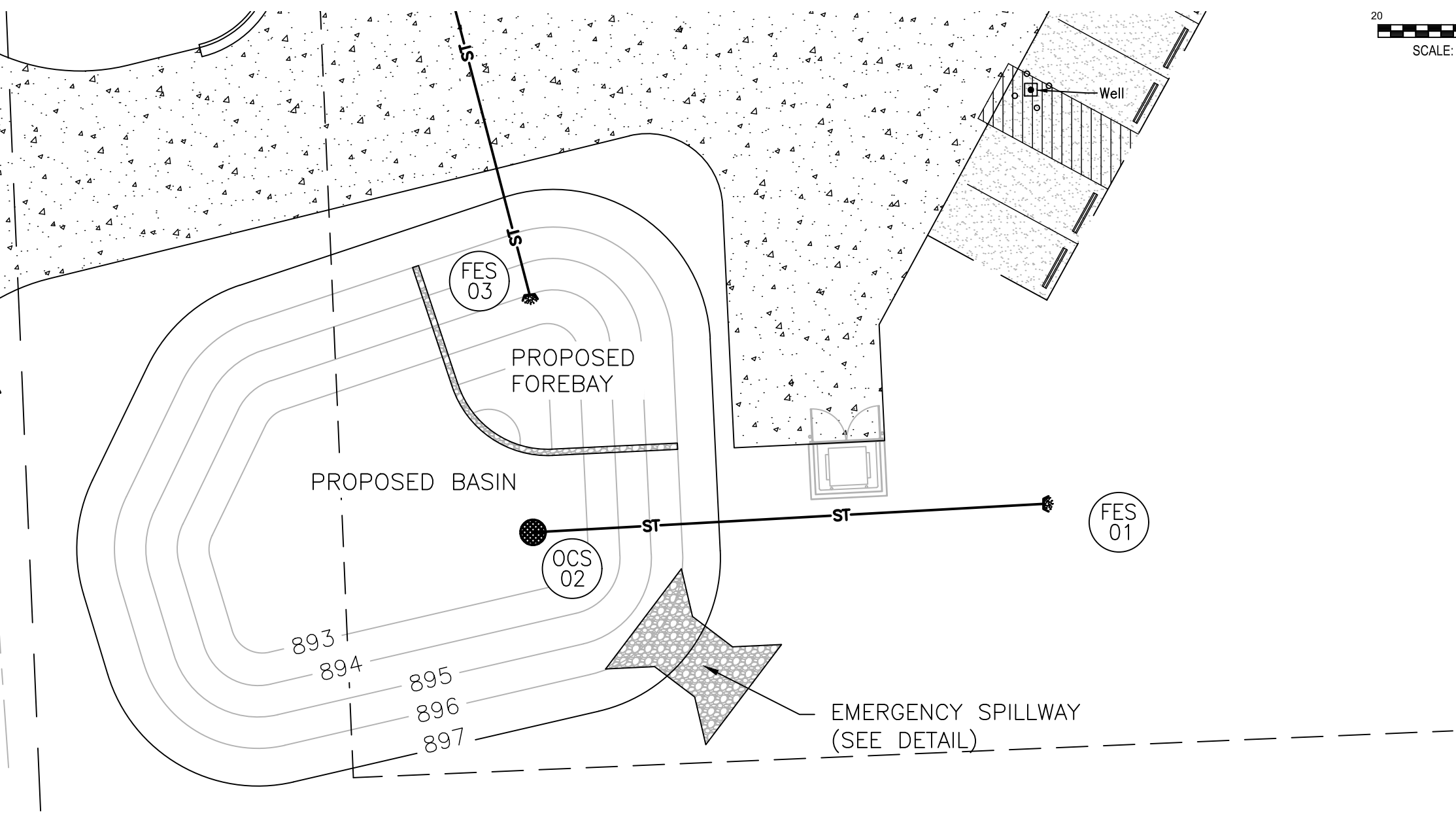


PLAN NOTE: SET PIPE IN CONCRETE



PROFILE NOTE: UPON COMPLETION OF CONSTRUCTION STONE AROUND THE STRUCTURE SHALL BE REFRESHED WITH CLEAN STONE.

**LCDL DETENTION/SEDIMENTATION POND OUTLET CONTROL STRUCTURE (NO SCALE)**



THE LOCATION AND ELEVATION OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE DRAWINGS ARE ONLY APPROXIMATE. NO LIABILITY SHALL BE ASSUMED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OR BIRTH OF ANY UTILITIES THAT ARE NOT SHOWN ON THESE DRAWINGS.

BEFORE ANY DIGGING OR CONSTRUCTION, CALL MISS DIG AT 1-800-487-7171.

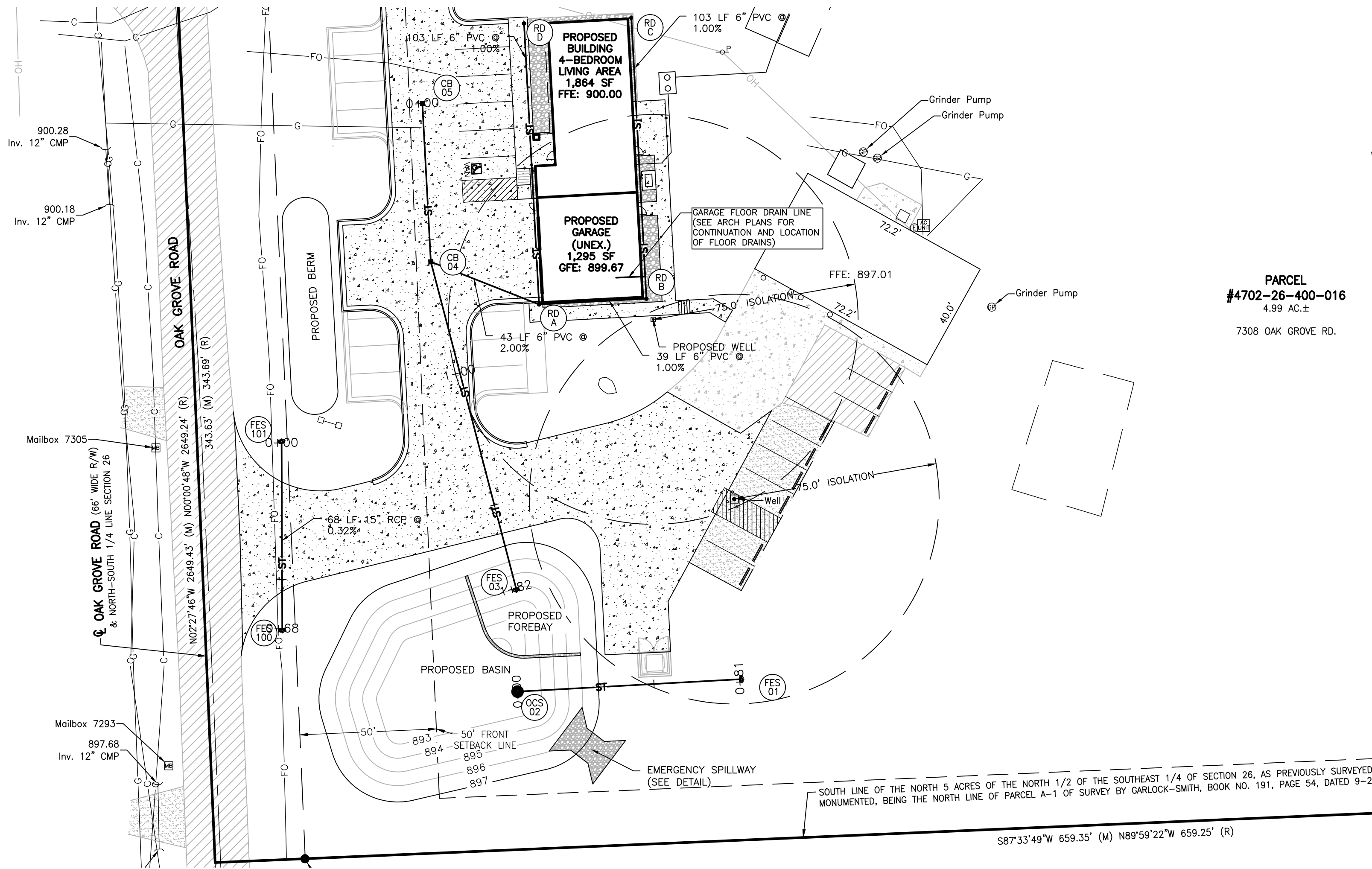
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 Engineers Surveyors Planners Landscape Architects  
 3121 E. GRAND RIVER AVE.  
 HOWELL, MI. 48843  
 517.546.4836 FAX 517.548.1670

PROJECT: **LIVINGSTON COUNTY EMS - COHOCTAH SUBSTATION**  
 PREPARED FOR: **LINDHOUT ASSOCIATES AIA, PC**  
 10465 CITATION DRIVE  
 BRIGHTON, MI 48116  
 810.227.5668

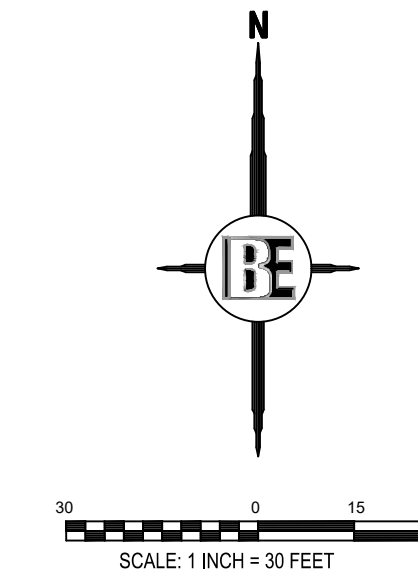
NO.	BY	DATE	REVISION

DESIGNED BY: ST  
 DRAWN BY: MJD  
 CHECKED BY: [Signature]  
 SCALE: 1" = 20'  
 JOB NO: 24-176  
 DATE: 9/10/2024



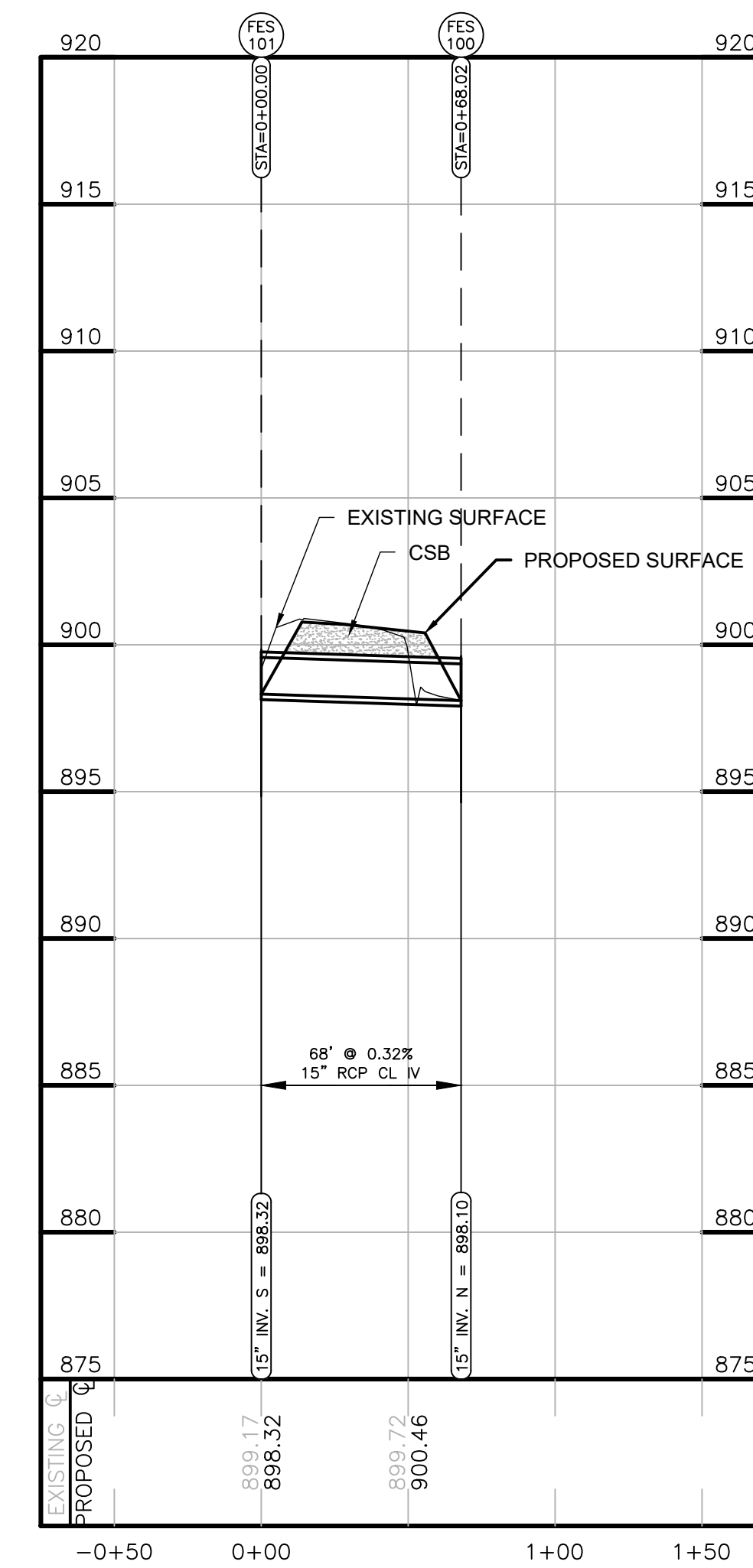
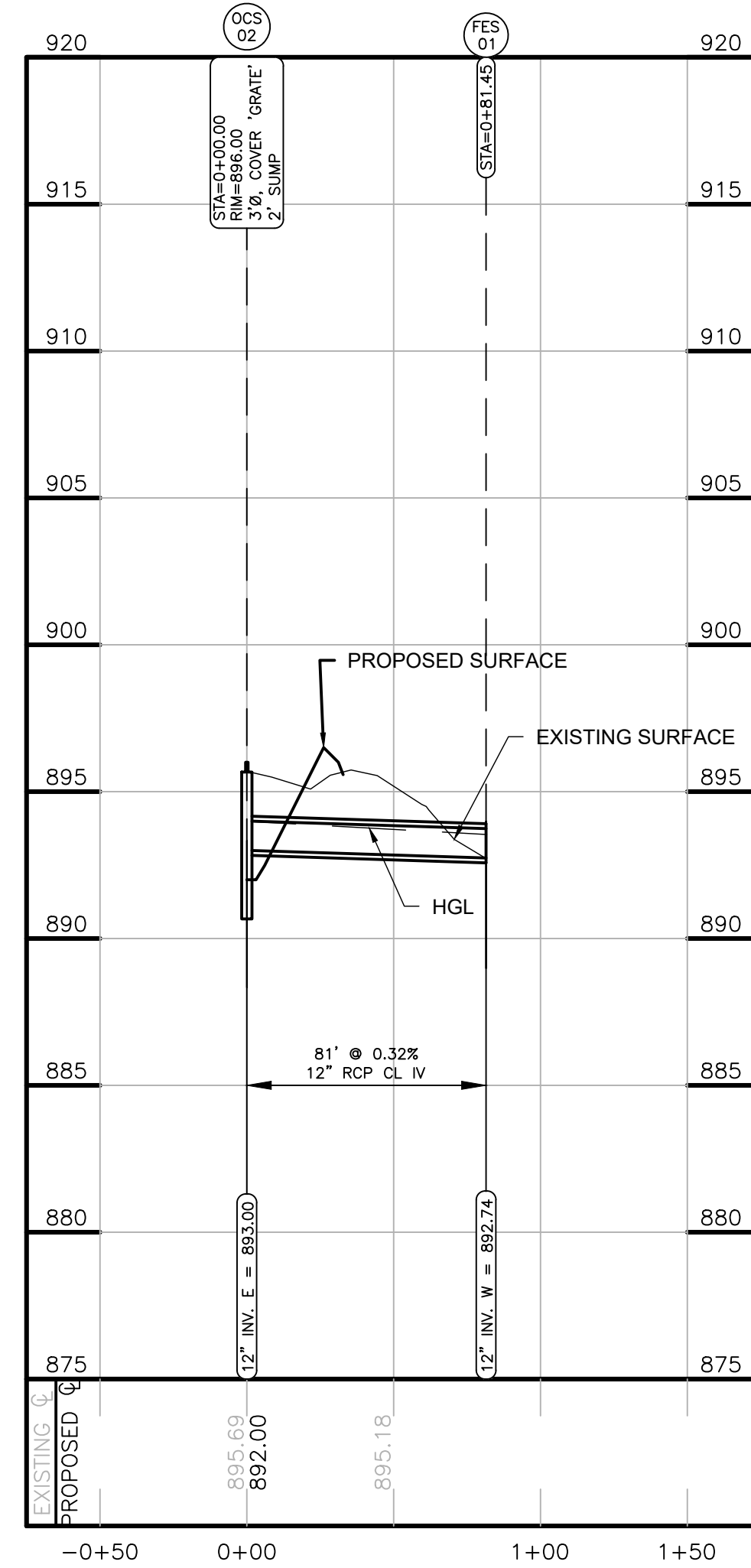
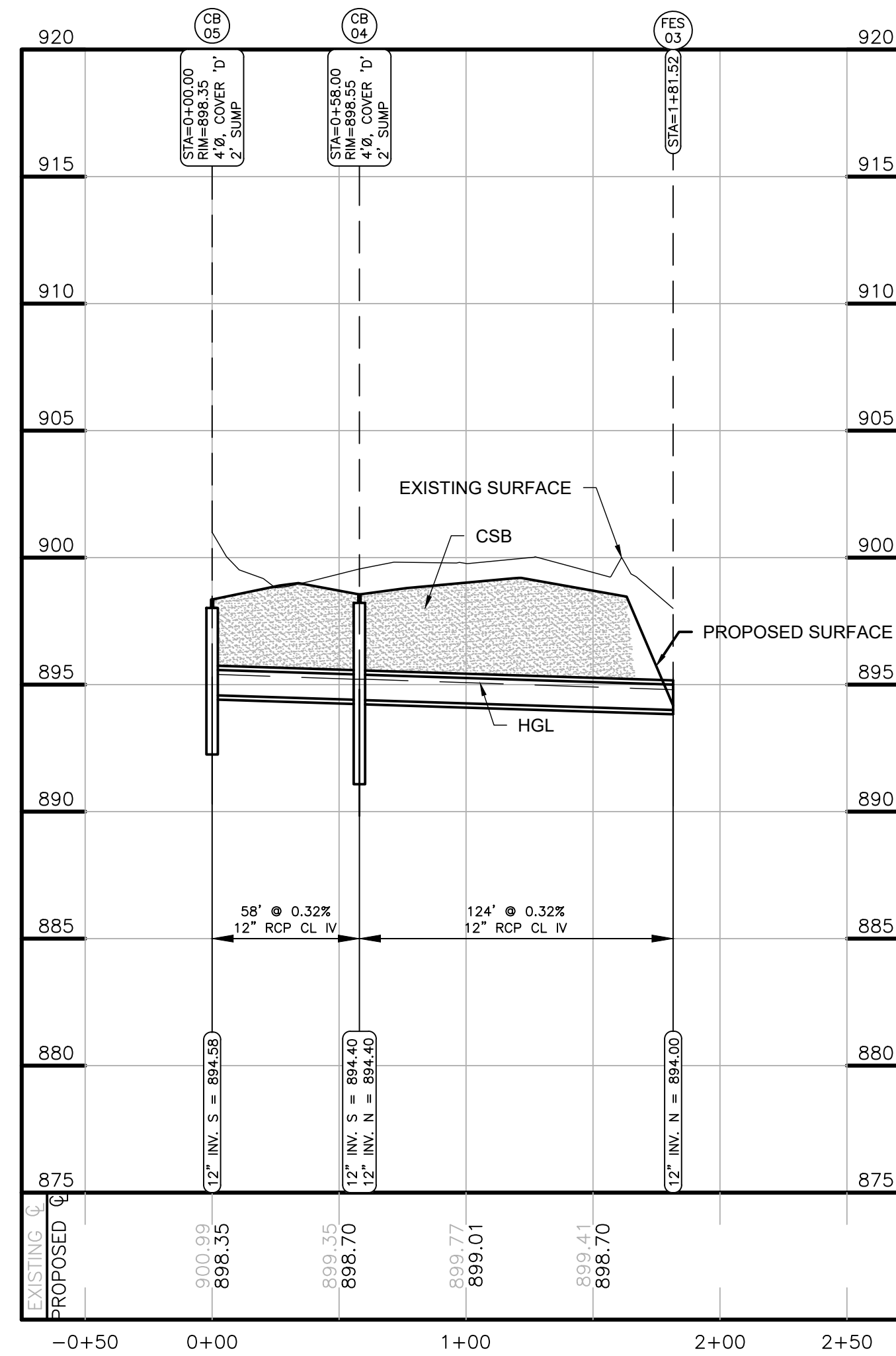


SEE SHEET 2 FOR GENERAL NOTES AND LEGEND



THE LOCATION AND ELEVATION OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE DRAWINGS ARE ONLY APPROXIMATE. NO RESPONSIBILITY IS ASSUMED BY THE ENGINEER FOR THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE TO UTILITIES APPARENT OR IF THE LOCATION OR DEPTH DIFFERS SIGNIFICANTLY FROM THE PLANS.

BE ENGINEERING, INC.  
CALL MESS DIG  
1-800-942-8277  
www.be-engineering.com



SCALE: 1" = 5' (VERT)  
1" = 50' (HORIZ)

COHOCTAH EMS SUB STATION

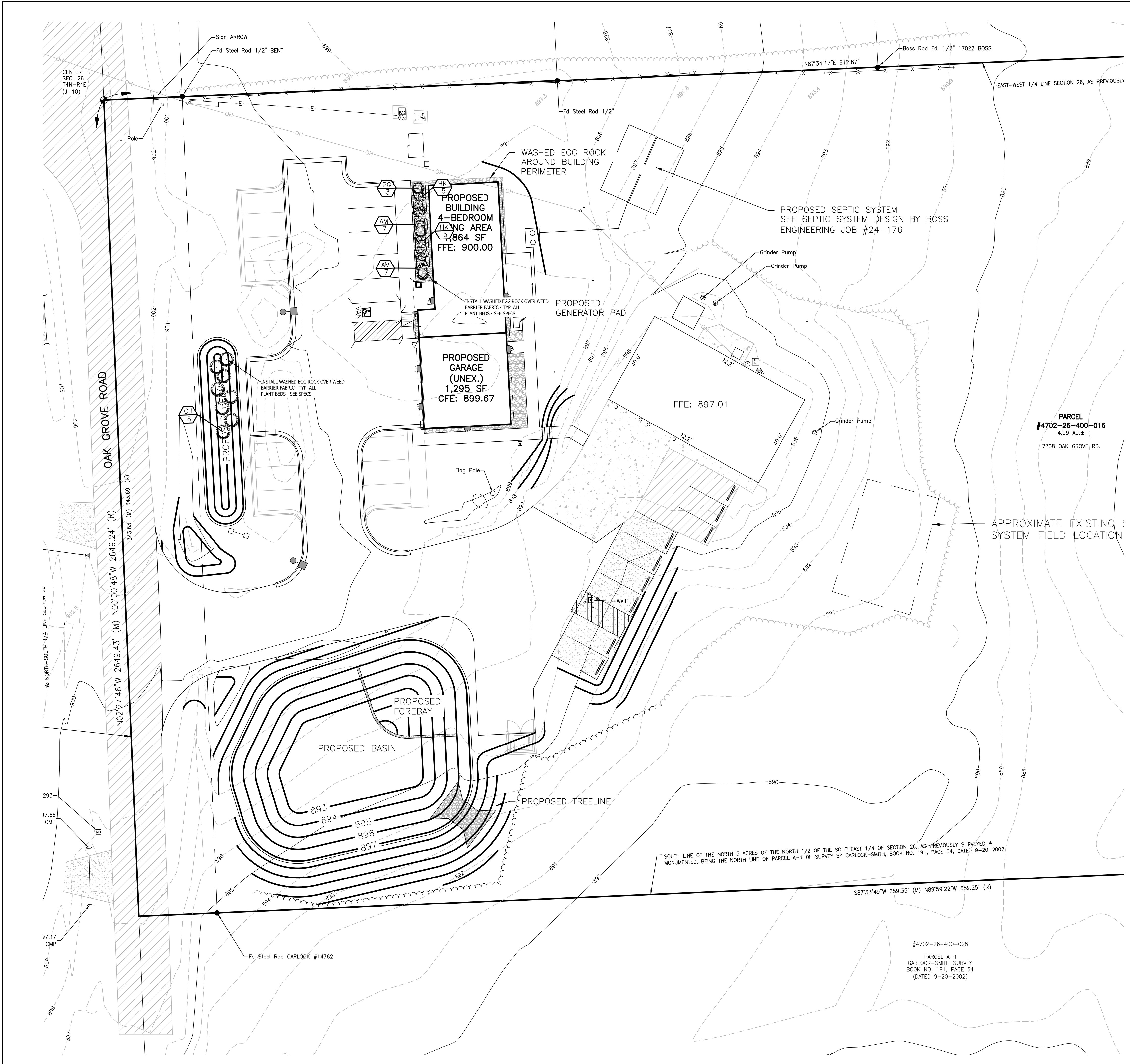
LINDHOUT ASSOCIATES AIA, PC  
10462 CITATION DRIVE  
BRIGHTON, MI 48116  
810-227-5668

PROJECT  
PREPARED FOR

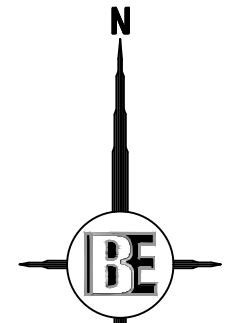
TITLE  
STORM PLAN & PROFILE

NO	BY	REVISION	PER	DATE

DESIGNED BY: ST  
DRAWN BY: MJD  
CHECKED BY:  
SCALE: 1" = 30'  
JOB NO: 24-176  
DATE: 06/04/2024  
SHEET NO.



SEE SHEET 2 FOR GENERAL NOTES AND LEGEND



SCALE: 1 INCH = 20 FEET

ZONING: SR, SUBURBAN RESIDENTIAL

ADJACENT ZONING  
NORTH: SR, SUBURBAN RESIDENTIAL  
EAST: SR, SUBURBAN RESIDENTIAL  
SOUTH: SR, SUBURBAN RESIDENTIAL  
WEST: SR, SUBURBAN RESIDENTIAL

**PLANT LIST**

KEY	QUAN.	BOTANICAL NAME	COMMON NAME	SIZE	REMARK
<b>DECIDUOUS SHRUBS</b>					
AM	14	Aronia melanocarpa 'UCONNAM165'	Low Scape Mound Aronia	24" ht./#3	Cont.
HP	10	Hypericum prolificum	Shrubby St. Johnswort	24" ht./#3	Cont.
<b>EVERGREEN SHRUBS</b>					
PG	3	Picea glauca 'Conica'	Dwarf Alberta Spruce	24" ht./#3	Cont.
CH	8	Cephalotaxus harringtonia 'Fastigiata'	Upright Japanese Plum Yew	24" ht./#3	Cont.

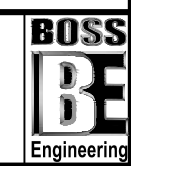
THE LOCATION AND ELEVATION OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE DRAWINGS ARE ONLY APPROXIMATE. NO CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION AND ELEVATION OF UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE EXCLUDED FROM THE FIELD PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION AND ELEVATION OF UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION AND ELEVATION OF UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION AND ELEVATION OF UTILITIES PRIOR TO CONSTRUCTION.

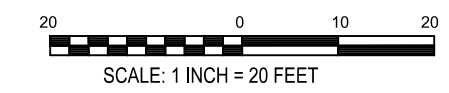
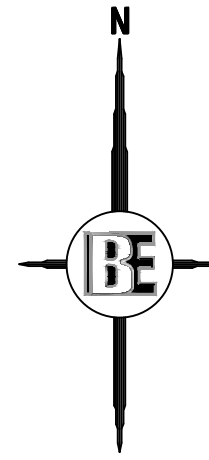
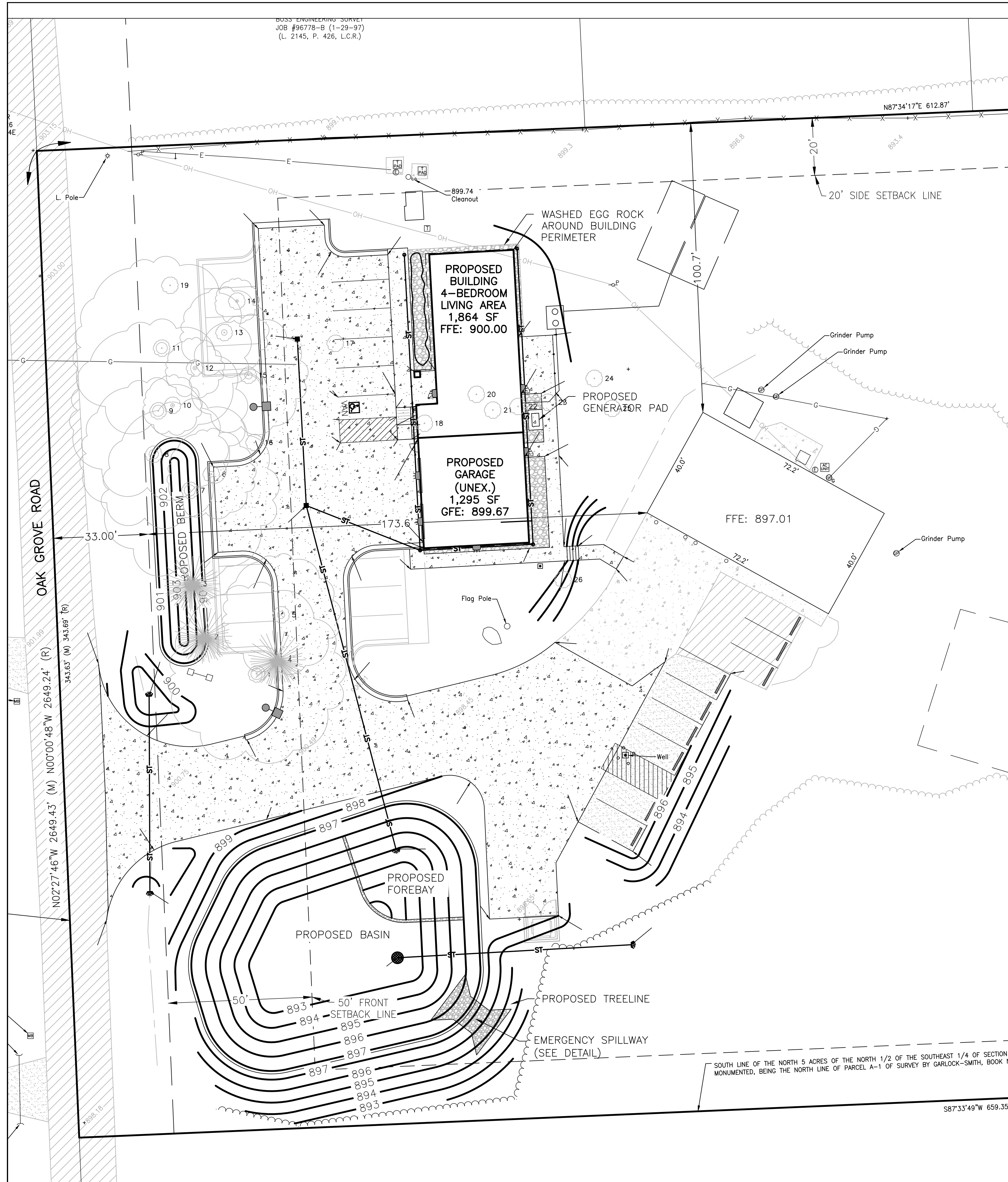
BE BOSS Engineering  
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1-800-962-4836  
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3121 E. GRAND RIVER AVE.  
HOWELL, MI. 48843  
517.546.4836 FAX 517.548.1670

PROJECT: COHOCTAH EMS SUB STATION  
PREPARED FOR: LINDHOUT ASSOCIATES AIA, PC  
10465 CITATION DRIVE  
BRIGHTON, MI 48116  
810.227.5668  
TITLE: LANDSCAPE PLAN

NO	BY	REVISION PER	DATE
DESIGNED BY:	TC		
DRAWN BY:	TC		
CHECKED BY:	PC		
SCALE:	1" = 20'		
JOB NO:	24-176		
DATE:	06/04/2024		
SHEET NO.	10		





TREE INVENTORY

Tree #	Botanical Name	Common Name	Dia.	Type	Other Dia.	Condition	
1	Quercus alba	White Oak	30	Deciduous		Good	
2	Pinus sylvestris	Scotch Pine	10	Coniferous		Good	TBR
3	Pinus sylvestris	Scotch Pine	8	Coniferous		Good	TBR
4	Pinus sylvestris	Scotch Pine	10	Coniferous		Good	TBR
5	Prunus serotina	Black Cherry	17	Deciduous		Good	
6	Carya cordiformis	Bitternut Hickory	12	Deciduous	13	Good	TBR
7	Quercus alba	White Oak	28	Deciduous		Good	TBR
8	Quercus alba	White Oak	16	Deciduous		Good	
9	Quercus alba	White Oak	26	Deciduous		Good	
10	Carya ovata	Shagbark Hickory	13	Deciduous		Good	
11	Quercus rubra	Red Oak	24	Deciduous		Good	
12	Quercus rubra	Red Oak	11	Deciduous		Good	
13	Prunus serotina	Black Cherry	16	Deciduous		Good	
14	Prunus serotina	Black Cherry	13	Deciduous		Good	
15	Quercus alba	White Oak	13	Deciduous		Good	
16	Quercus rubra	Red Oak	26	Deciduous		Good	TBR
17	Cornus florida	Flowering Dogwood	12	Deciduous		Good	TBR
18	Quercus rubra	Red Oak	19	Deciduous		Good	TBR
19	Carya ovata	Shagbark Hickory	14	Deciduous		Good	TBR
20	Quercus alba	White Oak	12	Deciduous		Good	TBR
21	Carya cordiformis	Bitternut Hickory	8	Deciduous		Good	TBR
22	Carya ovata	Shagbark Hickory	9	Deciduous		Good	TBR
23	Ulmus americana	American Elm	16	Deciduous		Good	TBR
24	Carya ovata	Shagbark Hickory	10	Deciduous		Good	
25	Prunus serotina	Black Cherry	12	Deciduous		Good	
26	Cornus florida	Flowering Dogwood	9	Deciduous		Good	TBR

NATURAL FEATURES NARRATIVE  
 THE AREA BETWEEN THE ROAD AND THE EXISTING FIRE HALL CONSISTS OF BERMS CROSSING BETWEEN DECIDUOUS CANOPY TREES (OAKS, HICKORIES, AND SOME BLACK CHERRY.) FORBS ARE LIMITED (A FEW GOLDENROD, HEART-LEAVED ASTER) WITH THE UNDERSTORY ON THE BERMS MAINLY BEING MOSS AND TURF. SHRUBS CONSISTED OF GOOSEBERRY, AUTUMN OLIVE, AND HONEYSUCKLE.

THE LOCATION AND ELEVATION OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE DRAWINGS ARE ONLY APPROXIMATE. NO BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION, DEPTH, OR ELEVATION OF UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF UTILITIES PRIOR TO CONSTRUCTION.

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 3121 E. GRAND RIVER AVE.  
 HOWELL, MI. 48843  
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PROJECT: COHOCTAH EMS SUB STATION  
 PREPARED FOR: LINDHOUT ASSOCIATES AIA, PC  
 10462 CITATION DRIVE  
 BRIGHTON, MI 48116  
 810.227.5668  
 TITLE: NATURAL FEATURES PLAN

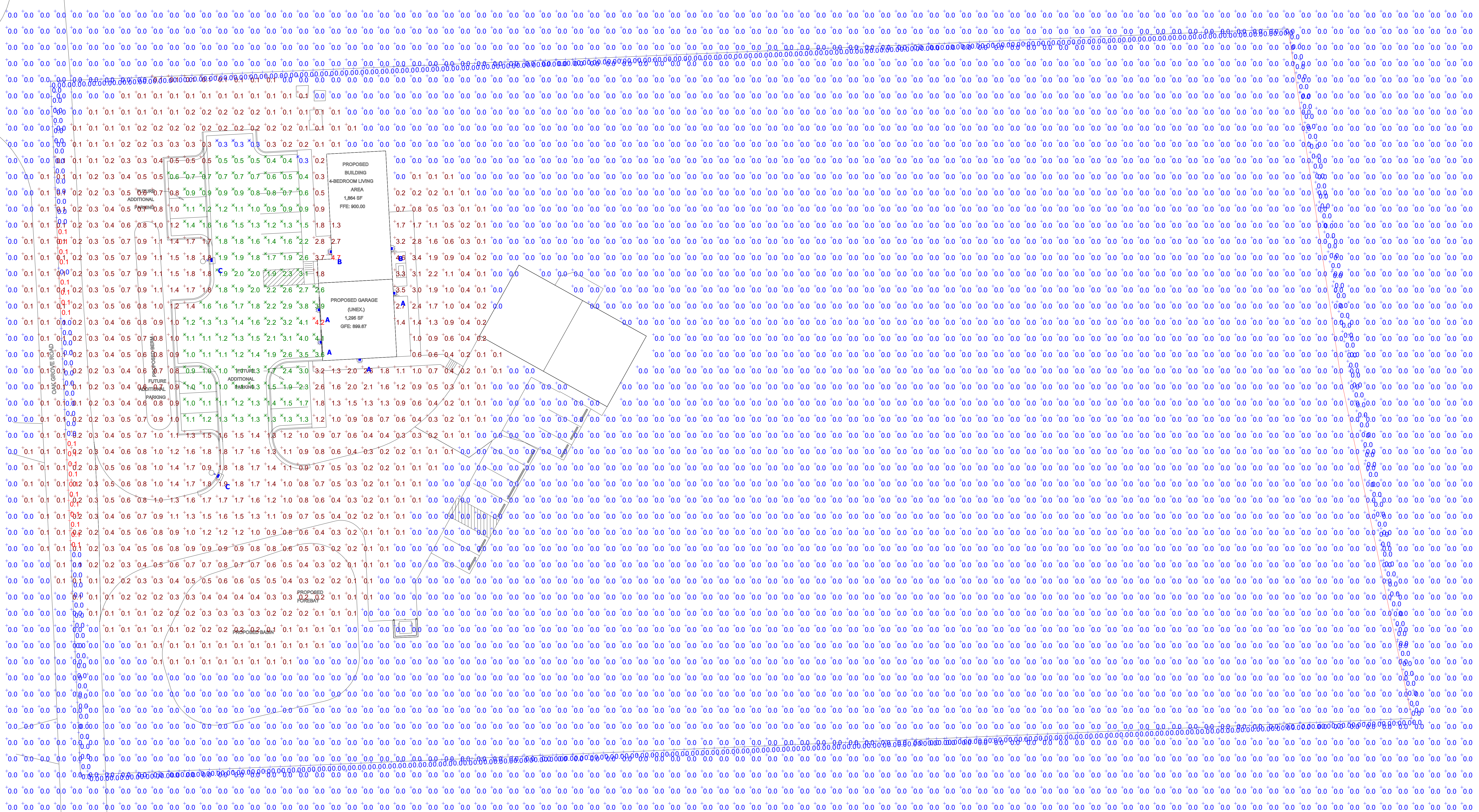
NO	BY	REVISION	PER	DATE

DESIGNED BY: TC  
 DRAWN BY: TC  
 CHECKED BY: PC  
 SCALE: 1" = 20'  
 JOB NO: 24-176  
 DATE: 06/04/2024  
 SHEET NO. 11









Plan View  
Scale: 1" = 20'

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Overall	+	0.1 fc	4.7 fc	0.0 fc	N/A	N/A
Proposed Parking	X	1.5 fc	4.2 fc	0.3 fc	14.0:1	5.0:1
Boundary	+	0.0 fc	0.1 fc	0.0 fc	N/A	N/A

Schedule									
Symbol	Label	QTY	Manufacturer	Catalog	Description	Lamp Output	LLF	Input Power	Mounting Height
⬜	A	4	Lithonia Lighting	WDGE2 LED P3 40K 70CRI T4M	WDGE2 LED WITH P3 - PERFORMANCE PACKAGE, 4000K, 70CRI, TYPE 4 MEDIUM OPTIC	3552	0.9	32,137	12'
⬜	B	2	Lithonia Lighting	WDGE2 LED P2 40K 70CRI T4M	WDGE2 LED WITH P2 - PERFORMANCE PACKAGE, 4000K, 70CRI, TYPE 4 MEDIUM OPTIC	2278	0.9	18,981	8'
⬜	C	2	Lithonia Lighting	RSX1 LED P3 40K R5	RSX Area Fixture Size 1 P3 Lumen Package 4000K CCT Type R5 Distribution	14396	0.9	109.44	20'

**General Note**  
 1. SEE SCHEDULE FOR LUMINAIRE MOUNTING HEIGHT.  
 2. SEE LUMINAIRE SCHEDULE FOR LIGHT LOSS FACTOR.  
 3. CALCULATIONS ARE SHOWN IN FOOTCANDLES AT: 0' - 0" & 5' - 0"

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

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

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

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

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

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

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

**RSX1 LED Area Luminaire**

**Specifications**  
 Efficacy: 0.57 W (0.055 W)  
 Length: 21.8" (554 mm)  
 Width: 13.7" (348 mm)  
 Height: 3.7" (94 mm)  
 Weight: 22.2 lbs (10.1 kg)

**Introduction**  
 The new RSX1 LED Area luminaire delivers maximum value by providing uniform average lighting, long life and consistent color rendering. The RSX1 delivers 1,000 to 17,000 lumens per fixture, depending on the fixture size and CCT.

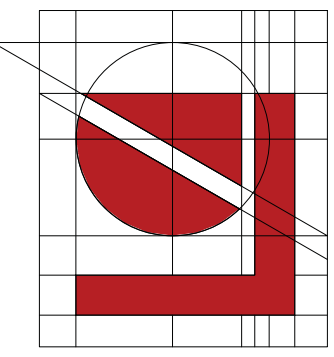
**Ordering Information**  
 EXAMPLE: RSX1 LED P4 40K R5 MVOLT SPA DBXDB

**WDGE2 LED Architectural Wall Source Precision Reflective Optic**

**Specifications**  
 Depth: 11.5"  
 Depth (D): 11.5"  
 Width: 11.5"  
 Height: 11.5"  
 Weight: 13.5 lbs

**Introduction**  
 The WDGE2 LED family of fixtures is designed to provide uniform, high-quality lighting for architectural applications. The WDGE2 LED family of fixtures is designed to provide uniform, high-quality lighting for architectural applications.

**Ordering Information**  
 EXAMPLE: WDGE2 LED P3 40K R5CIN T4M SVMT DBXDB



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Brighton, Michigan 48116-9510  
10465 Citation Drive, (810) 227-5668  
www.lindhout.com

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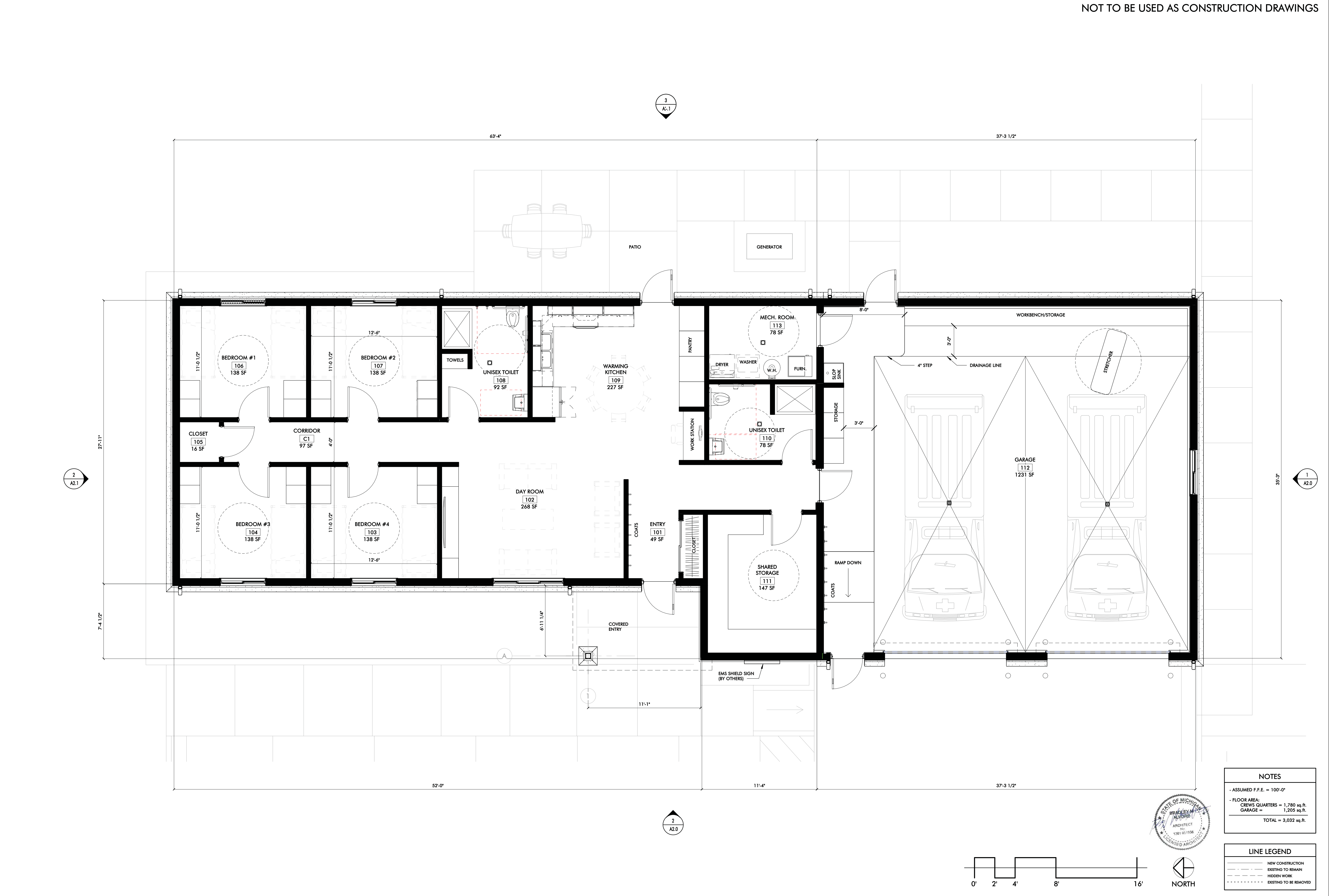
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DRAWN:	ALV TUB
CHECKED:	AAA
APP:	

COHOCTAH TWP. SUBSTATION FOR:  
**LIVINGSTON COUNTY EMS**  
7304 OAK GROVE RD., HOWELL, MI 48855  
**FLOOR PLAN**

A1.0  
24063

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2  
A2.1

1  
A2.0

3  
A-1

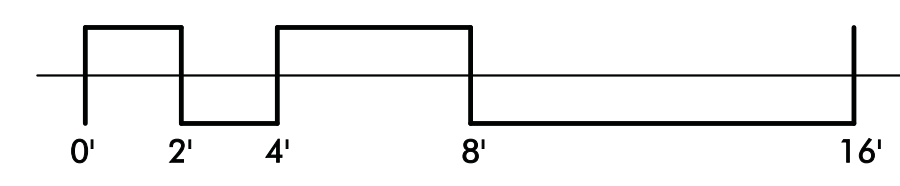
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**NOTES**

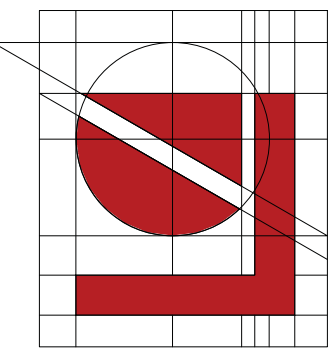
- ASSUMED F.F.E. = 100'-0"
- FLOOR AREA:  
CREW QUARTERS = 1,780 sq.ft.  
GARAGE = 1,205 sq.ft.  
TOTAL = 3,032 sq.ft.

**LINE LEGEND**

- NEW CONSTRUCTION
- EXISTING TO REMAIN
- HIDDEN WORK
- EXISTING TO BE REMOVED



1  
A2.0  
**SITE PLAN SUBMISSION PLAN**  
1/4" = 1'-0"



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architects aia pc  
Brighton, Michigan 48116-9510  
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www.lindhout.com Fax: (810) 227-5855

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DATE: 9-10-2024	ISSUED FOR: SITE PLAN SUBMISSION
APP: [Signature]	CHECKED: [Signature]
DRAWN: [Signature]	DATE: 9-10-2024

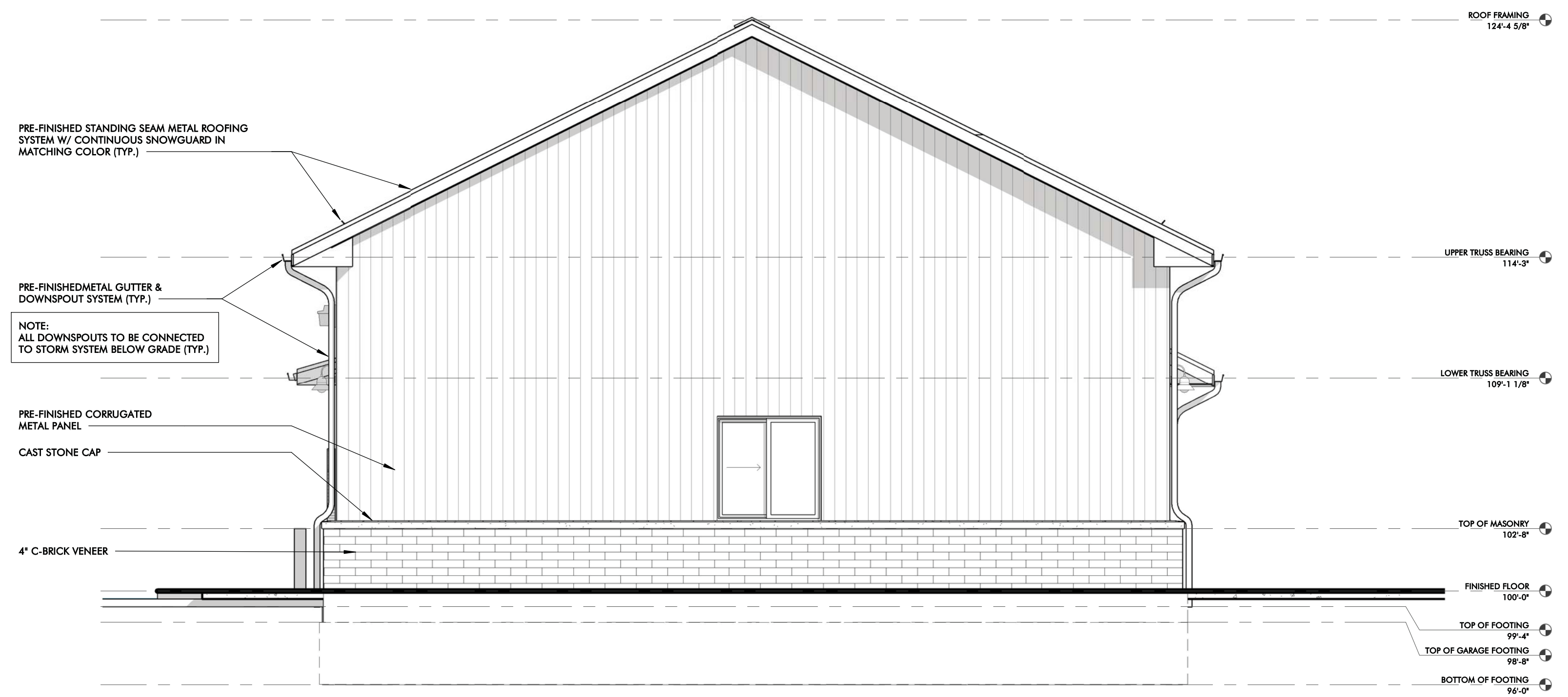
COHOCTAH TWP. SUBSTATION FOR:  
**LIVINGSTON COUNTY EMS**  
7304 OAK GROVE RD., HOWELL, MI 48855  
**EXTERIOR ELEVATIONS**

A2.0  
24063

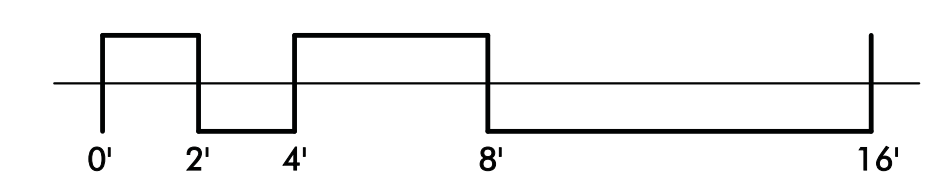
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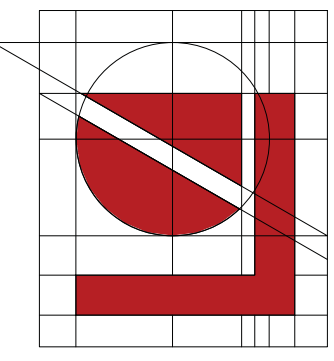


**2 WEST ELEVATION**  
1/4" = 1'-0"



**1 SOUTH ELEVATION**  
1/4" = 1'-0"





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www.lindhout.com fax: (810) 227-5855

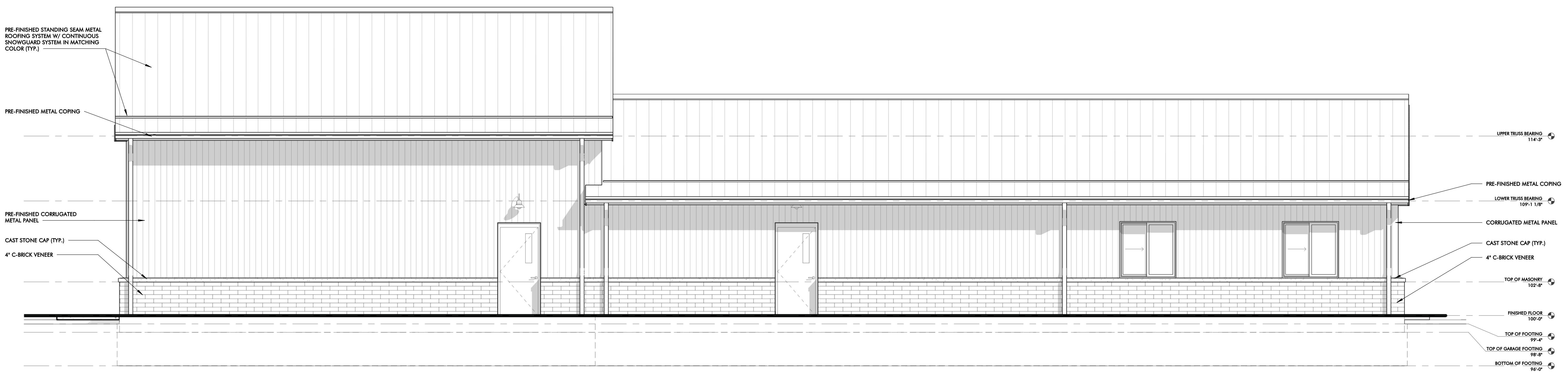
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DATE: 9-10-2024	DATE:
SITE PLAN SUBMISSION	ISSUED FOR
DRAWN: ALV TIB	CHECKED: BJA
APP:	

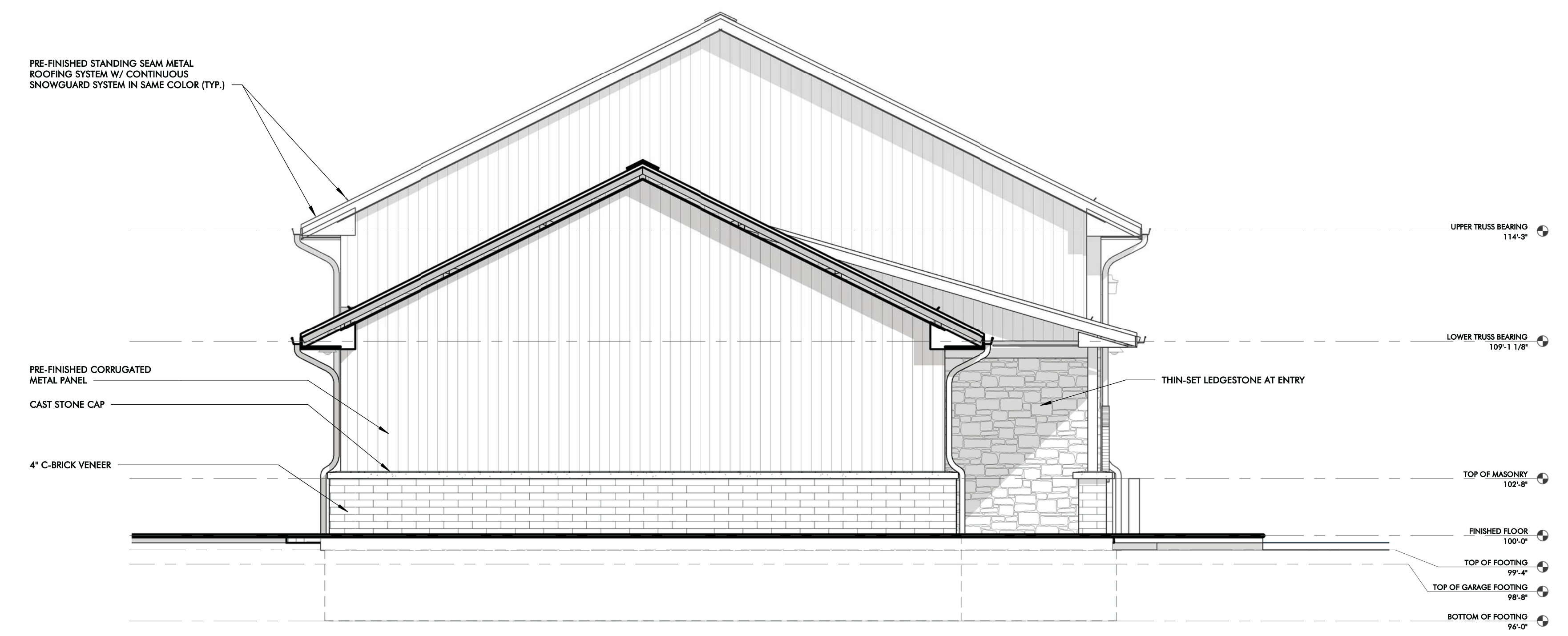
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EXTERIOR ELEVATIONS

A2.1  
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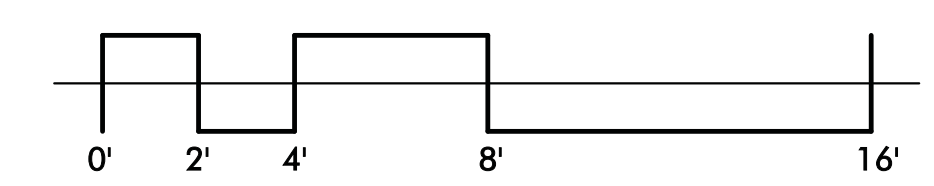
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3 EAST ELEVATION  
A1.0 1/4" = 1'-0"



2 NORTH ELEVATION  
A1.0 1/4" = 1'-0"



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1  
A4.0 VIEW LOOKING SOUTHEAST

NOT TO SCALE



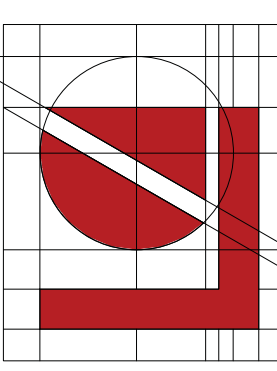
2  
A4.0 VIEW LOOKING NORTHWEST

NOT TO SCALE



3  
A4.0 BIRDSEYE VIEW LOOKING SOUTHEAST

NOT TO SCALE



Lindhout Associates  
architects aia pc  
10465 Citation Drive,  
Brighton, Michigan 48116-9510  
www.lindhout.com  
Tel: (810) 227-5668 Fax: (810) 227-5855

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DATE	ISSUED FOR
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COHOCTAH TWP. SUBSTATION FOR:  
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RENDERED VIEWS

A3.0  
24063