



NEW HAVEN PLANNING COMMISSION MEETING AGENDA

February 03, 2026 at 7:00 PM
Municipal Council Room – 57775 Main Street

In accordance with the Americans with Disabilities Act, reasonable accommodations can be made with advance notice by calling the Village Offices at (586) 749-5301

The New Haven Planning Commission will hold its Regular Meeting at 7:00 pm, at the New Haven Municipal Offices at 57775 Main Street.

1. Call to Order/Pledge/Roll Call

2. Public Hearing

3. Approval of Agenda

4. Public Comments on Agenda

5. Approval of the Minutes

[A.](#) December 2, 2025 Public Hearing Lenox Township Library Lot Combination Minutes

[B.](#) December 2, 2025 Regular Meeting Minutes

6. Communications/Correspondence/Workshop

A. MSU Citizen Planner – Tuesdays Feb 10 – March 24, 6-9PM, Verkuilen Building in Auditorium Room A/B 21885 Dunham Road, Clinton Township, MI 48036. Registration closes Feb 5, 2026

B. American Planning Association Webinar: Data Center Know How for Planners and Officials February 12, 2026, 12:00PM - 2:00PM @ Village Hall as a group.

7. Old Business

[A.](#) Maritime Real Property - Parcel 26-06-33-326-009 (58359 Main Street) Preliminary Site Plan

B. Macomb Automotive - Parcels 26-06-33-276-035 & 26-06-33-276-038 (58025 Gratiot) Preliminary Site Plan

8. New Business

A. Set Public Hearing for Rezoning Request from Lenox Township Library

Part of NW 1/4 of Section 33, Town 4 North, Range 14 East, New Haven, Macomb County, Michigan, being more particularly described as follows: The NORTHWESTERLY 22 feet of LOT 6, all of LOTS 7 and 8, and the NORTHWESTERLY 22 feet of LOT 9 of "A.A. Bennetts Addition to the Village of New Haven," as being recorded in Liber 2 of Plats, on Page 90, Macomb County Records.

- [B.](#) Extra Credit Union
- [C.](#) AT&T Generator
- D. GDB Amendments Presentation
- [E.](#) Data Centers Moratorium / Zoning Ordinance Discussion
- F. New Commissioner

- 9. Planner's Report**
- 10. Public Comments on Non-Agenda Items**
- 11. Call from the Table**
- 12. Adjournment**



PUBLIC HEARING FOR LENOX TOWNSHIP LIBRARY LOT COMBINATION MINUTES

December 02, 2025 at 7:00 PM

Municipal Council Room – 57775 Main Street

1. Call to Order/Pledge/Roll Call

Motion made by G. Rodzik to open the public hearing at 7:02, Seconded by C. Dilbert.

Voting Yea: C. Dilbert, R. Pannell, G. Rodzik, C. Simms, R. Whitsett, A. Jones

PRESENT

Chris Dilbert

Rob Pannell

Genevieve Rodzik

Craig Simms

Rachel Whitsett

Alynn Jones

2. Public Hearing

A. Public Hearing for Lenox Township Library Lot Combination - 58976 and 58954 Main Street, Parcels #26-06-33-102-001 and #26-06-33-102-002 respectively

Beth - Director of Library. Working towards expansion

Beth - Board member. Need to move forward with expansion for the benefit of the community.

3. Adjournment

Motion made by R. Whitsett to close public hearing at 7:06 PM, Seconded by C. Simms.

Voting Yea: C. Dilbert, R. Pannell, G. Rodzik, C. Simms, R. Whitsett, A. Jones



NEW HAVEN PLANNING COMMISSION MEETING MINUTES

December 02, 2025 at 7:00 PM
Municipal Council Room – 57775 Main Street

1. Call to Order/Pledge/Roll Call

Meeting called to order at 7:00 PM

PRESENT

Chris Dilbert

Rob Pannell

Genevieve Rodzik

Craig Simms

Rachel Whitsett

Alynne Jones

2. Public Hearing

A. Public Hearing for Lenox Township Library Lot Combination - 58976 and 58954 Main Street, Parcels #26-06-33-102-001 and #26-06-33-102-002 respectively

3. Approval of Agenda

Motion made by R. Whitsett to approve the agenda as amended, Seconded by G. Rodzik.

Voting Yea: C. Dilbert, R. Pannell, G. Rodzik, C. Simms, R. Whitsett, A. Jones

Add - New Business - c. Tax abatement and Gratiot Corridor Authority

4. Public Comments on Agenda

Bill - Pembroke - Supports Library

5. Approval of the Minutes

A. Wise Buys Public Hearing November 4, 2025

Motion made by C. Simms to approve the public hearing minutes for Wise Buys November 4, 2025,
Seconded by C. Dilbert.

Voting Yea: C. Dilbert, R. Pannell, G. Rodzik, C. Simms, R. Whitsett, A. Jones

B. Regular meeting November 4, 2025 minutes

Motion made by C. Simms to approve the regular meeting minutes from November 4, 2025, Seconded by G. Rodzik.

Voting Yea: C. Dilbert, R. Pannell, G. Rodzik, C. Simms, R. Whitsett, A. Jones

6. Communications/Correspondence/Workshop

None

7. Old Business

None

8. New Business

- A. Lenox Township Library Lot Combination - 58976 and 58954 Main Street, Parcels #26-06-33-102-001 and #26-06-33-102-002 respectively

Motion made by C. Dilbert motion for Recommendation to approve the lot combination of 58976 and 58954 Main Street, Parcels #26-06-33-102-001 and #26-06-33-102-002 respectively, conditional on meeting all zoning requirements and Utility conditions , Seconded by G. Rodzik.

Roll call - Voting Yea: C. Dilbert, R. Pannell, G. Rodzik, C. Simms, R. Whitsett, A. Jones

- B. 2026 Calendar

Motion made by G. Rodzik to approve the 2026 meeting dates as presented, Seconded by C. Dilbert. Voting Yea: C. Dilbert, R. Pannell, G. Rodzik, C. Simms, R. Whitsett, A. Jones

- C. Tax abatement and Gratiot Corridor Authority

Motion made by G. Rodzik motion for recommendation to explore potential of Gratiot Corridor Authority or tax abatement (either direct or escrow) to support business aesthetic improvements, Seconded by C. Simms.

Voting Yea: C. Dilbert, R. Pannell, G. Rodzik, C. Simms, R. Whitsett, A. Jones

9. Planner's Report

Working on code enforcement.

Still working with Maritime and Wise Buys.

10. Public Comments on Non-Agenda Items

None

11. Call from the Table

None

12. Adjournment

Motion made by C. Dilbert to adjourn at 7:22 PM, Seconded by G. Rodzik.

Voting Yea: C. Dilbert, R. Pannell, G. Rodzik, C. Simms, R. Whitsett, A. Jones

CONSTRUCTION PLANS

MARITIME STORAGE

58359 MAIN STREET

NEW HAVEN, MACOMB COUNTY, MI



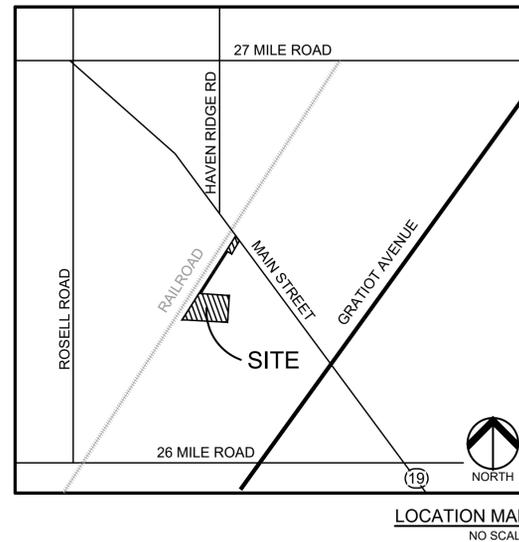
PERMIT / APPROVAL SUMMARY		
DATE SUBMITTED	DATE APPROVED	PERMIT / APPROVAL
		NEW HAVEN PLANNING APPROVAL
		NEW HAVEN ENGINEERING APPROVAL
		NEW HAVEN CERTIFICATE OF OCCUPANCY
		MACOMB COUNTY PUBLIC WORKS SOIL EROSION

- VILLAGE OF NEW HAVEN STANDARD NOTES**
1. NOTIFY THE VILLAGE OF NEW HAVEN BUILDING DEPARTMENT (586-749-5301) A MINIMUM OF 48-HOURS PRIOR TO THE START OF CONSTRUCTION
 2. CONTACT THE OFFICE OF THE MACOMB COUNTY PUBLIC WORKS COMMISSIONER AT (586-469-5325) 48-HOURS BEFORE CONSTRUCTION.
 3. CALL MISS DIG (1-800-482-7171) A MINIMUM OF 72-HOURS PRIOR TO THE START OF CONSTRUCTION
 4. ALL CONSTRUCTION MUST CONFORM TO THE CURRENT STANDARDS AND SPECIFICATIONS ADOPTED BY THE VILLAGE OF NEW HAVEN
 5. ALL SOIL EROSION AND SILT MUST BE CONTROLLED AND CONTAINED ON SITE.
 6. ALL EXCAVATION UNDER OR WITHIN 3- FEET OF PUBLIC PAVEMENT, EXISTING OR PROPOSED, SHALL BE BACKFILLED AND COMPACTED WITH SAND (CLASS II MDOT - MINIMUM)
 7. THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE TO EXISTING UTILITIES
 8. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL VILLAGE OF NEW HAVEN PERMITS INCLUDING A PERMIT TO OCCUPY PUBLIC UTILITY EASEMENTS AND PUBLIC RIGHTS-OF-WAY
 9. TRENCH BACKFILL IN COUNTY RIGHTS-OF-WAY SHALL CONFORM TO MACOMB COUNTY DEPARTMENT OF ROADS REQUIREMENTS AND BE SUBJECT TO THE APPROVAL OF THE SAME
 10. ALL WATER/SANITARY/STORM TAPS SHALL BE PERFORMED BY A PRE-QUALIFIED CONTRACTOR APPROVED BY THE VILLAGE
 11. OPEN-CUT STREET CROSSINGS ARE NOT ALLOWED WITHOUT PRIOR APPROVAL BY THE VILLAGE. ALL DAMAGED PAVEMENT SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION.
 12. THE DEVELOPER SHALL BE RESPONSIBLE FOR PROVIDING POSITIVE DRAINAGE TO STORM WATER OUTLETS ON SITE TO ELIMINATE STANDING WATER IN VACANT AREAS DURING CONSTRUCTION OF THE DEVELOPMENT
 13. IF ANY DISCREPANCY BETWEEN THESE PLANS AND THE JURISDICTIONAL AGENCY STANDARDS OCCURS, THE AGENCY STANDARDS SHALL GOVERN.

FLOODPLAIN AND WETLAND NOTE

BY GRAPHICAL PLOTTING, SITE IS WITHIN ZONE 'X', AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN PER FLOOD INSURANCE RATE MAP NUMBER 26099C0256G DATED SEPTEMBER 26, 2006.

NO WETLANDS WERE FLAGGED AS PART OF TOPOGRAPHIC SURVEY PER PEA DATED NOVEMBER 26, 2024



COMMUNITY IMPACT STATEMENT

THE STORAGE FACILITY WITHIN THE VILLAGE OF NEW HAVEN WILL SERVE THE COMMUNITY BY OFFERING STORAGE SERVICES FOR BOATS, TRAILERS, AND MARITIME EQUIPMENT. IMPACT TO THE COMMUNITY IS ANTICIPATED TO BE MINOR IN NATURE. NO MAJOR NOISE, DUST, OR POLLUTION IMPACTS ARE ANTICIPATED.

INDEX OF DRAWINGS	
Number	Title
C-0.0	COVER SHEET
C-1.1	EXISTING CONDITIONS AND REMOVAL PLAN - NORTH
C-1.2	EXISTING CONDITIONS AND REMOVAL PLAN - SOUTH
C-2.1	GRADING AND DIMENSION PLAN - NORTH
C-2.2	GRADING AND DIMENSION PLAN - SOUTH
C-3.0	SOIL EROSION AND SEDIMENTATION CONTROL PLAN
C-3.1	SOIL EROSION AND SEDIMENTATION CONTROL NOTES AND DETAILS
C-5.1	DETAILS

L-1.1	LANDSCAPE PLAN - NORTH
L-1.2	LANDSCAPE PLAN - SOUTH
L-2.1	LANDSCAPE SPECIFICATIONS
L-2.2	LANDSCAPE SPECIFICATIONS

VILLAGE OF NEW HAVEN STANDARD DETAILS

(1 OF 1) PAVING STANDARD DETAILS

WAIVERS GRANTED:

THE FOLLOWING WAIVERS WERE GRANTED AT THE VILLAGE COUNCIL MEETING HELD OCTOBER 14, 2025:

1. FROM SECTION 515-15-C, WHICH REQUIRES VEHICULAR USE AREAS TO BE PAVED WITH ASPHALT OR CONCRETE.
2. FROM ORDINANCE 259, APPENDIX G, SECTION IV, WHICH REQUIRES PAVEMENT WITH CURB AND GUTTERS FOR ALL DRIVING SURFACE AREAS FOR COMMERCIAL AREAS.
3. FROM ORDINANCE 259, SECTION 14.0520502 SITE GRADING AND DRAINAGE WATER COLLECTION AND DISPOSAL, REQUIRING A NEW STORM COLLECTION AND DETENTION SYSTEM TO BE DESIGNED AND CONSTRUCTED FOR THE SITE.

THESE WAIVERS WERE GRANTED WITH THE CONDITION THAT A HEAVY DUTY CONCRETE APPROACH BE CONSTRUCTED WITHIN THE RIGHT-OF-WAY, ALONG WITH THE FIRST 100-FOOT PORTION OF THE DRIVEWAY AND APPROACH SHALL BE HEAVY DUTY CONCRETE OF AT LEAST 9 INCHES IN THICKNESS, WITH APPROPRIATE CURBING AND DRAINAGE SYSTEM.

DESIGN TEAM	
OWNER/APPLICANT	CIVIL ENGINEER
MARITIME REAL PROPERTY 8800 SPRINGER LANE UTICA, MI 48316 CONTACT: DAVID ALDERMAN PHONE: 586.949.4500 EMAIL: DAVID@SHORELINEDEVELOPER.COM	PEA GROUP 58105 VAN DYKE RD. WASHINGTON TWP., MI 48094 CONTACT: BECKY KLEIN, PE, LEED AP BD+C PHONE: 844.813.2949 EMAIL: BKLEIN@PEAGROUP.COM



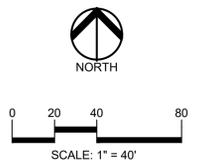
ENGINEERS CERTIFICATION:

I HEREBY CERTIFY THAT I HAVE READ THE VILLAGE LAND DEVELOPMENT ORDINANCE (AND ITS RELATED ENGINEERING STANDARDS), AND I HAVE PREPARED THESE PLANS IN CONFORMITY WITH THE REQUIREMENTS OF SAID ORDINANCE.

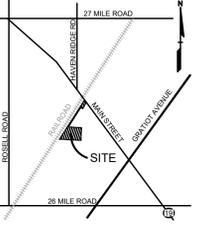
(SIGNATURE)

REBECCA KLEIN, PE, LEED AP BD+C
PE No. 6201058042

REVISIONS	
DESCRIPTION	DATE
ORIGINAL ISSUE DATE	12/20/2024
PERMIT RESUBMITTAL	7/9/2025
PERMIT RESUBMITTAL	9/26/2025
PERMIT RESUBMITTAL	10/13/2025
PERMIT RESUBMITTAL	10/24/2025
PERMIT RESUBMITTAL	12/5/2025



CAUTION!!
THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE OR OTHER WARRANTIES OR WARRANTIES OF MERCHANTABILITY OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.



CLIENT
MARITIME REAL PROPERTY
8800 SPRINGER LN.
LITICA, MI 48316

PROJECT TITLE
MARITIME STORAGE
58359 MAIN STREET
NEW HAVEN, MI 48048

REVISIONS

PERMIT RESUBMITTAL	7/9/2025
PERMIT RESUBMITTAL	9/26/2025
PERMIT RESUBMITTAL	10/13/2025
PERMIT RESUBMITTAL	10/24/2025
PERMIT RESUBMITTAL	12/5/2025

ORIGINAL ISSUE DATE:
DECEMBER 20, 2024

DRAWING TITLE
EXISTING CONDITIONS AND REMOVAL PLAN - NORTH

PEA JOB NO.	24-1930
P.M.	BK
DN.	KM
DES.	KM

DRAWING NUMBER:
C-1.1

LEGEND:

—OH-ELEC—W—O—	EX. OH. ELEC. POLE & GUY WIRE
—UG-CATV—	EX. U.G. CABLE TV & PEDESTAL
—UG-COMM—	EX. U.G. COMMUNICATION LINE, PEDESTAL & MANHOLE
—UG-ELEC—	EX. U.G. ELEC. MANHOLE, METER & HANDHOLE
---	EX. GAS LINE
⊙	EX. GAS VALVE & GAS LINE MARKER
⊠	EX. TRANSFORMER & IRRIGATION VALVE
—	EX. WATER MAIN
⊕	EX. HYDRANT, GATE VALVE & POST INDICATOR VALVE
⊖	EX. WATER VALVE BOX & SHUTOFF
—	EX. SANITARY SEWER
⊙	EX. SANITARY CLEANOUT & MANHOLE
⊙	EX. COMBINED SEWER MANHOLE
—	EX. STORM SEWER
⊙	EX. CLEANOUT & MANHOLE
⊙	EX. SQUARE, ROUND & BEEHIVE CATCH BASIN
⊙	EX. YARD DRAIN, U.G. ROOF DRAIN & DOWNSPOUT
⊙	EX. UNIDENTIFIED STRUCTURE
⊙	EX. MAILBOX, SIGN, LIGHTPOLE & GUARD POST
—	EX. FENCE
—	EX. GUARD RAIL
⊙	EX. DEC. TREE, CONIFEROUS TREE & SHRUB
⊙	EX. TREE TAG & TREE LINE
⊙	EX. SPOT ELEVATION
⊙	EX. CONTOUR
⊙	EX. WETLAND
⊙	IRON FOUND / SET
⊙	NAIL FOUND / NAIL & CAP SET
⊙	BRASS PLUG SET
⊙	MONUMENT FOUND / SET
⊙	SECTION CORNER FOUND
R M C	RECORDED / MEASURED / CALCULATED
GNSS	GLOBAL NAVIGATION SATELLITE SYSTEM

REFERENCE DRAWINGS:

WATER MAIN	NOT RECEIVED AS OF 11/26/24
SANITARY SEWER	NOT RECEIVED AS OF 11/26/24
STORM SEWER	NOT RECEIVED AS OF 11/26/24
ELECTRIC	DETROIT TO CHICAGO F.O.T.S. PLAN, BY FONDRCLA I.C.S.S CONTRACT SERVICES, PROJECT NO. 54003, DRAWING NO. MSR03209, DATED 5/19/98
TELEPHONE	ATT MAP, DATED 11/14/24
GAS	SEMCO GAS MAP, EMAIL DATED 11/1/24
CATV	COMCAST - NO CONFLICT
FLOOD PLAIN	FEMA F.I.R.M. MAP 26099C0256G, DATED 9/26/06

BENCHMARKS:
(ENTER DATUM HERE)

BM #300	UTILITY POLE LOCATED ON THE SOUTH SIDE OF MAIN STREET AND ±10.56' EAST FROM FOUND IRON LOCATED AT THE SOUTHEASTERLY PROPERTY CORNER OF THE SITE. ELEV. - 628.50
BM #301	SANITARY MANHOLE LOCATED EAST OF GRAND TRUNK RAILROAD AND ±105.74' NORTHWEST FROM THE NORTHWEST BUILDING CORNER #58333. ELEV. - 626.86

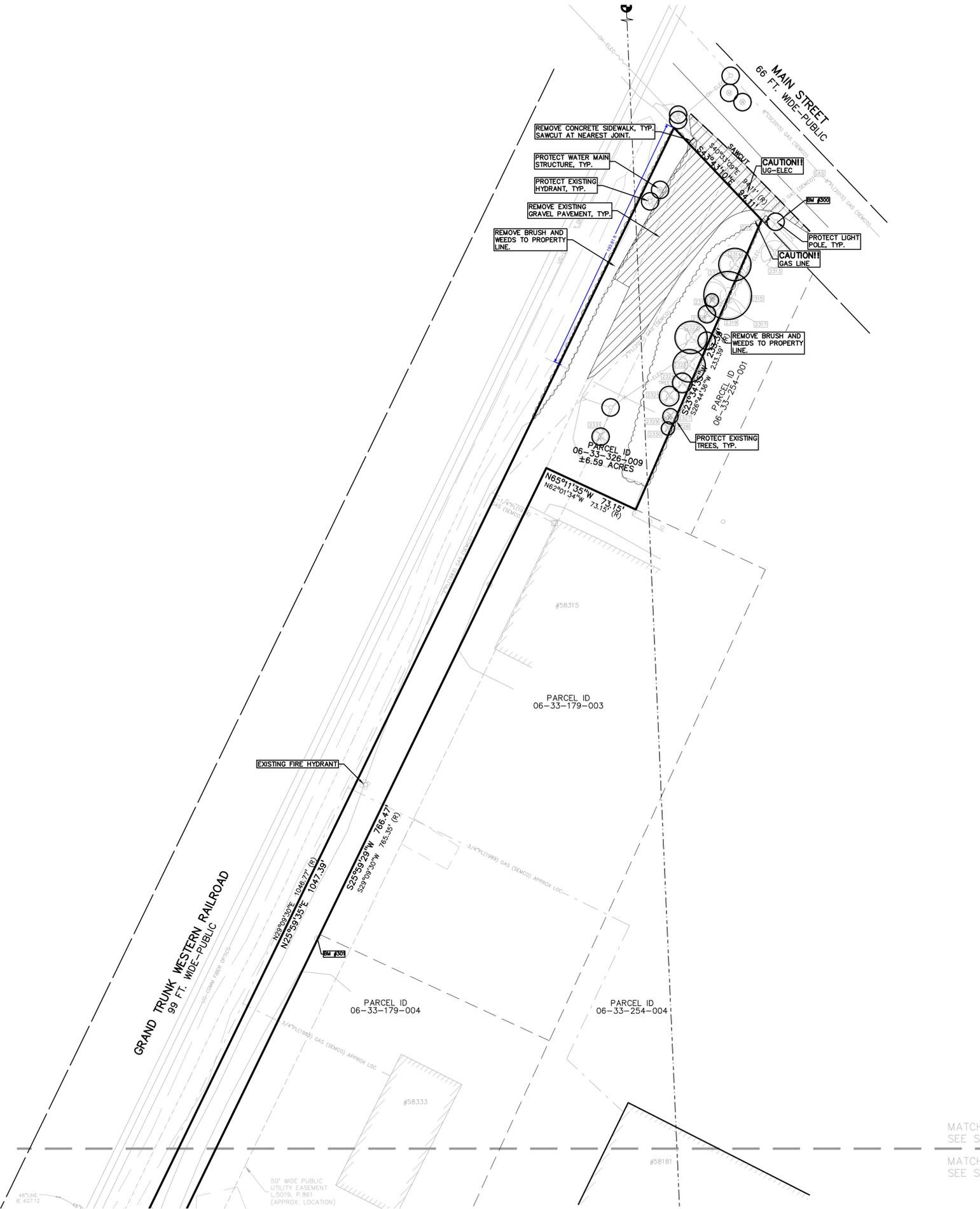
LEGAL DESCRIPTION:
(PER MACOMB COUNTY GIS)
PARCEL ID 26-06-33-326-009
A/P NO. 2 (L16, P49); PART OF LOT 1, ALONG WITH UNPLATTED LAND TOGETHER DESC AS, T4N, R14E, SEC 33; COMM AT W 1/4 POST SEC 33; TH S89°22'07" E 2258.36 FT TO POB; TH N29°09'30" E 1046.77 FT; TH S40°33'09" E 94.11 FT; TH S26°44'36" W 233.89 FT; TH N62°01'34" W 73.15 FT; TH S29°09'30" W 785.35 FT; TH S89°22'07" E 440.27 FT; TH S00°05'00" W 412.40 FT; TH S89°41'00" W 703.25 FT; TH N29°09'30" E 482.61 FT TO POB 6.588'

FLOODPLAIN NOTE:
BY GRAPHICAL PLOTTING, SITE IS WITHIN ZONE "X", AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN PER FLOOD INSURANCE RATE MAP NUMBER 26099C0256G DATED SEPTEMBER 26, 2006.

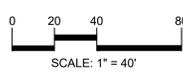
DEMOLITION LEGEND:

ITEM TO BE PROTECTED	⊙
CONCRETE PAVEMENT AND SIDEWALK REMOVAL	▨
AREA OR ITEMS TO BE REMOVED	▨
SAWCUT LINE	---

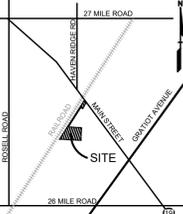
- GENERAL DEMOLITION NOTES:**
- THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT:
- ALL MATERIAL TO BE REMOVED, WHETHER SPECIFICALLY NOTED IN THE PLANS OR NOT, SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AND DISPOSED OF OFF-SITE IN A LEGAL MANNER. NO ON-SITE BURY OR BURN PITS SHALL BE ALLOWED.
 - ALL DEMOLITION WORK SHALL CONFORM TO ALL LOCAL CODES AND ORDINANCES.
 - STAGING/PHASING OF DEMOLITION AND CONSTRUCTION IS TO BE COORDINATED WITH THE OWNER AND THE CONTRACTOR PRIOR TO CONSTRUCTION.
 - SPECIFIC DEMOLITION ITEMS HAVE BEEN INDICATED ON THE PLANS AS A GUIDE TO THE GENERAL SCOPE OF THE WORK. IT IS THE INTENT THAT THESE ITEMS SHALL BE COMPLETELY REMOVED BY THE CONTRACTOR ABOVE AND BELOW GROUND, UNLESS SPECIFICALLY NOTED OTHERWISE, AND THAT DEMOLITION WILL INCLUDE BUT WILL NOT NECESSARILY BE LIMITED TO THESE ITEMS. CONTRACTOR SHALL VISIT SITE TO VERIFY EXISTING CONDITIONS AND EXTENTS OF THE DEMOLITION THAT WILL BE REQUIRED PRIOR TO SUBMITTING A BID.
 - REMOVE ALL STRUCTURES DESIGNATED FOR REMOVAL ACCORDING TO THE DEMOLITION PLAN. THIS INCLUDES FOUNDATIONS, FOOTINGS, FOUNDATION WALLS, FLOOR SLABS, UNDERGROUND UTILITIES, CONCRETE, ASPHALT, TREES, ETC.
 - THE CONTRACTOR SHALL, AS A MINIMUM, PROVIDE TREE PROTECTION FENCING AROUND EXISTING TREES TO BE SAVED THAT ARE WITHIN 15 FEET OF CONSTRUCTION ACTIVITIES AND AS INDICATED IN THE PLANS OR PER LOCAL AGENCY REQUIREMENTS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN UP, NOISE, DUST CONTROL, STREET SWEEPING AND HOURS OF OPERATION IN ACCORDANCE WITH THE LOCAL CODES.
 - THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BARRICADES, SIGNAGE, MARKINGS, LIGHTS AND OTHER TRAFFIC CONTROL DEVICES TO PROTECT THE WORK ZONE AND SAFELY MAINTAIN TRAFFIC PER AGENCY REQUIREMENTS AND IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
 - THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF SIGNS AND SUPPORTS WITHIN THE WORK AREA, AS NECESSARY TO FACILITATE CONSTRUCTION. SIGNS SHALL BE PROTECTED OR STOCKPILED FOR REUSE AS SPECIFIED IN THE PLANS OR AS REQUIRED BY THE AGENCY OF JURISDICTION. THE CONTRACTOR SHALL REPLACE ANY DAMAGED SIGNS AND SUPPORTS AT NO ADDITIONAL COST TO THE OWNER.
 - THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE 811/CALL UTILITY LOCATING CENTER, THE CITY ENGINEER AND/OR THE AUTHORITY HAVING JURISDICTION 3 BUSINESS DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.



\\pea\apps\PRODUCTS\2024\24-1930_SHARELINE_STORAGE\DWG\CONSTRUCTION\C-1.1_TPO-24-1930.dwg PLOT DATE: 12/26/2025 BY: Becky Klein



CAUTION!!
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MARITIME REAL PROPERTY
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UTICA, MI 48316

PROJECT TITLE
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NEW HAVEN, MI 48048

REVISIONS	
PERMIT RESUBMITTAL	7/9/2025
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ORIGINAL ISSUE DATE:
DECEMBER 20, 2024

EXISTING CONDITIONS AND REMOVAL PLAN - SOUTH

PEA JOB NO.	24-1930
P.M.	BK
DN.	KM
DES.	KM

DRAWING NUMBER:

C-1.2

- LEGEND:**
- OH-ELEC-W-O- EX. OH. ELEC. POLE & GUY WIRE
 - UG-CATV- EX. U.G. CABLE TV & PEDESTAL
 - UG-COMM- EX. U.G. COMMUNICATION LINE, PEDESTAL & MANHOLE
 - UG-ELEC- EX. U.G. ELEC. MANHOLE, METER & HANDHOLE
 - - - - - EX. GAS LINE
 - ⊗ EX. GAS VALVE & GAS LINE MARKER
 - ⊠ EX. TRANSFORMER & IRRIGATION VALVE
 - - - - - EX. WATER MAIN
 - ⊕ EX. HYDRANT, GATE VALVE & POST INDICATOR VALVE
 - ⊖ EX. WATER VALVE BOX & SHUTOFF
 - - - - - EX. SANITARY SEWER
 - ⊙ EX. SANITARY CLEANOUT & MANHOLE
 - ⊙ EX. COMBINED SEWER MANHOLE
 - - - - - EX. STORM SEWER
 - ⊙ EX. CLEANOUT & MANHOLE
 - ⊙ EX. SQUARE, ROUND & BEEHIVE CATCH BASIN
 - ⊙ EX. YARD DRAIN, U.G. ROOF DRAIN & DOWNSPOUT
 - ⊙ EX. UNIDENTIFIED STRUCTURE
 - ⊙ EX. MAILBOX, SIGN, LIGHTPOLE & GUARD POST
 - - - - - EX. FENCE
 - - - - - EX. GUARD RAIL
 - ⊙ EX. DEC. TREE, CONIFEROUS TREE & SHRUB
 - ⊙ EX. TREE TAG, & TREE LINE
 - ⊙ EX. SPOT ELEVATION
 - - - - - EX. CONTOUR
 - ⊙ EX. WETLAND
 - ⊙ EX. IRON FOUND / SET
 - ⊙ EX. NAIL FOUND / NAIL & CAP SET
 - ⊙ EX. BRASS PLUG SET
 - ⊙ EX. MONUMENT FOUND / SET
 - ⊙ EX. SECTION CORNER FOUND
 - R M C EX. RECORDED / MEASURED / CALCULATED
 - GNS EX. GLOBAL NAVIGATION SATELLITE SYSTEM

- REFERENCE DRAWINGS:**
- WATER MAIN NOT RECEIVED AS OF 11/26/24
 - SANITARY SEWER NOT RECEIVED AS OF 11/26/24
 - STORM SEWER NOT RECEIVED AS OF 11/26/24
 - ELECTRIC DETROIT TO CHICAGO F.O.T.S. PLAN, BY FONDRCLA C&S CONTRACT SERVICES, PROJECT NO. 54003, DRAWING NO. MSR03209, DATED 5/19/98
 - TELEPHONE ATT MAP, DATED 11/1/24
 - GAS SEMCO GAS MAP, EMAIL DATED 11/1/24
 - CATV COMCAST - NO CONFLICT
 - FLOOD PLAIN FEMA F.I.R.M. MAP 26099C0256G, DATED 9/26/06

BENCHMARKS:
(ENTER DATUM HERE)

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UTILITY POLE LOCATED ON THE SOUTH SIDE OF MAIN STREET AND ±10.56' EAST FROM FOUND IRON LOCATED AT THE SOUTHEASTERLY PROPERTY CORNER OF THE SITE.
ELEV. - 628.50

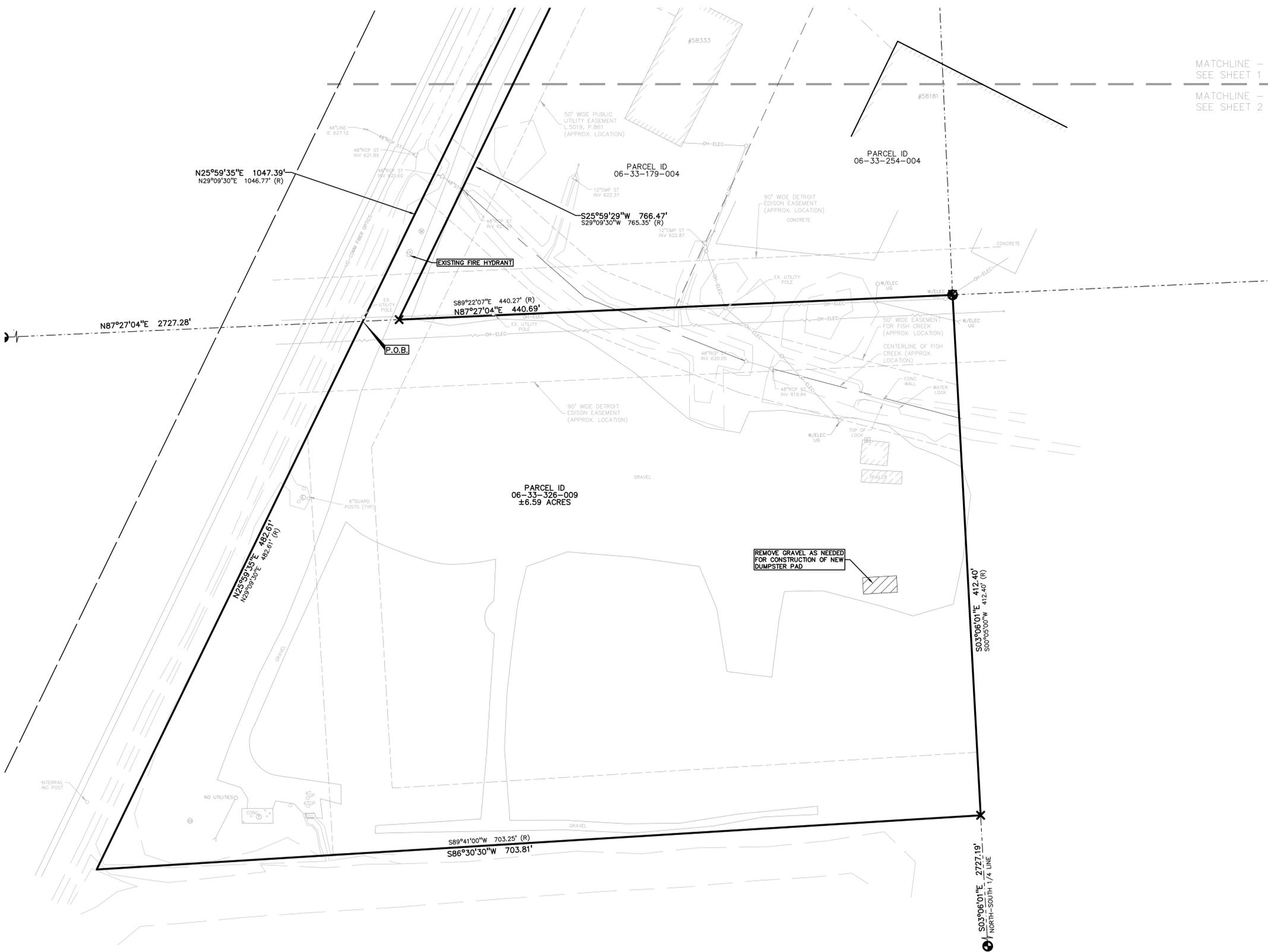
BM #301
SANITARY MANHOLE LOCATED EAST OF GRAND TRUNK RAILROAD AND ±105.74' NORTHWEST FROM THE NORTHWEST BUILDING CORNER #58333.
ELEV. - 626.86

LEGAL DESCRIPTION:
(PER MACOMB COUNTY GIS)

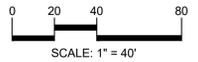
PARCEL ID 26-06-33-326-009

A/P NO. 2 (L16, P49); PART OF LOT 1, ALONG WITH UNPLATTED LAND TOGETHER DESC AS; T4N, R14E, SEC 33; COMM AT W 1/4 POST SEC 33, TH S89°22'07" E 2258.36 FT TO POB; TH N29°09'30" E 1046.77 FT; TH S40°33'09" E 84.11 FT; TH S26°44'36" W 233.89 FT; TH N62°01'34" W 73.15 FT; TH S29°09'30" W 765.35 FT; TH S89°22'07" E 440.27 FT; TH S00°05'00" W 412.40 FT; TH S89°41'00" W 703.25 FT; TH N20°08'26" E 482.61 FT TO POB 6.688'

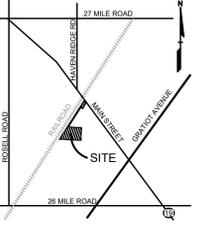
FLOODPLAIN NOTE:
BY GRAPHICAL PLOTTING, SITE IS WITHIN ZONE 'X', AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN PER FLOOD INSURANCE RATE MAP NUMBER 26099C0256G DATED SEPTEMBER 26, 2006.



\\pea\share\PROJECTS\2024\24-1930_STORAGE_STORAGE\DWG\CONSTRUCTION\C-1.1_TPO-24-1930.dwg PLOT DATE: 12/26/2025 BY: Becky Klein



CAUTION!!
THE LOCATION AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.



CLIENT
MARITIME REAL PROPERTY
8800 SPRINGER LN.
UTICA, MI 48116

PROJECT TITLE
MARITIME STORAGE
58359 MAIN STREET
NEW HAVEN, MI 48048

REVISIONS	
PERMIT RESUBMITTAL	7/9/2025
PERMIT RESUBMITTAL	9/26/2025
PERMIT RESUBMITTAL	10/13/2025
PERMIT RESUBMITTAL	10/24/2025
PERMIT RESUBMITTAL	12/5/2025

ORIGINAL ISSUE DATE:
DECEMBER 20, 2024

DRAWING TITLE
GRADING AND DIMENSION PLAN - NORTH

PEA JOB NO.	24-1930
P.M.	BK
DN	KM
DES.	KM
DRAWING NUMBER:	

C-2.1

LEGEND:

	CONCRETE PAVEMENT
	ASPHALT PAVEMENT
	GRAVEL
	WETLAND
	CONCRETE CURB AND GUTTER
	REVERSE GUTTER PAN
	SETBACK LINE
	SIGN
	LIGHT POLE
	GUARD RAIL

NOTE:
THE VILLAGE SHALL BE HELD HARMLESS FOR LIABILITIES OR DAMAGE OF ANY STORM, DRAINAGE, AND FLOODING ISSUES AS A RESULT OF PROPOSED ACTIVITIES

GENERAL NOTES:
THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT.
1. ALL DIMENSIONS SHOWN ARE TO BACK OF CURB, FACE OF SIDEWALK, OUTSIDE FACE OF BUILDING, PROPERTY LINE, CENTER OF MANHOLE/CATCH BASIN OR CENTERLINE OF PIPE UNLESS OTHERWISE NOTED.
2. REFER TO VILLAGE OF NEW HAVEN STANDARD NOTES ON COVER SHEET.

SITE DATA TABLE:

SITE AREA: 6.59 ACRES (287,161 SF) NET AND GROSS
ZONING: HI (HEAVY INDUSTRIAL)
EXISTING USE: OUTDOOR STORAGE

BUILDING INFORMATION:

- MAXIMUM ALLOWABLE BUILDING HEIGHT = 55 FT.
- EXISTING ACCESSORY BUILDING HEIGHT = ±10 FT
- EXISTING ACCESSORY BUILDING FOOTPRINT AREA = 400 SF.
- BUILDING LOT COVERAGE = 0.14%

SETBACK REQUIREMENTS:	REQUIRED:	PROPOSED:
• FRONT (NORTH)	100'	111.35'
• SIDE (EAST)	LEAST 50' TOTAL 100'	58.55'
• SIDE (WEST)	LEAST 50' TOTAL 100'	404.48'
• REAR (SOUTH)	75'	280.59'

LANDSCAPE REQUIREMENTS:

- HEAVY INDUSTRIAL TO HEAVY INDUSTRIAL - NONE
- HEAVY INDUSTRIAL TO LIGHT INDUSTRIAL - 5' GREENBELT
- 1 DECIDUOUS OR EVERGREEN TREE AND 4 SHRUBS PER 30 LINEAR FEET OF GREENBELT
- HEAVY INDUSTRIAL TO RESIDENTIAL OFFICE - EXTENSIVE LANDFORM BUFFER OR SCREEN WALL/FENCE

PARKING CALCULATIONS:

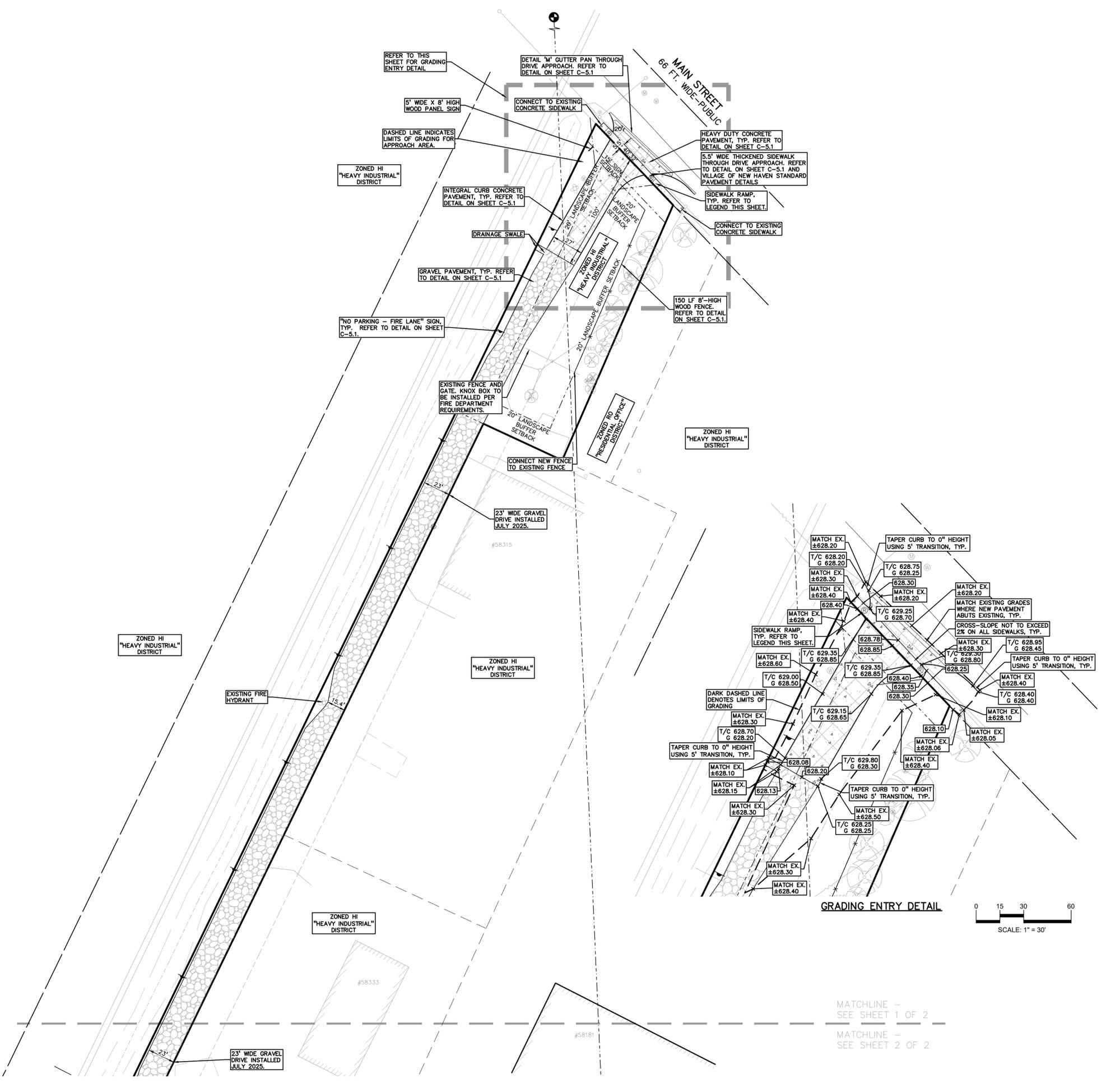
REQUIRED
• SELF STORAGE (MOST SIMILAR USE) = 5 SPACES

PROPOSED
• TOTAL REQUIRED PARKING = 5 SPACES

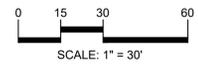
OUTDOOR STORAGE OPERATIONAL NOTES:

1. STORAGE ON SITE SHALL BE PRIMARILY BOATS, TRAILERS, AND ASSOCIATED MATERIALS AND EQUIPMENT CONSISTENT WITH SUPPORTING MARITIME OPERATIONS.
2. NO MATERIALS, VEHICLES, OR EQUIPMENT WILL BE STORED ANY CLOSER THAN 20 FEET FROM ANY PROPERTY LINE, OR 25 FEET FROM THE FISH CREEK DRAIN.
3. ACCESS TO THE SITE WILL BE ONLY THROUGH THE EXISTING ENTRY ON MAIN STREET.
4. NO BURNING SHALL OCCUR ON SITE.
5. NO INDUSTRIAL PROCESSES INCLUDING MANUFACTURING OR PACKING, SHALL OCCUR ON SITE.
6. ANY LOOSE CONSTRUCTION MATERIALS STORED ON SITE (SUCH AS SAND, GRAVEL, ETC.) SHALL BE PROVIDED WITH STABILIZATION AND EROSION CONTROL MEASURES IN ACCORDANCE WITH MACOMB COUNTY SESC STANDARDS.
7. DUST CONTROL WILL BE ACHIEVED BY STORING VEHICLES, TRAILERS, AND EQUIPMENT ON GRAVELED AREAS. WATERING TRUCKS SHALL BE PROVIDED ON AN AS-NEEDED BASIS FOR ANY LARGE-SCALE MOVEMENT OF MATERIAL.
8. NO EXTERIOR LIGHTING WILL BE PROVIDED

BUFFER NARRATIVE:
THE SITE IS BORDERED ON ALL BUT TWO PROPERTY LINES BY PROPERTIES ZONED "HI" - HEAVY INDUSTRIAL. THE REMAINING PROPERTY LINES ARE EITHER ZONED "RO" - RESIDENTIAL OFFICE (NEIGHBORING PARCEL ALONG MAIN ST.) OR ZONED "LI" - LIGHT INDUSTRIAL (PARCEL EAST OF THE STORAGE AREA).
WHERE HEAVY INDUSTRIAL ZONING MEETS LIGHT INDUSTRIAL ZONING, A 5' GREENBELT IS REQUIRED. THE EXISTING TREELINE PROVIDES SCREENING WHERE THIS CONDITION OCCURS. REFER TO SHEET C-2.2 FOR THE GREENBELT LOCATION.
WHERE HEAVY INDUSTRIAL ZONING MEETS RESIDENTIAL OFFICE, EITHER AN EXTENSIVE LANDFORM BUFFER OR SCREEN WALL/FENCE IS REQUIRED. AN EXISTING TREELINE ALSO PROVIDES SCREENING WHERE THIS CONDITION OCCURS.
A 20' LANDSCAPE BUFFER IS ALSO REQUIRED ALONG PROPERTY LINES WITHIN 100' OF A PUBLIC ROAD RIGHT-OF-WAY. THIS CONDITION OCCURS ALONG THE PROPERTY FRONTAGE, WHERE THE WIDTH OF THE FRONTAGE IS USED AS A DRIVE APPROACH TO ENTER THE PROPERTY. NATURAL FEATURE SCREENING EXISTS WITHIN THE BUFFER AREA TO EITHER SIDE OF THE DRIVE APPROACH, WITH BRUSH SCREENING ALONG THE RAILWAY DRAINAGE SWALE TO THE WEST AND AN EXISTING TREELINE ALONG THE EAST.
NO CHANGES TO LANDSCAPE BUFFERS OR SCREENING ARE PROPOSED.



GRADING ENTRY DETAIL

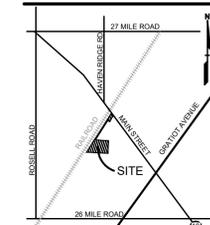


MATCHLINE - SEE SHEET 1 OF 2
MATCHLINE - SEE SHEET 2 OF 2

\\pea\apps\PROJECTS\2024\24-1930_STORAGE\DWG\CONSTRUCTION\C-2.1.DWG - 24-1930.dwg PLOT DATE: 12/26/2025 8:11:56 AM



CAUTION!!
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CLIENT
MARITIME REAL PROPERTY
8800 SPRINGER LN.
UTICA, MI 48316

PROJECT TITLE
MARITIME STORAGE
58359 MAIN STREET
NEW HAVEN, MI 48048

REVISIONS	
PERMIT RESUBMITTAL	7/9/2025
PERMIT RESUBMITTAL	9/26/2025
PERMIT RESUBMITTAL	10/13/2025
PERMIT RESUBMITTAL	10/24/2025
PERMIT RESUBMITTAL	12/5/2025

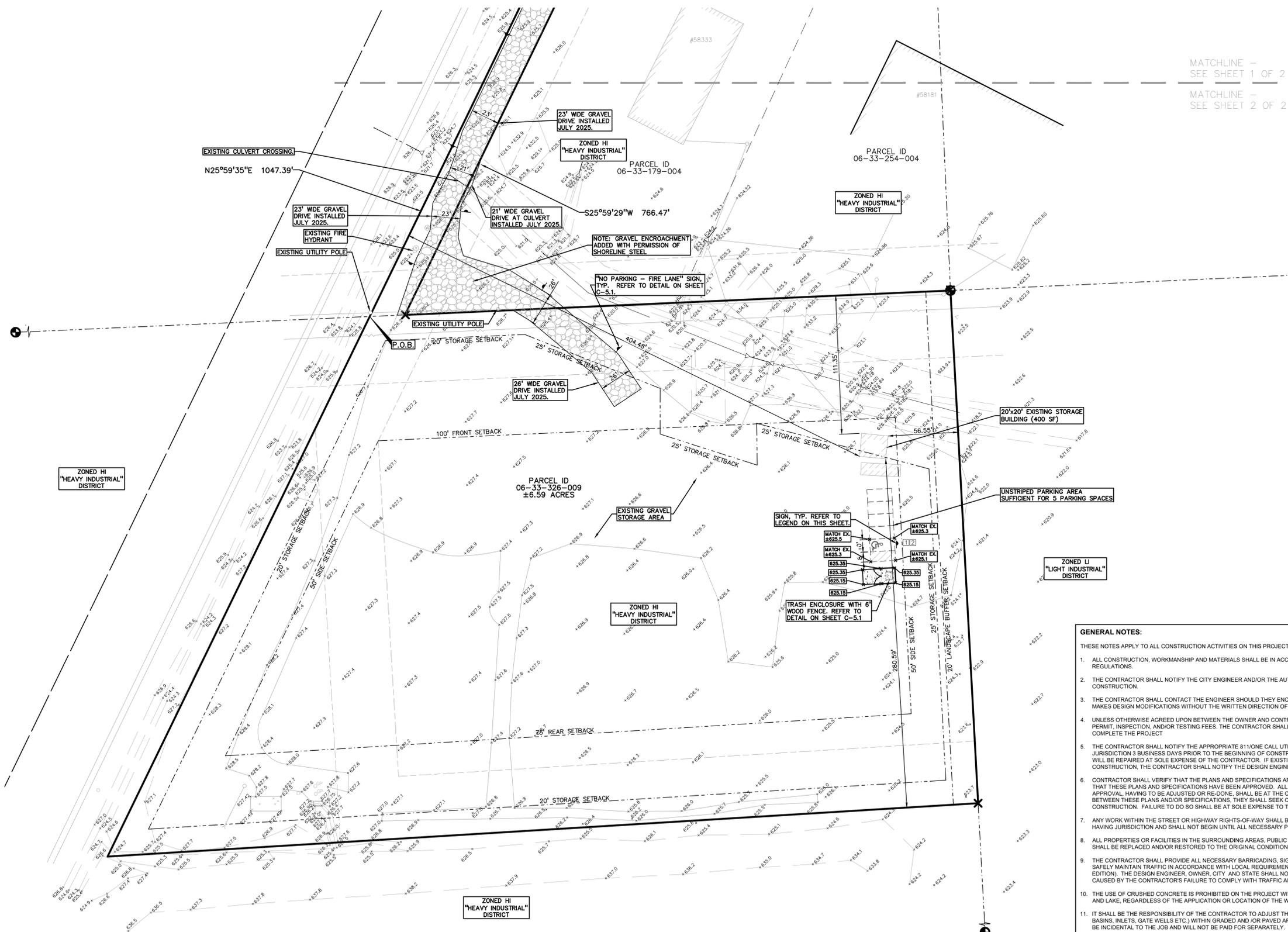
ORIGINAL ISSUE DATE:
DECEMBER 20, 2024

DRAWING TITLE
GRADING AND DIMENSION PLAN - SOUTH

PEA JOB NO.	24-1930
P.M.	BK
DN.	KM
DES.	KM
DRAWING NUMBER:	

C-2.2

TCEC JOB No. NH25103



MATCHLINE - SEE SHEET 1 OF 2
MATCHLINE - SEE SHEET 2 OF 2

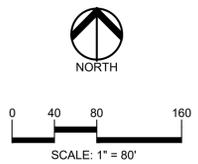
SIGN LEGEND:

'BARRIER FREE PARKING' SIGN	□
'VAN ACCESSIBLE' SIGN	□

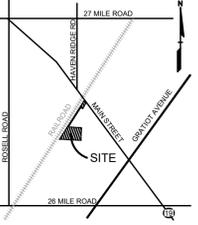
REFER TO DETAIL SHEET FOR SIGN DETAILS

- GENERAL NOTES:**
- THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT.
- ALL CONSTRUCTION, WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT OSHA AND MUNICIPALITY STANDARDS AND REGULATIONS.
 - THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER AND/OR THE AUTHORITY HAVING JURISDICTION 3 BUSINESS DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
 - THE CONTRACTOR SHALL CONTACT THE ENGINEER SHOULD THEY ENCOUNTER ANY DESIGN ISSUES DURING CONSTRUCTION. IF THE CONTRACTOR MAKES DESIGN MODIFICATIONS WITHOUT THE WRITTEN DIRECTION OF THE DESIGN ENGINEER, THE CONTRACTOR DOES SO AT HIS OWN RISK.
 - UNLESS OTHERWISE AGREED UPON BETWEEN THE OWNER AND CONTRACTOR, THE CONTRACTOR SHALL PAY ALL MUNICIPAL, COUNTY, AND STATE PERMIT, INSPECTION, AND/OR TESTING FEES. THE CONTRACTOR SHALL ALSO PROVIDE THE NECESSARY BONDS AND INSURANCE REQUIRED TO COMPLETE THE PROJECT.
 - THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE 811 ONE CALL UTILITY LOCATING CENTER, THE CITY ENGINEER AND/OR THE AUTHORITY HAVING JURISDICTION 3 BUSINESS DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION. IF NO NOTIFICATION IS GIVEN AND DAMAGE RESULTS, SAID DAMAGE WILL BE REPAIRED AT SOLE EXPENSE OF THE CONTRACTOR. IF EXISTING UTILITY LINES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER SO THAT THE CONFLICT MAY BE RESOLVED.
 - CONTRACTOR SHALL VERIFY THAT THE PLANS AND SPECIFICATIONS ARE THE VERY LATEST PLANS AND SPECIFICATIONS AND FURTHERMORE, VERIFY THAT THESE PLANS AND SPECIFICATIONS HAVE BEEN APPROVED. ALL ITEMS CONSTRUCTED BY THE CONTRACTOR PRIOR TO RECEIVING FINAL APPROVAL, HAVING TO BE ADJUSTED OR RE-DONE, SHALL BE AT THE CONTRACTOR'S EXPENSE. SHOULD THE CONTRACTOR ENCOUNTER A CONFLICT BETWEEN THESE PLANS AND/OR SPECIFICATIONS, THEY SHALL SEEK CLARIFICATION IN WRITING FROM THE ENGINEER BEFORE COMMENCEMENT OF CONSTRUCTION. FAILURE TO DO SO SHALL BE AT SOLE EXPENSE TO THE CONTRACTOR.
 - ANY WORK WITHIN THE STREET OR HIGHWAY RIGHTS-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AGENCIES HAVING JURISDICTION AND SHALL NOT BEGIN UNTIL ALL NECESSARY PERMITS HAVE BEEN ISSUED FOR THE WORK.
 - ALL PROPERTIES OR FACILITIES IN THE SURROUNDING AREAS, PUBLIC OR PRIVATE, DESTROYED OR OTHERWISE DISTURBED DUE TO CONSTRUCTION, SHALL BE REPLACED AND/OR RESTORED TO THE ORIGINAL CONDITION BY THE CONTRACTOR.
 - THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BARRICADING, SIGNAGE, LIGHTS AND TRAFFIC CONTROL DEVICES TO PROTECT THE WORK AND SAFELY MAINTAIN TRAFFIC IN ACCORDANCE WITH LOCAL REQUIREMENTS AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION). THE DESIGN ENGINEER, OWNER, CITY, AND STATE SHALL NOT BE HELD LIABLE FOR ANY CLAIMS RESULTING FROM ACCIDENTS OR DAMAGES CAUSED BY THE CONTRACTOR'S FAILURE TO COMPLY WITH TRAFFIC AND PUBLIC SAFETY REGULATIONS DURING THE CONSTRUCTION PERIOD.
 - THE USE OF CRUSHED CONCRETE IS PROHIBITED ON THE PROJECT WITHIN 100 FEET OF ANY WATER COURSE (STREAM, RIVER, COUNTY DRAIN, ETC.) AND LAKE, REGARDLESS OF THE APPLICATION OR LOCATION OF THE WATER COURSE OR LAKE RELATIVE TO THE PROJECT LIMITS.
 - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ADJUST THE TOP OF ALL EXISTING AND PROPOSED STRUCTURES (MANHOLES, CATCH BASINS, INLETS, GATE WELLS ETC.) WITHIN GRADED AND/OR PAVED AREAS TO FINAL GRADE SHOWN ON THE PLANS. ALL SUCH ADJUSTMENTS SHALL BE INCIDENTAL TO THE JOB AND WILL NOT BE PAID FOR SEPARATELY.

\\pea\apps\PROJECTS\2024\134-1330_STORAGE_STORAGE\DWG\CONSTRUCTION\C-2.1.DWG-24-1930.dwg PLOT DATE: 12/2/2025 BY: Becky Klein



CAUTION!!
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CLIENT
MARITIME REAL PROPERTY
 8800 SPRINGER LN.
 LITICA, MI 48116

PROJECT TITLE
MARITIME STORAGE
 58359 MAIN STREET
 NEW HAVEN, MI 48048

REVISIONS

PERMIT RESUBMITTAL	7/9/2025
PERMIT RESUBMITTAL	9/26/2025
PERMIT RESUBMITTAL	10/13/2025
PERMIT RESUBMITTAL	10/24/2025
PERMIT RESUBMITTAL	12/5/2025

ORIGINAL ISSUE DATE:
 DECEMBER 20, 2024

DRAWING TITLE
SOIL EROSION AND SEDIMENTATION CONTROL PLAN

PEA JOB NO. 24-1930
 P.M. BK
 DN. KM
 DES. KM

DRAWING NUMBER:

C-3.0

SYMBOLS: EROSION CONTROL
 [Symbol] SILT FENCE (REFER TO DETAILS ON SHEET C-3.1)

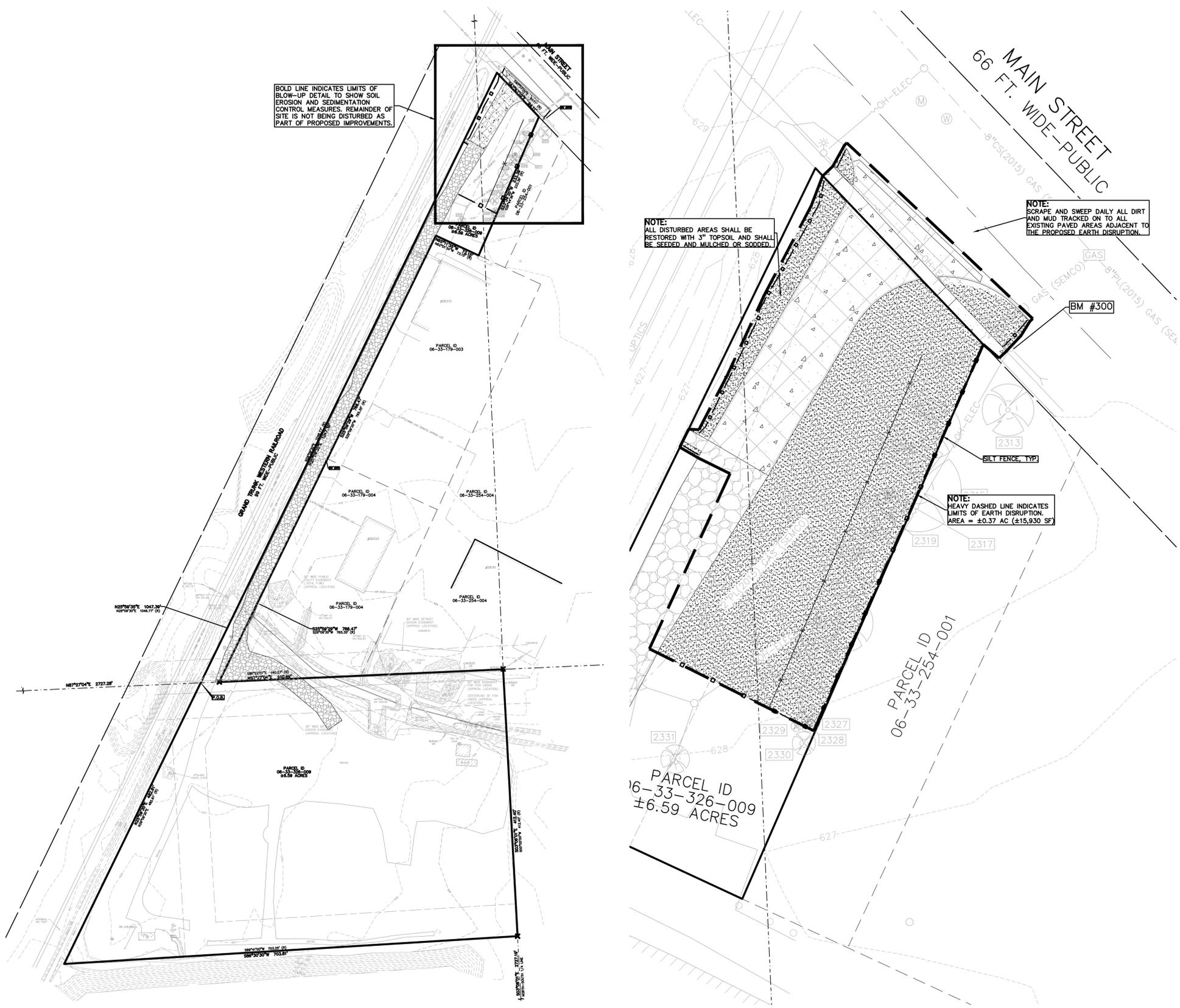
EROSION CONTROL QUANTITIES:
 SILT FENCE 281 LF
 TEMPORARY SEEDING 364 S.Y.

SOIL EROSION AND SEDIMENTATION CONTROL NOTES AND MAINTENANCE NOTES:

- THIS PROJECT SHALL BE CONSTRUCTED IN COMPLIANCE WITH PART 91 OF ACT 451 OF 1994, AS AMENDED, THE SOIL EROSION AND SEDIMENTATION CONTROL ACT AND THE MACOMB COUNTY SOIL EROSION AND SEDIMENTATION CONTROL ORDINANCE.
- ALL EROSION AND SEDIMENTATION CONTROL WORK SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE MACOMB COUNTY PUBLIC WORKS OFFICE.
- EROSION AND ANY SEDIMENTATION FROM WORK ON THIS SITE SHALL BE CONTAINED ON THE SITE AND NOT ALLOWED TO COLLECT ON ANY SITE AREAS OR IN WATERWAYS. WATERWAYS INCLUDE BOTH NATURAL AND MAN MADE OPEN DITCHES, STREAMS, STORM DRAINS, LAKES AND PONDS.
- STAGING THE WORK WILL BE DONE BY THE LANDOWNER OR LANDOWNER'S REPRESENTATIVE AS DIRECTED IN THESE PLANS AND AS REQUIRED TO ENSURE PROGRESSIVE STABILIZATION OF DISTURBED EARTH CHANGE.
- THE LANDOWNER OR LANDOWNER'S REPRESENTATIVE SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF SOIL EROSION AND SEDIMENTATION CONTROL DEVICES.
- THE LANDOWNER OR LANDOWNER'S REPRESENTATIVE SHALL IMPLEMENT AND MAINTAIN THE SOIL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS BEFORE AND AT ALL TIMES DURING CONSTRUCTION ON THIS PROJECT. ANY MODIFICATIONS OR ADDITIONS TO SOIL EROSION CONTROL MEASURES DUE TO CONSTRUCTION CONDITIONS SHALL BE COMPLIED WITH AS REQUIRED OR DIRECTED BY THE MACOMB COUNTY PUBLIC WORKS OFFICE.
- IF ANY OF THE SESC MEASURES ON THE SITE ARE DEEMED INADEQUATE OR INEFFECTIVE, THE MACOMB COUNTY PUBLIC WORKS OFFICE SESC DIVISION HAS THE RIGHT TO REQUIRE ADDITIONAL SESC MEASURES AT THE EXPENSE OF THE LANDOWNER.
- INSTALL SILT FENCE AS INDICATED ON THE PLAN AND AT ADDITIONAL AREAS AS NECESSARY.
 - SILT FENCE SHALL BE INSTALLED PER DETAIL.
 - BUILD UP OF SEDIMENT SHALL BE REMOVED WHEN SEDIMENT ACCUMULATES TO 1/3 TO 1/2 OF THE HEIGHT OF THE SILT FENCE.
 - IF SILT FENCE FABRIC DECOMPOSES OR BECOMES INEFFECTIVE PRIOR TO THE END OF EXPECTED USABLE LIFE AND THE BARRIER IS STILL REQUIRED, THE SILT FENCE SHALL BE REPLACED PROMPTLY.
 - SILT FENCE SHALL BE INSPECTED WEEKLY UNDER NORMAL CONDITIONS, WITHIN 24 HOURS OF RAINFALL AND DAILY DURING A PROLONGED RAIN EVENT. REQUIRED MAINTENANCE SHALL BE PROVIDED PROMPTLY.
- IMMEDIATELY AFTER SEEDING, MULCH ALL SEEDED AREAS WITH UNWEATHERED SMALL GRAIN STRAW, SPREAD UNIFORMLY AT THE RATE OF 1 TO 2 TONS PER ACRE OR 100 POUNDS (2-3 POUNDS PER 100 SQUARE FEET). THIS MULCH SHOULD BE ANCHORED WITH DISC TYPE MULCH ANCHORING TOOL OR OTHER MEANS AS APPROVED BY THE MACOMB COUNTY PUBLIC WORKS OFFICE. MULCH MATTING MAY BE USED IN LIEU OF LOOSE MULCH.
- ALL DIRT TRACKED ONTO ANY ROADWAY SHALL BE REMOVED IMMEDIATELY.
- STREETS AND/OR PARKING AREAS WILL BE SCRAPED ON A DAILY BASIS AND SWEEPED AT A MINIMUM OF ONCE PER WEEK BY THE LANDOWNER OR LANDOWNER'S REPRESENTATIVE.
- PERMANENT SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN 5 CALENDAR DAYS AFTER FINAL GRADING OR THE FINAL EARTH CHANGE HAS BEEN COMPLETED. WHEN IT IS NOT POSSIBLE TO PERMANENTLY STABILIZE A DISTURBED AREA AFTER EARTH CHANGE ACTIVITY CEASES, TEMPORARILY SOIL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED IMMEDIATELY. ALL TEMPORARY SOIL EROSION CONTROL SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED. ALL PERMANENT SOIL EROSION CONTROL MEASURES WILL BE IMPLEMENTED AND ESTABLISHED BEFORE A CERTIFICATE OF COMPLIANCE IS ISSUED.
- FINAL GRADE, ESTABLISHED VEGETATION AND/OR LANDSCAPE ALL DISTURBED AREAS NOT BUILT OR PAVED UPON.
- REMOVE ALL TEMPORARY SOIL EROSION DEVICES AFTER PERMANENT STABILIZATION IS ESTABLISHED.
- SOIL TYPES PER WEB SOIL SURVEY FOR MACOMB COUNTY DATED 12/20/2024:
 HARPANEE CLAY LOAM, 2 TO 6 PERCENT SLOPES
 SIMS CLAY LOAM
- NAME OF NEAREST WATERCOURSE: FISH CREEK
- DISTANCE TO NEAREST WATERCOURSE IN FEET: 0' (ON SITE)
- PARCEL ID NUMBER: 26-06-33-326-009
- NAME(S) AND PHONE NUMBER(S) FOR THE PERSON(S) RESPONSIBLE FOR THE MAINTENANCE OF ALL TEMPORARY AND PERMANENT SOIL EROSION CONTROL MEASURES:
 CONTACT NAME: DAVID ALDERMAN
 COMPANY: MARITIME REAL PROPERTY
 PHONE: 581.949.4500
 EMAIL: DAVID@SHORELINEDEVELOPER.COM
- APPROXIMATE START DATE: 11/01/2025
- APPROXIMATE COMPLETION DATE: 11/30/2025
- TOTAL ACRES DISTURBED = ±0.21 ACRES (±9101 SF)

SEQUENCE OF CONSTRUCTION

START DAY	END DAY	DESCRIPTION
1	5	INSTALL TEMPORARY SOIL EROSION CONTROL MEASURES, SILT FENCES, ETC. AS NECESSARY
1	5	REMOVE ALL PAVEMENT, SIDEWALK, ETC. AS REQUIRED TO INSTALL THE PROPOSED WORK AS SHOWN ON THE DEMOLITION PLAN
1	5	DISPOSE OF ALL EXCESS/UNSUITABLE MATERIALS OFF SITE IN A LEGAL MANNER. NO ON-SITE BURN OR BURY PITS ALLOWED.
5	10	ROUGH GRADE SITE. SEED AND MULCH BLANKETS MUST BE INSTALLED AS SHOWN WITHIN 5 DAYS OF FINAL GRADE. REPAIR AND/OR REINSTALL ANY TEMPORARY SOIL EROSION CONTROL MEASURES THAT WERE DAMAGED DURING GRADING OPERATIONS.
5	30	BEGIN CONSTRUCTION
10	20	FINE GRADE SITE AND PREPARE FOR SITE PAVING OPERATIONS
10	30	INSTALL ALL PAVEMENT, SIDEWALKS, CURBING AS PROPOSED. REPAIR SILT FENCE AND ANY OTHER DAMAGED SOIL EROSION CONTROL MEASURES AS NECESSARY.
25	30	FINAL GRADE, REDISTRIBUTE STOCKPILED TOPSOIL, ESTABLISH VEGETATION AND INSTALL ALL PERMANENT LANDSCAPING IN ALL DISTURBED AREAS NOT BUILT.
25	30	CLEAN PAVEMENT AND REMOVE ALL TEMPORARY SOIL EROSION CONTROL MEASURES. RE-ESTABLISH VEGETATION AS REQUIRED.
25	30	REMOVE SEDIMENTATION CONTROLS ONCE ENTIRE SITE HAS BEEN PERMANENTLY STABILIZED.



BOLD LINE INDICATES LIMITS OF BLOW-UP DETAIL TO SHOW SOIL EROSION AND SEDIMENTATION CONTROL MEASURES. REMAINDER OF SITE IS NOT BEING DISTURBED AS PART OF PROPOSED IMPROVEMENTS.

NOTE:
 ALL DISTURBED AREAS SHALL BE RESTORED WITH 3" TOPSOIL AND SHALL BE SEEDED AND MULCHED OR SODDED.

NOTE:
 SCRAPE AND SWEEP DAILY ALL DIRT AND MUD TRACKED ON TO ALL EXISTING PAVED AREAS ADJACENT TO THE PROPOSED EARTH DISRUPTION.

NOTE:
 HEAVY DASHED LINE INDICATES LIMITS OF EARTH DISRUPTION. AREA = ±0.37 AC (±15,930 SF)

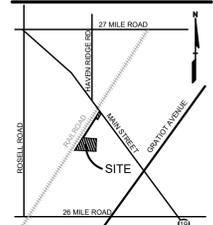
OVERALL SOIL EROSION AND SEDIMENTATION CONTROL MAP
 SCALE 1"=80'

ENTRY DETAIL
 SCALE 1"=20'

\\pea\apps\PROJECTS\2024\24-1930\SHARELINE_STORAGE\DWG\CONSTRUCTION\C-3.1_SESC-24-1930.dwg PLOT DATE: 12/26/2025 BY: Becky Kuhn



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CLIENT
MARITIME REAL PROPERTY
8800 SPRINGER LN.
LITICA, MI 48316

PROJECT TITLE
MARITIME STORAGE
58359 MAIN STREET
NEW HAVEN, MI 48048

REVISIONS	
PERMIT RESUBMITTAL	7/9/2025
PERMIT RESUBMITTAL	9/26/2025
PERMIT RESUBMITTAL	10/13/2025
PERMIT RESUBMITTAL	10/24/2025
PERMIT RESUBMITTAL	12/5/2025

ORIGINAL ISSUE DATE:
DECEMBER 20, 2024

DRAWING TITLE
SOIL EROSION AND SEDIMENTATION CONTROL NOTES AND DETAILS

PEA JOB NO.	24-1930
P.M.	BK
DN	KM
DES.	KM
DRAWING NUMBER:	

CONSTRUCTION MATERIAL SUBMITTALS

UNLESS REQUIRED OTHERWISE IN THE PROJECT SPECIFICATIONS, THE CONTRACTOR SHALL ONLY SUBMIT THE FOLLOWING CONSTRUCTION MATERIAL SUBMITTALS, AS APPLICABLE TO THE PLANS, FOR REVIEW BY THE ENGINEER. UNLESS APPROVED IN ADVANCE AND IN WRITING BY THE ENGINEER, ANY MATERIAL SUBMITTALS PROVIDED TO THE ENGINEER FOR REVIEW IN ADDITION TO THIS LIST SHALL BE RETURNED TO THE CONTRACTOR WITHOUT A REVIEW BEING PERFORMED.

- SOIL EROSION AND SEDIMENTATION CONTROL MEASURES
- PAVEMENT AGGREGATE BASE MATERIAL WITH ALL MATERIAL DATA INCLUDED IN THE SUBMITTAL BEING DATED WITHIN 60 DAYS OF THE SUBMITTAL UNLESS APPROVED OTHERWISE BY THE ENGINEER
- PAVEMENT MIX DESIGNS SUBMITTED FOR REVIEW BY THE ENGINEER MUST FOLLOW THE CURRENT MOOT REVIEW CHECKLISTS AS SUMMARIZED BELOW AND ALL MATERIAL DATA INCLUDED IN THE SUBMITTAL BEING DATED WITHIN 60 DAYS OF THE SUBMITTAL UNLESS APPROVED OTHERWISE BY THE ENGINEER:
 - 8.1. CONCRETE MIX DESIGN REVIEW CHECKLIST (FORM 2000)
 - 8.2. SUPERPAVE MIX DESIGN CHECKLIST (FORM 1862)
 - 8.3. MARSHALL MIX DESIGN CHECKLIST (FORM 1849)
- SITE FENCING AND GATES INCLUDING FOOTINGS
- SITE RAILINGS INCLUDING FOOTING OR EMBEDMENTS
- ANY ITEMS SHOWN IN THE PLANS OR DETAIL SHEETS THAT SPECIFICALLY STATE FOR THE CONTRACTOR TO SUBMIT A SHOP DRAWING TO THE ENGINEER FOR REVIEW. THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO:
 - ** ANY SPECIALTY ITEMS SHOWN IN THE PLANS OR DETAIL SHEETS THAT SPECIFICALLY DO NOT STATE FOR THE CONTRACTOR SHALL SUBMIT A SHOP DRAWING TO THE ENGINEER FOR REVIEW BUT THE CONTRACTOR REQUESTS TO BE REVIEWED. THE CONTRACTOR'S REQUEST FOR REVIEW MUST BE IN WRITING AND APPROVED BY THE ENGINEER PRIOR TO SUBMITTING THE INFORMATION.

SOIL EROSION CONTROL SEQUENCE OF OPERATIONS:

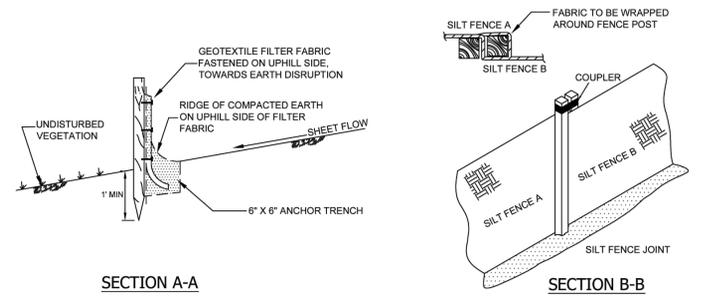
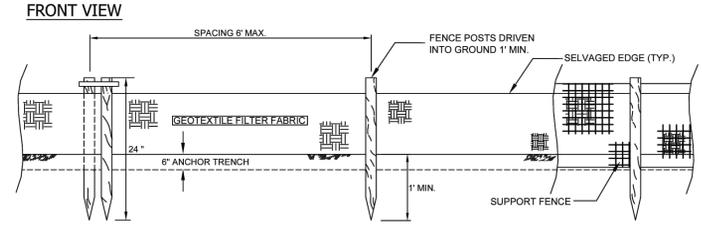
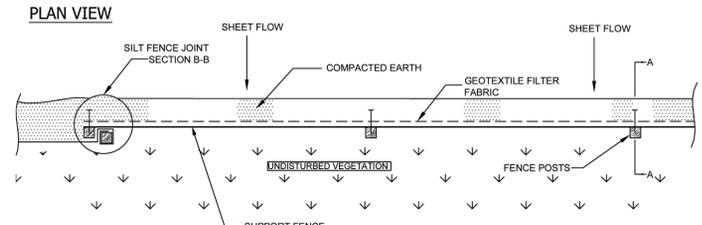
- PLACE SILT FENCE AS SHOWN ON THIS PLAN.
- DISPOSE OF ALL EXCESS, UNSUITABLE MATERIALS OFF SITE IN A LEGAL MANNER. NO BURN OR BURY PITS WILL BE ALLOWED.
- UNSUITABLE MATERIALS CONSIST OF, BUT ARE NOT NECESSARILY LIMITED TO THE FOLLOWING: CONCRETE, ASPHALT, TREES, BRUSH, STUMPS, ROOTS, OR OTHER MISCELLANEOUS DEBRIS OR TRASH.
- BEGIN GATE CONSTRUCTION.
- APPLY TOPSOIL, SEED AND MULCH TO ALL DISTURBED AREAS UPON COMPLETION OF GATE INSTALLATION. THE CONTRACTOR SHALL STAGE CONSTRUCTION ACTIVITIES IN ORDER TO MINIMIZE THE EXPOSURE OF UNSTABILIZED AREAS.
- CLEAN PAVEMENT AND STORM SEWERS. REMOVE SILT FENCE ONCE VEGETATION HAS BEEN ESTABLISHED.
- ALL DIRT AND MUD TRACKED ONTO PUBLIC ROADS SHALL BE REMOVED PROMPTLY.

SESC MAINTENANCE SCHEDULE/NOTES:

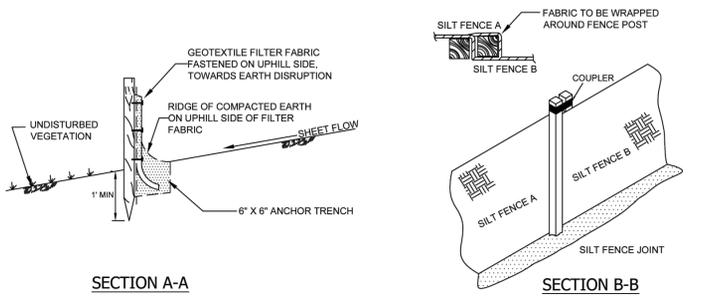
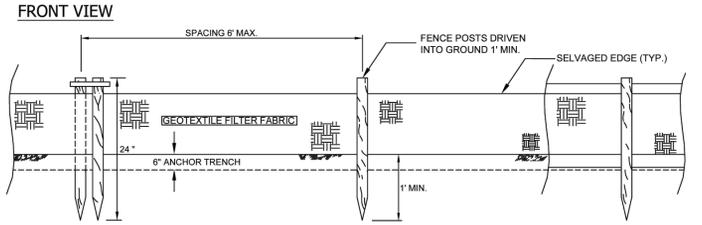
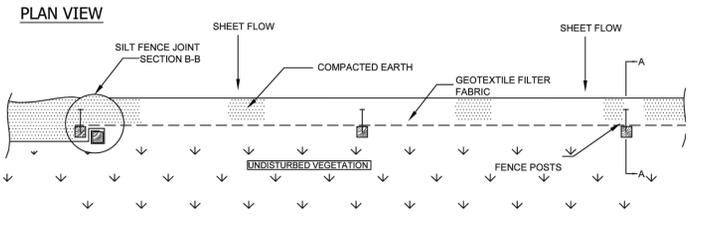
THE CONTRACTOR SHALL INSPECT THE SOIL EROSION/SEDIMENTATION DEVICES ONCE EACH WEEK AND/OR WITHIN 24 HOURS OF A RAINFALL EVENT WHICH RESULTS IN A STORM WATER DISCHARGE FROM THE SITE. THE FOLLOWING STEPS SHALL BE IMPLEMENTED IF ANY DAMAGE HAS RESULTED:

- ANY DEBRIS OR DIRT ON ANY ROADWAY RESULTING FROM CONSTRUCTION TRAFFIC SHALL BE CLEANED IN A PROMPT MANNER BY THE CONTRACTOR. THE CONSTRUCTION DRIVE SHALL BE CLEANED AT THE END OF EACH DAY.
- SILT FENCE MAINTENANCE SHALL INCLUDE THE REMOVAL OF ANY BUILT-UP SEDIMENT WHEN THE SEDIMENT HEIGHT ACCUMULATES TO 1/3 TO 1/2 OF THE HEIGHT OF THE FENCE. THE CONTRACTOR IS RESPONSIBLE TO REMOVE, REPLACE, RE-TRENCH, OR RE-BACKFILL THE SILT FENCE SHOULD IT FAIL OR BE DAMAGED DURING CONSTRUCTION.

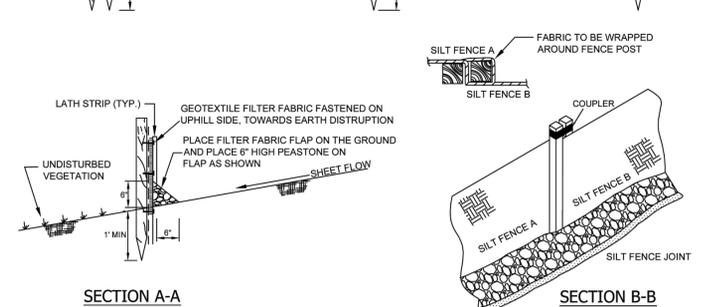
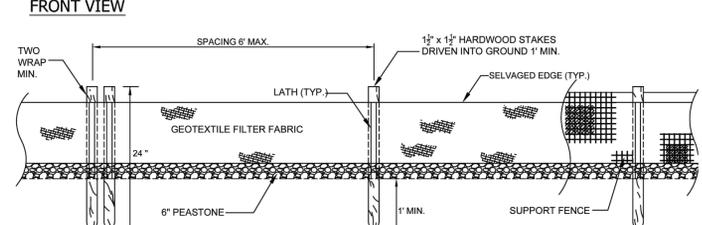
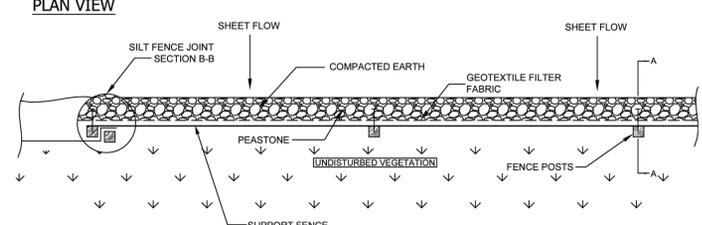
SILT FENCE WITH SUPPORT FENCE (SESC-5)



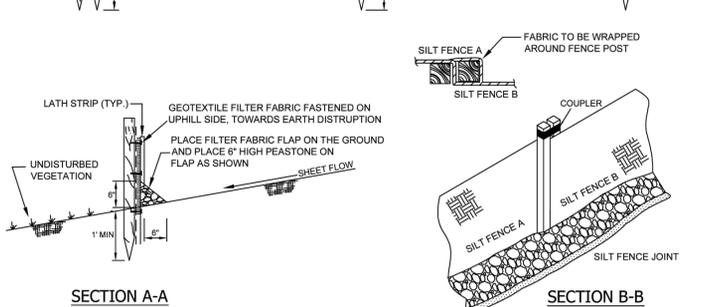
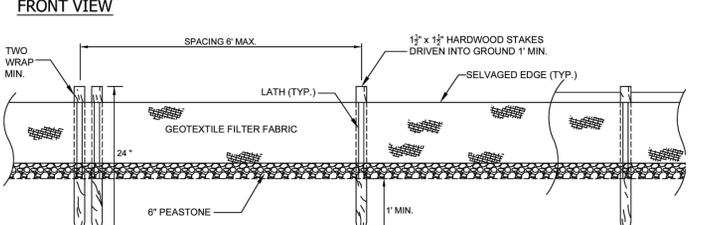
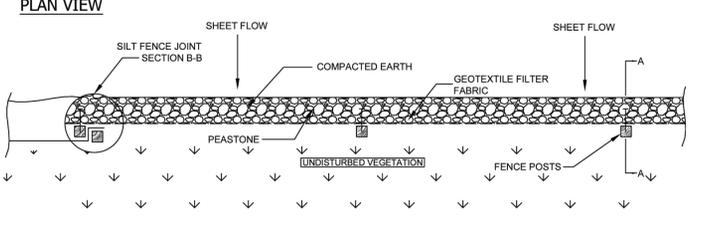
SILT FENCE WITHOUT SUPPORT FENCE (SESC-6)



WINTER/FROZEN GROUND SILT FENCE WITH SUPPORT FENCE (SESC-7)

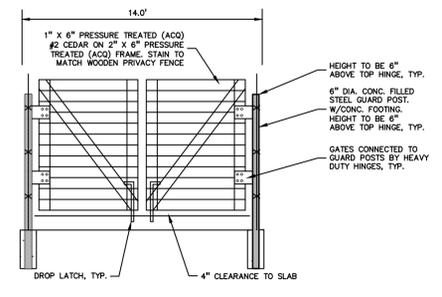
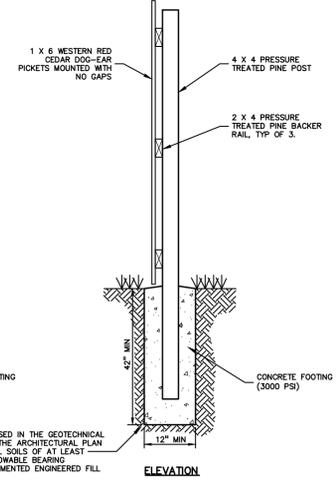
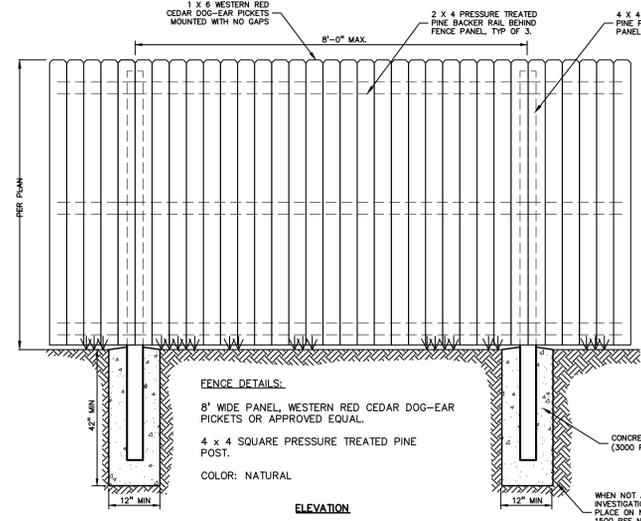
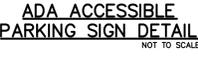
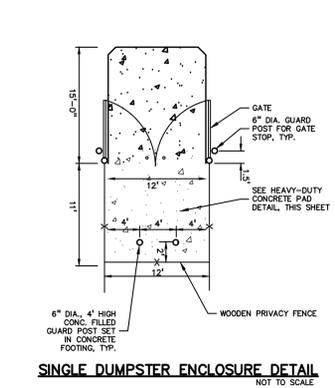
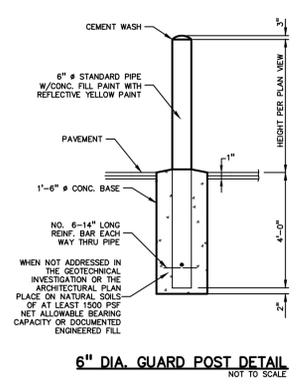
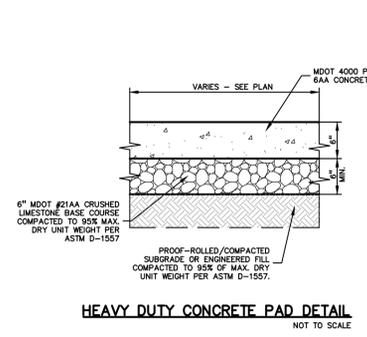
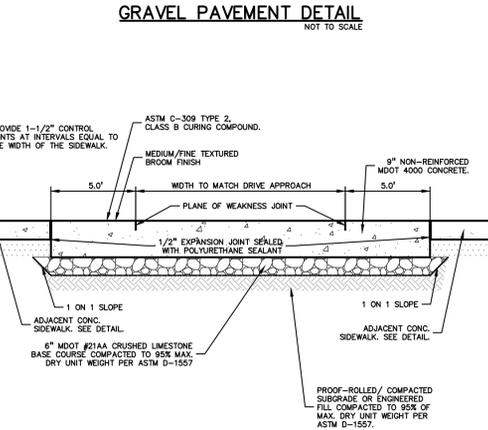
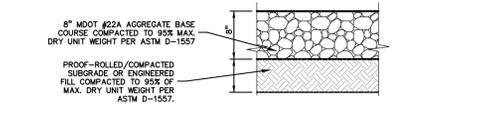
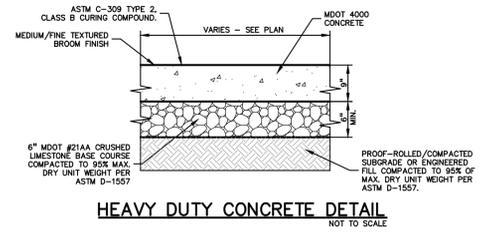


WINTER/FROZEN GROUND SILT FENCE WITHOUT SUPPORT FENCE (SESC-8)

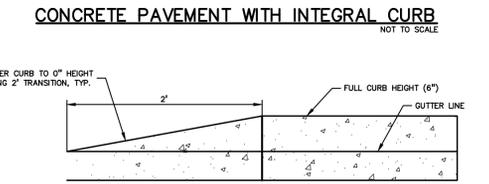
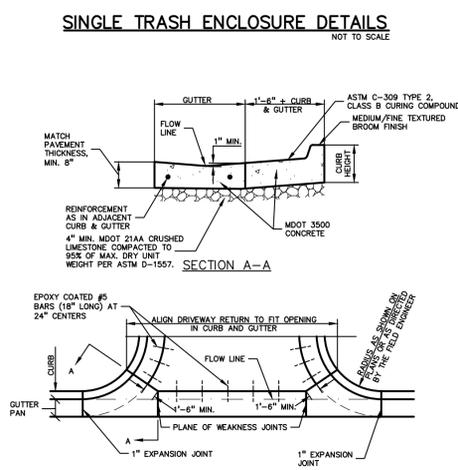
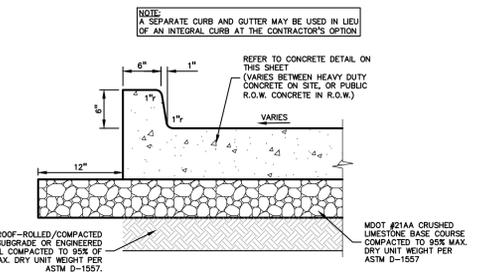
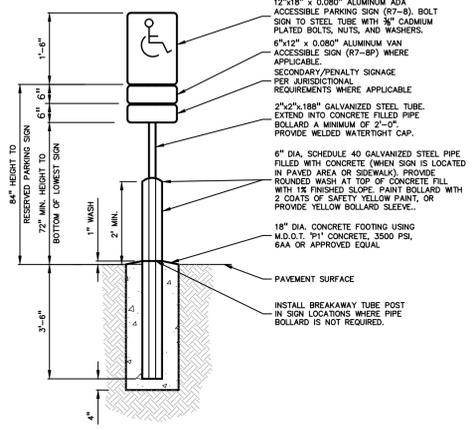
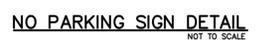




CAUTION!!
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- ADA ACCESSIBLE SIGN NOTES:**
- ONE SIGN IS REQUIRED AT EACH ADA ACCESSIBLE PARKING SPACE.
 - ALL SIGNS SHALL COMPLY WITH THE LATEST STANDARDS OF THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD).
 - WHEN TWO ADA ACCESSIBLE PARKING SPACES ARE ADJACENT AND FACING EACH OTHER, TWO SIGNS ARE REQUIRED, BUT CAN BE MOUNTED ON THE SAME POST.
 - SIGN POSTS SHALL BE 2" NOM. SQUARE 14-GAUGE GALVANIZED STEEL TUBE WITH 7/16" HOLES AT 1" CENTERS. POSTS SHALL TELESCOPE INSIDE ANCHOR POSTS A MINIMUM OF 12".
 - ANCHOR POSTS SHALL BE 2.25" NOM. SQUARE 12-GAUGE GALVANIZED STEEL POST, A MINIMUM OF 3 FEET LONG.
 - IF THESE NOTES AND DETAILS CONFLICT WITH LOCAL CODES AND ORDINANCES, THE STRICTER REQUIREMENT SHOULD BE USED.
 - ALTERNATE MATERIALS MAY BE USED IF IN COMPLIANCE WITH ADA GUIDELINES AND LOCAL REQUIREMENTS.



CLIENT
MARITIME REAL PROPERTY
8800 SPRINGER LN.
LITICA, MI 48136

PROJECT TITLE
MARITIME STORAGE
58359 MAIN STREET
NEW HAVEN, MI 48048

REVISIONS	
PERMIT RESUBMITTAL	7/9/2025
PERMIT RESUBMITTAL	9/26/2025
PERMIT RESUBMITTAL	10/13/2025
PERMIT RESUBMITTAL	10/24/2025
PERMIT RESUBMITTAL	12/5/2025

ORIGINAL ISSUE DATE:
DECEMBER 20, 2024

DRAWING TITLE
DETAILS

PEA JOB NO.	24-1930
P.M.	BK
DN	KM
DES.	KM
DRAWING NUMBER:	



SEE PLAN FOR SCALE



CAUTION!!
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CLIENT
MARITIME REAL PROPERTY
8800 SPRINGER LN.
UTICA, MI 48316

PROJECT TITLE
MARITIME STORAGE
58359 MAIN STREET
NEW HAVEN, MI 48048

REVISIONS

PERMIT RESUBMITTAL	7/9/2025
PERMIT RESUBMITTAL	9/26/2025
PERMIT RESUBMITTAL	10/13/2025
PERMIT RESUBMITTAL	10/24/2025
PERMIT RESUBMITTAL	12/5/2025

ORIGINAL ISSUE DATE:
DECEMBER 20, 2024

DRAWING TITLE
LANDSCAPE PLAN - NORTH

PEA JOB NO.	24-1930
P.M.	BK
DN.	CAL
DES.	JLE
DRAWING NUMBER:	

LANDSCAPE CALCULATIONS:
PER VILLAGE OF NEW HAVEN ZONING ORDINANCE (H4) HEAVY INDUSTRIAL.

BUFFER AREA 1: §515-152(E) ADJ TO ROAD = B REQUIRED: 20' WIDE BUFFER, 1 DEC OR EVG AND 4 SHRUBS / 15 LF = 63 LF / 15' * 4 = 4 DEC OR EVG AND 17 SHRUBS PROVIDED: 20' WIDE BUFFER, 4 DEC TREES, AND 17 SHRUBS
BUFFER AREA 2: §515-152(E) ADJ TO RAILROAD = B REQUIRED: 20' WIDE BUFFER, 1 DEC OR EVG AND 4 SHRUBS / 15 LF = 194 LF / 15' * 4 = 13 DEC OR EVG AND 52 SHRUBS PROVIDED: 11' WIDE (AVERAGE) BUFFER AND 40 NARROW EVERGREEN TREES
BUFFER AREA 3: §515-152(E) ADJ TO HEAVY INDUSTRIAL = B REQUIRED: 20' WIDE BUFFER, 1 DEC OR EVG AND 4 SHRUBS / 15 LF = 75 LF / 15' * 4 = 5 DEC OR EVG AND 20 SHRUBS PROVIDED: 20' WIDE BUFFER AND 10 NARROW EVERGREEN TREES
BUFFER AREA 4: §515-152(E) ADJ TO RESIDENTIAL OFFICE = B REQUIRED: 20' WIDE BUFFER, 1 DEC OR EVG AND 4 SHRUBS / 15 LF AND 6-FOOT HIGH WALL OR FENCE = 158 LF / 15' * 4 = 11 DEC OR EVG AND 42 SHRUBS AND 6-FOOT HIGH WALL OR FENCE PROVIDED: 20' WIDE BUFFER, 8 EXISTING DEC TREES, 31 SHRUBS, AND 8-FOOT HIGH WOOD FENCE
BUFFER AREA 5: §515-91(B) ADJ TO LIGHT INDUSTRIAL = D REQUIRED: 20' WIDE BUFFER, 1 DEC OR EVG AND 4 SHRUBS / 30 LF = 412 LF / 30' * 4 = 14 DEC OR EVG AND 55 SHRUBS PROVIDED: NONE
INTERIOR LANDSCAPING: §515-91(D) REQUIRED: 5% OF TOTAL LOT AREA, WITH 1 DEC OR EVG AND 2 SHRUBS PER 400 SF = 287,161'.05 14,358 SF WITH 14,358' / 400' * 2 = 36 TREES AND 72 SHRUBS PROVIDED: NONE

WAIVERS REQUESTED

BUFFER AREA 2: NORTHWEST BOUNDARY ADJACENT TO RAILROAD ROW.
APPLICABLE CODE: SECTIONS 515-152E, AND 515-91B
BUFFER TYPE REQUIRED: A-1, A-2, OR B
BUFFER TYPE PROPOSED: B
A WAIVER IS REQUESTED FOR AN AVERAGE REDUCTION IN WIDTH OF 9 FEET, AND A REDUCTION IN LENGTH OF 75 FEET, AS WELL AS A REDUCTION OF 52 SHRUBS.

BUFFER AREA 3: SOUTHEAST BOUNDARY ADJACENT TO HEAVY INDUSTRIAL ZONING, WITHIN 100 FEET OF RESIDENTIAL OFFICE ZONING.
APPLICABLE CODE: SECTIONS 515-152E, AND 515-91B
BUFFER TYPE REQUIRED: A-1, A-2, OR B
BUFFER TYPE PROPOSED: B
A WAIVER IS REQUESTED TO RELOCATE THE BUFFER 75 FEET TO THE NORTHEAST (ALONG THE EXISTING FENCE LINE), AND FOR A REDUCTION OF 20 SHRUBS.

BUFFER AREA 4: SOUTHEAST BOUNDARY ADJACENT TO RESIDENTIAL OFFICE ZONING.
APPLICABLE CODE: SECTIONS 515-152E, AND 515-91B
BUFFER TYPE REQUIRED: A-1, A-2, OR B PLUS 6 FOOT WALL OR FENCE.
BUFFER TYPE PROPOSED: B PLUS 8 FOOT WOOD FENCE
A WAIVER IS REQUESTED FOR A REDUCTION IN LENGTH OF 75 FEET, AS WELL AS A REDUCTION OF 3 TREES AND 11 SHRUBS.

BUFFER AREA 5: SOUTHEAST BOUNDARY ADJACENT TO LIGHT INDUSTRIAL ZONING.
APPLICABLE CODE: SECTION 515-91B
BUFFER TYPE REQUIRED: D
BUFFER TYPE PROPOSED: NONE
A WAIVER IS REQUESTED FOR THIS REQUIREMENT.

INTERIOR LANDSCAPING:
APPLICABLE CODE: SECTION 515-91D
AREA REQUIRED: 14,358 SF
AREA PROPOSED: NONE
ORDINANCE REQUIREMENTS MET? NO.
A WAIVER IS REQUESTED FOR THIS REQUIREMENT.

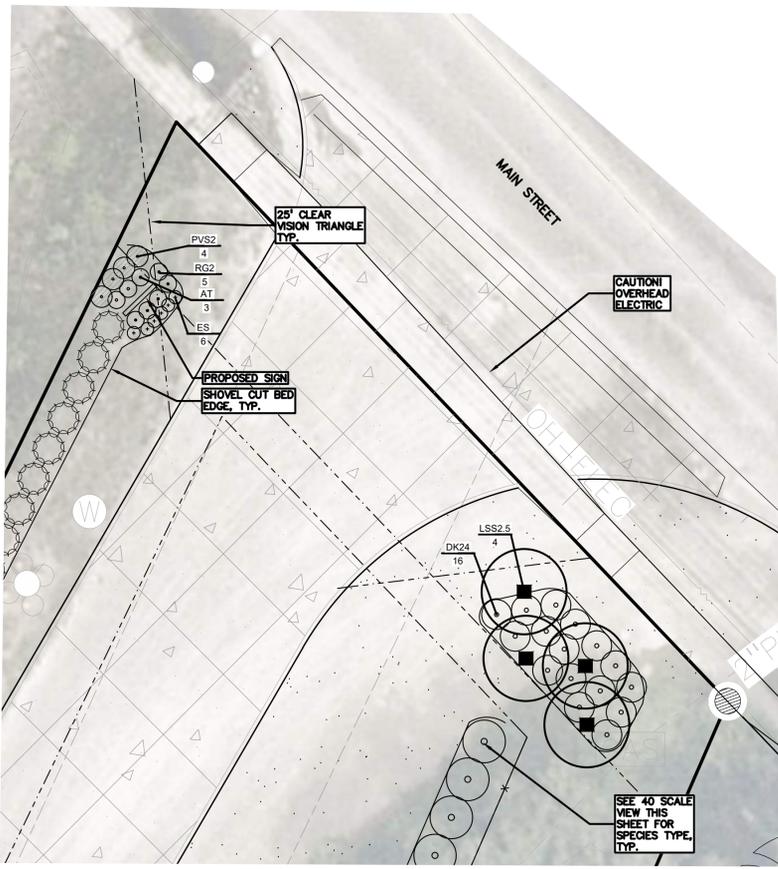
PLANT SCHEDULE

CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING	DESIGNATION	REMARKS
DECIDUOUS TREES								
LSS25	4	LIGUIDAMBAR STYRACIFLUA 'SLENDER SILHOUETTE'	SLENDER SILHOUETTE SWEET GUM	2.5" CAL.	B&B	PER PLAN	NON-NATIVE	
SUBTOTAL:								
EVERGREEN TREES								
TOS4	50	THUJA OCCIDENTALIS 'SMARGO'	EMERALD GREEN ARBORVITAE	4' HT.	B&B	36" O.C.	NATIVE	
SUBTOTAL:								
SHRUBS								
DK24	16	DIERVILLA X 'G2X88544'	KODIAK® ORANGE DIERVILLA	24" HT.	B&B OR CONT.	4' O.C.	NON-NATIVE	
JC24	3	JUNIPERUS SABINA 'MONNA'	CALGARY CARPET® JUNIPER	24" SPRD	CONT.	3' O.C.	NON-NATIVE	
POM24	31	PHYSOCARPUS OPULIFOLIUS 'MONLO'	DIABOLO® NINEBARK	24" HT.	B&B OR CONT.	5' O.C.	NATIVE	
SUBTOTAL:								
PERENNIALS								
AT	13	ASCLEPIAS TUBEROSA	BUTTERFLY MILKWEED	1 GAL.	POT	2' O.C.	NATIVE	
ES	6	ECHINACEA X 'BALSOMED'	SOMBRERO® SALSA RED CONEFLOWER	1 GAL.	POT	18" O.C.	NATIVE	
PVS2	8	PANICUM VIRGATUM 'SHENANDOAH'	SHENANDOAH SWITCH GRASS	1 GAL.	POT	30" O.C.	NATIVE	
RC2	13	RUBICECKIA FULGIDA SULLIVANTH 'GOLDSTURM'	GOLDSTURM CONEFLOWER	1 GAL.	POT	18" O.C.	NATIVE	
SS2	8	SCHIZACHYRIUM SCOPARIUM 'THE BLUES'	THE BLUES LITTLE BLUESTEM	1 GAL.	POT	2' O.C.	NATIVE	
SUBTOTAL:								

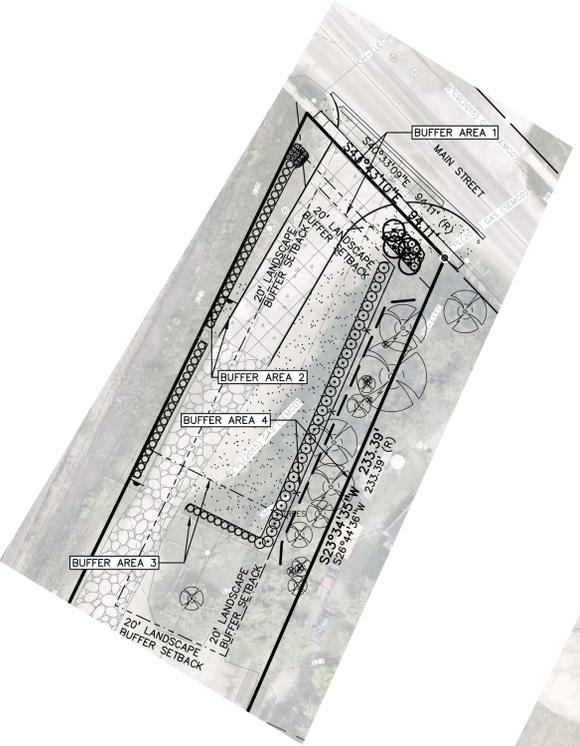
KEY:

- = DECIDUOUS TREES
- = DECIDUOUS SHRUBS
- = EVERGREEN TREES
- = PERENNIAL PLANTS
- = EXISTING TREES TO REMAIN WITH TREE PROTECTION FENCE
- = EXISTING TREE / TREE TAG TO REMAIN
- = NON-IRRIGATED SEED LAWN

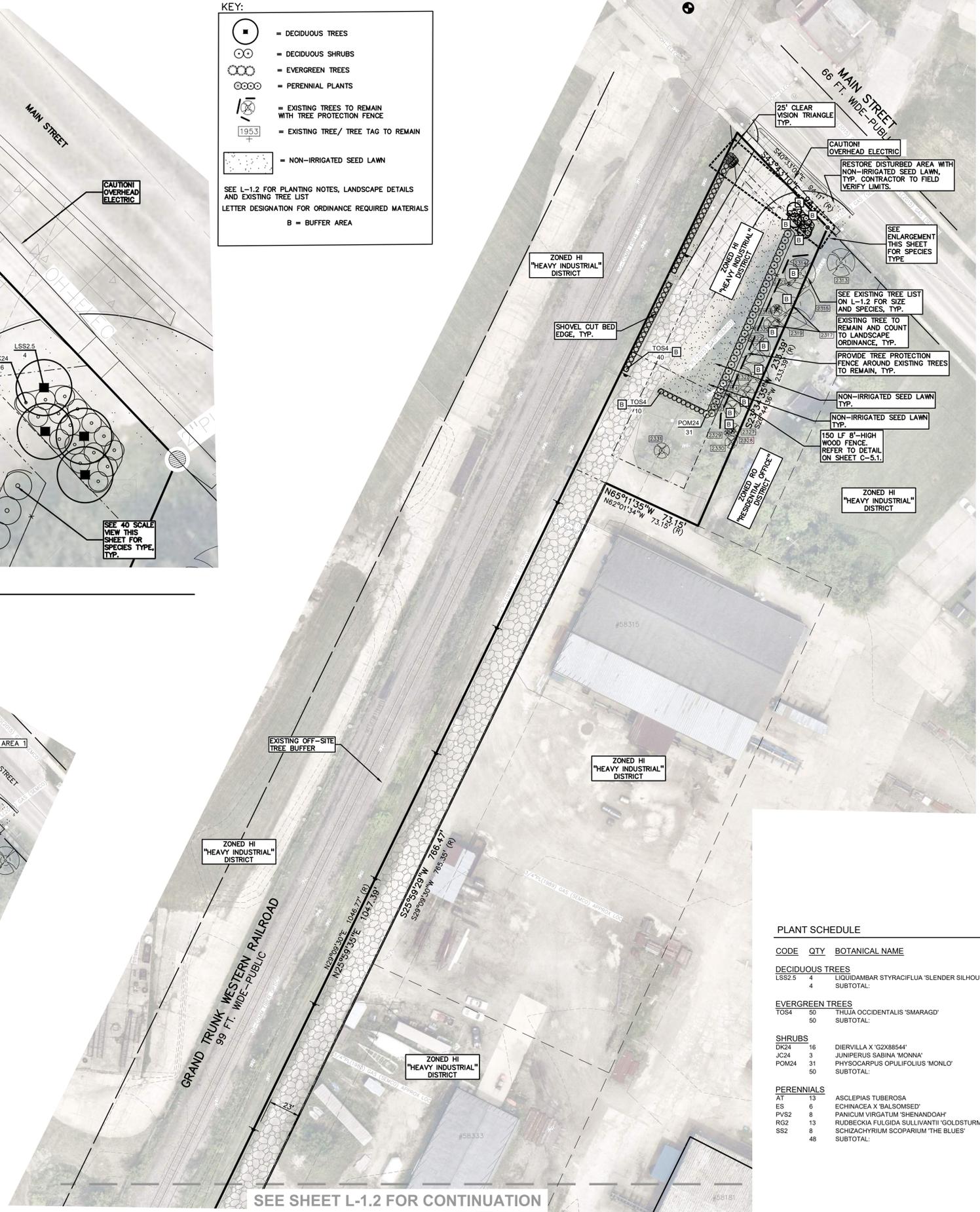
SEE L-1.2 FOR PLANTING NOTES, LANDSCAPE DETAILS AND EXISTING TREE LIST
LETTER DESIGNATION FOR ORDINANCE REQUIRED MATERIALS
B = BUFFER AREA



PLAN ENLARGEMENT SCALE : 1" = 10' 0"

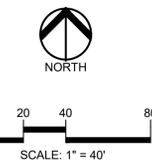


BUFFER AREA DIAGRAM SCALE : 1" = 40' 0"

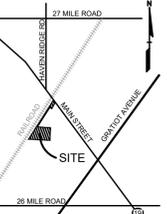


SCALE : 1" = 40' 0"

SEE SHEET L-1.2 FOR CONTINUATION



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MARITIME REAL PROPERTY
8800 SPRINGER LN.
UTICA, MI 48316

PROJECT TITLE
MARITIME STORAGE
58359 MAIN STREET
NEW HAVEN, MI 48048

REVISIONS	
PERMIT RESUBMITTAL	7/9/2025
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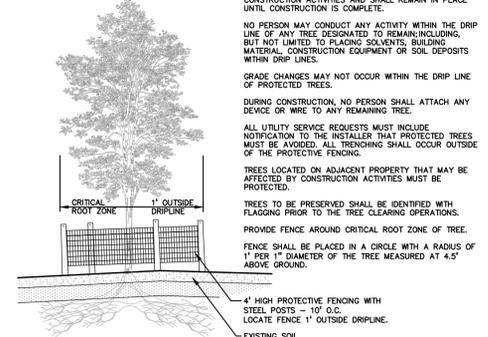
DRAWING TITLE
LANDSCAPE PLAN - SOUTH

PEA JOB NO.	24-1930
P.M.	BK
D.N.	CAL
DES.	JLE
DRAWING NUMBER:	

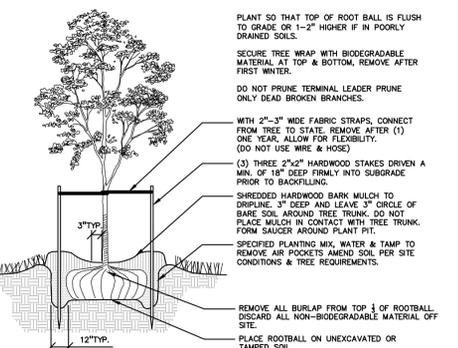
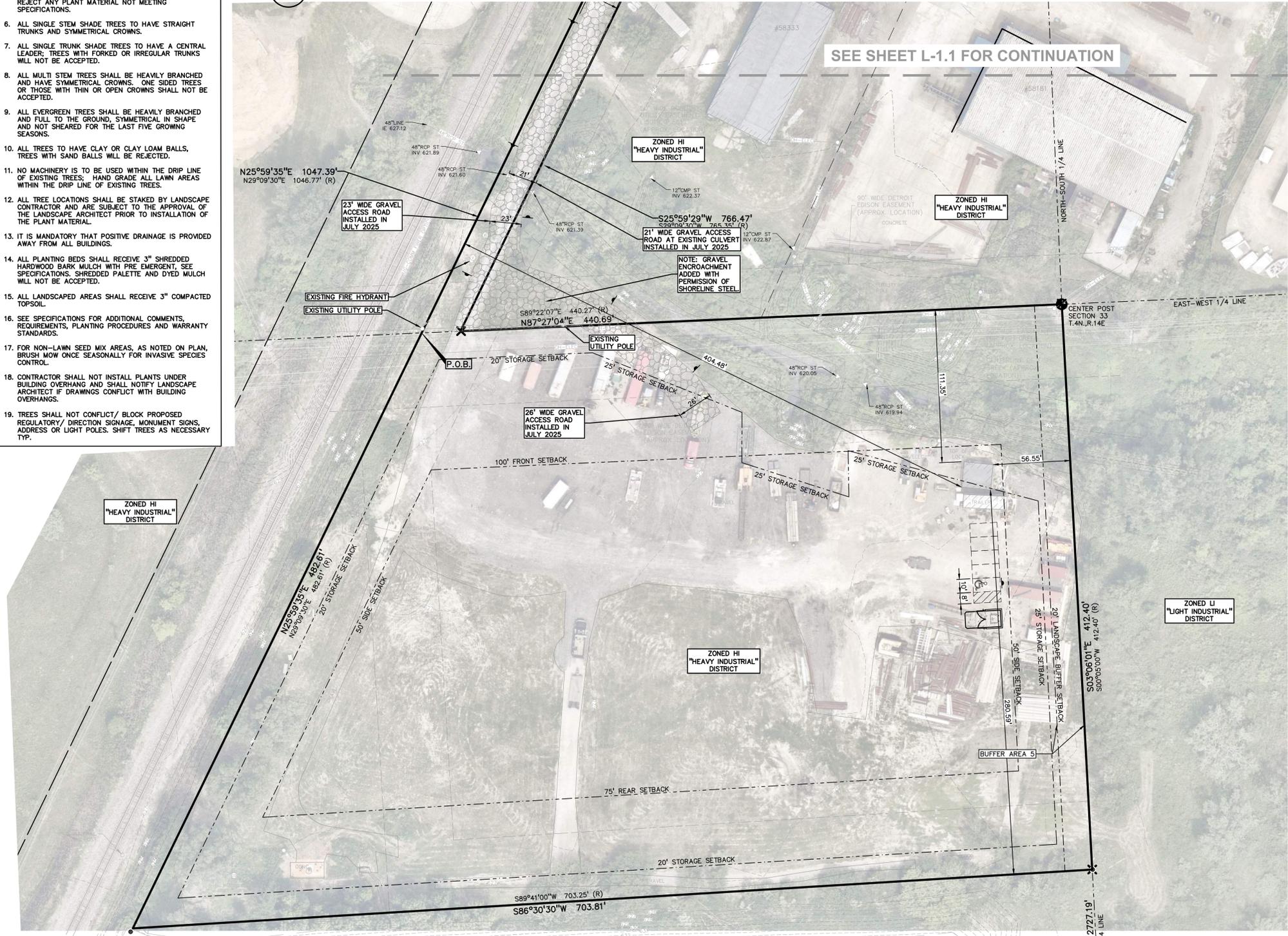
TAG NO.	CODE	DBH	COMMON NAME	LATIN NAME	COND
2313	NS	20	Norway Spruce	Picea Abies	Good
2314	MW	22	White Mulberry	Morus alba	Fair
2315	SM	33	Silver Maple	Acer saccharinum	Fair
2317	E	4	American Elm	Ulmus americana	Fair
2318	E	8	American Elm	Ulmus americana	Fair
2319	MW	3	White Mulberry	Morus alba	Fair
2320	E	11.9	American Elm	Ulmus americana	Good
2321	BX	3	Box elder	Acer negundo	Fair
2322	E	22	American Elm	Ulmus americana	Fair
2323	MW	22,14,12	White Mulberry	Morus alba	Good
2324	MW	13	White Mulberry	Morus alba	Fair
2325	BX	12,7	Box elder	Acer negundo	Poor
2327	BX	9,4	Box elder	Acer negundo	Poor
2328	BX	4	Box elder	Acer negundo	Fair
2329	BX	4	Box elder	Acer negundo	Fair
2330	BX	9	Box elder	Acer negundo	Fair
2331	BX	11	Box elder	Acer negundo	Fair

ALL TREES TO REMAIN ON SITE

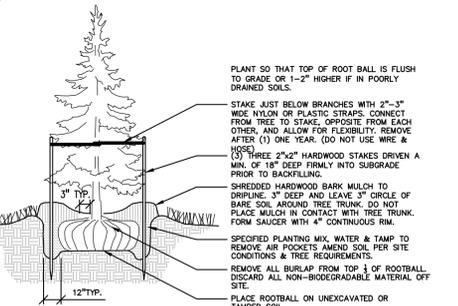
- GENERAL PLANTING NOTES:**
- LANDSCAPE CONTRACTOR SHALL VISIT SITE, INSPECT EXISTING SITE CONDITIONS AND REVIEW PROPOSED PLANTING AND RELATED WORK. IN CASE OF DISCREPANCY BETWEEN PLAN AND PLANT LIST, PLAN SHALL GOVERN QUANTITIES. CONTACT LANDSCAPE ARCHITECT WITH ANY CONCERNS.
 - CONTRACTOR SHALL VERIFY LOCATIONS OF ALL ON SITE UTILITIES PRIOR TO BEGINNING CONSTRUCTION ON HIS/HER PHASE OF WORK. ELECTRIC, GAS, TELEPHONE, CABLE TELEVISION MAY BE LOCATED BY CALLING MISS DIG 1-800-482-7171. ANY DAMAGE OR INTERRUPTION OF SERVICES SHALL BE THE RESPONSIBILITY OF CONTRACTOR. CONTRACTOR SHALL COORDINATE ALL RELATED ACTIVITIES WITH OTHER TRADES ON THE JOB AND SHALL REPORT ANY UNACCEPTABLE JOB CONDITIONS TO OWNER'S REPRESENTATIVE PRIOR TO COMMENCING.
 - ALL PLANT MATERIAL TO BE PREMIUM GRADE NURSERY STOCK AND SHALL SATISFY AMERICAN ASSOCIATION OF NURSERYMEN STANDARD FOR NURSERY STOCK. ALL LANDSCAPE MATERIAL SHALL BE NORTHERN GROWN, NO. 1, GRADE.
 - CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON LANDSCAPE PLAN PRIOR TO PRICING THE WORK.
 - THE OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO REJECT ANY PLANT MATERIAL NOT MEETING SPECIFICATIONS.
 - ALL SINGLE STEM SHADE TREES TO HAVE STRAIGHT TRUNKS AND SYMMETRICAL CROWNS.
 - ALL SINGLE TRUNK SHADE TREES TO HAVE A CENTRAL LEADER; TREES WITH FORKED OR IRREGULAR TRUNKS WILL NOT BE ACCEPTED.
 - ALL MULTI STEM TREES SHALL BE HEAVILY BRANCHED AND HAVE SYMMETRICAL CROWNS. ONE SIDED TREES OR THOSE WITH THIN OR OPEN CROWNS SHALL NOT BE ACCEPTED.
 - ALL EVERGREEN TREES SHALL BE HEAVILY BRANCHED AND FULL TO THE GROUND, SYMMETRICAL IN SHAPE AND NOT SHEARED FOR THE LAST FIVE GROWING SEASONS.
 - ALL TREES TO HAVE CLAY OR CLAY LOAM BALLS, TREES WITH SAND BALLS WILL BE REJECTED.
 - NO MACHINERY IS TO BE USED WITHIN THE DRIP LINE OF EXISTING TREES. HAND GRADE LAWN AREAS WITHIN THE DRIP LINE OF EXISTING TREES.
 - ALL TREE LOCATIONS SHALL BE STAKED BY LANDSCAPE CONTRACTOR AND ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION OF THE PLANT MATERIAL.
 - IT IS MANDATORY THAT POSITIVE DRAINAGE IS PROVIDED AWAY FROM ALL BUILDINGS.
 - ALL PLANTING BEDS SHALL RECEIVE 3" SHREDDED HARDWOOD BARK MULCH WITH PRE EMERGENT, SEE SPECIFICATIONS. SHREDDED PALETTE AND DYED MULCH WILL NOT BE ACCEPTED.
 - ALL LANDSCAPED AREAS SHALL RECEIVE 3" COMPACTED TOPSOIL.
 - SEE SPECIFICATIONS FOR ADDITIONAL COMMENTS, REQUIREMENTS, PLANTING PROCEDURES AND WARRANTY STANDARDS.
 - FOR NON-LAWN SEED MIX AREAS, AS NOTED ON PLAN, BRUSH MOW ONCE SEASONALLY FOR INVASIVE SPECIES CONTROL.
 - CONTRACTOR SHALL NOT INSTALL PLANTS UNDER BUILDING OVERHANG AND SHALL NOTIFY LANDSCAPE ARCHITECT IF DRAWINGS CONFLICT WITH BUILDING OVERHANGS.
 - TREES SHALL NOT CONFLICT/ BLOCK PROPOSED REGULATORY/ DIRECTION SIGNAGE, MONUMENT SIGNS, ADDRESS OR LIGHT POLES. SHIFT TREES AS NECESSARY TYP.



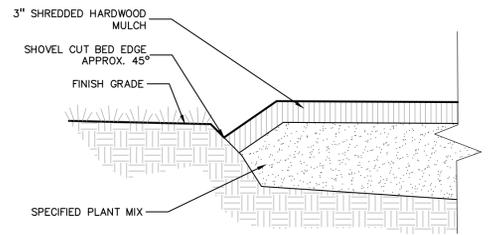
6 TREE PROTECTION DETAIL
NOT TO SCALE



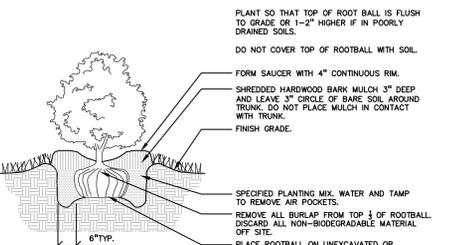
5 DECIDUOUS TREE PLANTING DETAIL
NOT TO SCALE



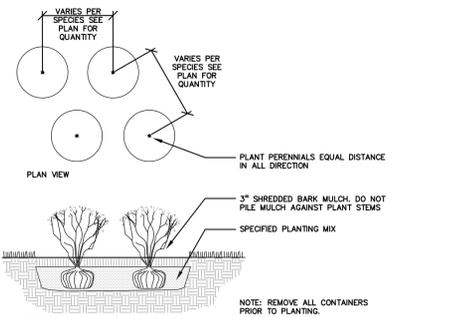
4 EVERGREEN TREE PLANTING DETAIL
NOT TO SCALE



3 CUT BED EDGE DETAIL
SCALE: 1" = 1'-0"



2 SHRUB PLANTING DETAIL
NOT TO SCALE



1 PERENNIAL PLANTING DETAIL
NOT TO SCALE



CAUTION!!
THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.



CLIENT
MARITIME REAL PROPERTY
8800 SPRINGER LN.
LITICA, MI 48316

PROJECT TITLE
MARITIME STORAGE
58359 MAIN STREET
NEW HAVEN, MI 48048

REVISIONS	
PERMIT RESUBMITTAL	7/9/2025
PERMIT RESUBMITTAL	9/26/2025
PERMIT RESUBMITTAL	10/13/2025
PERMIT RESUBMITTAL	10/24/2025
PERMIT RESUBMITTAL	12/5/2025

ORIGINAL ISSUE DATE:
DECEMBER 20, 2024

DRAWING TITLE
LANDSCAPE SPECIFICATIONS

PEA JOB NO.	24-1930
P.M.	BK
DN.	CAL
DES.	JLE

DRAWING NUMBER:

L-2.1

GENERAL LANDSCAPING REQUIREMENTS

- 1.0 GENERAL
- 1.1 SUMMARY
- 1.1.1 Includes But Not Limited To
 - 1. General procedures and requirements for Site Work.
- 2.0 PRODUCTS - Not Used
- 3.0 EXECUTION
- 3.1 PREPARATION
- 3.1.1 Protection
 - 1. Spillage:
 - A. Avoid spillage by covering and securing loads when hauling on or adjacent to public streets or highways.
 - B. Remove spillage and sweep, wash, or otherwise clean project, streets, and highways.
 - 2. Erosion Control:
 - A. Take precautions necessary to prevent erosion and transportation of soil downstream, to adjacent properties, and into on-site or off-site drainage systems.
 - B. Develop, install, and maintain an erosion control plan if required by law.
 - C. Repair and correct damage caused by erosion.
 - 3. Existing Plants And Features:
 - A. Do not damage tops, trunks, and roots of existing trees and shrubs on site which are intended to remain.
 - B. Do not use heavy equipment within branch spread. Interfering branches may be removed only with permission of Landscape Architect.
 - C. Do not damage other plants and features which are to remain.
- 3.1.2 If specified precautions are not taken or corrections and repairs made promptly, Owner may take such steps as may be deemed necessary and deduct costs of such from monies due to Contractor. Such action or lack of action on Owner's part does not relieve Contractor from responsibility for proper protection of the Work.
- END OF SECTION
- LANDSCAPING PREPARATION
- 1.0 GENERAL
- 1.1 SUMMARY
- 1.1.1 Includes But Not Limited To
 - 1. General landscape work requirements.
- 1.2 QUALITY ASSURANCE
- 1.2.1 Comply with all applicable local, state and federal requirements, regarding materials, methods of work, and disposal of excess and waste materials.
- 1.2.2 Obtain and pay for all required inspections, permits, and fees.
- 1.2.3 Provide notices required by governmental authorities.
- 1.3 PROJECT CONDITIONS
- 1.3.1 Locate and identify existing underground and overhead services and utilities within contract limit work areas. (Call Miss Dig: 1-800-482-7171 in Michigan).
- 1.3.2 Provide adequate means to protect utilities and services designated to remain.
- 1.3.3 Repair utilities damaged during site work operations at Subcontractor's expense.
- 1.3.4 When uncharted or incorrectly charted underground piping or other utilities and services are encountered during site work operations, notify the applicable utility company immediately to obtain procedure directions. Cooperate with the applicable utility company in maintaining active services in operation.
- 1.3.5 Locate, protect, and maintain benchmarks, monuments, control points and project engineering reference points. Re-establish disturbed or destroyed items at Subcontractor's expense.
- 1.3.6 Perform landscape work operations and the removal of debris and materials to assure minimum interference with streets, walks, and other adjacent facilities.
- 1.3.7 Obtain governing authorities' written permission when required to close or obstruct streets, walks and adjacent facilities. Provide alternate routes around closed or obstructed traffic ways when required by governing authorities.
- 1.3.8 Protect and maintain street lights, utility poles and services, traffic signal control boxes, curb boxes, valves and other services, except items designated for removal.
- 1.3.9 The General Contractor will occupy the premises and adjacent facilities during the entire period of construction. Perform landscape work operations to minimize conflicts and to facilitate General Contractor's use of the premises and conduct of his normal operations.
- 1.3.10 Perform landscape preparation work before commencing landscape construction.
- 1.3.11 Provide necessary barricades, coverings and protection to prevent damage to existing improvements indicated to remain.
- 1.3.12 Protect existing trees scheduled to remain against injury or damage including cutting, breaking or skinning of roots, trunks or branches, smothering by stockpiled construction materials, excavated materials or vehicular traffic within branch spread.
- 2.0 PRODUCTS
- 2.1 MATERIALS/EQUIPMENT
- 2.1.1 As selected by the General Contractor, except as indicated.
 - 1. Tree protection:
 - A. Wood fencing - Snow fencing 4' height.
 - B. Posts - Steel fence post.
 - C. Herbicide for lawn restoration - "Round-up" by Monsanto.
- 3.0 EXECUTION
- 3.1 EXISTING UTILITIES
- 3.1.1 Call "MISS DIG" 811 before construction begins. Information on the drawings related to existing utility lines and services is from the best sources presently available. All such information is furnished only for information and is not guaranteed. Excavate test pits as required to determine exact locations of existing utilities.
- 3.2 CLEARING
- 3.2.1 Locate and suitably identify trees and improvements indicated to remain.
- 3.2.2 Fencing/soil erosion fence is to be installed.
- 3.2.3 Any equipment that compacts the soil in the areas of existing trees is not allowed.
- 3.2.4 Protect trees scheduled to remain with 4' high snow fence per plans.
- 3.2.5 No vehicular traffic is permitted beneath drip line at any time. All lawn areas are to be worked by hand.
- 3.2.6 Clear and grub areas within contract limits as required for site access and execution of the work.
- 3.2.7 Remove trees, plants, undergrowth, other vegetation and debris, except items indicated to remain.
- 3.2.8 Treat planting and lawn areas as required with herbicide per manufacturer recommendations to kill existing vegetation prior to planting, seeding and sodding.
- 3.2.9 Remove stumps and roots to a clear depth of 36" below subgrades. Remove stumps and roots to their full depth within 50" of underground structures, utility lines, footings, and paved areas.
- 3.3 DISPOSAL OF WASTE MATERIALS
- 3.3.1 Stockpile, haul from site and legally dispose of waste materials and debris. Accumulation is not permitted.

- 3.3.2 Maintain disposal routes, clear, clean and free of debris.
- 3.3.3 On site burning of combustible cleared materials is not permitted.
- 3.3.4 Upon completion of landscape preparation work, clean areas within contract limits, remove tools and equipment. Site to be clear, clean and free of materials and debris and suitable for site work operations.
- 3.3.5 Materials, items and equipment not scheduled for reinstallation or salvaged for the General Contractor are the property of the Landscape Contractor. Remove cleared materials from the site as the work progresses. Storage and sale of Landscape Contractors salvage items on site is not permitted.
- END OF SECTION
- FINISH GRADING AND TOPSOIL PLACEMENT
- 1.0 GENERAL
- 1.1 SUMMARY
- 1.1.1 Includes But Not Limited To
 - 1. Perform finish grading and topsoil placement required to prepare site for installation of landscaping as described in Contract Documents.
- 1.2 SUBMITTALS
- 1.2.1 Quality Assurance
 - 1. Submit test on imported topsoil and on site stockpiled topsoil by independent licensed testing laboratory prior to use. Imported topsoil shall meet minimum specified requirements and be approved by Landscape Architect prior to use.
 - 2. Provide and pay for testing and inspection during topsoil operations. Laboratory, inspection services, and Soils Engineer shall be acceptable to the Landscape Architect.
 - 3. Submit report stating location of source of imported topsoil and account of recent use.
 - 4. Test for pH factor, mechanical analysis, and percentage of organic content.
 - 5. Submit test reports to General Contractor.
 - 6. Sub-Contractor, or testing agency to make recommendations on type of quantity of additives required to establish satisfactory pH factor and supply of nutrients to bring nutrients to satisfactory level for planting.
- 1.3 QUALITY ASSURANCE
- 1.3.1 Participate in pre-installation meeting with Landscape Architect.
- 1.4 PROJECT CONDITIONS
- 1.4.1 Also see Landscape Preparation Section.
- 1.4.2 Protect existing trees, plants, lawns, and other features designated to remain as part of the landscaping work.
- 1.4.3 Promptly repair damage to adjacent facilities caused by topsoil operations. Cost of repair at Subcontractor's expense.
- 1.4.4 Promptly notify the General Contractor and Landscape Architect of unexpected subsurface conditions.
- 2.0 PRODUCTS
- 2.1 MATERIALS
- 2.1.1 Topsoil: supplied and stockpiled topsoil proposed for use must meet the testing criteria results specified. Topsoil must conform to adjustments and recommendations from the soil test and by the Landscape Architect.
- 2.1.2 Existing topsoil: existing topsoil from on-site stockpile shall be utilized. All processing, cleaning, and preparation of this stored topsoil to render it acceptable for use is the responsibility of the Subcontractor.
- 2.1.3 Provide additional topsoil as required to complete the job. Topsoil must meet testing criteria results specified.
- 2.1.4 All processing, cleaning, and preparation of this supplied topsoil to render it acceptable for use is the responsibility of the Subcontractor.
- 2.1.5 Supplied and stockpiled topsoil, shall be fertile, friable, dark in color and representative of local productive soil, capable of sustaining vigorous plant growth and free of clay lumps, subsoil, noxious weeds or other foreign matter such as stones of 1" in any dimension, roots, sticks, and other extraneous material: not frozen or muddy. PH of soil range between 5.0 and 7.5
- 2.1.6 Soil shall not contain more than 2 percent of particles measuring over 2.0 mm in largest size
- 2.1.7 Prepared topsoil shall be used in planting mixtures as specified in Trees, Plants, and Ground Cover; all beds prepared as specified.
- 3.0 EXECUTION
- 3.1 EXAMINATION
- 3.1.1 Do not commence work of this Section until grading tolerances specified are met.
- 3.2 PREPARATION
- 3.2.2 Prior to grading, dig out weeds from planting areas by their roots and remove from site. Before placing top soil in landscape areas, remove rocks larger than 1 inch in any dimension and foreign matter such as building rubble, wire, cans, sticks, concrete, etc.
- 3.2.3 Prior to placing topsoil, remove any imported base material present in planting areas down to natural subgrade or other material acceptable to Landscape Architect.
- 3.3 PERFORMANCE
- 3.3.1 Site Tolerances
 - 1. Total Topsoil Depth -
 - A. Lawn And Groundcover Planting Areas - 3 inches minimum compacted.
 - B. Shrub Planting Areas - 12 inches minimum throughout entire shrub bed area.
 - 2. Elevation of topsoil relative to walks or curbs -
 - A. Seeded Lawn Areas - 1/4 inch below
 - B. Sodded Lawn Areas - 1 1/2 inches below
 - C. Shrub And Ground Cover Areas - 3 inches below
- 3.3.2 Do not expose or damage existing shrub or tree roots.
- 3.3.3 Redistribute approved existing top soil stored on site as a result of rough grading. Remove organic material, rocks and clods greater than 1 inch in any dimension, and other objectionable materials. Provide additional approved imported topsoil required for specified topsoil depth and bring surface to specified elevation relative to walk or curb.
- 3.3.4 For trees, shrubs, ground cover beds and plant mix for beds see Exterior Plants section.
- 3.3.5 Provide earth berming where indicated on Plans.
- 3.3.6 Berming to be free flowing in shape and design, as indicated, and to blend into existing grades gradually so that the toe of slope is not readily visible. Landscape Architect or General Contractor's representative to verify final contouring before planting.
- 3.3.7 Regardless of finish grading elevations indicated, it is intended that grading be such that proper drainage of surface water away from buildings will occur and that no low areas are created to allow ponding. Subcontractor to consult the General Contractor and Landscape Architect regarding variations in grade elevations before rough grading is completed.
- 3.3.8 Slope grade away from building for 12 feet minimum from walls at slope of 1/2 inch per ft minimum unless otherwise noted. High point of finish grade at building foundation shall be 6 inches minimum below finish floor level. Direct surface drainage in manner indicated on Drawings by mowing surface to facilitate natural run-off of water. Fill low spots and pockets with top soil and grade to drain properly.
- 3.3.9 Rake all topsoil to remove clods, rocks, weeds, and debris.
- 3.3.10 Grade and shape area to bring surface to true uniform planes free from irregularities and to provide proper drainage and slopes per plans.
- 3.4 CLEANING
- 3.4.1 Upon completion of topsoil operations, clean areas within contract limits, remove tools, equipment, and haul all excess topsoil off-site. Site shall be clear, clean, free of debris, and suitable for site work operations.
- END OF SECTION
- LAWN SEEDING
- 1.0 GENERAL

- 1.1 SUMMARY
- 1.1.1 Includes But Not Limited To
 - 1. Furnish and install seeded lawn as described in Contract Documents.
- 1.2 SUBMITTALS
- 1.2.1 Submit seed vendor's certification for required grass seed mixture, indicating percentage by weight, and percentage of purity, germination, and weed seed for each grass species.
- 1.3 DELIVERY AND STORAGE
- 1.3.1 Deliver seed and fertilizer materials in original unopened containers, showing weight, analysis, and name of manufacturer. Store in a manner to prevent wetting and deterioration.
- 1.4 PROJECT CONDITIONS
- 1.4.1 See landscape preparation section.
- 1.4.2 Work notification: Notify Landscape Architect of General Contractor's representative at least seven (7) working days prior to start of seeding operation.
- 1.4.3 Protect existing utilities, paving, and other facilities from damage caused by seeding operations.
- 1.4.4 Perform seeding work only after planting and other work affecting ground surface has been completed.
- 1.4.5 Provide hose and lawn watering equipment as required.
- 1.4.6 The irrigation system will be installed prior to seeding. Locate, protect, and maintain the irrigation system during seeding operations. Repair irrigation system components damaged during seeding operations at the Sub-Contractor's expense.
- 1.5 WARRANTY
- 1.5.1 See Landscape Maintenance and Warranty Section
- 2.0 PRODUCTS
- 2.1 MATERIALS
- 2.1.1 Topsoil for Seeded Areas: See Topsoil Placement and Drawings.
- 2.1.2 Lawn seeded areas: Fresh, clean and new crop seed mixture. Mixed by approved methods.
- 2.1.3 Seed mixture composed of the following varieties, mixed to the specified proportions by weight and tested to minimum percentages of purity and germination.
- 2.1.4 Irrigated Lawn Seed Mixture proportioned by volume as indicated below:

SEED TYPE	PROPORTION	PURITY	GERMINATION
Kentucky Bluegrass	50%	90%	75%
Penn Lawn Fescue	30%	95%	80%
Annual Ryegrass	20%	95%	80%
- 2.1.5 Non-Irrigated Seed Mixture proportioned by volume as indicated below:

SEED TYPE	PROPORTION	PURITY	GERMINATION
Penn Lawn Fescue	60%	90%	85%
Kentucky 28# Common Bluegrass	20%	90%	90%
Pennfine Perennial Rye	20%	90%	90%
- 2.1.6 Fertilizer: granular, non burning product composed of not less than 50% organic slow acting, guaranteed analysis professional fertilizer.
- 2.1.7 Ground Limestone: Used if required by soil test report: Containing not less than 85% of total carbonates and ground to such fineness that 50% will pass through a 100 mesh sieve and 90% will pass through a 20% mesh sieve.
- 2.1.8 Straw Mulch: Used in crimping process only. Clean oat or wheat straw well seasoned before baling, free from mature seed-bearing status, or roots of prohibited or noxious weeds.
- 2.1.9 Water: Free of substance harmful to seed growth. Hoses or other methods to transpiration furnished by Sub Contractor.
- 3.0 EXECUTION
- 3.1 INSPECTION
- 3.1.1 Landscape Architect or General Contractor's representative must approve finish surfaces, grades, topsoil quality and depth. Do not start seeding work until unsatisfactory conditions are corrected.
- 3.2 PREPARATION
- 3.2.1 SURFACE PREPARATION
 - 1. Seven days maximum prior to seeding, -
 - A. Treat Lawn areas if required with "Round-Up" by Monsanto, per label direction to kill existing vegetation prior to seeding.
 - B. Loosen topsoil areas to minimum depth of 4", dampen thoroughly, and cultivate to properly break up clods and lumps.
 - C. Rake area to remove clods, rocks, weeds, roots, debris, and stones over 1" in any dimension.
 - D. Grade lawn areas to smooth, free draining even surface with a loose, moderately coarse texture. Roll and rake, remove ridges, and fill depressions as required to drain.
 - E. Apply limestone to supplied topsoil if required by soil test report at rate determined by the soil test, to adjust pH of topsoil to not less than 6.0 no more than 6.8. Distribute evenly by machine and incorporate thoroughly into topsoil.
 - F. Apply fertilizers to indicated turf areas at a rate equal to 1 lb. of actual nitrogen 1,000 sq. ft. (43 lbs / acre).
 - G. Apply fertilizers by mechanical rotary or drop type distributor, thoroughly and evenly incorporated with soil to a depth of 1" by approved method. Fertilize areas inaccessible to power equipment with hand tools and incorporate into soil.
 - H. After lawn areas have been prepared, take no heavy objects over them except lawn rollers.
 - I. After preparation of lawn areas and with topsoil in semi-dry condition, roll lawn planting areas in two (2) directions at approximately right angles with water ballast roller weighing 100 to 300 lbs according to soil type.
 - J. Rake or scarify and cut or fill irregularities that develop as required until area is true and uniform, free from lumps, depressions, and irregularities.
 - K. Restore prepared areas to specified condition if eroded, settled or otherwise disturbed after fine grading and prior to seeding.
- 3.3 INSTALLATION
- 3.3.1 SEEDING
 - 1. Seed lawns only between April 1, and June 1, and fall seeding between August 15, and October 15, or at other times acceptable to Landscape Architect.
 - 2. Seed immediately after preparation of bed. Seed indicated areas within contract Limits and areas adjoining contract limits disturbed as a result of construction operations.
 - 3. Perform seeding operations when the soil is dry and when the winds do not exceed five(5) miles per hour velocity.
 - 4. Apply seed with a rotary or drop type distributor. Install seed evenly by sowing equal quantities in two (2) directions, at right angles to each other.
 - 5. Sow seed at a rate of 300 lbs./acre.
 - 6. After seeding, rake or drag surface of soil lightly to incorporate seed into top 1/8" of soil. Roll with light lawn roller.
 - 7. Provide soil erosion planting mat where grade conditions required to stabilize the planting area.
- 3.3.2 HYDRO-SEEDING
 - 1. Hydro-seeding: The application of grass seed and a wood cellulose fiber mulch tinted green shall be accomplished in one operation by use of an approved spraying machine.
 - A. Mix seed, fertilizer, and wood cellulose fiber in required amount of water to produce a homogeneous slurry. Add wood cellulose fiber after seed, water, and fertilizer have been thoroughly mixed and apply at the rate of 200 pounds per acre dry weight.
 - B. For hydro-seeding, wood cellulose fiber shall be used. Silva-Fiber Mulch by Weyerhaeuer Company, Tacoma, WA (800-443-9179).
 - C. Hydraulically spray material on ground to form a uniform cover impregnated with grass seed.
 - D. Immediately following application of slurry mix, make separate application of wood cellulose mulch at the rate of 1,000 pounds, dry weight, per acre.
 - E. Apply cover so that rainfall or applied water will percolate to underlying soil.

- 3.3.3 MULCHING
 - 1. Place straw mulch on seeded areas within 24-hours after seeding.
 - 2. Place straw mulch uniformly in a continuous blanket at a rate of 2-1/2 tons per acre, or two (2) 50 lb. bales per 1,000 sq. ft. of area. A mechanical blower may be used for straw mulch application when acceptable to the Landscape Architect.
 - 3. Crimp straw into soil by use of a "crimper". Two passes in alternate direction required. Alternative methods on areas too small for crimper must be approved by the Landscape Architect or Owner's Representative.
- 3.3.3 ESTABLISH LAWN
 - 1. Establish dense lawn of permanent grasses, free from lumps and depressions. Any area failing to show uniform germination to be reseeded; continue until dense lawn established.
 - 2. Damage to seeded area resulting from erosion to be repaired by Sub Contractor.
 - 3. In event Sub Contractor does not establish dense lawn during first germination period, return to project to re-fertilize and reseed to establish dense lawn.
 - 4. Should the seeded lawn become largely weeds after germination, Sub Contractor is responsible to kill the weeds and reseed the proposed lawn areas to produce a dense turf, as specified.
- 3.4 CLEANING
- 3.4.1 Perform Cleaning during installation of the work and upon completion of the work to the approval of the Landscape Architect. Remove from site all excess materials, debris, and equipment. Repair damage resulting from seeding operations.
- 3.5 MAINTENANCE
- 3.5.1 See Landscape Maintenance and Warranty Section.
- 3.6 ACCEPTANCE
- 3.6.1 See Landscape Maintenance and Warranty Section.
- END OF SECTION
- LAWN SODDING
- 1.0 GENERAL
- 1.1 SUMMARY
- 1.1.1 Includes But Not Limited To
 - 1. Furnish and install sodded lawn as described in Contract Documents.
- 1.2 QUALITY ASSURANCE
- 1.2.1 Sod: Comply with American Sod Producers Association (ASPA) classes of sod materials.
- 1.3 SUBMITTALS
- 1.3.1 Submit sod growers certification of grass species. Identify source location.
- 1.3.2 Submit manufacturer's certification of fertilizer.
- 1.4 DELIVERY, STORAGE, AND HANDLING
- 1.4.1 Cut, deliver, and install sod within 24 hour period.
- 1.4.2 Do not harvest or transport sod when moisture content may adversely affect sod survival.
- 1.4.3 Protect sod from sun, wind, and dehydration prior to installation. Do not tear, stretch, or drop sod during handling and installation.
- 1.4.4 Sod which dries out before installation will be rejected.
- 1.5 PROJECT CONDITIONS
- 1.5.1 See Landscape Preparation section.
- 1.5.2 Work notification: Notify Landscape Architect or General Contractor's representative at least seven (7) working days prior to start of sodding operation.
- 1.5.3 Protect existing utilities, paving, and other facilities from damage caused by sodding operations.
- 1.5.4 Perform sodding work only after planting and other work affecting ground surface has been completed.
- 1.5.5 Restrict traffic from lawn areas until grass is established. Erect signs and barriers as required.
- 1.5.6 Provide hose and lawn watering equipment as required.
- 1.5.7 The irrigation system will be installed prior to sodding. Locate, protect, and maintain the irrigation system during sodding operations. Repair irrigation system components damaged during sodding operations at the Subcontractor's expense.
- 1.6 WARRANTY
- 1.6.1 See Landscape Maintenance and Warranty Section.
- 2.0 PRODUCTS
- 2.1 MATERIALS
- 2.1.1 Sod: An "approved" nursery grown blend of improved Kentucky Bluegrass varieties.
- 2.1.2 Sod containing Common Bermudagrass, Quackgrass, Johnsongrass, Poison Ivy, Nutsedge, Nutsedge, Canada Thistle, Timothy, Bentgrass, Wild Garlic, Ground Ivy, Perennial Sorrel, or Bramegrass weeds will not be acceptable.
- 2.1.3 Provide well rooted, healthy sod, free of diseases, nematodes and soil borne insects. Provide sod uniform in color, leaf texture, density, and free of weeds, undesirable grasses, stones, roots, thatch, and extraneous material; viable and capable of growth and development when planted.
- 2.1.4 Furnish sod, machine stripped in square pads or strips not more than 3'-0" long; uniformly 1" to 1-1/2" thick with clean cut edges. Mow sod before stripping.
- 2.1.5 Fertilizer: granular, non burning product composed of not less than 50% organic slow acting, guaranteed analysis professional fertilizer.
- 2.1.6 Type A: starter fertilizer containing 20% nitrogen, 12% phosphoric acid, and 8% potash by weight or similar approved composition.
- 2.1.7 Ground Limestone: Used if required by soil test report: Containing not less than 85% of total carbonates and ground to such fineness that 50% will pass through a 100 mesh sieve and 90% will pass through a 20% mesh sieve.
- 2.1.8 Stakes: softwood, 3/4" x 8" long.
- 2.1.9 Water: Free of substance harmful to seed growth. Hoses or other methods to transpiration furnished by Sub Contractor.
- 2.1.10 Topsoil: see Topsoil Placement section.
- 3.0 EXECUTION
- 3.1 INSPECTION
- 3.1.1 Landscape Architect or General Contractor's representative must approve finish surfaces, grades, topsoil quality and depth. Do not start sodding work until unsatisfactory conditions are corrected.
- 3.2 PREPARATION
- 3.2.1 Surface Preparation:
 - 1. Seven days maximum prior to sodding, -
 - a. Treat Lawn areas if required with herbicide per manufacturer recommendations to kill existing vegetation prior to sodding.
 - b. Loosen topsoil areas to minimum depth of 4", dampen thoroughly, and cultivate to properly break up clods and lumps.
 - c. Rake area to remove clods, rocks, weeds, roots, debris, and stones over 1" in any dimension.
 - d. Grade lawn areas to smooth, free draining even surface with a loose, moderately coarse texture. Roll and rake, remove ridges, and fill depressions as required to drain.
 - e. Apply limestone to supplied topsoil if required by soil test report at rate determined by the soil test, to adjust pH of topsoil to not less than 6.0 no more than 6.8. Distribute evenly by machine and incorporate thoroughly into topsoil.

\\pea\pea\projects\2024\24-1930-1800-landscape_storage\DWG_CONSTRUCTION\L-2.0 LANDSCAPE_STORAGE.dwg PLOT DATE: 12/27/2025 BY: Becky Klein



CAUTION!!
THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE OR WARRANTY IS MADE AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.



CLIENT
MARITIME REAL PROPERTY
8800 SPRINGER LN.
LITICA, MI 48316

PROJECT TITLE
MARITIME STORAGE
58359 MAIN STREET
NEW HAVEN, MI 48048

REVISIONS	
PERMIT RESUBMITTAL	7/9/2025
PERMIT RESUBMITTAL	9/26/2025
PERMIT RESUBMITTAL	10/13/2025
PERMIT RESUBMITTAL	10/24/2025
PERMIT RESUBMITTAL	12/5/2025

ORIGINAL ISSUE DATE:
DECEMBER 20, 2024

DRAWING TITLE
LANDSCAPE SPECIFICATIONS

PEA JOB NO.	24-1930
P.M.	BK
DN.	CAL
DES.	JLE

DRAWING NUMBER:

L-2.2

EXTERIOR PLANTS

1.0 GENERAL

1.1 SUMMARY

1.1.1 Includes But Not Limited To

1.2 QUALITY ASSURANCE

1.2.1 Plant names indicated, comply with "Standardized Plant Names" as adopted by the latest edition of the American Joint Committee of Horticultural Nomenclature. Names of varieties not listed conform generally with names accepted by the nursery trade. Provide stock true to botanical name and legibly tagged.

1.2.2 Comply with sizing and grading standards of the latest edition of "American Standard for Nursery Stock". A plant shall be dimensioned as it stands in its natural position.

1.2.3 All plants shall be nursery grown under climatic conditions similar to those in the locality of the project for a minimum of two years.

1.2.4 Stock furnished shall be at least the minimum size indicated. Larger stock is acceptable, at no additional charge. Larger plants shall not be cut back to size indicated.

1.2.5 Provide "specimen" plants with a special height, shape, or character of growth. Landscape Subcontractor is to tag specimen trees or shrubs at the source of supply. The Landscape Subcontractor shall inspect all plant material at source prior to Landscape Architect's approval. Landscape Subcontractor shall accompany Landscape Architect on final selection trip. The Landscape Architect will inspect specimen selections for suitability and adaptability to selected location. When specimen plants cannot be purchased locally, provide sufficient photographs of the proposed specimen plants for approval.

1.2.6 Plants may be inspected and approved at the place of growth for compliance with specification requirements for quality, size, and variety.

1.2.7 Approval of plant selection at the place of growth shall not impair the right of inspection and rejection upon delivery at the site or during progress of the work.

1.2.8 Provide percolation testing by filling plant pits with water and monitoring length of time for water to completely percolate into soil. Submit test results to Landscape Architect prior to starting work.

1.2.9 Before proceeding with work, check and verify dimensions and quantities. Report variations between Drawings and site to Landscape Architect before proceeding with work of this section.

1.2.10 Plant totals are for convenience only and are not guaranteed. Verify amounts shown on Drawings. All plantings indicated on Drawings are required unless indicated otherwise.

1.3 SUBMITTALS

1.3.1 Provide and pay for material testing. Testing agency shall be acceptable to the Landscape Architect. Provide the following data:

1. The loss of weight by ignition and moisture absorption capacity shall be tested for peat moss.

1.3.2 Submit the following material samples to Landscape Architect:

1. Peat moss, shredded hardwood bark mulch, planting accessories, pre-emergent herbicides, and plant fertilizers.

1.3.3 Submit the following materials certification to Landscape Architect:

1. Topsoil source and pH value, peat moss, and plant fertilizer.

1.4 DELIVERY, STORAGE, AND HANDLING

1.4.1 Deliver fertilizer materials in original, unopened and undamaged containers showing weight, analysis, and name of manufacturer. Store in manner to prevent wetting and deterioration.

1.4.2 Take all precautions customary in good trade practice in preparing plants for moving. Workmanship that fails to meet the highest standards will be rejected.

1.4.3 Spray deciduous plants in foliage with an approved "Anti-Desiccant" immediately after digging to prevent dehydration.

1.4.4 Dig, pack, transport, and handle plants with care to ensure protection against injury.

1.4.5 Inspection certificates required by law shall accompany each shipment invoice or order to stock on arrival. The certificate shall be filed with the General Contractor's representative.

1.4.6 Protect all plants from drying out. If plants cannot be planted immediately upon delivery, properly protect them with soil, shredded hardwood bark mulch, or in a manner acceptable to the General Contractor's representative.

1.4.7 Water heeled in plantings daily.

1.4.8 No plant shall be bound with rope or wire in a manner that could damage or break the branches.

1.4.9 Cover plants transported on open vehicles with a protective covering to prevent wind burn.

1.4.10 Frozen or muddy topsoil is not acceptable.

1.5 PROJECT CONDITIONS

1.5.1 See Landscape Preparation Section.

1.5.2 Work notification: notify Landscape Architect at least seven working days prior to installation of plant material.

1.5.3 Protect existing utilities, paving, and other facilities from damage caused by landscaping operations.

1.5.4 A complete list of plants, including a schedule of sizes, quantities, and other requirements is shown on the proposal form. In the event that quantity discrepancies or material omissions occur in the proposal form, Subcontractor shall notify the Landscape Architect during the proposal bidding process.

1.5.5 An irrigation system will be installed prior to planting. Locate, protect, and maintain the irrigation system during planting operations. Repair irrigation system components, damaged during planting operations, at the Landscape Subcontractor's expense.

1.5.6 The Landscape Subcontractor shall inspect existing soil conditions in all areas of the site where his operations will take place, prior to the beginning of work. It is the responsibility of the Landscape Subcontractor to notify the General Contractor's representative and the Landscape Architect in writing of any conditions which could affect the survivability of plant material to be installed.

1.6 WARRANTY

1.6.1 See Landscape Maintenance and Warranty Standards.

2.0 PRODUCTS

2.1 MATERIALS

2.1.1 Plants: Provide plants typical of their species or variety, with normal, densely developed branches and vigorous, fibrous root systems. Provide only sound, healthy, vigorous plants free from defects, disfiguring knots, unsound injuries, frost cracks, abrasions of the bark, plant diseases, insect eggs, borers, and all forms of infestation. All plants shall have a fully developed form without voids and open spaces.

1. Dig balled and burlapped plants with firm, natural balls of earth of sufficient diameter and depth to encompass the fibrous and feeding root system necessary for full recovery of the plant. Provide ball sizes complying with the latest edition of the "American Standard for Nursery Stock". Cracked or mottled balls are not acceptable.

2. All trees shall have day or clay loam balls. Trees with sand balls will be rejected.

3. Provide tree species that mature at heights over 25'-0" with a single, main trunk. Trees that have the main trunk forming a "Y" shape are not acceptable.

4. Plants planted in rows shall be matched in form, (see specimen stock).

5. Plants larger than those specified in the plant list may be used when acceptable to the Landscape Architect.

6. No pruning wounds shall be present with a diameter of more than 1" and such wounds must show vigorous bark on all edges.

7. Evergreen trees shall be unsharred and branched to the ground.

8. Shrubs and small plants shall meet the requirements for spread and height indicated on the drawings.

9. Plant materials shall be subject to approval by the Landscape Architect as to size, health, quality, and character.

10. Bare root trees are not acceptable.

11. Provide plant materials from licensed nursery or grower.

2.1.2 Bare root plants: dug with adequate fibrous roots, to be covered with a uniformly thick coating of mud by being puddled immediately after they are dug or packed in moist straw or peat moss.

2.1.3 Container grown stock: grown in a container for sufficient length of time for the root system to have developed to hold its soil together, firm, and whole.

1. No plants shall be loose in the container.

2. Container stock shall not be root bound.

3. Single stemmed or thin plants will not be accepted.

4. Side branches shall be generous, well twigged, and the plant as a whole well bushed to the ground.

5. Plants shall be in a moist, vigorous condition, free from dead wood, bruises or other root or branch injuries.

2.1.4 Collected stock consists of plants growing under natural conditions in soils and climate as exist at location to be planted, in locations lending themselves to proper collecting practices. Root system (balls) to be at least twenty-five (25%) percent larger than specified for nursery grown material.

2.1.5 Specimen stock: all specimen designated plantings are to be nursery grown, fully developed, excellent quality, and typical example of the species. Plants designated to be planted in rows must be matched, symmetrical, and uniform in height, spread, caliper, and branching density.

2.1.6 Topsoil for planting mix: fertile, friable, natural topsoil of loamy character, without admixture of subsoil material, obtained from a well drained arable site, reasonably free from clay, lumps, coarse sands, stones, plants, roots, sticks, and other foreign materials with acidity range of between pH 6.0-6.8 for ericaceous plants.

2.1.7 Peat moss: brown to black in color, weed and seed free granulated peat peat.

1. Provide ASTM D2207 sphagnum peat moss with a pH below 6.0 for ericaceous plants.

2.1.8 Planting mixture Type A - trees: standard planting backfill shall be a mixture of 1/2 native soil (excavated from plant pits), 1/4 topsoil, and 1/4 sand. Add fertilizer Type "A" and "B" to planting mixture per manufacturer's requirements. Follow planting details.

2.1.9 Planting mixture Type B for perennial flowers, ground cover beds, and ericaceous plants: planting backfill shall be a mixture of 1/3 screened topsoil, 1/3 sand and 1/3 peat. All existing soil shall be excavated and removed. Adding fertilizer types "A" and "B" to mixture per manufacturer's requirements. Follow planting details.

2.1.10 Planting mixture Type C for annual flower beds: same as Type "B". Submit a sample to the Landscape Architect for approval prior to installation.

2.1.11 Planting mixture Type D for Bioretention Soil Mix, for use with shrubs and perennials in a bioswale, rain garden or bioretention area. Planting backfill shall be a mixture of 50%-60% coarse sand, 25%-35% screened topsoil, and 10-15% Compost by volume. The following criteria for bioretention soil mix shall be provided:

1. Maximum clay content: 15%

2. Clay and silt content: 25%-40%

3. Nutrient content: 15-30 mg/kg

4. Hydraulic Conductivity: 1-4 inches per hour

5. Organic Matter Content: 2%-5%

Adding fertilizer to mixture per manufacturer's requirements and soil testing recommendations. Follow detail for installation. Submit a sample and testing results to the Landscape Architect for approval prior to installation.

2.1.12 Planting mixture Type E for Planter Soil Mix, Metro Mix 900 in 3 cubic foot bags or approved equal.

2.1.13 Plant fertilizer Type A to be "Drimature" applied per manufacturer recommendations.

2.1.14 Plant fertilizer Type B to be "14-14-14". Apply per manufacturer recommendations.

2.1.15 Bone Meal - 5 lbs. per cubic yard of soil mixes.

2.1.16 Lime to be ground dolomitic limestone, ninety-five percent (95%) passing through #100 mesh screen. Use to adjust soil pH only, under direction of Landscape Architect.

2.1.17 Sand to be clean, coarse, ungraded conforming to ASTM-C-3 for fine aggregates.

2.1.18 Anti-Desiccant: protective film emulsion providing a protective film over plant surfaces; permeable to permit transpiration. Mixed and applied in accordance with Manufacturer's instructions.

2.1.19 Shredded bark mulch shall be double processed, dark shredded hardwood bark that is clean, free of debris and sticks. Materials shall be uniform in size, shape, and texture. Submit samples to Landscape Architect for approval prior to installation. Install mulch to finish grade, level smooth, without ridges, humps, or depressions.

2.1.20 Water: free of substances harmful to plant growth. Hoses or other methods of transportation shall be furnished by Sub Contractor.

2.1.21 Stakes for staking (3) Three Hardwood, 2" x 2" x 8'-0" long. Driven a min. of 18" deep firmly into subgrade prior to backfilling. Stakes for guying: Hardwood, 2" x 2" x 36" long.

2.1.22 Guying/staking material: With 2"-3" wide fabric straps, connect from tree to stake. Remove after (1) year, allow for flexibility (do not use wire & hose).

2.1.23 Tree wrap: standard waterproofed tree wrapping paper, 2-1/2" wide, made of 2 layers of crepe kraft paper weighing not less than 30 lbs. per ream, cemented together with asphalt. Secure tree wrap with biodegradable material at top and bottom. Remove after first winter.

2.1.21 Twine: two-ply jute material.

2.2 MEASUREMENTS

2.2.1 Measure height and spread of specimen plant materials with branches in their normal positions as indicated on Drawings or Plant List.

2.2.2 The measurements for height shall be taken from the ground level to the average height of the top of the plant and not the longest branch.

2.2.3 Measurement should be average of plant, not greatest diameter. For example, plant measuring 15 inches in widest direction and 9 inches in narrowest direction would be classified as 12 inch stock.

2.2.4 Plants properly trimmed and transplanted should measure same in every direction.

2.2.5 Measure caliper of trees 6 inches above surface of ground.

2.2.6 Where caliper or other dimensions of plant materials are omitted from Plant List, plant materials shall be normal stock for type listed.

2.2.7 Plant materials larger than those specified may be supplied, with prior written approval of Landscape Architect, and:

1. If complying with Contract Document requirements in all other respects.

2. If at no additional cost to Owner.

3. If sizes of roots or balls are increased proportionately.

2.2.8 The height of the trees, specified by height, measured from the crown of the roots to the top of the top branch, shall not be less than the minimum size designated on the drawings.

3.0 EXECUTION

3.1 INSPECTION

3.1.1 Landscape Architect or General Contractor's representative must approve proposed planting areas and conditions of installation. Do not start planting work until unsatisfactory conditions are corrected.

3.1.2 Individual plant locations shall be staked on the project site by the Landscape Contractor and approved by the Landscape Architect before any planting pits are dug. The Landscape Architect reserves the right to adjust plant material locations to meet field conditions, without additional cost to the General Contractor / Owner.

3.1.3 Accurately stake plant material according to the Drawings. Stakes shall be above grade, painted a bright color, and labeled with the name of the plant material to be installed at that location.

3.2 TIME OF PLANTING

3.2.1 Evergreen material: Plant Evergreen materials between September 1 and October 15 or in spring before new growth begins. If project requirements require planting at other times, plants shall be sprayed with anti-desiccant prior to planting operations.

3.2.2 Deciduous material: Plant deciduous materials in a dormant condition. If deciduous trees are planted in leaf, they shall be sprayed with anti-desiccant prior to planting operation.

3.2.3 Planting times other than those indicated must be acceptable to the Landscape Architect.

3.3 PREPARATION

3.3.1 General: See Landscape Preparation Section

3.3.2 Vegetation Removal

1. Strip existing grass and weeds, including roots from all bed areas leaving the soil surface one (1") inch below finish grade.

2. Herbicide: as required to prepare area for new planting applied to all ground cover, evergreen and shrubby beds and all mulch areas before application of preemergence herbicide, per

manufacturer's recommendations. Clean area of all dead material after five (5) days.

2.0 PRODUCTS - Not Used

3.0 EXECUTION

3.1 PERFORMANCE

3.1.1 Acceptance of Installation

1. At the completion of all landscape installation, or pre-approved portions thereof, the Landscape Subcontractor shall request in writing an inspection for Acceptance of Installation in which the Landscape Subcontractor, Landscape Architect, and General Contractor's Representative shall be present.

a. Following the acceptance inspection a punch list will be issued by the Landscape Architect.

b. Upon completion of all punch list items, the Landscape Architect and/or General Contractor's Representative shall reinspect the project and issue a written statement of Acceptance of Installation and establish the beginning of the Project Warranty Period.

c. At the time of acceptance all plant material shall be of vigorous health and planting bed and mulch rings are weed free.

d. It is the responsibility of the Landscape Subcontractor to make the written request for inspection of installation in a timely fashion.

e. If there is plant material loss prior to the Landscape Subcontractor's written request for inspection of installation, the Landscape Contractor shall make all replacements of this dead material at no additional cost to these replacements are not considered to be the required one (1) replacement of dead plant material by the Landscape Subcontractor during the one (1) year project warranty period, as outlined below.

2. Landscape work may be inspected for acceptance in parts agreeable to the General Contractor's Representative and Landscape Architect provided work offered for inspection is complete, including maintenance as required.

3. For work to be inspected for partial acceptance, the Landscape Subcontractor shall provide a drawing outlining work completed and supply a written statement requesting acceptance of this work completed to date.

3.1.2 Project Warranty

1. The Project Warranty Period begins upon written preliminary acceptance of the project installation by the Landscape Architect and General Contractor's representative.

2. The Landscape Subcontractor shall guarantee trees, shrubs, ground cover beds and seeded or sodded areas through construction and for a period of one (1) year after date of Acceptance of Installation against defects including death and unsatisfactory growth, except for defects resulting from neglect, abuse or damage by others or unusual phenomena or incidents which are beyond Landscape Subcontractor's control.

3.1.3 Maintenance During One (1) Year Project Warranty

1. To insure guarantee standards, the following maintenance procedures for trees, shrubs, and ground covers shall be executed during construction and for the full Project Warranty Period.

a. Landscape Subcontractor shall be responsible for only one (1) replacement of any plant materials during the one (1) year Project Warranty Period. These include those which are dead or in the opinion of the Landscape Architect are in an unhealthy or unsightly condition, or having lost natural shape, resulting from dieback, excessive pruning, or inadequate or improper maintenance as part of the guarantee.

b. Prior to any replacements, Landscape Subcontractor shall review individual plants in question with Landscape Architect to determine reason for plant demise.

c. Maintain plantings by pruning, cultivating, watering, weeding, fertilizing, mulching, restoring planting saucers, adjusting and repairing tree-stabilization devices, resetting to proper grades or vertical position, and performing other operations as required to establish healthy, viable plantings.

d. Fill in, as necessary, soil subsidence that may occur because of settling or other processes. Replace mulch materials damaged or lost in areas of subsidence.

e. Apply treatments as required to keep plant materials, planted areas, and soils free of pests and pathogens or disease. Use integrated pest management practices when possible to minimize use of pesticides and reduce hazards. Treatments include physical controls such as hosing off foliage, mechanical controls such as traps, and biological control agents.

f. The contractor will be responsible for irrigation system operation, watering schedules, watering amounts and general monitoring of irrigation system throughout construction, maintenance, and warranty period. Over watering or lack of water from the irrigation system is the responsibility of the landscape contractor and any required replacements at the cost of the contractor and not part of the warranty replacement.

2. Replacements must meet the standards specified on the Landscape plans and in the specifications, i.e. quality, species of plant material and planting procedures to receive approval of replacement materials by Landscape Architect.

3. Costs for replacements are assumed part of bid quotations and therefore will not result in an additional cost to General Contractor or Landscape Architect.

4. Areas damaged as a result of replacement operation are to be restored by Landscape Subcontractor at no cost to the General Contractor or Landscape Architect.

5. The Landscape Subcontractor shall be responsible for watering all plantings through the warranty period and shall keep guy wires taut, raise tree balls which settle, furnish and apply sprays as necessary to keep the plantings free of disease and insects until the end of the warranty period.

6. The Landscape Subcontractor shall remove and replace trees, shrubs or other plants found to be dead or in unhealthy condition.

a. Rejected plants and materials shall be removed promptly.

b. Replacements shall be made during the following normal planting schedule.

c. Trees and shrubs which are in doubt shall be replaced, unless, in the opinion of the Landscape Architect, it is advisable to extend Project Warranty Period for full growing Season.

7. The Landscape Contractor shall apply anti-desiccants on evergreen trees and evergreen shrub beds within 150' of major streets and drives, no later than December 1, during the one (1) year project warranty.

8. The first spring after plant installation the contractor shall check all trees to insure twine has rotted from around the trunk. If twine is still present, it shall be removed and disposed of off-site.

9. All stakes, guy wires, tree wrap paper, dead twigs and branches shall be removed from tree and plant materials at the end of this warranty period.

3.1.4 Maintenance of Seeded Lawn Areas

1. The Landscape Subcontractor shall maintain seeded lawn areas.

a. Water, fertilize, weed, and apply chemicals until a dense lawn of permanent grasses, free from lumps and depressions or any bare spots, none of which is larger than one (1) foot of area up to a maximum of 3% of the total seeded lawn area is established.

b. Seeded lawn that fails to show a uniform growth and/or germination shall be reseeded until a dense cover is established, regardless of what season the seed was installed.

2. The Landscape Subcontractor shall maintain and mow all lawn areas for until acceptance of installation (typically 3 mows). When lawn reaches 3" in height it shall be cut to 2" in height.

3. The Owner assumes cutting responsibilities following the Acceptance of Installation of the seeded lawn.

4. At conclusion of Project Warranty Period and after receiving Written Final Acceptance by General Contractor's representative and Landscape Architect, the Owner shall assume all seeded lawn maintenance responsibilities.

3.1.5 Maintenance of Sodded Lawn Areas

1. The Landscape Subcontractor shall maintain sodded lawn areas.

a. Water, fertilize, spot weed, apply herbicides, fungicides, insecticides and rodent until a full uniform, smooth stand of sod is knitted to topsoil, and accepted by the Landscape Architect or his or her representative.

2. Water sod thoroughly, as required to establish proper rooting.

3. Repair, rework, and reseed all areas that have washed out or are eroded. Replace undesirable or dead areas with new sod.

4. Mow lawn areas once as soon as sod has rooted sufficiently and knitted to the topsoil. Cut back to 2" height. Not more than 40% of grass leaf shall be removed at any single mowing. Excess clipping to be removed by the Landscape Subcontractor. The Landscape Subcontractor shall be responsible for lawn mowing until acceptance of installation (typically 3-mows).

5. The Owner assumes mowing responsibilities following the Acceptance of Installation of the sodded lawn.

END OF SECTION

LANDSCAPE MAINTENANCE AND WARRANTY STANDARDS

1.0 GENERAL

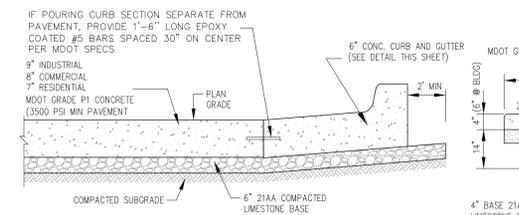
1.1 SUMMARY

1.1.1 Includes But Not Limited To

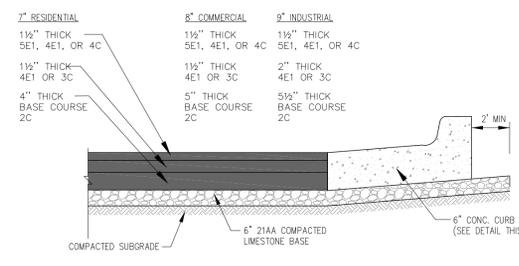
1. Provide maintenance for new landscaping as described in Contract Documents.

The requirements of the Section include a one (1) year warranty period from date of acceptance of installation performed by the General Contractor's Representative and Landscape Architect.

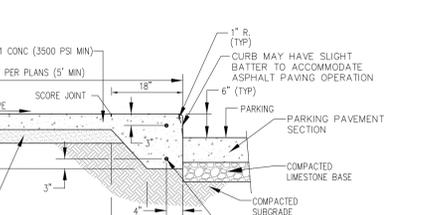
\\pea\pea\projects\2024\24-1930 - SHORELINE STORAGE\DWG\CONSTRUCTION\L-2.0 LANDSCAPE SPEC-24-1930.dwg PLOT DATE: 12/27/2025 BY: Benny Klein



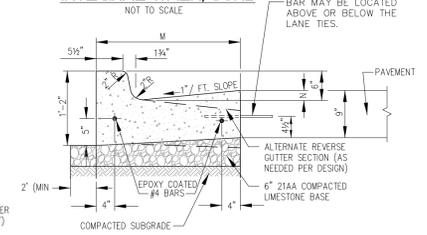
TYPICAL CONCRETE PARKING SECTION
NOT TO SCALE



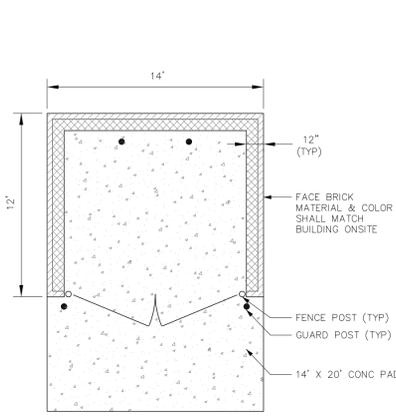
TYPICAL BITUMINOUS PARKING SECTION
NOT TO SCALE



TYPICAL CONCRETE PAVEMENT INTEGRAL WALK/CURB
NOT TO SCALE



6\"/>



TYPICAL SCREENED DUMPSTER ENCLOSURE DETAILS
NOT TO SCALE

TYPICAL PARKING AREA PAVEMENT / CURB DETAILS

TYPICAL SCREENED DUMPSTER ENCLOSURE DETAILS

GENERAL NOTES

- EXISTING TOPSOIL, VEGETATION AND ORGANIC MATERIALS SHALL BE STRIPPED AND REMOVED FROM PROPOSED PAVEMENT AREA PRIOR TO PLACEMENT OF BASE MATERIALS. TREE ROOTS SHALL BE COMPLETELY REMOVED.
- EXCAVATE TO THE DEPTH OF THE FINAL SUBGRADE ELEVATION TO ALLOW FOR GRADE CHANGES AND THE PLACEMENT OF THE RECOMMENDED PAVEMENT SYSTEM.
- THE PAVEMENT SUBGRADE SHALL BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY (MODIFIED PROCTOR) PRIOR TO PLACEMENT OF PROPOSED PAVEMENT. THE FINAL SUBGRADE SHALL BE THOROUGHLY PROOF-ROLLED IN THE PRESENCE OF A GEOTECHNICAL/PAVEMENT ENGINEER TO DETERMINE STABILITY. LOOSE OR YIELDING AREAS WHICH CANNOT BE MECHANICALLY STABILIZED SHALL BE REMOVED AND REPLACED WITH CLASS II SAND OR AS DIRECTED BY THE ENGINEER. ALL FILL MATERIAL AND BASE MATERIAL SHALL BE TESTED AND ITS COMPACTION AND SUITABILITY FOR ACCEPTANCE OF THE BASE MATERIAL AND PAVEMENT SHALL BE CERTIFIED BY SAID TESTING FIRM. THE OWNER SHALL SUPPLY THREE COPIES OF GEOTECHNICAL AND TECHNICAL REPORTS TO NEW HAVEN VILLAGE.
- IF IN THE OPINION OF THE INSPECTOR/ENGINEER, FIELD CONDITIONS WARRANT ADDITIONAL TESTING, THE DEVELOPER SHALL ARRANGE FOR AND PAY FOR ALL REQUIRED ADDITIONAL TESTING.
- 21AA LESTONITE AGGREGATE BASE SHALL BE COMPACTED TO ACHIEVE A 95% COMPACTION LEVEL (MODIFIED PROCTOR - ASTM D 1557-91). THE BASE SHALL EXTEND A MINIMUM OF 2 FEET BEYOND THE BACK OF CURB OR THE PAVED EDGE.
- CONCRETE PAVEMENT TESTING SHALL BE REQUIRED FOR ALL PROJECTS.
- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND SPECIFICATIONS OF THE NEW HAVEN VILLAGE, MACOMB COUNTY DEPARTMENT OF ROADS, AND THE MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, CURRENT EDITION.
- CONSTRUCTION OF A NEW OR RECONSTRUCTED DRIVE APPROACH CONNECTING TO AN EXISTING STATE OR COUNTY ROADWAY SHALL BE ALLOWED ONLY AFTER AN APPROVED PERMIT HAS BEEN SECURED FROM THE AGENCY HAVING JURISDICTION OVER SAID ROADWAY.
- FOR ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY, THE CONTRACTOR SHALL PAY FOR AND SECURE ALL NECESSARY PERMITS AND LICENSES FOR ALL INSPECTION.
- 1.0 INCH AND 2.0 INCH EXPANSION JOINTS SHALL BE INSTALLED PER MCDR / MDT STANDARDS.
- FILL AREAS SHALL BE MACHINE COMPACTED IN UNIFORM LIFTS NOT EXCEEDING 9 INCHES THICK TO 95% OF THE MAXIMUM DRY DENSITY (MODIFIED PROCTOR) PRIOR TO PLACEMENT OF PROPOSED PAVEMENT.
- 6\"/>
- CONSTRUCTION TRAFFIC SHALL BE MINIMIZED ON THE NEW BITUMINOUS PAVEMENT. IF CONSTRUCTION TRAFFIC IS ANTICIPATED ON THE PAVEMENT STRUCTURE, SUBJECT TO NEW HAVEN VILLAGE AND MCDR APPROVAL, THE PLACEMENT OF THE FINAL LIFT SHALL BE DELAYED UNTIL THE MAJORITY OF THE CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED BY THE DEVELOPER. PAVEMENT SHALL BE OF THE TYPE, THICKNESS AND CROSS SECTION AS INDICATED ON THE PLANS.
- ONLY PLANT MIXED PAVEMENT MATERIAL ALLOWED. MILLINGS OR RECYCLED MATERIAL OF ANY TYPE ARE PROHIBITED. APPLICABLE FOR ALL PAVEMENT TYPES INCLUDING DRIVEWAYS (RESIDENTIAL AND NON-RESIDENTIAL), GRAVEL DRIVEWAYS (MIN 6\"/>

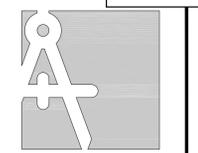
PAVING NOTES

CONCRETE PAVEMENT

- CONCRETE SHALL CONSIST OF PORTLAND CEMENT TYPE IA (AIR-ENTRAINED) WITH A MINIMUM CEMENT CONTENT OF SIX SACKS PER CUBIC YARD, MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3500 PSI AND A SLUMP OF 1 1/2 TO 3 INCHES. PAVEMENT SHALL BE PLANT MIXED CONFORMING TO MDT GRADE P1 DESIGNED TO MITIGATE ASR PER ASTM STANDARDS.
- ALL CONCRETE PAVEMENT, DRIVEWAYS, CURB & GUTTER, ETC., SHALL BE SPRAY CURED WITH WHITE MEMBRANE CURING COMPOUND IMMEDIATELY FOLLOWING FINISHING OPERATION.
- THE CONCRETE BATCH PLANT SHALL BE MDT CERTIFIED WITH LOCATION APPROVED BY THE VILLAGE AND MCDR.
- NO CONCRETE PAVING SHALL BE ALLOWED PRIOR TO MAY 1, OR AFTER NOVEMBER 1 (UNLESS APPROVED BY MDT, MCDR OR NEW HAVEN VILLAGE).
- AIR TEMPERATURE AT POINT OF PLACEMENT, AWAY FROM ARTIFICIAL HEAT SHALL BE MINIMUM 25° F AND RISING.
- TEMPERATURE OF CONCRETE AT TIME OF PLACEMENT SHALL BE BETWEEN 45° F AND 90° F.

BITUMINOUS PAVEMENT

- BITUMINOUS MIXTURE SHALL CONSIST OF: BASE COURSE - MDT BITUMINOUS MIXTURE NO. 2C; LEVELING COURSE - MDT BITUMINOUS MIXTURE NO. 3C; WEARING COURSE - MDT BITUMINOUS MIXTURE NO. 4C; ASPHALT CEMENT PENETRATION GRADE 85-100 (PG 64-22) RECLAIMED ASPHALT PAVEMENT (RAP) SHALL NOT BE ALLOWED IN THE HMA. 4C MAX.
- FOR PRIVATE RESIDENTIAL ROADWAYS, COMMERCIAL PARKING LOTS, AND BIKE PATHS ALTERNATE EQUIVALENT MDT BITUMINOUS MIXTURE MAY BE USED, WITH APPROVAL FROM THE VILLAGE ENGINEER.
- ALL BITUMINOUS MATERIAL SHALL BE COMPACTED TO A DENSITY OF 92% OF THE FIELD CONTROL DENSITY AS DETERMINED BY THE MARSHALL METHOD.
- A BOND COAT OF 55-1H EMULSION IS REQUIRED BETWEEN THE BASE COURSE AND LEVELING COURSE AND BETWEEN THE LEVELING COURSE AND WEARING COURSE WHEN EITHER 48 HOURS HAVE ELAPSED BETWEEN PLACEMENT OF THE BITUMINOUS COURSES OR THE SURFACE OF THE PAVEMENT HAS BEEN CONTAMINATED WITH DIRT, DUST, OR FOREIGN MATERIAL. THE BOND COAT SHALL BE APPLIED IN A UNIFORM MANNER OVER THE SURFACE AT A RATE OF 0.10 GALLON/S.Y. (BETWEEN LEVELING COURSE AND BASE COURSE & 0.05 GALLON/SY BETWEEN WEARING COURSE AND LEVELING COURSE) THE COATS MAY DIFFER. IN THE EVENT A BOND COAT IS NOT REQUIRED, THE LEVELING COURSE MAY REQUIRE LOCALIZED BROOM CLEANING.
- DO NOT PLACE HMA OR APPLY BOND COAT WHEN PRECIPITATION IS IMMINENT OR WHEN MOISTURE ON THE EXISTING SURFACE WILL PREVENT SATISFACTORY CURING. UNLESS OTHERWISE APPROVED BY THE ENGINEER IN WRITING, TEMPERATURE AND SEASONAL REQUIREMENTS FOR PLACING HMA WILL BE ACCORDING TO THE CURRENT MDT SPECIFICATIONS. PAVING WILL NOT BE ALLOWED BELOW THESE MINIMUM TEMPERATURES, NOR WHEN FROST IS ON OR IN THE GRADE OR ON THE EXISTING SURFACE.



TRI-COUNTY
Engineering Consultants
48701 Hayes Road
Shelby Twp, MI 48315
TEL: (810) 394-7887
FAX: (586) 686-4642
info@Tri-CountyEng.com
www.Tri-CountyEng.com



CLIENT NAME:
VILLAGE OF NEW HAVEN
MACOMB COUNTY

3 WORKING DAYS
800-482-7171



Know what's below.
Call before you dig.

PRIOR TO CONSTRUCTION, ALL EXISTING UTILITIES, LOCATION AND DEPTH WITHIN THE PROJECT AREA SHALL BE FIELD VERIFIED. CALL MISS DIG SYSTEM 3 WORKING DAYS PRIOR TO CONSTRUCTION.

UTILITY INFORMATION SHOWN ON THIS DRAWING IS APPROXIMATE AND MAY BE DISCLOSED INFORMATION BY VARIOUS UTILITY COMPANIES, PUBLIC AGENCIES OR OTHER SOURCES AND THIS MAY NOT NECESSARILY REFLECT ACTUAL FIELD LOCATIONS AND NO GUARANTEE IS GIVEN TO COMPLETENESS OR ACCURACY.

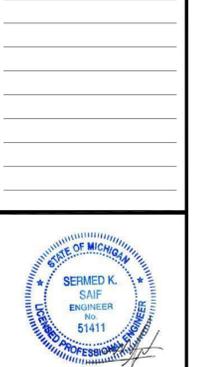
COPYRIGHT (C) 2025. ALL RIGHTS RESERVED. THIS DRAWING AND ALL INFORMATION CONTAINED HEREIN ARE NOT TO BE USED, OR REPRODUCED WITHOUT WRITTEN PERMISSION BY TRI-COUNTY ENGINEERING CONSULTANTS.

PROJECT NAME:
NEW HAVEN PAVING STANDARD DETAILS

PROJECT LOCATION:
SEC 28/34, T04N, R14E
VILLAGE OF NEW HAVEN
MACOMB COUNTY

Drawn By: TCEC
Checked By: NHPDW
Approved By: NEW HAVEN

REVISIONS:
1. 01/12/25

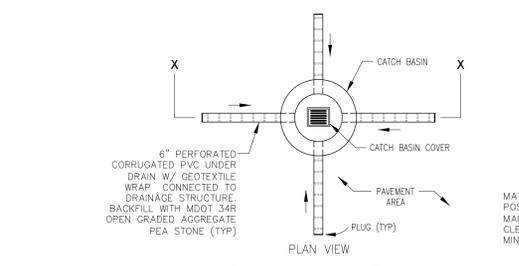


SCALE VERIFICATION:
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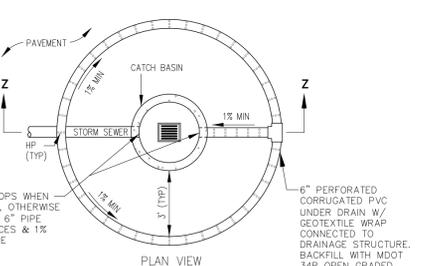
SCALE: NONE

DRAWING NO:
NewHavenStdPAV

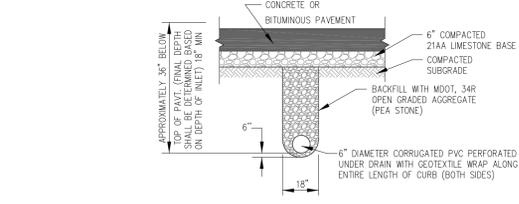
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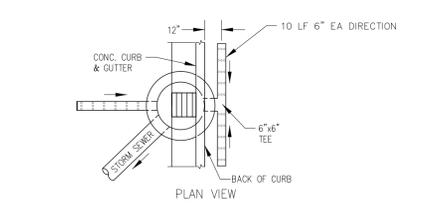
TYPICAL FINGER TYPE UNDERDRAIN (WITHIN PARKING LOTS OUTSIDE CURB LINES)
NOT TO SCALE



TYPICAL CIRCULAR UNDERDRAIN DETAIL (WITHIN PARKING LOTS OUTSIDE CURB LINES)
NOT TO SCALE



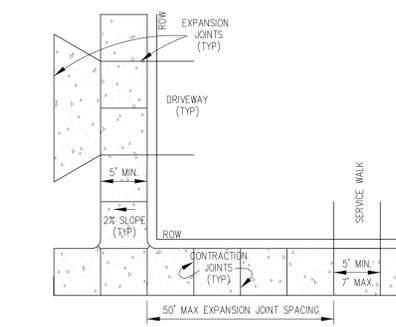
TYPICAL UNDER DRAIN SECTION
NOT TO SCALE



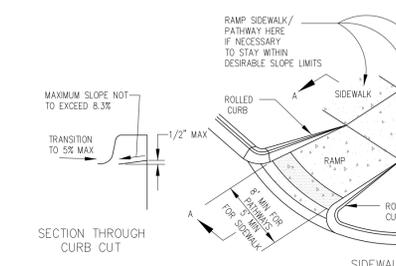
TYPICAL FINGER TYPE UNDERDRAIN (WITHIN PARKING LOTS AT CURB LINES)
NOT TO SCALE

- NOTES:
- UNDER DRAIN TO BE 6\"/>
 - ALL UNDER DRAIN PIPES SHALL BE INSTALLED AT A MIN SLOPE OF 1%.
 - PIPE SHALL BE INSTALLED WITH THE PERFORATIONS PLACED DOWN.
 - PROPOSED UNDER DRAIN PIPE LAYOUT, FLOW LINE ELEV. AND DETAILS SHALL BE APPROVED PRIOR TO CONSTRUCTION.

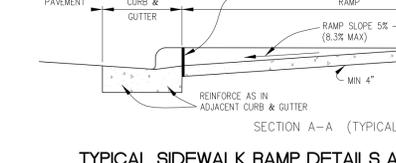
TYPICAL UNDER DRAIN DETAILS



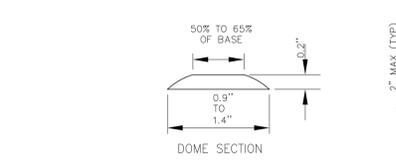
TYPICAL SIDEWALK JOINT LAYOUTS
NOT TO SCALE



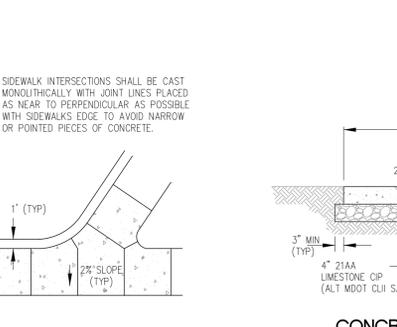
TYPICAL SIDEWALK RAMP DETAILS AT ROAD INTERSECTION MDT TYPE 4, STANDARD PLAN R-28
NOT TO SCALE



TYPICAL SIDEWALK RAMP DETAILS AT ROAD INTERSECTION MDT TYPE 4, STANDARD PLAN R-28
NOT TO SCALE



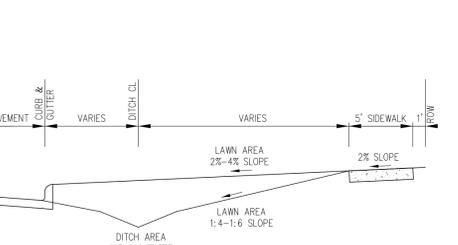
DETECTABLE WARNING DETAILS MDT STANDARD PLAN R-28
NOT TO SCALE



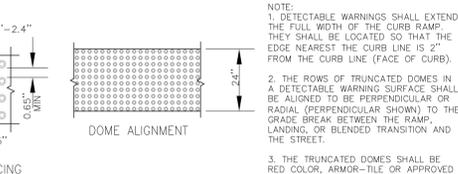
CONCRETE SIDEWALK DETAIL
NOT TO SCALE

CONCRETE PAVEMENT NOTES

- CONCRETE SHALL BE MDT GRADE P1 W/ PORTLAND CEMENT TYPE IA (AIR ENTRAINED) SIX SACK MIX AND MIN. 3500 PSI STRENGTH.
- CONCRETE SLUMP SHALL BE 1.5\"/>
- CONCRETE AIR CONTENT SHALL BE 1% - 6%.
- ALL CONCRETE PAVEMENT (SIDEWALKS, DRIVEWAYS, CURB, ETC.) SHALL BE SPRAY CURED WITH WHITE MEMBRANE COMPOUND IMMEDIATELY AFTER FINISHING.
- PLACEMENT TEMPERATURE SHALL BE 45 DEG TO 90 DEG.



SIDEWALK GRADING SECTION
NOT TO SCALE



TYPICAL CONCRETE SIDEWALK DETAILS

SIDEWALK STANDARD NOTES

- SIDEWALK RAMPS, CONFORMING TO PUBLIC ACT NO. 8, 1989, SHALL BE INSTALLED AS SHOWN ON THE PLAN AT ALL STREET INTERSECTIONS AND AT ALL BARRIER FREE PARKING AREAS AS INDICATED ON THE PLANS.
- SIDEWALK AND PATHWAY RAMPS ARE TO BE LOCATED AS SPECIFIED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. DETAILS SHOW SIDEWALK RAMP DETAILS AT PARKING LOT AND ROADWAY INTERSECTION. HANDICAP RAMPS SHALL MEET ADA BARRIER FREE REQUIREMENTS.
- RAMPS SHALL BE PROVIDED AT CORNERS OF AN INTERSECTION WHERE THERE IS EXISTING OR PROPOSED SIDEWALK AND CURB.
- SURFACE TEXTURE OF THE RAMP SHALL BE THAT OBTAINED BY A COARSE BROOMING, TRANSVERSE TO THE SLOPE OF RAMP.
- SIDEWALK SHALL BE RAMPED WHERE THE DRIVEWAY CURB IS EXTENDED ACROSS THE WALK.
- CARE SHALL BE TAKEN TO ASSURE A UNIFORM GRADE ON THE RAMP, FREE OF SAGS AND SHORT GRADE CHANGES. WHERE CONDITIONS PERMIT, IT IS DESIRABLE THAT THE SLOPE OF THE RAMP BE IN ONLY ONE DIRECTION, PARALLEL TO THE DIRECTION OF TRAVEL.
- IF POSSIBLE, DRAINAGE STRUCTURES SHOULD NOT BE PLACED IN LINE WITH RAMPS, EXCEPT WHERE EXISTING DRAINAGE STRUCTURES ARE BEING UTILIZED IN THE NEW CONSTRUCTION. LOCATION OF THE RAMP SHOULD TAKE PRECEDENCE OVER LOCATION OF DRAINAGE STRUCTURE.
- THE NORMAL GUTTER LINE PROFILE SHALL BE MAINTAINED THROUGHOUT THE AREA OF THE RAMP.
- THE TOP OF THE JOINT FILLER FOR ALL RAMP TYPES SHALL BE FLUSH WITH THE ADJACENT CONCRETE.
- CROSSWALK AND STOP LINE MARKINGS, IF USED, SHALL BE SO LOCATED AS TO STOP TRAFFIC SHORT OF RAMP CROSSINGS. SPECIFIC DETAILS FOR MARKING APPLICATIONS ARE GIVEN IN THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

SIDEWALK CONSTRUCTION NOTES

- PROVIDE TRANSVERSE SAW JOINTS AT APPROX 5' INTERVALS (7\"/>
- PROVIDE FULL DEPTH TRANSVERSE EXPANSION JOINTS, BY INSTALLING 1/2\"/>
- PLACE 1/2\"/>
- PROVIDE 1\"/>
- AT DRIVEWAYS WITH CURB & GUTTER, PROVIDE CURB DROP PER CURRENT MDT STANDARDS.
- AT UNPAVED DRIVE OR PAVED DRIVE WITH POOR CONDITION, INCREASE THE SLAB THICKNESS TO 6\"/>
- PROVIDE 10\"/>
- ADJACENT FINISHED GRADE SHALL BE SET 2\"/>
- MAX GRADE ALONG SIDEWALK SHALL NOT EXCEED 1 ON 12.
- SIDEWALK CROSS SLOPE SHALL BE 2% FOR DRAINAGE.
- A MIN 95\"/>
- PROVIDE MIN 3\"/>
- PROVIDE HANDICAP ACCESSIBLE RAMPS AT STREET INTERSECTIONS AND AS INDICATED ON PLANS.
- HANDICAP ACCESSIBLE RAMPS SHALL BE CONSTRUCTED PER CURRENT MDT STANDARDS.
- CLEAN SAW CUT JOINTS SHALL BE PROVIDED WHENEVER NEW PAVEMENT MATCHES EXISTING PAVEMENT.
- UTILITY STRUCTURES SHALL BE ADJUSTED PER CURRENT MUNICIPALITY STANDARDS AND SHALL MATCH PROPOSED SIDEWALK GRADE.

Proposed New Drive Thru Canopy Extension and Entry Alterations for: Extra Credit Union - New Haven, MI

59010 Gratiot Avenue New Haven, Michigan 48048

PREPARED FOR:

GJ Perelli Construction for:
Extra Credit Union
59010 Gratiot Avenue,
New Haven, MI 48048

PREPARED BY:

MACDONELL ASSOCIATES ARCHITECTS
312 E. LIBERTY ST.
MILFORD, MI 48381
(248) 302-0158

CRAIG MACDONELL AIA NCARB #1301035158 (ARCHITECT IN RESPONSIBLE CHARGE)

SURVEY / ENGINEERING PREPARED BY:

Urban Land Consultants, LLC
8800 23 Mile Road
Shelby Township, MI 48316
Phone: 586-731-8030

LANDSCAPING PREPARED BY:

NOT APPLICABLE AS NO EXISTING AREAS ARE BEING CHANGED.

RETAIL DESIGN PREPARED BY:

Steve Bacon DSA, RDI - CUMO Designs, LLC
36989 Fox Glen
Farmington Hills, MI 48331 USA
C: (248) 410 4485
sbacon@cumodesigns.com

PROPOSED USE:

THE PROPOSED PROJECT IS TO CONSTRUCT A NEW DRIVE THRU CANOPY EXTENSIONS AND ALTERATIONS TO UPDATE THE MAIN ENTRY FOR EXTRA CREDIT UNION

GOVERNING MUNICIPALITY:

VILLAGE OF NEW HAVEN
57775 Main Street
New Haven, Michigan 48048
Phone: (586) 749-5301
Fax: (586) 749-9055

GENERAL INFORMATION:

ANY POSSIBLE GENERATION OF DUST, ODOR, SMOKE, FUMES, NOISE, LIGHTS, ETC.

NO



LOCATION AERIAL

OUTDOOR STORAGE:
OUTDOOR STORAGE IS NOT PROPOSED ON THE SITE.

ALL SITE LIGHTING IS EXISTING AND IS AS ORIGINALLY APPROVED AND NOT ENROACH UPON ABUTING PROPERTIES OR RIGHT OF WAYS. ALL GLARE SHALL BE ELIMINATED FROM ALL LIGHT FIXTURES.

ALL LANDSCAPED AREAS ARE EXISTING AND SHALL REMAIN AUTOMATICALLY IRRIGATED.

ALL TRASH WILL BE REMOVED OFF SITE BY 3RD PARTY TRASH SERVICE FOR SECURITY REASONS.

MECHANICAL SYSTEM HVAC:
ALL HVAC FOR THE EXISTING CREDIT UNION IS EXISTING. NO NEW ROOF TOP UNITS WILL BE PART OF THIS PROJECT.

Registered Design Professional in Responsible Charge:
Craig MacDonell AIA NCARB #1301035158

Deferred Submittals:
NO DEFERRED SUBMITTALS

LEGAL DESCRIPTION

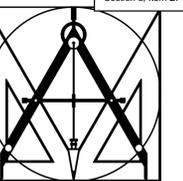
PARCEL 1:
REFER TO SURVEY AND CIVIL ENGINEERING DOCUMENTS AS PREPARED BY URBAN LAND ASSOCIATES FOR LEGAL DESCRIPTION.

SPA SHEET INDEX:		
GENERAL:		PREPARED BY:
CS-001	COVER SHEET / SHEET INDEX	MACDONELL ASSOCIATES
CIVIL ENGINEERING AND LANDSCAPE:		
1	PLAN OF CIVIL ENGINEERING	URBAN LAND ASSOCIATES
2	PLAN OF EXISTING CONDITIONS - SURVEY	
	LANDSCAPE PLAN	N/A EXISTING NO CHANGES
ARCHITECTURAL:		
AS-100	ARCHITECTS SITE PLAN W/ DETAILS	
A-210	EXISTING / PROPOSED 1ST FLOOR PLAN	MACDONELL ASSOCIATES
A-301	EXISTING / PROPOSED EXTERIOR ELEVATIONS	
A-302	EXISTING / PROPOSED EXTERIOR ELEVATIONS	
SITE PHOTOMETRIC STUDY:		
	SITE PHOTOMETRIC STUDY	N/A EXISTING LIGHTING TO REMAIN
CUMO DESIGNS RETAIL DESIGNER:		
1	PHOTOGRAPHIC OVERLAY RENDERING	CUMO DESIGNS

AUTHORIZED SIGNATURE _____ DATE _____

TITLE _____ COMPANY _____

BY SIGNING ABOVE, THE OWNER / AUTHORIZED REPRESENTATIVE ACKNOWLEDGES THAT THE DESIGN INFORMATION IN THIS DRAWING IS ACCEPTABLE AND REPRESENTS THE APPROVED DESIGN. ANY OWNER REQUESTED DESIGN CHANGES MADE AFTER THE ABOVE DATE MAY BE SUBJECT TO ADDITIONAL DESIGN FEES. NO CHANGES WILL BE MADE WITHOUT THE EXPRESS WRITTEN DIRECTION AND AUTHORIZATION OF THE OWNER / AUTHORIZED REPRESENTATIVE.



MACDONELL ASSOCIATES
ARCHITECTURE • PLANNING • INTERIORS

312 E. LIBERTY ST.
MILFORD, MICHIGAN 48381
(248) 685-1873
(248) 302-0158 CELL
ravensrock@msn.com



CONSULTANT:

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PROJECT: NEW BRANCH ALTERATIONS FOR: EXTRA CREDIT UNION, 59010 GRATIOT AVE, NEW HAVEN, MICHIGAN 48048 (586) 276-3000
OWNER: EXTRA CREDIT UNION, 59010 GRATIOT AVE, NEW HAVEN, MICHIGAN 48048 (248) 646-1717
CONTACT: GARY PERELLI CONTRACTOR

ISSUED FOR: OWNER REVIEW / SUBMITTAL
DATE: 08/28/2025
DATE: 12/22/2025

SHEET CONTENT:
SPA COVER SHEET
DRIVE THRU CANOPY

FILE NO.: ECU-25-033

SHEET NO.: CS-001

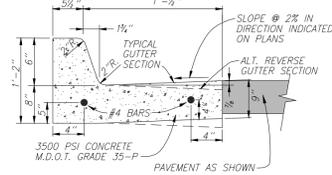
PRELIMINARY NOT FOR CONSTRUCTION



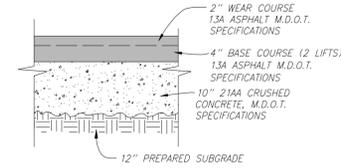
KNOW WHAT'S BELOW.
CALL BEFORE YOU DIG.

Contractor Note:
The locations of existing underground utilities are shown in an approximate way only. The contractor shall determine the exact location of all existing utilities before commencing work. He agrees to be fully responsible for any and all damages which might be occasioned by his failure to exactly locate and preserve any and all underground utilities.

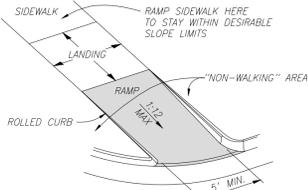
NOTE: ALTERNATE REVERSE GUTTER SECTION TO BE USED ONLY WHEN DRAINING AWAY FROM CURB. SEE GRADING PLAN.



6" ON-SITE CONCRETE CURB & GUTTER
M.D.O.T. R-30-G, F2
(NO SCALE)



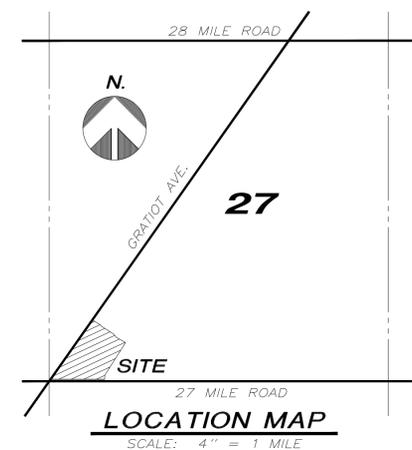
ASPHALT PAVEMENT DETAIL
(NO SCALE)



ADA RAMP SIDEWALK DETAIL
(NO SCALE)

NOTES
1. ALL UTILITIES AND GRADING SHOWN ARE FOR PLANNING PURPOSES ONLY. EXACT UTILITY LOCATIONS AND GRADING TO BE DETERMINED DURING ENGINEERING.
2. "NO PARKING-FIRE LANE" SIGNS SHALL BE INSTALLED AND MAINTAINED AS DESIGNATED BY THE FIRE MARSHAL.

NOTE:
NO FLOODPLAIN PER FEMA MAP OR WETLANDS PER EGLE MHS MAP EXIST ON-SITE



PROPERTY DESCRIPTION
A parcel of land in the Southwest 1/4 of Section 27, Town 4 North, Range 14 East, Village of New Haven, Macomb County, Michigan, described as: Commencing at the South 1/4 corner of Section 27; thence South 85 degrees 03 minutes 17 seconds West, 488.82 feet along the South line of Section 27 and the centerline of 27 Mile Road; thence North 04 degrees 56 minutes 43 seconds West, 60.00 feet to a point on the Northerly 60 foot right of way line of 27 Mile Road and the point of beginning; thence along said line South 85 degrees 03 minutes 17 seconds West 325.24 feet to a point on the East right of way line of Gratiot Avenue; thence along said line North 27 degrees 37 minutes 02 seconds East 434.39 feet; thence South 62 degrees 23 minutes 30 seconds East, 81.49 feet; thence South 30 degrees 03 minutes 00 seconds East 5.92 feet; thence South 62 degrees 23 minutes 30 seconds East 90.50 feet; thence South 40 degrees 30 minutes 25 seconds East, 21.46 feet; thence South 62 degrees 24 minutes 47 seconds East, 64.51 feet; thence South 27 degrees 37 minutes 02 seconds West, 228.35 feet along a line parallel with the East right of way of Gratiot Avenue; thence South 04 degrees 56 minutes 43 seconds East, 23.59 feet to the point of beginning.

SITE CRITERIA
* PARCEL IDENTIFICATION #: 26-06-27-300-023
* ADDRESS: 59010 GRATIOT AVENUE
* EXISTING ZONING: GB
* ADJACENT ZONINGS: GB, MH
* AREA OF SITE: 0.084 ACRES
* EXISTING BUILDING AREA: 14,723 S.F.
* PROPOSED USE: CREDIT UNION WITH DRIVE-THRU
* SETBACKS (COMMERCIAL GB):
 * FRONT = 35' FROM R.O.W. LINE
 * SIDE = 15'
 * REAR = 15'
* PARKING SUMMARY:
 SPACES REQUIRED: 1 SPACE PER 200 S.F. OF USABLE FLOOR AREA = 14,723 / 200 = 74 SPACES
 SPACES PROVIDED: 74 SPACES (INCLUDES 3 ADA SPACES)
* UTILITY SUMMARY:
 * WATER MAIN: MUNICIPAL
 * SANITARY SEWER: MUNICIPAL
 * STORM SEWER: EXISTING ENCLOSED PIPE WITH OUTLET TO EXISTING OFF-SITE DETENTION POND
* SIGNAGE: NOT PART OF THIS SUBMITTAL

Table with columns: DATE, ADDITIONS AND/OR REVISIONS, JOB NO., DATE, SCALE, CHECK, SHEET, FILE.

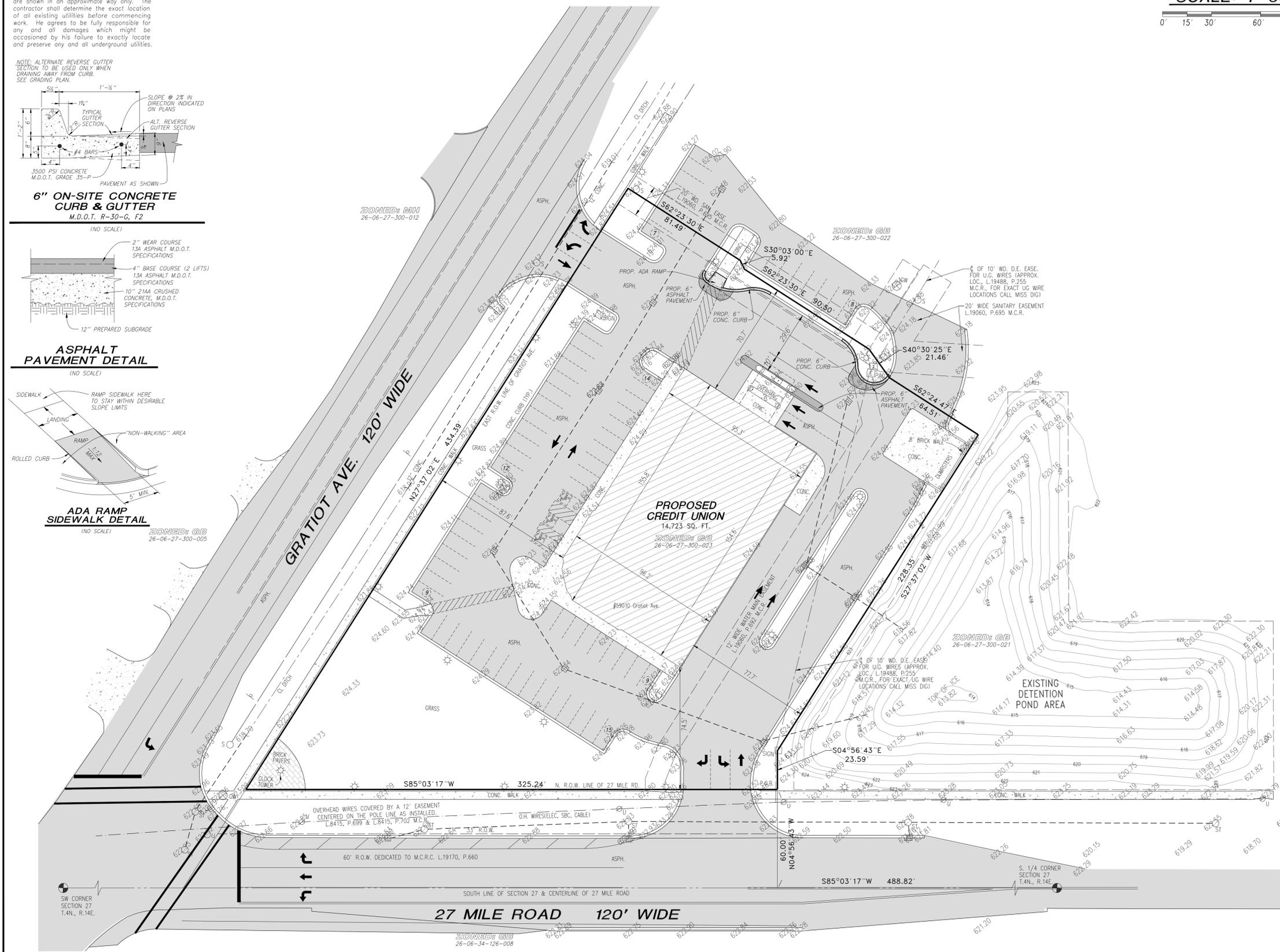
PROPOSED CREDIT UNION
FOR: GARY PERELLI, PETERLOO BOONWARD, SUITE 219, BIRMINGHAM, MI 48008, (248) 646-1717



URBAN LAND CONSULTANTS
PLANNERS LAND SURVEYORS
8800 23 MILE ROAD, SHELBY TWP., MI 48316-4516

K:\2025\URB-53829\ENGINEERING\SITE PLAN\01 SITE PLAN.dwg, 12/17/2025 4:40:05 PM, DWG TO PDF.P3

LEGEND and TOPOGRAPHY LEGEND tables listing symbols for contours, grades, pavements, and utilities.





KNOW WHAT'S BELOW.
CALL BEFORE YOU DIG.

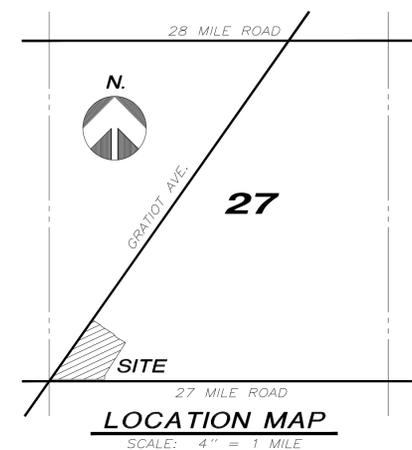
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NOTE:
NO FLOODPLAIN PER FEMA
MAP OR WETLANDS PER EGLE
MIRIS MAP EXIST ONSITE

NORTH



SCALE: 1"=30'



EXISTING CONDITIONS
PART OF THE S.W. 1/4 OF SECTION 27
T.4N., R.14E., VILLAGE F NEW HAVEN
MACOMB COUNTY, MICHIGAN

PROPERTY DESCRIPTION

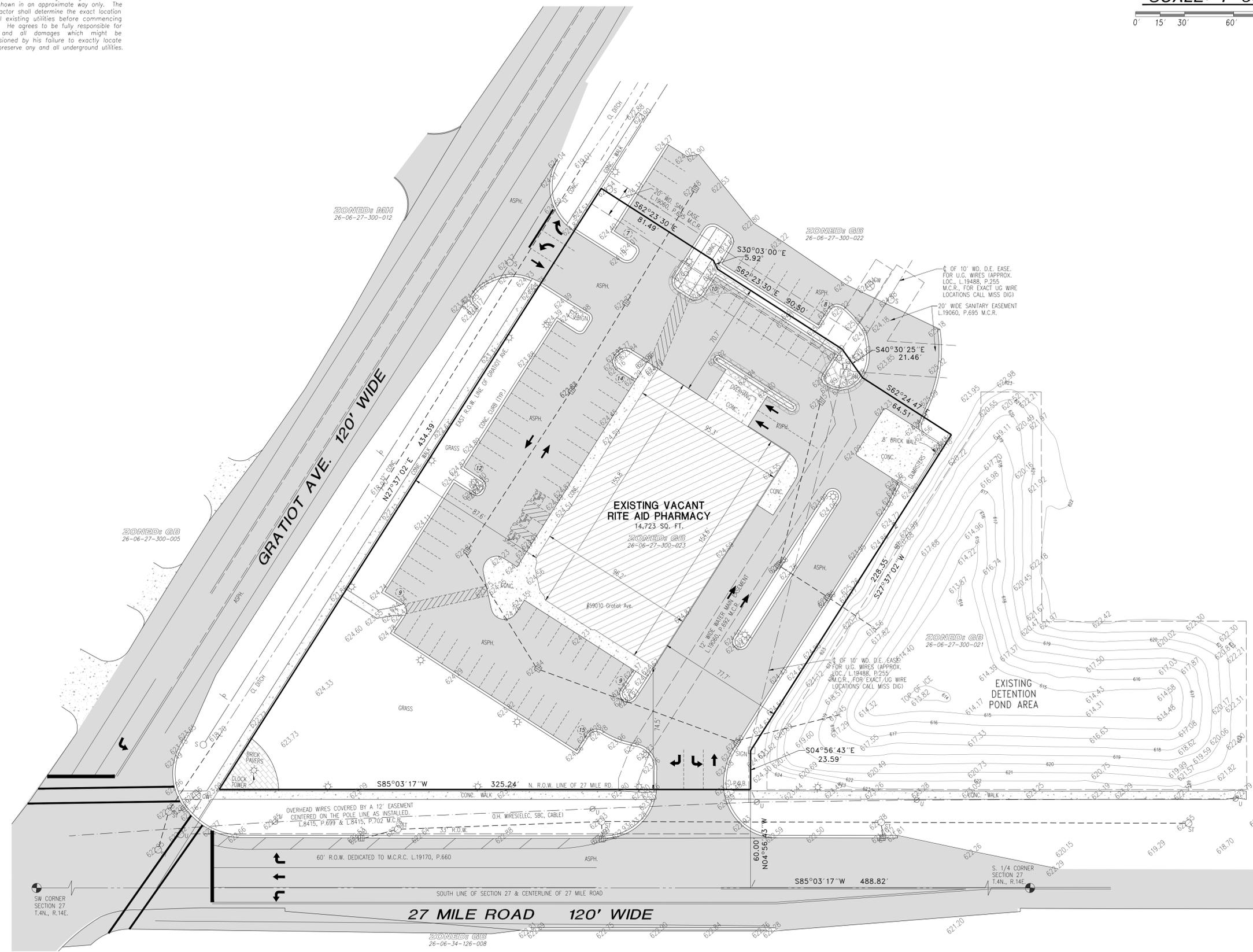
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- EXISTING ZONING: GB
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- EXISTING BUILDING AREA: 14,723 S.F.
- EXISTING USE: VACANT RITE AID
- SETBACKS (COMMERCIAL GB):
 - FRONT = 35' FROM R.O.W. LINE
 - SIDE = 15'
 - REAR = 15'
- SPACES PROVIDED: 84 SPACES (INCLUDES 3 ADA SPACES)
- UTILITY SUMMARY:
 - WATER MAIN: MUNICIPAL
 - SANITARY SEWER: MUNICIPAL
 - STORM SEWER: EXISTING ENCLOSED PIPE WITH OUTLET TO EXISTING OFF-SITE DETENTION POND

SOILS (ENTIRE SITE IS NAPPANEE CLAY LOAM)

Nca NAPPANEE CLAY LOAM (0 TO 2% SLOPES)
0'-7" DARK BROWN CLAY LOAM, 7"-13" BROWN SILTY CLAY, 13"-27" BROWN CLAY, 27"-60" GRAYISH-BROWN SILTY CLAY. PERMEABILITY AND RUNOFF ARE SLOW.



LEGEND

- 100 EXISTING CONTOURS
- 100.00 EXISTING GRADE
- EXISTING GRAVEL
- EXISTING ASPHALT
- EXISTING CONCRETE
- REMOVALS

TOPOGRAPHY LEGEND

- WATER MAIN
- STORM SEWER
- SANITARY SEWER
- EASEMENT
- EX. U.G. ELEC.
- EX. G.H. WIRES
- EX. U.G. TELE.
- EX. U.G. GAS
- ROUND CATCH BASIN
- SQUARE CATCH BASIN
- UTILITY MANHOLE
- STORM MANHOLE
- END OF PIPE
- SANITARY MANHOLE
- CLEAN-OUT
- MANHOLE
- HYDRANT
- GATE VALVE WELL
- WATER VALVE
- WATER BOX
- VALVE
- LIGHT POLE
- AIR CONDITIONER
- MAIL BOX
- FENCE POST
- DOWN SPOUT
- SOIL BORING
- ELEC TRANS PAD
- UTILITY POLE
- GUY ANCHOR
- GUY POLE
- SIGN POST
- SPRINKLER HEAD
- GAS METER
- TELEPHONE RISER
- ELECTRICAL RISER
- CABLE TV RISER
- FINISHED FLOOR
- GARAGE FLOOR
- BASEMENT FLOOR
- CONC. CONCRETE
- SIN SET MAG. NAIL
- SIB SET IRON BAR
- FIB FOUND IRON BAR
- MON FOUND C. MONUMENT

DATE	ADDITIONS AND/OR REVISIONS
250830-11343	
Job No.	
Date 12-17-2025	
Scale 1"=30'	
Drawn DKZ	
Check PDS	
Sheet 2 OF 2	
Fld. Bk.	

PROPOSED CREDIT UNION
FOR: GARY PERELLI
251 WOODWARD, SUITE 219
BIRMINGHAM, MI 48008
(248) 646-1717



PHONE 586 731-8030
WWW.URBAN-LAND.COM
URBAN LAND CONSULTANTS
PLANNERS LAND SURVEYORS
8800 23 MILE ROAD
SHELBY TWP., MI 48316-4516

PROPERTY DESCRIPTION

The Land referred to herein below is situated in the County of Macomb, State of Michigan and is described as follows:

Land in the Township of Lenox, Village of New Haven, County of Macomb, State of Michigan:

A parcel of land in the Southwest 1/4 of Section 27, Town 4 North, Range 14 East, Village of New Haven, Macomb County, Michigan, described as: Commencing at the South 1/4 corner of Section 27; thence South 85 degrees 03 minutes 17 seconds West, 488.82 feet along the South line of Section 27 and the centerline of 27 Mile Road; thence North 04 degrees 56 minutes 43 seconds West, 60.00 feet to a point on the Northerly 60 feet right of way line of 27 Mile Road and the point of beginning; thence along said line South 85 degrees 03 minutes 17 seconds West 325.24 feet to a point on the East right of way line of Gratiot Avenue; thence along said line North 27 degrees 37 minutes 02 seconds East 434.39 feet; thence South 62 degrees 23 minutes 30 seconds East, 81.49 feet; thence South 30 degrees 03 minutes 00 seconds East 5.92 feet; thence South 62 degrees 23 minutes 30 seconds East 90.50 feet; thence South 40 degrees 30 minutes 25 seconds East, 21.46 feet; thence South 62 degrees 24 minutes 47 seconds East, 64.51 feet; thence South 27 degrees 37 minutes 02 seconds West, 228.35 feet along a line parallel with the East right of way of Gratiot Avenue; thence South 04 degrees 56 minutes 43 seconds East, 23.59 feet to the point of beginning.

SITE INFORMATION:

PARCEL SIZE:
GROSS: 2.084 ACRES (90,780 SF)
NET: 2.084 ACRES (90,780 SF)

CURRENT ZONINGS:
GB: GENERAL BUSINESS DISTRICT

ADJACENT ZONING:
NORTH: GB: GENERAL BUSINESS DISTRICT
SOUTH: GB: GENERAL BUSINESS DISTRICT
WEST: GB: GENERAL BUSINESS DISTRICT
EAST: GB: GENERAL BUSINESS DISTRICT

BUILDING SETBACKS: REQUIRED: EXISTING:
FRONT: 35'-0" >35'-0"
SIDE: 15'-0" (X2 = 30) >15'-0"
REAR: 15'-0" >15'-0"

BUILDING HEIGHT: ALLOWED: EXISTING:
35'-0" 22'-0" HIGH POINT OF ROOF
(2 STORIES) (2 STORIES)

BUILDING AREA:
BUILDING 1: 14,723 S.F.
DRIVE THRU CANOPY: 640 S.F. OF ROOF AREA
TOTAL FLOOR AREA: 14,723 S.F.

LOT COVERAGE:
BUILDING LOT COVERAGE:
ALLOWABLE: 35%
PROPOSED: 14,723 / 90,780 = 16.2% OF GROSS ACREAGE
PARKING REQUIREMENTS:
515-101: 1 SPACE FOR EACH 200 SF USABLE FLOOR AREA
14,723 / 200 = 74 SPACES

TOTAL NUMBER OF SPACES REQUIRED: 74 SPACES
TOTAL NUMBER OF SPACES PROVIDED: 76 SPACES (3 H.C.)

LOADING REQUIREMENTS:
515-101: 1 SPACE FOR EACH 2,000 TO 19,999 SF GFA
(14,723 GFA = 1 SPACE)

NOTE

THIS SURVEY IS BASED UPON A COMMITMENT FOR TITLE INSURANCE BY FIRST AMERICAN TITLE INSURANCE COMPANY, COMMITMENT NUMBER: VT-2025-13837 Dated: AUGUST 8, 2025

BEARINGS IN RELATION TO DESCRIPTION OF RECORD.

THERE IS NO OBSERVABLE EVIDENCE OF CURRENT EARTH MOVING WORK, BUILDING CONSTRUCTION OR BUILDING ADDITIONS.

THE LOCATION OF UTILITIES SHOWN ON THIS SURVEY, BOTH ABOVE AND BELOW GROUND, ARE SHOWN FROM INFORMATION OF RECORD SUPPLIED TO THE SURVEYOR AND A VISUAL INSPECTION OF THE PREMISES; NO GUARANTEE IS GIVEN AS TO THE COMPLETENESS OR ACCURACY THEREOF. EXACT LOCATION SHOULD BE VERIFIED IN THE FIELD WITH THE UTILITY COMPANY PRIOR TO ANY CONSTRUCTION WHICH MAY AFFECT THE UTILITY.

SAID DESCRIBED PROPERTY IS LOCATED WITHIN AN AREA HAVING A ZONE DESIGNATION X BY THE SECRETARY OF HOUSING AND URBAN DEVELOPMENT, ON FLOOD INSURANCE RATE MAP No. 26099C02566, WITH A DATE OF IDENTIFICATION OF SEPTEMBER 29, 2006, FOR COMMUNITY NUMBER 260446, IN MACOMB COUNTY, STATE OF MICHIGAN, WHICH IS THE CURRENT FLOOD INSURANCE RATE MAP FOR THE COMMUNITY OF WHICH SAID PROPERTY IS LOCATED.

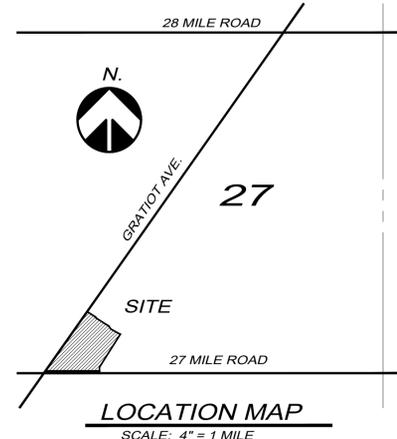
TITLE EXCEPTIONS

- Items 1-6 NOT SHOWN ON SURVEY, NOTHING TO PLOT
- Item 7 RIGHTS OF THE PUBLIC AND OF ANY GOVERNMENTAL UNIT IN ANY PART OF LAND TAKEN, USED OR DEEDED FOR HIGHWAY PURPOSES.
- Items 8-23 NOT SHOWN ON SURVEY, NOTHING TO PLOT
- Item 24 SUBJECT TO AN EASEMENT AND OPERATING AGREEMENT AS RECORDED IN L.19587, P.819, MACOMB COUNTY RECORDS, NOT SHOWN ON SURVEY, NOTHING TO PLOT

NORTH

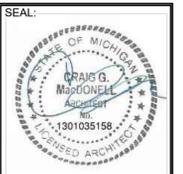


SCALE: 1"=30'



Section 8, Item B.

MACDONELL ASSOCIATES
ARCHITECTURE • PLANNING • INTERIORS
312 E. LIBERTY ST.
MILFORD, MICHIGAN 48381
(248) 685-1873
(248) 302-0158 CELL
ravensrock@msn.com



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PROJECT: **NEW BRANCH ALTERATIONS FOR: EXTRA CREDIT UNION**
59010 GRATIOT AVE
NEW HAVEN, MICHIGAN 48048
(566) 276-3000

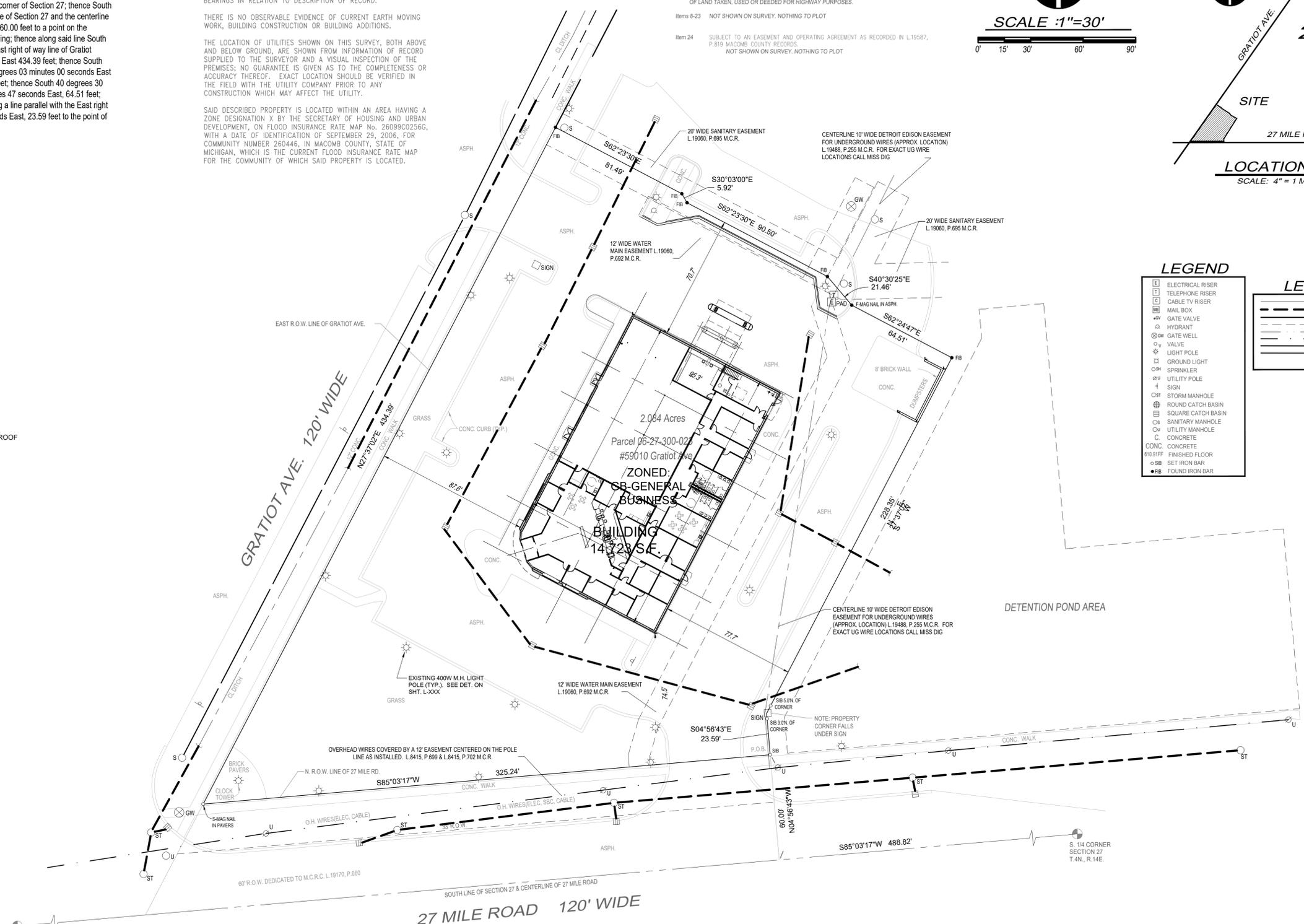
OWNER: **EXTRA CREDIT UNION**
59010 GRATIOT AVE
NEW HAVEN, MICHIGAN 48048
(248) 646-1717 CONTACT: GARY PERELLI CONTRACTOR

ISSUED FOR: OWNER REVIEW
DATE: 08.28.2025
DATE: 08.28.2025

SHEET CONTENT:
ARCHITECTS SITE PLAN EXISTING CONDITIONS

FILE NO.: **ECU-25-033**
SHEET NO.: **AS-100**

ARCHITECTURAL SITE PLAN
SCALE: 1" = 30'-0"



LEGEND

- ELECTRICAL RISER
- TELEPHONE RISER
- CABLE TV RISER
- MAIL BOX
- GATE VALVE
- HYDRANT
- GATE WELL
- VALVE
- LIGHT POLE
- GROUND LIGHT
- SPRINKLER
- UTILITY POLE
- SIGN
- STORM MANHOLE
- ROUND CATCH BASIN
- SQUARE CATCH BASIN
- SANITARY MANHOLE
- UTILITY MANHOLE
- CONCRETE
- CONC. CONCRETE
- FINISHED FLOOR
- SET IRON BAR
- FOUND IRON BAR

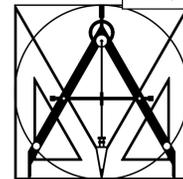
LEGEND

- WATER MAIN
- STORM SEWER
- SANITARY SEWER
- EASEMENT
- EX. U.G. ELEC.
- EX. U.G. WIRE
- EX. U.G. TELE.
- EX. U.G. GAS



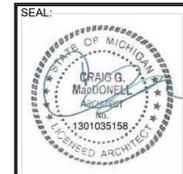
KNOW WHAT'S BELOW. CALL BEFORE YOU DIG.

Contractor Note:
The locations of existing underground utilities are shown in an approximate way only. The contractor shall determine the exact location of all existing utilities before commencing work. He agrees to be fully responsible for any and all damages which might be occasioned by his failure to exactly locate and preserve any and all underground utilities.



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MILFORD, MICHIGAN 48381
(248) 685-1873
(248) 302-0158 CELL
ravensrock@msn.com



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PROJECT: **NEW BRANCH ALTERATIONS FOR :**
EXTRA CREDIT UNION
59010 GRATIOT AVE
NEW HAVEN, MICHIGAN 48048
(566) 276-3000

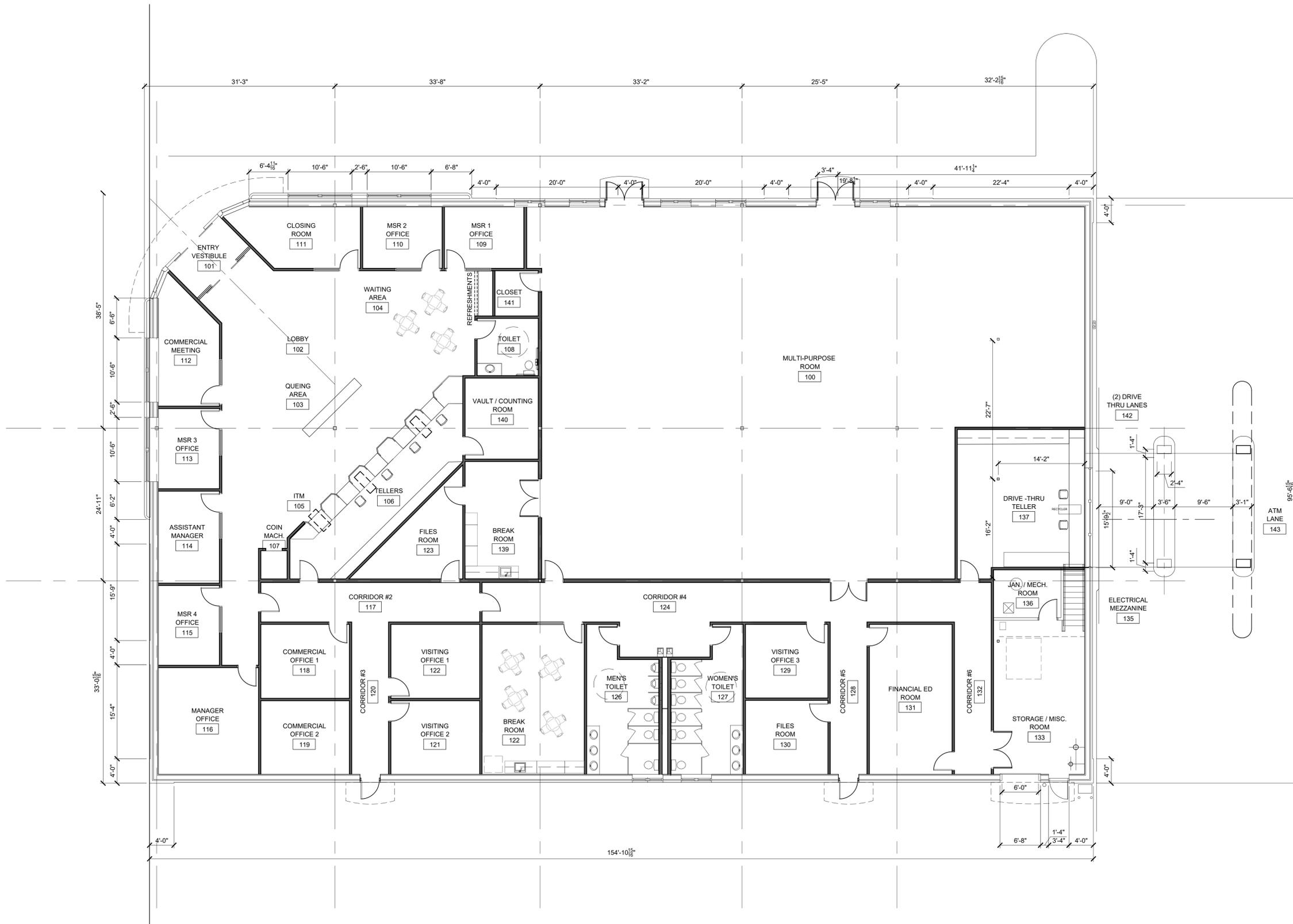
OWNER: **EXTRA CREDIT UNION**
59010 GRATIOT AVE
NEW HAVEN, MICHIGAN 48048
(248) 646-1717
CONTACT: GARY PERELLI CONTRACTOR

ISSUED FOR:
OWNER REVIEW
DATE: 08/28/2025
DATE: 12/22/2025

SHEET CONTENT:
EXISTING / FLOOR PLAN W/ PROPOSED ALTERATION NEW WORK

FILE NO.: **ECU-25-033**

SHEET NO.: **A-210**



FIRST FLOOR PLAN - PROPOSED ALTERATIONS NEW WORK
SCALE: 1/8" = 1'-0"



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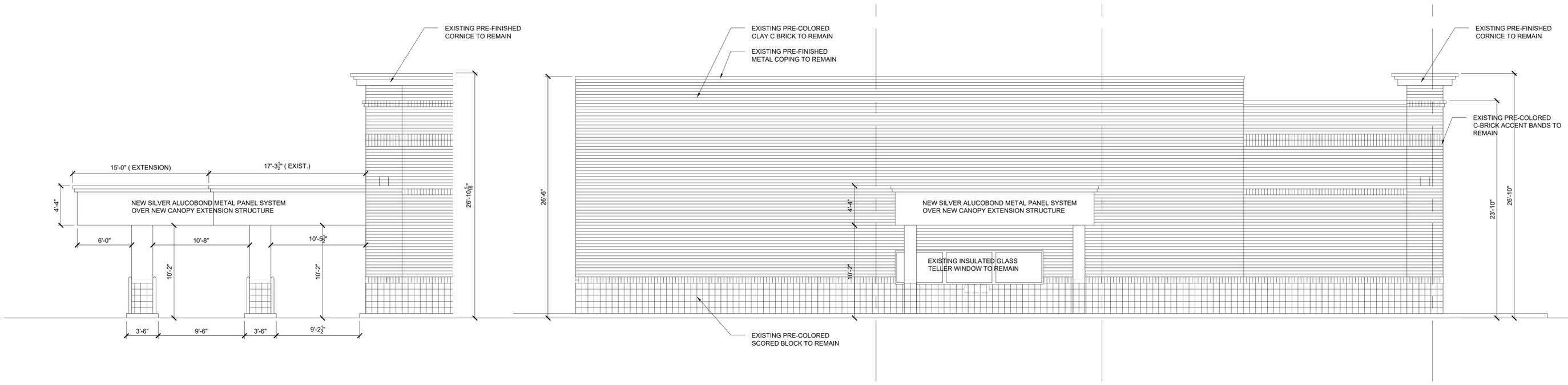
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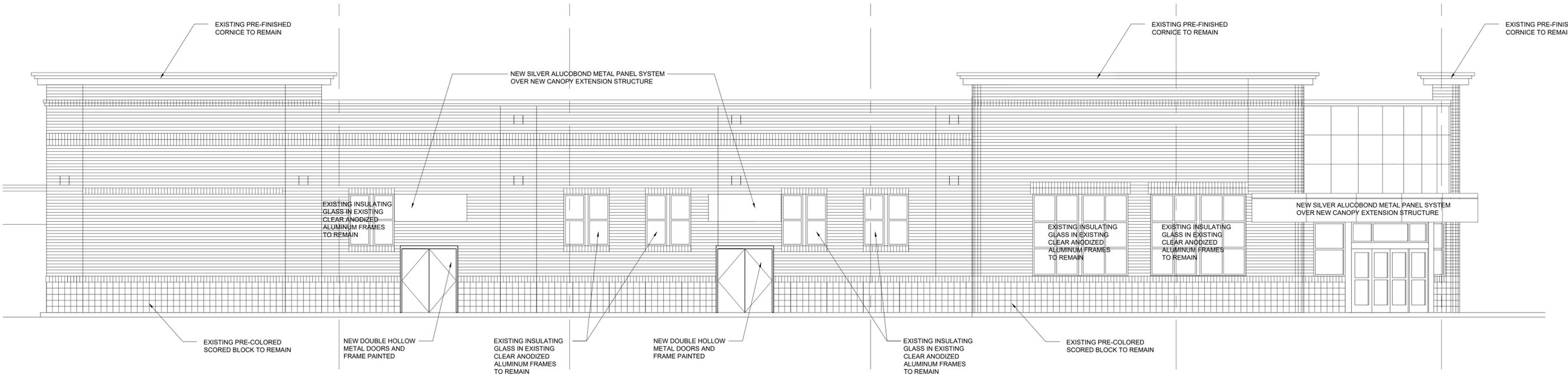


WEST ELEVATION - DRIVE THRU CANOPY EXPANSION

SCALE: 3/16" = 1'-0"

NORTH ELEVATION - EXISTING CONDITIONS / NEW ALTERATIONS

SCALE: 3/16" = 1'-0"



WEST ELEVATION - EXISTING CONDITIONS / NEW ALTERATIONS

SCALE: 3/16" = 1'-0"

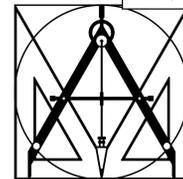
PROJECT: **NEW BRANCH ALTERATIONS FOR :**
EXTRA CREDIT UNION
59010 GRATIOT AVE
NEW HAVEN, MICHIGAN 48048
(566) 276-3000
OWNER: **EXTRA CREDIT UNION**
59010 GRATIOT AVE
NEW HAVEN, MICHIGAN 48048
(248) 646-1717
CONTACT: GARY PERELLI CONTRACTOR

ISSUED FOR:
OWNER REVIEW
DATE: 08/23/2025
DATE: 12/22/2025

SHEET CONTENT:
**EXISTING/
PROPOSED
EXTERIOR
ELEVATIONS**

FILE NO.:
ECU-25-033

SHEET NO.:
A-301



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MILFORD, MICHIGAN 48381

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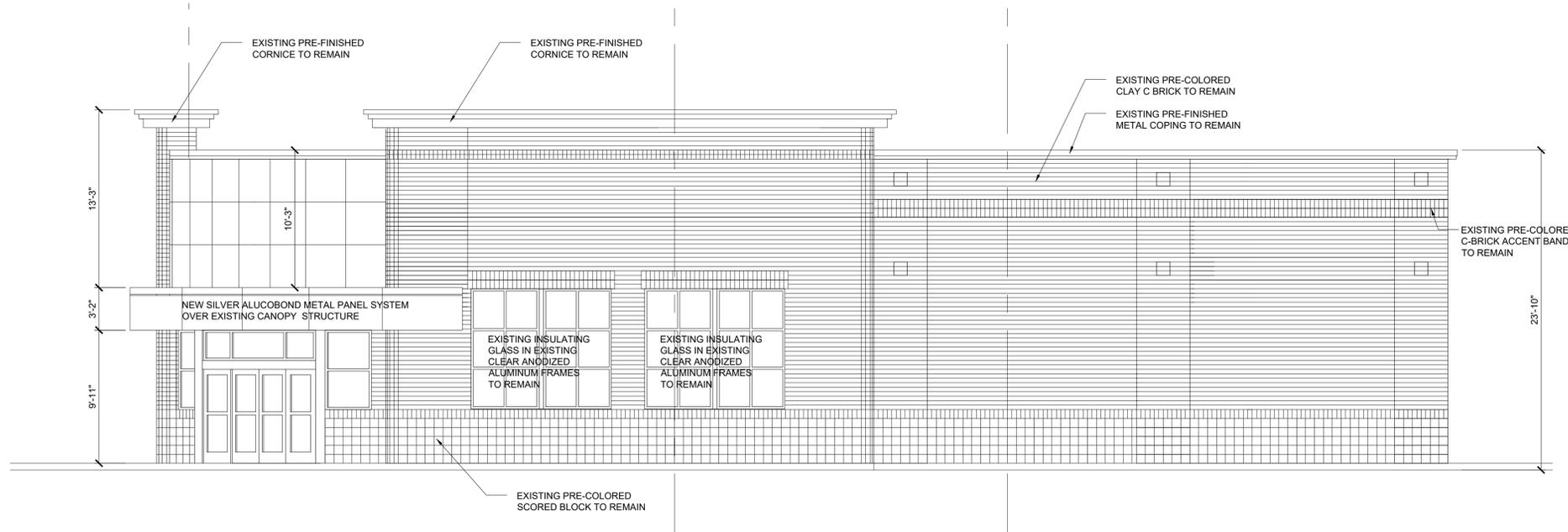
(248) 302-0158 CELL

ravensrock@msn.com



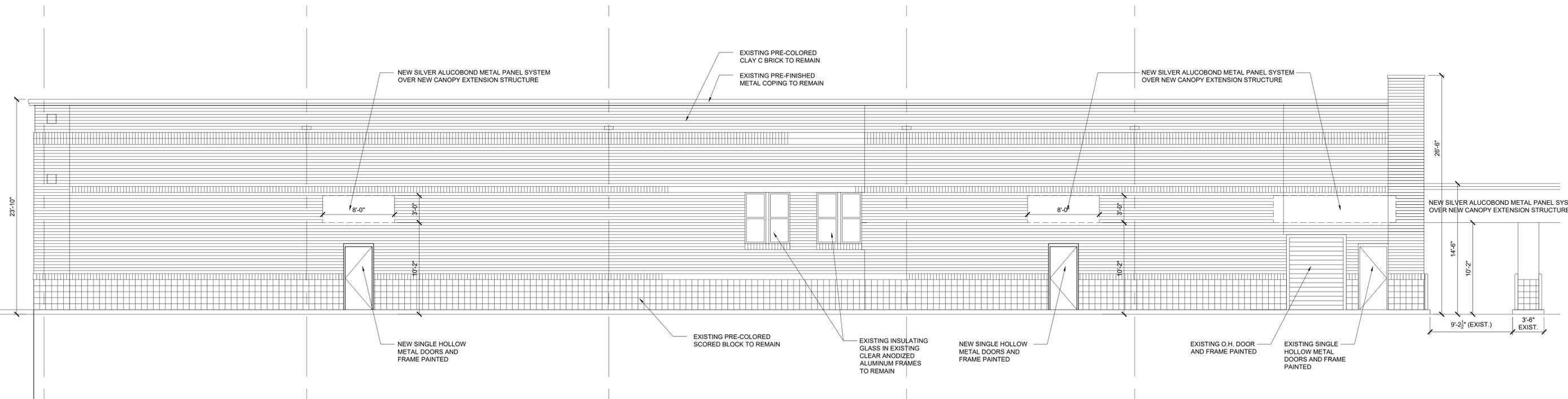
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SOUTH ELEVATION - EXISTING CONDITIONS / NEW ALTERATIONS

SCALE: 3/16" = 1'-0"



EAST ELEVATION - EXISTING CONDITIONS / NEW ALTERATIONS

SCALE: 3/16" = 1'-0"

PROJECT: NEW BRANCH ALTERATIONS FOR :

EXTRA CREDIT UNION
59010 GRATIOT AVE
NEW HAVEN, MICHIGAN 48048
(566) 276-3000

OWNER: EXTRA CREDIT UNION
59010 GRATIOT AVE
NEW HAVEN, MICHIGAN 48048
(248) 646-1717

CONTACT: GARY PERELLI CONTRACTOR

ISSUED FOR: OWNER REVIEW
DATE: 08/23/2025
DATE: 12/22/2025

SHEET CONTENT:
**EXISTING/
PROPOSED
EXTERIOR
ELEVATIONS**

FILE NO.: ECU-25-033
SHEET NO.: A-302

THESE DRAWINGS ARE CONSIDERED DESIGN INTENT AND ARE NOT FOR CONSTRUCTION
DO NOT SCALE DRAWINGS. FIGURED DIMENSIONS ARE FOR GUIDANCE ONLY.
FIELD DIMENSIONS AND CLIENT EQUIPMENT SPEC'S MUST BE TAKEN PRIOR TO MANUFACTURE.

- preliminary
- presentation
- final/bid
- revision

client

Extra Credit  **UNION**

location

NEW HAVEN, MI

project

CONCEPT

drawn

SB

date

22 Dec 2025

drawing number

I-404

title

**EXTERIOR
CONCEPT
RENDERING**

scale

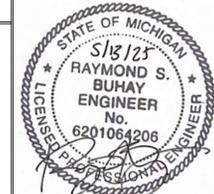
NTS





AT&T

GENERATOR REPLACEMENT NEW HAVEN CDO 59041 MAIN ST NEW HAVEN, MI 48048

PROJECT NAME: NEW HAVEN CDO - GENERATOR DESIGN	
DET-24002045-A4	

CONSULTANT STAMP	
exp U.S. Services Inc. 27777 Franklin Road Suite 1510 Southfield, MI 48034 U.S.A. www.exp.com	
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY • • INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •	

REVISIONS / AUTHORIZATIONS			
NO.	REVISIONS / AUTHORIZATIONS	DATE	BY
	PERMIT AND CONSTRUCTION	05/15/25	
	FINAL REVIEW #2	04/18/25	
	FINAL REVIEW	03/18/25	
	50% REVIEW	12/17/24	

PROPRIETARY AT&T INFORMATION
 NOT FOR GENERAL USE OR DISCLOSURE OUTSIDE OF AT&T
 THIS INFORMATION MAY ONLY BE USED BY AUTHORIZED
 PERSONNEL OF THE LOCAL GOVERNMENT AGENCY IN CONNECTION
 WITH APPLICATION FOR PERMITS AND AUTHORIZATIONS FOR
 BUILDINGS, CONSTRUCTION, AND/OR ZONING CHANGES.

	AT&T CORPORATE REAL ESTATE
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PROJECT_DRAWING

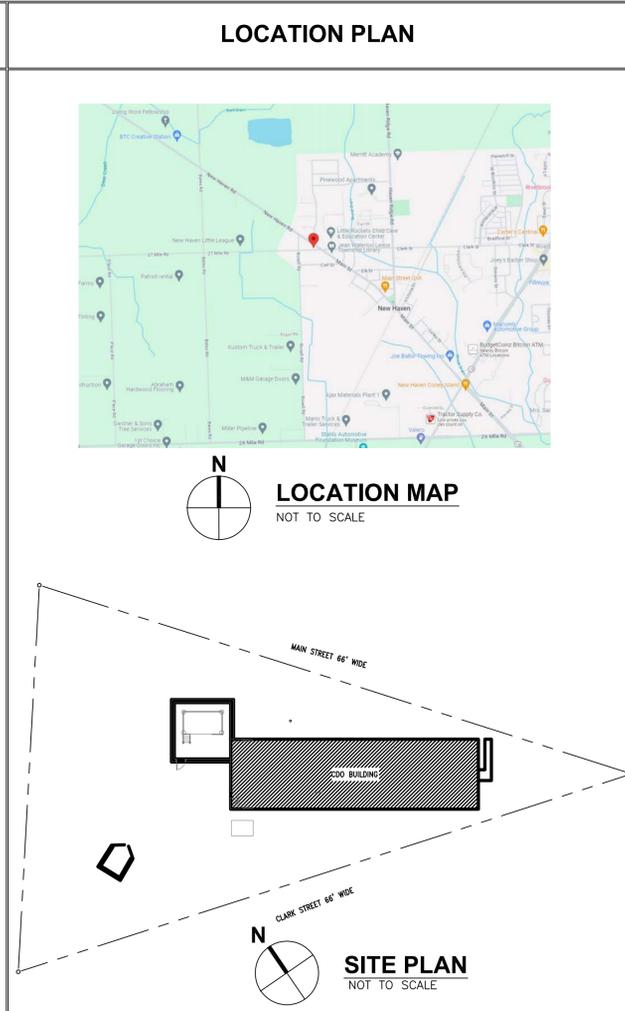
59041 MAIN ST
 NEW HAVEN
 MI US
 NWHNMIMM 111436.01 M18255

SHEET TITLE: COVER SHEET GENERAL			
AT&T PROJECT NUMBER: 2001272	DATE:	SCALE: N/A	
AT&T AUTHORIZATION: AIMEE BUTLER	DRAWN BY: SM	CHECKED BY: RB	
	SHEET: --	OF: --	SHEETS
	AT&T DRAWING NO.:		SHEET NO.
	2001272G00001		G00001

- ### GENERAL NOTES
- CONTRACTOR SHALL CLEAN AND DAMP MOP ALL WORK AREAS AND WORK TRAFFIC AREAS AT THE END OF EACH DAY.
 - CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING BID.
 - ALL PATCHING OF EXISTING CONSTRUCTION TO REMAIN SHALL BE DONE TO MATCH EXISTING MATERIALS AND FINISHES AND SO AS TO NOT VOID ANY EXISTING PRODUCT WARRANTIES.
 - THE OWNER'S CONSTRUCTION REPRESENTATIVE SHALL COORDINATE AND SUPERVISE THE WORK OF ALL TRADES AND FIELD VERIFY ALL DIMENSIONS PRIOR TO INSTALLATION OF SUBCONTRACTORS' WORK. CONTRACTOR SHALL PAY FOR ALL COSTS ASSOCIATED WITH CHANGES DUE TO LACK OF COORDINATION.
 - THE CONTRACTOR SHALL CONFINE CONSTRUCTION TRAFFIC AND DEBRIS REMOVAL TO THE CONSTRUCTION AREA TO PREVENT DUST -RELATED DAMAGE TO THE TELECOMMUNICATIONS EQUIPMENT.
 - THE CONTRACTOR SHALL FURNISH SAMPLES AND SHOP DRAWINGS OF ALL EQUIPMENT AND FINISHES FOR REVIEW AND APPROVAL IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT AND SPECIFICATIONS.
 - ALL WORK SHALL CONFORM WITH THE MORE STRINGENT GUIDELINES FOR INSTALLATION AS ESTABLISHED BY THE PRODUCT MANUFACTURER OR THE RELEVANT STANDARDS ORGANIZATION.
 - PATCH, PAINT AND REPAIR ALL FLOORS, WALLS AND CEILINGS TO MATCH THE EXISTING CONSTRUCTION AND FINISHING OF THE BUILDING IN ALL LOCATIONS WHERE MECHANICAL AND ELECTRICAL DEMOLITION AND NEW WORK IS PERFORMED.
 - WHERE UTILITY SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED, OR MODIFIED, PROVIDE BYPASS CONNECTIONS TO MAINTAIN CONTINUITY OF SERVICE TO OTHER PARTS OF THE BUILDING BEFORE PROCEEDING WITH THE WORK.
 - SEALANT REQUIRED FOR ALL EXTERIOR APPLICATIONS SHALL BE A TWO-PART POLYURETHANE MODIFIED SEALANT. SEALANT USED AT ALL DUCT, PIPE AND CONDUIT PENETRATIONS THROUGH WALLS AND FLOOR SLABS SHALL BE MANUFACTURED BY HILTI AND SHALL MEET UL REQUIREMENTS FOR THE FIRE RATED ASSEMBLIES BEING PENETRATED. PROVIDE CONTINUOUS HILTI FIRESAFING AT ALL DUCT, PIPE AND CONDUIT PENETRATIONS THROUGH WALLS AND FLOOR SLABS.
 - TEMPORARY DUST CONTAINMENT PARTITIONS ARE REQUIRED BEFORE ANY DEMOLITION OR ALTERATION WORK IS STARTED. FABRICATE WITH 2X4 FIRE RETARDANT STUDS AT 24" ON CENTER WITH TOP AND BOTTOM PLATES. PROVIDE AIR AND DUST TIGHT TEMPORARY WOOD DOOR. COVER FRAMING WITH FLEXIBLE GRIFFOLYN (1-800-231-6074) OR REBCO ANTI-STATIC FIRE SHEETS ON BOTH SIDES. PROVIDE LOCK AND WEATHER-STRIPPING AT DOOR. SEAL ALL EDGES OF ASSEMBLY DUST TIGHT.
 - THE CONTRACTOR SHALL PROTECT ALL EXISTING SITE AND BUILDING CONDITIONS FROM DAMAGE DUE TO CONSTRUCTION. THE CONTRACTOR SHALL REPAIR OR REPLACE EXISTING EQUIPMENT, WALLS ETC FROM DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
 - SURVEY, INVENTORY AND RECORD THE CONDITION OF ITEMS TO BE REMOVED AND REINSTALLED WITH THE OWNER, SURVEY EXISTING CONDITIONS PRIOR TO THE START OF WORK.
 - WHEN EXISTING MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS CONFLICTING WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, INVESTIGATE THE NATURE AND EXTENT OF THE CONFLICT. PROMPTLY SUBMIT A WRITTEN REPORT TO THE ARCHITECT.
 - MAINTAIN UTILITIES EQUIPMENT IN SERVICE AND PROTECT AGAINST DAMAGE DURING CONSTRUCTION. DO NOT INTERRUPT EXISTING UTILITIES SERVING OCCUPIED OR OPERATING FACILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY THE BUILDING MANAGER AND AUTHORITIES HAVING JURISDICTION. IF REQUIRED BY THE OWNER, AT THE CONTRACTORS EXPENSE, PROVIDE TEMPORARY SERVICE DURING INTERRUPTIONS TO EXISTING UTILITIES. PROVIDE NOT LESS THAN 72 HOURS PRIOR NOTICE TO THE OWNER AND BUILDING MANAGER IF SHUTDOWN OF SERVICE IS REQUIRED.
 - THE CONTRACTOR SHALL PROTECT THE TELECOMMUNICATIONS EQUIPMENT PER THE LATEST AT&T STANDARDS, AND TO THE SATISFACTION OF THE AT&T BUILDING MANAGER. EQUIPMENT PROTECTION WHICH IS TO REMAIN IN PLACE FOR MORE THAN 24 HOURS SHALL BE CONSTRUCTED IN SUCH A WAY TO ALLOW ACCESS TO THE EQUIPMENT, AS WELL AS TO ACCOMMODATE EQUIPMENT VENTILATION REQUIREMENTS.
 - ASBESTOS CONTAINING MATERIALS (ACM) IS STRICTLY PROHIBITED FROM BEING INSTALLED ON ALL AT&T PROJECTS. SHOULD ACM BE INADVERTENTLY INSTALLED ON PROJECTS, PROPER REMOVAL, DISPOSAL AND REPLACEMENT WITH APPROVED PRODUCT SHALL BE THE SOLE RESPONSIBILITY OF THE INSTALLING CONTRACTOR AT NO COST TO THE OWNER.
 - CONTACT JON NIXON, AT&T DAMAGE PREVENTION MANAGER AT OFFICE NUMBER: (616) 881-2268 OR EMAIL: JN3249@ATT.COM PRIOR TO ANY EXCAVATING, DRILLING OR DIGGING AT ANY AT&T LOCATION.

DRAWING INDEX

GENERAL	
G00001	COVER SHEET
G00002	RESPONSIBILITY MATRIX
CIVIL	
C10000	GENERAL NOTES
C10101D	EXISTING CONDITIONS AND DEMOLITION PLAN
C20000	NEW WORK PLAN
C40000	DETAILS
C40001	U.S.T. DETAILS
MECHANICAL	
M00001	ABBR., SYMBOLS & NOTES
M10101	FIRST FLOOR PLAN - DEMO & NW
M50001	DETAILS
ELECTRICAL	
E00001	ABBR., SYMBOLS & NOTES
E10101	FIRST FLOOR PLAN - DEMO & NW
E40101	PART. FIRST FLOOR PLAN - PWR - NW
E40102	PART. FIRST FLOOR PLAN - GRD - NW
E50001	BOSCH PANEL DETAILS
E60001	GROUNDING RISER & DETAILS
E60002	GROUNDING DETAILS
E60003	CONTROL WIRING DIAGRAM
E60004	FUEL SYSTEM WIRING DIAGRAM
E60005	DETAILS
E60006	GCTP & NAMEPLATE SCHEDULE
ONE LINE DIAGRAM	
N60000D	ONE LINE DIAGRAM - DEMO
N60001	ONE LINE DIAGRAM - NW
FIRE ALARM	
D00001	LEGEND, NOTES & MATRIX
D10101D	FIRST FLOOR PLAN - DEMO
D10101	FIRST FLOOR PLAN - NEW WORK
D50001	RISER AND DETAILS
D50002	CALCULATIONS
D50003	NOTES & DETAILS



BUILDING CODE ANALYSIS

GENERAL PROJECT INFORMATION:
 OWNER: AT&T CORPORATE REAL ESTATE
 AUTHORITY HAVING JURISDICTION: NEW HAVEN, MI

CODE TYPE/YEAR:
 BUILDING: 2021 MBC
 STRUCTURAL: 2021 MBC
 PLUMBING: 2021 MPC
 FIRE/LIFE-SAFETY: MICHIGAN FIRE PREVENTION CODE
 ACCESSIBILITY: 2021 MBC
 MECHANICAL: 2021 MMC
 ELECTRICAL: THE ELECTRICAL CODE RULES PART 8, INCORPORATING THE 2023 EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), AND ALL OTHER LOCAL CODES

OTHER PROJECT INFORMATION:
 OCCUPANCY CLASSIFICATION: GROUP B (TELECOMMUNICATIONS)
 CONSTRUCTION TYPE: IIB
 NON-SPRINKLERED
 S_s = 0.056
 S_t = 0.044
 RISK CATEGORY IV (PER MBC TABLE 1604.5)
 SITE CLASS D (ASSUMED)
 S_{ps} = 0.092
 S_{o1} = 0.071
 SDC = SEISMIC DESIGN CATEGORY = C (IBC)
 SHL = SEISMIC HAZARD LEVEL = D (SMACNA)

PROJECT DIRECTORY

OWNER REPRESENTATIVE: AIMEE BUTLER AT&T CORPORATE REAL ESTATE 248-761-8139 EMAIL: AP2953@ATT.COM	CONSTRUCTION MANAGER: ADAM MINGER GILBANE BUILDING COMPANY 517-420-7858 EMAIL: AMINGER@GILBANE.CO	ARCHITECT/ENGINEER: EXP U.S. SERVICES ARCHITECTURAL: ASHLEY ARMBRUSTMACHER: 248-351-8214 EMAIL: ASHLEY.ARMBRUSTMACHER@EXP.COM ELECTRICAL: PERRY NORRITO: 248-351-8225 EMAIL: PERRY.NORRITO@EXP.COM MECHANICAL: RAYMOND BUHAY: 248-351-8216 EMAIL: RAYMOND.BUHAY@EXP.COM CIVIL: NICHOLAS KARPATY EMAIL: NICHOLAS.KARPATY@EXP.COM
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PROJECT SUMMARY

REPLACEMENT OF GENERATOR AND BELLY TANK AND INSTALLATION OF GENERATOR MODULE AND AST. MODULE AND AST TO BE SCREENED WITH VEGETATION.

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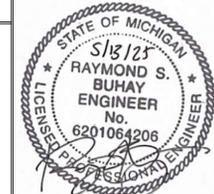
PROJECT SCHEDULE OF WORK ITEMS RESPONSIBILITY MATRIX

THE WORK FOR THE GENSET PROJECT SHALL BE PROVIDED UNDER TWO (2) SEPARATE CONTRACTS NAMELY, GENSET CONTRACT AND CONSTRUCTION CONTRACT. THE SCHEDULE OF WORK ITEMS SUMMARIZES UNDER WHICH CONTRACT VARIOUS ITEMS OF WORK ARE TO BE PERFORMED. THE OWNER'S CONSTRUCTION REPRESENTATIVE SHALL PRODUCE THE OVERALL SCHEDULE AND ALSO COORDINATE THE ON SITE WORK ACTIVITIES FOR GENSET CONTRACT AND CONSTRUCTION CONTRACT.

ITEM #	ITEM	SUPPLY	INSTALLATION	TERMINATIONS AND CONNECTIONS
1.	BATTERY CHARGER	GENSET CONTRACT	GENSET CONTRACT	GENSET CONTRACT
2.	DEMOLITION AND SITE PREPARATION FOR NEW GENERATOR	CONSTRUCTION CONTRACT	CONSTRUCTION CONTRACT	CONSTRUCTION CONTRACT
3.	DISPOSAL OF EXISTING BATTERIES	OWNER	_____	_____
4.	ENGINE MOUNTED PRIMING HAND PUMP	GENSET CONTRACT	GENSET CONTRACT	GENSET CONTRACT
5.	STEEL BRAIDED FLEXIBLE FUEL LINES AT ENGINE	GENSET CONTRACT	GENSET CONTRACT	GENSET CONTRACT
6.	STEEL BRAIDED FUEL PIPES/HOSES ON ENGINE (REQUESTED BY LARA)	GENSET CONTRACT	GENSET CONTRACT	GENSET CONTRACT
7.	FUEL OIL COOLER (GENSET MOUNTED)	GENSET CONTRACT	GENSET CONTRACT	GENSET CONTRACT
8.	DAY-TANK SET (INCLUSIVE OF FUEL SUPPLY PUMPS)	N/A	N/A	N/A
9.	FUEL SYSTEM CONTROL PANEL (VEEDER ROOT CP), FUEL MONITORING PNL CONDUIT & WIRING, PROBES & SENSORS	CONSTRUCTION CONTRACT	CONSTRUCTION CONTRACT	CONSTRUCTION & GENSET CONTRACT
10.	GENSET ALARM BSI TERMINAL CABINET AND WIRING	CONSTRUCTION CONTRACT	CONSTRUCTION CONTRACT	CONSTRUCTION & GENSET CONTRACT
11.	MAIN GENERATOR CONTROL PANEL (GCP) (ON-SET)	GENSET CONTRACT	GENSET CONTRACT	CONSTRUCTION & GENSET CONTRACT
12.	GENERATOR COOLANT MIX	GENSET CONTRACT	GENSET CONTRACT	_____
13.	GENERATOR DELIVERY TO PROJECT SITE	GENSET CONTRACT	_____	_____
14.	GENERATOR OUTPUT BREAKER (WITH LOCKOUT PROVISIONS & SET MOUNTED)	GENSET CONTRACT	GENSET CONTRACT	CONSTRUCTION & GENSET CONTRACT
15.	GENERATOR EXTERNAL GROUNDING WELDED TABS	GENSET CONTRACT	CONSTRUCTION CONTRACT	CONSTRUCTION CONTRACT
16.	GENERATOR LUBE OIL	GENSET CONTRACT	GENSET CONTRACT	_____
17.	"GEN-CTP" PANEL (GCTP)	GENSET CONTRACT	GENSET CONTRACT	CONSTRUCTION & GENSET CONTRACT
18.	"GEN-CTP" (GCTP) PANEL FEEDER CIRCUIT	CONSTRUCTION CONTRACT	CONSTRUCTION CONTRACT	CONSTRUCTION CONTRACT
19.	MAIN FUEL (AST) TANK AND EXTERIOR DOUBLE-WALL PIPING	CONSTRUCTION CONTRACT	CONSTRUCTION CONTRACT	CONSTRUCTION CONTRACT
20.	FUEL PIPING AND COMPONENTS INSIDE MODULE TILL ENGINE	GENSET CONTRACT	GENSET CONTRACT	GENSET CONTRACT
21.	OUTPUT BREAKER LOAD SIDE FEEDER & LUGS	CONSTRUCTION CONTRACT	CONSTRUCTION CONTRACT	CONSTRUCTION CONTRACT
22.	OUTPUT BREAKER LINE SIDE FEEDER & LUGS	GENSET CONTRACT	GENSET CONTRACT	GENSET CONTRACT
23.	OUTPUT BREAKER LOAD SIDE HEADER BOX, PER NEC	CONSTRUCTION CONTRACT	CONSTRUCTION CONTRACT	CONSTRUCTION CONTRACT
24.	PORTABLE GENSET CONNECTION CABINET (PGCC)	CONSTRUCTION CONTRACT	CONSTRUCTION CONTRACT	CONSTRUCTION CONTRACT
25.	REMOTE EMERGENCY STOP PUSHBUTTON(S) WITH PROTECTIVE COVERS INSIDE MODULE	GENSET CONTRACT	CONST. & GENSET CONTRACT	CONSTRUCTION & GENSET CONTRACT
26.	KIRK KEYS - GENSET OUTPUT BREAKER AND PORTABLE GENSET CONNECTION CABINET	N/A	N/A	N/A
27.	REMOTE ANNUNCIATOR PANEL AND WIRING	GENSET CONTRACT	CONSTRUCTION CONTRACT	CONSTRUCTION & GENSET CONTRACT
28.	REMOVAL OF EXISTING GENSET AND MODULE	OWNER/CONSTRUCTION CONTRACT	OWNER/CONSTRUCTION CONTRACT	OWNER/CONSTRUCTION CONTRACT
29.	REMOVAL OF EXISTING LUBE OIL	OWNER	OWNER/CONSTRUCTION CONTRACT	OWNER
30.	REMOVAL OF EXISTING COOLANT	OWNER	OWNER/CONSTRUCTION CONTRACT	OWNER
31.	REMOVAL OF EXISTING FUEL	OWNER	OWNER/CONSTRUCTION CONTRACT	OWNER
32.	RIGGING AND SETTING OF NEW GENSET MODULE	GENSET CONTRACT	GENSET CONTRACT	GENSET CONTRACT
33.	BASLER "HSP" CONTROL (N/A)	N/A	N/A	N/A
34.	EXHAUST FAN, DAMPERS MOTOR & DAMPER CNTRL PANEL	GENSET CONTRACT	GENSET CONTRACT	GENSET CONTRACT
35.	MODULE AND GENERATOR	GENSET CONTRACT	GENSET CONTRACT	CONSTRUCTION & GENSET CONTRACT
36.				
37.				
38.				

NOTES:

1. THE OWNER'S CONSTRUCTION REPRESENTATIVE SHALL USE THIS SCHEDULE TO COORDINATE AND/OR PERFORM THE TERMINATION AND CONNECTIONS AS LISTED. THIS WORK MAY NOT BE DUPLICATED OR INDICATED ON THE SPECIFIC DISCIPLINE DESIGN DRAWING SHEETS. THIS SCHEDULE SHALL BE THE GOVERNING DOCUMENT FOR INSTALLATION OF THE NEW GENSET.
2. THE WORK FOR THE GENSET PROJECT SHALL BE PROVIDED UNDER TWO (2) SEPARATE CONTRACTS NAMELY, GENSET CONTRACT AND CONSTRUCTION CONTRACT. THE SCHEDULE OF WORK ITEMS SUMMARIZES UNDER WHICH CONTRACT VARIOUS ITEMS OF WORK ARE TO BE PERFORMED. THE OWNER'S CONSTRUCTION REPRESENTATIVE SHALL PRODUCE THE OVERALL SCHEDULE AND ALSO COORDINATE THE ON SITE WORK ACTIVITIES UNDER GENSET CONTRACT AND CONSTRUCTION CONTRACT.
3. ALL FINAL CONNECTIONS TO THE GENERATOR CONTROL PANEL SHALL BE BY THE GENSET CONTRACTOR. CONSTRUCTION CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS WITH GENSET CONTRACTOR.

PROJECT NAME: NEW HAVEN CDO - GENERATOR DESIGN DET-24002045-A4	
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CONSULTANT STAMP exp U.S. Services Inc. <small> (+1 248 351 8200) (+1 248 351 8250) 27777 Franklin Road Suite 1510 Southfield, MI 48034 U.S.A. www.exp.com </small>	 • BUILDINGS • EARTH & ENVIRONMENT • ENERGY • • INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •
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REVISIONS / AUTHORIZATIONS			
NO.	REVISIONS / AUTHORIZATIONS	DATE	BY
	PERMIT AND CONSTRUCTION	05/15/25	
	FINAL REVIEW #2	04/18/25	
	FINAL REVIEW	03/18/25	
	50% REVIEW	12/17/24	

PROPRIETARY AT&T INFORMATION
 NOT FOR GENERAL USE OR DISCLOSURE OUTSIDE OF AT&T
 THIS INFORMATION MAY ONLY BE USED BY AUTHORIZED PERSONNEL OF THE LOCAL GOVERNMENT AGENCY IN CONNECTION WITH APPLICATION FOR PERMITS AND AUTHORIZATIONS FOR BUILDINGS, CONSTRUCTION, AND/ OR ZONING CHANGES.

 AT&T	DRAWINGS PREPARED FOR CORPORATE REAL ESTATE
PROJECT_DRAWING	
59041 MAIN ST NEW HAVEN MI US NWHNMIMN 111436.01 M18255	
SHEET TITLE: RESPONSIBILITY MATRIX GENERAL	
AT&T PROJECT NUMBER: 2001272	DATE: _____ SCALE: N/A DRAWN BY: SM CHECKED BY: RB SHEET: - OF: - SHEETS SHEET NO. _____ AT&T AUTHORIZATION: AIMEE BUTLER AT&T DRAWING NO.: 2001272G00002 600002

GENERAL NOTES:

- EXISTING SITE TOPOGRAPHY, PROPERTY, RIGHT-OF-WAY, AND HORIZONTAL CONTROL DATA SHOWN ON THE DRAWINGS WERE OBTAINED FROM A TOPOGRAPHIC SURVEY PREPARED BY MUXLOW SURVEYING, PROJECT NUMBER 11033, DATED 06/20/2024, AND REVISED 07/03/2024.
- SITE CONDITIONS MAY HAVE CHANGED SINCE THE SURVEY WAS PREPARED. CONTRACTOR TO VISIT SITE TO FAMILIARIZE THEMSELVES WITH THE CURRENT CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO COMMENCEMENT.
- ALL ELEVATIONS ON THE PLANS AND REFERENCED IN THE CONTRACT DOCUMENT ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88 DATUM).
- EXISTING UNDERGROUND UTILITIES AND ASSOCIATED FACILITIES SHOWN ON THESE DRAWINGS HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS. THEREFORE, THEIR LOCATIONS AND ELEVATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHER FACILITIES, THE EXISTENCE OF WHICH ARE NOT PRESENTLY KNOWN.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTING CONDITIONS, INCLUDING, BUT NOT LIMITED TO: THE PROPERTY BOUNDARY, BUILDINGS, STRUCTURES, PAVEMENT, AND UTILITY HORIZONTAL AND VERTICAL LOCATIONS BEFORE THE START OF CONSTRUCTION. NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL AND STARTING WORK.
- THE CONTRACTOR SHALL SUBSCRIBE TO ALL GOVERNING REGULATIONS AND SHALL OBTAIN ALL NECESSARY PUBLIC AGENCY PERMITS PRIOR TO STARTING WORK. THE CONTRACTOR, BY USING THESE PLANS FOR THEIR WORK, AGREE TO HOLD HARMLESS EXP US SERVICES, INC., ITS SUBSIDIARIES AND ASSIGNS, THE AUTHORITY HAVING JURISDICTION (AHJ), THEIR EMPLOYEES AND AGENTS, AND THE OWNER WHILE ACTING WITHIN THE SCOPE OF THEIR DUTIES FROM AND AGAINST ALL LIABILITY, CLAIMS, DAMAGES, AND THE COST OF DEFENSE ARISING OUT OF CONTRACTOR(S) PERFORMANCE OF THE WORK DESCRIBED HEREIN.
- THE CONTRACTOR IS RESPONSIBLE FOR HAVING A SET OF "APPROVED" ENGINEERING PLANS WITH THE LATEST REVISION DATE ON THE JOB SITE PRIOR TO THE START OF CONSTRUCTION. ALL DEVIATIONS FROM THE PLANS ARE TO BE APPROVED IN WRITING BY THE ENGINEER PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL MAINTAIN ACCURATE RECORDS OF ALL CONSTRUCTION IN CONFORMANCE WITH ALL MUNICIPAL AND OWNER REQUIREMENTS FOR USE IN PREPARING AS-BUILT DRAWINGS.
- THE ENGINEER AND OWNER ARE NOT RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS OR TECHNIQUES, SEQUENCES OR PROCEDURES, TIME OF PERFORMANCE, PROGRAMS, OR FOR ANY SAFETY PRECAUTIONS USED BY THE CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE EXECUTION OF THEIR WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- ALL WORK PROPOSED HEREIN SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL AND NATIONAL CODES AND THE FOLLOWING STANDARDS AND SPECIFICATIONS:
 - ORDINANCES OF THE VILLAGE OF NEW HAVEN, MICHIGAN AS PREPARED BY THE VILLAGE OF NEW HAVEN.
 - "MDO STANDARD SPECIFICATIONS FOR CONSTRUCTION" AS PREPARED BY MICHIGAN DEPARTMENT OF TRANSPORTATION, LATEST EDITION
 - "MDO DRAINAGE MANUAL" AS PREPARED BY MDO, LATEST EDITION
 - SPECIFICATIONS AND ENVIRONMENTAL PROTECTION AGENCY.
 - THE NATIONAL ELECTRICAL CODE.
 - THE MICHIGAN ACCESSIBILITY CODE.
 - OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) - LAWS AND REGULATIONS.
 - MICHIGAN DEPARTMENT OF NATURAL RESOURCES
 - NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) REGULATIONS.
 - TESTING OF SOILS BEING EXPORTED FROM THE SITE AND APPROPRIATE DISPOSAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
 - ANY MATERIAL IMPORTED ONTO SITE SHALL BE CLEAN AND UNCONTAMINATED. PROOF OF MATERIAL QUALITY COMPLIANCE SHALL BE PRESENTED TO OWNER PRIOR TO IMPORT. OWNER SHALL HAVE THE RIGHT TO VERIFY RESULTS WITH THIRD PARTY TESTING PRIOR TO IMPORT.
- THE WORDS "NEW" "PROPOSED" "INSTALL" "PROVIDE" OR OTHER WORDS WITH A SIMILAR MEANING ON ANY PART OF THESE CONSTRUCTION DOCUMENTS SHALL BE INTERPRETED TO MEAN "FURNISHING AND INSTALL COMPLETE IN PLACE AND READY FOR SERVICE" UNLESS OTHERWISE NOTED IN WRITING BY THE ENGINEER.
- IT IS THE INTENT OF THESE PLANS TO BE IN ACCORDANCE WITH APPLICABLE CODES AND AGENCIES HAVING JURISDICTION OVER THE PROJECT AREA. ANY DISCREPANCIES BETWEEN THESE PLANS AND APPLICABLE CODES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
- CONTRACTOR SHALL COORDINATE ALL WORK WITH ENGINEER AND OWNER TO MINIMIZE IMPACTS TO THE OPERATION OF THE SITE. CONTRACTOR SHALL ACCOMMODATE SITE OPERATION REQUIREMENTS VIA WORK SCHEDULES AND TEMPORARY MOT MEASURES INCLUDING BUT NOT LIMITED TO SIGNAGE, FLAGGERS, AND ROAD PLATING TO COVER

- EXPOSED EXCAVATIONS. SUBSURFACE EXPLORATION INFORMATION PROVIDED IS FOR THE CONTRACTOR'S INFORMATION. THE ENGINEER DOES NOT MAKE ANY REPRESENTATION REGARDING EXISTING SUBSOIL CONDITIONS ACROSS THE PROJECT AREA.
- SHOP DRAWINGS:
 - PRIOR TO CONSTRUCTION COMMENCEMENT, THE CONTRACTOR SHALL PROVIDE THE ENGINEER A SHOP DRAWING LOG AND SUBMITTAL SCHEDULE FOR REVIEW. SHOP DRAWINGS SHALL BE PROVIDED IN APPLICABLE PACKAGES FOR THE COMPLETE INSTALLATION/CONSTRUCTION OF PROJECT COMPONENTS (POTABLE WATER, SEWER, PAVING, ETC.) OR PHASES (IF APPLICABLE).
 - PRIOR TO INSTALLATION, SHOP DRAWINGS SHALL BE SUBMITTED TO, REVIEWED BY, AND APPROVED BY THE ENGINEER AND REGULATORY AGENCIES (FOR PUBLIC DONATION PROJECT COMPONENTS).
 - PRIOR TO SUBMITTING SHOP DRAWINGS TO THE ENGINEER, THE CONTRACTOR SHALL REVIEW AND APPROVE THE DRAWINGS, AND SHALL NOTE IN RED ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS. ENGINEER WILL CONDUCT UP TO TWO (2) SHOP DRAWING REVIEWS PER PACKAGE; ADDITIONAL ENGINEER REVIEWS RESULTING FROM DISAPPROVED DRAWINGS SHALL BE AT AN ADDITIONAL COST TO THE CONTRACTOR.

- CONTRACTOR PRECONSTRUCTION RESPONSIBILITIES:
- UPON RECEIPT OF NOTICE OF AWARD AND AFTER OBTAINING A CONSTRUCTION PERMIT FROM THE VILLAGE OF NEW HAVEN, THE CONTRACTOR SHALL ARRANGE A PRECONSTRUCTION CONFERENCE TO INCLUDE THE OWNER AND ENGINEER.
 - CONTRACTOR SHALL SUBMIT A DETAILED PHASING AND MAINTENANCE TRAFFIC (MOT) PLAN FOR REVIEW AND APPROVAL BY ENGINEER AND OWNER PRIOR TO CONSTRUCTION COMMENCEMENT AND OBTAINING MOT PERMITS/APPROVALS FROM AGENCIES AS REQUIRED.
 - CONTRACTOR SHALL NOTIFY OWNER OF ALL PRIVATE ROADWAY INTERRUPTIONS/DISTURBANCES A MINIMUM OF 48 HOURS PRIOR TO WORK.
 - THE CONTRACTOR SHALL OBTAIN A MI MISS DIG 811 CERTIFICATION NUMBER FOR UTILITY LOCATE AND NOTIFY THE UTILITIES IDENTIFIED AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
 - PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY THE SIZE, LOCATION, ELEVATION, AND MATERIAL OF ALL EXISTING UTILITIES PROPOSED TO BE CROSSED OR MODIFIED BY THE WORK PROPOSED IN THE CONTRACT DOCUMENTS.

- UTILITIES:
- EXISTING UTILITY LOCATIONS ON THESE PLANS ARE APPROXIMATE BASED ON THE MOST RELIABLE DATA AVAILABLE TO THE ENGINEER. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF EXISTING UTILITIES SHOWN OR FOR ANY EXISTING UTILITIES NOT SHOWN OR REFERENCED TO IN THE CONTRACT DOCUMENTS.
 - THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES TO PROTECT EXISTING UTILITIES (ABOVE AND BELOW GRADE) WHETHER SHOWN OR NOT.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY EXISTING UTILITIES FOR WHICH FALLS TO REQUEST LOCATIONS FROM. THE CONTRACTOR IS ADDITIONALLY RESPONSIBLE FOR DAMAGE TO ANY UTILITIES WHICH ARE PROPERLY LOCATED.
 - IF UPON EXCAVATION AN EXISTING UTILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED WORK OR TO BE OF A SIZE OR MATERIAL DIFFERENT THAN WHAT IS SHOWN IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING.
 - THE CONTRACTOR SHALL NOTIFY THE UTILITY OWNER IN ADVANCE OF MARKING ANY CONNECTION TO AN ACTIVE PIPELINE OR UTILITY SYSTEM.
 - ALL EXISTING UTILITIES SHALL BE MAINTAINED IN SERVICE DURING THE CONSTRUCTION WORK UNLESS APPROVED OTHERWISE IN WRITING BY THE ENGINEER AND UTILITY OWNER.
 - PERFORM CONNECTIONS TO EXISTING UTILITIES IN SUCH A MANNER THAT NO DAMAGE AND MINIMAL INTERRUPTION IS CAUSED TO EXISTING INSTALLATION. ANY DAMAGE CAUSED TO EXISTING INSTALLATIONS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR.
 - COORDINATE CONNECTION OPERATIONS WITH THE OWNER, WHO SHALL BE NOTIFIED AT LEAST 7 DAYS IN ADVANCE OF ANY ACTIVITY WHICH MAY INTERFERE WITH THE EXISTING UTILITY SYSTEM.
 - CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF EXISTING SANITARY SEWER LINES AT THE PROPOSED TIE-IN LOCATION. CONTRACTOR SHALL NOTIFY THE OWNER AND THE ENGINEER OF ANY DEVIATIONS WITH THE EXISTING CONDITIONS PRIOR TO INSTALLING ANY SANITARY SEWER STRUCTURES OR PIPING.
 - CONTRACTOR TO PLACE A MINIMUM 3 FEET OF COVER OVER ALL PIPES DURING CONSTRUCTION TO PREVENT DAMAGE FROM CONSTRUCTION VEHICLES UNLESS OTHERWISE SPECIFIED IN THE PLANS.

- TEMPORARY FACILITIES:
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR OR SUPPLY TEMPORARY UTILITIES INCLUDING BUT NOT LIMITED TO TEMPORARY POTABLE WATER, SANITARY FACILITIES, AND ELECTRICITY TO ITS EMPLOYEES AND SUBCONTRACTORS FOR THEIR

- USE DURING CONSTRUCTION.
- MAINTENANCE OF TRAFFIC (MOT):
 - CONTRACTOR SHALL COORDINATE WITH OWNER, ENGINEER, AND APPLICABLE AGENCIES PRIOR TO ANY WORK REQUIRING MOT AND PREPARE ANY REQUIRED MOT PLANS AND OBTAIN PERMITTING APPROVAL AS REQUIRED BY THE AGENCIES HAVING JURISDICTION.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ADEQUATE SIGNS, TRAFFIC CONTROL DEVICES, AND WARNING DEVICES TO INFORM AND PROTECT THE PUBLIC DURING ALL PHASES OF CONSTRUCTION.
 - MOT IN THE PUBLIC RIGHT-OF-WAY AND SITE ACCESS ROADS/PARKING LOT SHALL BE IN ACCORDANCE WITH THE MUTCD AND THE AGENCIES HAVING JURISDICTION OVER THE PROJECT.
 - CONTRACTOR SHALL NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER ADJACENT OCCUPIED OR IN-USE FACILITIES WITHOUT PERMISSION FROM OWNER AGENCIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS AS REQUIRED BY GOVERNING REGULATIONS.
 - THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MOT AND SAFETY OF THE PROJECT SITE DURING CONSTRUCTION UNTIL FINAL COMPLETION AND ACCEPTANCE OF THE PROJECT BY THE OWNER.
 - CONTRACTOR SHALL NOTIFY LAW ENFORCEMENT AND FIRE PROTECTION SERVICES TWENTY-FOUR (24) HOURS IN ADVANCE OF DETOURS, AS APPLICABLE TO ACTUAL CONSTRUCTION ZONES. CONTRACTOR SHALL ENSURE FIRE PROTECTION SERVICES ACCESS TO CONSTRUCTION FACILITIES AND ADJACENT BUILDINGS AS NECESSARY AT ALL TIMES.

- SOIL EROSION CONTROL AND STORMWATER POLLUTION PROTECTION:
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION AND SEDIMENTATION CONTROL AS DETAILED IN THE SOIL EROSION AND SEDIMENTATION CONTROL (SECC) AND/OR STORMWATER POLLUTION PREVENTION (SWPP) PLAN TO PREVENT TRANSMISSION OF SEDIMENT TO THE DRAINAGE FACILITIES.
 - EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO, OR AS THE FIRST PART OF CONSTRUCTION. SEDIMENT CONTROL MEASURES MUST PROTECT ALL DRAINAGE FACILITIES FROM SEDIMENTATION.
 - EROSION AND SEDIMENT CONTROL MEASURES TO BE INSPECTED DAILY. REPAIRS TO BE MADE AS NECESSARY AND WITHIN 24 HOURS OF INSPECTION.
 - NO SEDIMENT FROM SITE CONSTRUCTION SHALL BE ALLOWED TO TRANSFER OUTSIDE PROPERTY.
 - EROSION CONTROL MEASURES SHALL BE INSTALLED AROUND ANY DIRT OR TOPSOIL STOCKPILES AND OTHER TEMPORARILY DISTURBED AREAS.
 - ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH ALL JURISDICTIONAL GOVERNMENTAL AGENCY REQUIREMENTS WITHIN THIRTY (30) DAYS OF FINAL STABILIZATION.
 - FILTER TRAPS AND SILT FENCES SHALL REMAIN IN PLACE UNTIL A GOOD STAND OF GRASS HAS BEEN OBTAINED. AFTER COMPLETE VEGETATION ESTABLISHMENT, ALL SILT WITHIN PIPES AND DRAINAGE SWALES SHALL BE REMOVED WITHIN 10 DAYS SO THAT FINISHED GRADES ARE MET.

- EARTHWORK:
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE UNSUITABLE MATERIAL PRESENT ON-SITE AND INCLUDE THE REMOVAL AND REPLACEMENT OF SAME IN THE BID PRICE.
 - THE CONTRACTOR'S BID FOR EARTHWORK SHALL INCLUDE THE EXCAVATION, REMOVAL AND DISPOSAL OF ALL MATERIALS, OF WHATEVER CHARACTER, WITHIN THE LIMITS OF CONSTRUCTION.
 - THE CONTRACTOR SHALL MAKE HIS OWN ESTIMATE ON THE VOLUME OF MATERIAL ACTUALLY REQUIRED TO OBTAIN THE CROSS SECTIONS OR GRADES AS SHOWN ON THE PLANS.
 - THE CONTRACTOR SHALL REMOVE ALL MUCK, YIELDING MATERIAL ROOTS, VEGETATION AND OTHER DEGRADABLE MATERIAL IN ITS ENTIRETY, WITHIN THE PAVEMENT UNITS AND BELOW ALL STRUCTURES AND UTILITIES TO FULL EXCAVATED TRENCH WIDTH. SAID MATERIAL SHALL BE REPLACED WITH CLEAN ORGANIC FREE MATERIAL WITH ROCKS SMALLER THAN ONE INCH IN DIAMETER COMPACTED TO NOT LESS THAN 98% MAXIMUM DENSITY AT OPTIMUM MOISTURE. AASHTO T-180 METHOD "D" WITH MAXIMUM LIFTS OF TWELVE INCHES COMPACTED THICKNESS.
 - ROCK EXCAVATION SHALL INCLUDE ANY ROCK ENCOUNTERED WHICH CANNOT BE REMOVED WITH A 3/4 YARD BACKHOE UNDER NORMAL OPERATING CONDITIONS. ROCK EXCAVATION SHALL BE INCIDENTAL TO CONSTRUCTION OF ALL PIPING SYSTEMS AND NO SEPARATE PAYMENT WILL BE MADE.
 - ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAYS OR WALKWAYS SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.
 - TRENCHES OR HOLES NEAR WALKWAYS OR IN ROADWAYS OR THEIR SHOULDERS ARE NOT TO BE LEFT OPEN OUTSIDE OF ACTIVE CONSTRUCTION ACTIVITIES IN THE SPECIFIC AREA. STEEL ROAD PLATING OF OPEN EXCAVATIONS MAY BE REQUIRED AS REQUESTED BY OWNER TO ENSURE OPERATION OF THE FACILITY DURING CONSTRUCTION.

- WHENEVER IT IS NECESSARY, IN THE INTEREST OF SAFETY, CONTRACTOR TO BRACE OR SHORE THE SIDES OF THE TRENCH, SUCH BRACING OR SHORING SHALL BE CONSIDERED TO BE PART OF THE BID PRICE OF UTILITY PIPE FOR WHICH EXCAVATION AND BACKFILL IS REQUIRED.
- THE CONTRACTOR SHALL FURNISH, PUT IN PLACE AND MAINTAIN SUCH SHEETING, BRACING, AS MAY BE REQUIRED TO SUPPORT THE SIDE OF THE EXCAVATION, AND TO PREVENT ANY MOVEMENT WHICH CAN IN ANY WAY DAMAGE THE WORK OR ENDANGER ADJACENT STRUCTURES.
- IF FIELD CONDITIONS, TYPE OF SHEETING OR CONSTRUCTION METHODS MAKE REMOVAL OF SHEETING IMPRACTICABLE, AT NO ADDITIONAL COST TO THE OWNER, THE CONTRACTOR MAY LEAVE ALL SHEETING IN PLACE. THE ENGINEER MAY REQUIRE SHEETING TO BE CUT OFF AT ANY SPECIFIED ELEVATION BUT IN NO CASE WILL ANY SHEETING BE LEFT CLOSER THAN TWO (2) FEET BELOW THE NATURAL SURFACE, NOR CUT OFF BELOW THE ELEVATION OF THE TOP OF THE PIPE.
- AFTER PIPES, STRUCTURES, AND OTHER APPURTENANCES HAVE BEEN INSTALLED, THE TRENCH OR OPENING SHALL BE BACKFILLED WITH MATERIAL IN CONFORMANCE WITH THE CONTRACT DOCUMENTS.
- IF THE BOTTOM OF THE TRENCH IS ROCK, THE EXCAVATION SHALL BE CARRIED EIGHT INCHES BELOW THE INVERT OF THE PIPE AND BACKFILLED WITH THOROUGHLY COMPACTED SAND, GRAVEL, OR OTHER SUITABLE MATERIAL APPROVED BY THE ENGINEER.
- IN AREAS WHERE NO PAVEMENT IS TO BE CONSTRUCTED, THE BACKFILL ABOVE THE TWELVE INCH LINE ABOVE THE PIPE SHALL BE COMPACTED TO A FIRMNESS APPROXIMATELY EQUAL TO THAT OF THE SOIL ADJACENT TO THE PIPE TRENCH.
- CONSTRUCTION SAFETY - ALL CONSTRUCTION SHALL PERFORMED IN A SAFE MANNER. SPECIFICALLY, THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SHALL BE STRICTLY OBSERVED.
- CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLIANCE WITH THE STATE OF MICHIGAN TRENCH SAFETY ACT.
- WATER SHALL NOT BE PERMITTED TO ACCUMULATE IN THE EXCAVATED AREA. IT SHALL BE REMOVED BY PUMPING OR OTHER MEANS AS APPROVED BY THE ENGINEER. THE REMOVAL OF WATER SHALL BE CONSIDERED TO BE A PART OF THE BID PRICE OF THE ITEM FOR WHICH EXCAVATION AND BACKFILL IS REQUIRED. CONTRACTOR TO OBTAIN DOWATERING 1 PERMITS FROM APPLICABLE JURISDICTIONAL AGENCIES IF REQUIRED.
- INSITU SOILS SHALL NOT BE REUSED ONSITE FOR BACKFILL.

- DEMOLITION:
- REMOVAL, DEMOLITION, HAULING, AND DISPOSAL SHALL COMPLY WITH REGULATIONS BY THE STATE D.E.P., E.P.A., AND ANY OTHER AUTHORITY HAVING JURISDICTION.
 - CONTRACTOR SHALL DRAIN, PURGE, OR OTHERWISE REMOVE, COLLECT, AND DISPOSE OF CHEMICALS, GASES, EXPLOSIVES, ACIDS, FLAMMABLES, OR OTHER DANGEROUS MATERIALS BEFORE PROCEEDING WITH DEMOLITION OPERATIONS.
 - CONTRACTOR SHALL CONDUCT DEMOLITION OPERATIONS AND REMOVE DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED AND USED FACILITIES.
 - ALL EXCAVATED MATERIAL REMOVED FROM THIS PROJECT SHALL BE DISPOSED OF PROPERLY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
 - FOR SELECTIVE DEMOLITION, CONTRACTOR SHALL USE CUTTING METHODS LEAST LIKELY TO DAMAGE CONSTRUCTION TO REMAIN OR ADJOINING CONSTRUCTION, TO MINIMIZE DISTURBANCE OF ADJACENT SURFACES, USE HAND OR SMALL POWER TOOLS DESIGNED FOR SAWING OR GRINDING, NOT HAMMERING OR CHOPPING. TEMPORARILY COVER OPENINGS TO REMAIN.
 - CONTRACTOR SHALL DEMOLISH CONCRETE IN SMALL SECTIONS; CUT CONCRETE AT JUNCTURES WITH CONSTRUCTION TO REMAIN, USING POWER-DRIVEN MASONRY SAW OR HAND TOOLS; DO NOT USE POWER-DRIVEN IMPACT TOOLS.
 - TEMPORARY PATCH MATERIAL MUST BE ON THE PROJECT SITE WHENEVER PAVEMENT IS CUT, OR THE ENGINEER MAY SHUT THE JOB DOWN.
 - CONTRACTOR SHALL CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS AND FACILITIES TO REMAIN. ENSURE SAFE PASSAGE OF PEOPLE AROUND DEMOLITION AREA.
 - ALL TREES TO REMAIN SHALL BE IDENTIFIED PRIOR TO CONSTRUCTION AND SHALL BE PROTECTED (INCLUSIVE OF TRUNKS, BRANCHES, AND ROOTS) PER LOCAL AHJ STANDARDS.
 - CONTRACTOR SHALL ERECT TEMPORARY PROTECTION, SUCH AS WALKS, FENCES, BARRIERS, RAILINGS, ETC. WHERE REQUIRED BY AUTHORITIES HAVING JURISDICTION.
 - CONTRACTOR SHALL PROTECT EXISTING SITE IMPROVEMENTS, APPURTENANCES, AND LANDSCAPING TO REMAIN.
 - ADJACENT IMPROVEMENTS SHALL BE CLEANED OF DUST, DIRT, AND DEBRIS CAUSED BY DEMOLITION OPERATIONS. ADJACENT AREAS SHALL BE REQUIRED TO BE RETURNED TO CONDITION EXISTING BEFORE START OF DEMOLITION AT NO ADDITIONAL COSTS.
 - ALL EXISTING STREET LIGHTING WILL REMAIN IN PLACE AND REMAIN IN SERVICE DURING CONSTRUCTION OPERATIONS. CONTRACTOR SHALL USE CARE TO ENSURE EXISTING

- CONDUIT, PULLBOXES, AND CONTROL ARE NOT DAMAGED DURING DEMOLITION OPERATIONS.
- GRADING:
- PROVIDE SMOOTH VERTICAL CURVES THROUGH HIGH AND LOW POINTS INDICATED BY SPOT ELEVATIONS. PROVIDE UNIFORM SLOPES BETWEEN NEW AND EXISTING GRADES. AVOID RIDGES AND DEPRESSIONS IN PAVED AREAS.
 - ALL EXISTING UTILITY MH COVERS, ELECTRICAL BOXES, METER BOXES, METERS, DRAINAGE STRUCTURES, ETC. WITHIN PROPOSED AREAS OF IMPROVEMENTS SHALL BE ADJUSTED TO MATCH FINISHED PAVED GRADE ELEVATION, UNLESS OTHERWISE NOTED.
 - PROPOSED ELEVATIONS INDICATE FINISHED CONDITIONS. FOR ROUGH GRADING ELEVATIONS ALLOW FOR THICKNESS OF PROPOSED PAVING (ROADS, WALKS, DRIVES, ETC.) OR TOPSOIL AS INDICATED ON DRAWINGS.
 - ALL PROPOSED SPOT GRADES MARKED AS "ME" SHALL MATCH EXISTING ELEVATIONS.
 - CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE IN ROADWAYS, ALONG CURB FLOW LINES, AWAY FROM BUILDINGS AND STRUCTURES, AND TOWARD STORM WATER MANAGEMENT SYSTEM. CONTRACTOR SHALL VERIFY FEASIBILITY OF POSITIVE DRAINAGE PRIOR TO FORMING OR INSTALLATION WORK AND IMMEDIATELY NOTIFY OWNER'S CONSTRUCTION REPRESENTATIVE OF ANY DISCREPANCIES.
 - MATCH EXISTING ELEVATIONS WHERE NEW CONSTRUCTION MEETS EXISTING. ENSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS AND STRUCTURES TOWARDS STORM WATER MANAGEMENT SYSTEMS. IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO PAVEMENT, GRAVEL, OR TOPSOIL INSTALLATION.
 - WHEN AN EXISTING DRAINAGE ROUTE, EITHER A STORM SEWER OR WATERWAY, IS INTERRUPTED DUE TO CONSTRUCTION, THE DRAINAGE ROUTE SHALL BE RE-ESTABLISHED TO ORIGINAL CONDITIONS BY THE END OF THE SAME WORK DAY. POSITIVE DRAINAGE MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
 - THE CONTRACTOR SHALL EXERCISE CAUTION WHEN GRADING NEAR TREE ROOTS TO AVOID DAMAGE FROM UNPLANNED ROOT PRUNING OR PLACEMENT OF EXCESSIVE FILL OVER ROOTS.
 - ALL GRASS AREAS AFFECTED BY CONSTRUCTION SHALL BE RE-SODDED AND MATCH EXISTING ADJACENT GRADE UNLESS OTHERWISE SPECIFIED.
- PAVING:
- ALL UNDERGROUND UTILITIES SHALL BE COMPLETED PRIOR TO THE CONSTRUCTION OF THE PAVEMENT BASE IN THE AREA OF WORK.
 - CONTRACTOR SHALL PREPARE PAVEMENT AREAS IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT PRIOR TO INSTALLATION OF STABILIZED SUB-GRADE FILL.
 - STABILIZED SUB-GRADE FILL SHALL BE INSTALLED TO THE THICKNESS AND COMPACTION SHOWN IN THE CONTRACT DOCUMENTS. SUB-GRADE FILL MATERIAL SHALL BE PLACED IN MAXIMUM 6" LIFTS. SUB-GRADE FILL MATERIAL GREATER THAN 6" SHALL BE PLACED IN TWO OR MORE EQUAL LIFTS.
 - ROADWAY BASE MATERIAL SHALL BE INSTALLED TO THE THICKNESS AND COMPACTION SHOWN IN THE CONTRACT DOCUMENTS. ROADWAY BASE MATERIAL SHALL BE PLACED IN MAXIMUM 6" LIFTS. BASES GREATER THAN 6" SHALL BE PLACED IN TWO OR MORE EQUAL LIFTS.
 - TESTING OF ALL SUB-GRADE, BASE, AND ASPHALTIC CONCRETE OR PORTLAND CEMENT CONCRETE PAVEMENT SHALL BE TAKEN PER THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER/TESTING AGENCY (TO BE ENGAGED BY CONTRACTOR). IN THE ABSENCE OF ANYTHING STATING OTHERWISE, COMPACTION TESTS ARE TO BE PERFORMED ON EVERY 6" LIFT OF AGGREGATE BACKFILL AND ON EVERY LIFT OF NEW ASPHALT PAVEMENT. CONTRACTOR TO SUBMIT TESTING SCHEDULE TO OWNER/ENGINEER A MINIMUM OF 1 WEEK IN ADVANCE OF SUB-GRADE PROOF ROLL TEST.
 - ASPHALTIC CONCRETE PAVEMENT:
 - ASPHALTIC CONCRETE PAVEMENT THICKNESS AND COMPACTION SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
 - PRIME AND TACK COATS SHALL BE PLACED IN ACCORDANCE WITH MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.
 - ALL ASPHALTIC CONCRETE SHALL HAVE A MAXIMUM OF 20% (BY WEIGHT) OF RECYCLED ASPHALT PRODUCTS (RAP).
 - PORTLAND CEMENT CONCRETE PAVEMENT:
 - CONTRACTOR SHALL PREPARE PAVEMENT AREAS IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT AND ACI-330 PRIOR TO INSTALLATION OF STABILIZED SUBGRADE FILL.
 - ALL CONCRETE USED SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AND THICKNESS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
 - LAY OUT CONTROL JOINTS BY STARTING WITH ANY DRAINAGE INLETS OR STRUCTURES WITHIN THE PAVEMENT SECTION AND WORK TOWARD EDGE OF PAVEMENT.
 - KEEP ALL JOINTS CONTINUOUS UNLESS TERMINATED BY AN ISOLATION JOINT.
 - CONTROL JOINTS SHALL BE FORMED OR SAWED WITHIN 4 TO 12 HOURS FROM TIME OF PLACEMENT; MAXIMUM SPACING (IN FEET) SHALL BE TWO TIMES THICKNESS (IN INCHES).
 - KEEP JOINTS SQUARE. AVOID RECTANGULAR AND IRREGULARLY SHAPED PANELS. DO NOT EXCEED 1.25 LENGTH

- TO WIDTH RATIO. AVOID ACUTE JOINT ANGLES.
- ALL CONTRACTION AND ISOLATION JOINTS THAT ARE EXPECTED TO INCUR VEHICULAR TRAFFIC LOADING SHALL HAVE THICKENED EDGES.
 - CURE CONCRETE IMMEDIATELY AFTER FINISHING OPERATION IS COMPLETED BY USING ONE OF THE FOLLOWING METHODS: PONDED WATER, PIGMENTED WATER-BASED CURING COMPOUND, SATURATED BURLAP.
 - ALL ISOLATION TYPE JOINTS SHALL USE A SONNEBORN/SONNOLASTIC EXPANSION JOINT FILLER AND SEALANT OR EQUIVALENT. PREFORMED NEOPRENE RUBBER COMPRESSION SEALS MAY ALSO BE USED.
 - CONTRACTOR SHALL SUBMIT CONCRETE JOINTING PLAN TO ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
 - VEHICULAR TRAFFIC SHALL NOT BE ALLOWED ON CONCRETE PAVEMENTS UNTIL A MINIMUM TESTED COMPRESSIVE STRENGTH OF 3000 PSI HAS BEEN ACHIEVED UNLESS OWNER REQUIREMENTS DIFFER.
- PROJECT CLOSEOUT:
- CLEANING UP:
 - DURING CONSTRUCTION, THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER. UPON FINAL CLEAN UP, THE PROJECT SITE SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL OR TRASH. THE PAVED AREAS SHALL BE SWEEP BROOM CLEAN.
 - THE CONTRACTOR SHALL RESTORE OR REPLACE, WHEN AND AS DIRECTED BY ENGINEER, ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY ITS WORK, EQUIPMENT, EMPLOYEES, OR THOSE OF ITS SUBCONTRACTORS TO A CONDITION AT LEAST EQUAL TO OR BETTER THAN THE EXISTING CONDITION IMMEDIATELY PRIOR TO CONSTRUCTION. TO THIS END, THE CONTRACTOR SHALL DO ALL NECESSARY SITE WORK IN A NEAT AND CAREFUL MANNER WHEN TING INTO EXISTING/ADJACENT AREAS. SUITABLE MATERIALS AND METHODS SHALL BE USED FOR ALL RESTORATION ACTIVITIES.
 - WHERE MATERIAL OR DEBRIS HAS WASHED OR FLOWED INTO OR BEEN PLACED IN WATER COURSES, DITCHES, DRAINS, CATCH BASINS, OR ELSEWHERE AS A RESULT OF THE CONTRACTOR OPERATIONS, SUCH MATERIAL OR DEBRIS SHALL BE REMOVED AND SATISFACTORILY DISPOSED OF DURING PROGRESS OF THE WORK, AND THE AREA KEPT IN A CLEAN AND NEAT CONDITION.
 - CONTRACTOR SHALL MAINTAIN ACCURATE AND COMPLETE RECORDS OF THE WORK PERFORMED.
 - ALL REQUIRED DENSITY AND MATERIAL TEST RESULTS FOR SUB-GRADE AND BASE MATERIAL SHALL BE PROVIDED TO THE ENGINEER BEFORE PLACEMENT OF THE NEXT LAYER OF STABILIZATION/PAVEMENT.
 - ALL "AS-BUILT" INFORMATION SUBMITTED TO THE ENGINEER SHALL BE SUFFICIENTLY ACCURATE, CLEAR, AND LEGIBLE TO SATISFY THE ENGINEER THAT THE INFORMATION PROVIDES A TRUE REPRESENTATION OF THE IMPROVEMENTS ACTUALLY CONSTRUCTED.
 - UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER COMPLETE SETS OF "AS-BUILT" CONSTRUCTION DRAWINGS AS REQUIRED FOR SUBMITTAL AND APPROVAL. THESE DRAWINGS SHALL BE MARKED TO SHOW "AS-BUILT" CONSTRUCTION CHANGES AND DIMENSIONED LOCATIONS AND ELEVATIONS OF ALL IMPROVEMENTS. FINAL AS-BUILTS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL SURVEYOR AND MAPPER IN THE STATE OF THE PROJECT AREA.
 - ALL AS-BUILT INFORMATION ON ELEVATIONS OF WATER, SEWER, DRAINAGE, AND PAVING SHALL BE CERTIFIED BY A PROFESSIONAL SURVEYOR AND MAPPER IN THE STATE OF THE PROJECT AREA.
 - AS-BUILT INFORMATION SHALL DUPLICATE OR IMPROVE UPON THE LEVEL OF DETAIL SHOWN IN THE PLANS.

- STORMWATER DRAINAGE:
- CONTRACTOR SHALL INSPECT AND CLEAN ALL EXISTING STRUCTURES AND PIPES WITHIN THE PROJECT LIMITS. IF EXISTING STRUCTURES AND PIPES ARE DAMAGED, CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONNECTION WITH THE NEW PIPE OR STRUCTURE. CONTRACTOR TO ENSURE ALL STORM WATER PIPING AND STRUCTURES ARE CLEANED PRIOR TO PROJECT CLOSEOUT.
 - PROTECT COMPLETED DRAINAGE STRUCTURES FROM CONTAMINATION BY SILT AND CONSTRUCTION DEBRIS. PLACE FILTER FABRIC BETWEEN THE FRAME AND INLET GRATE UNTIL SITE CONSTRUCTION OPERATIONS ARE FINISHED.

EXISTING LEGEND

- -- -- -- -- PROPERTY BOUNDARY
- EASEMENT
- ROAD CENTERLINE
- -- -- -- -- EX. CM EXISTING UNDERGROUND COMMUNICATIONS
- -- -- -- -- EX. GAS EXISTING GAS LINE
- -- -- -- -- EX. WM EXISTING WATER MAIN
- -- -- -- -- EX. W EXISTING WATER SERVICE
- -- -- -- -- EX. SS EXISTING SANITARY SYSTEM
- -- -- -- -- EX. DR EXISTING DRAINAGE
- -- -- -- -- EX. OE EXISTING OVERHEAD UTILITY LINE
- -- -- -- -- EX. BE EXISTING BURIED ELECTRIC LINE
- -- -- -- -- EXISTING UNKNOWN UNDERGROUND UTILITY
- -- -- -- -- EXISTING FENCE
- -- -- -- -- EXISTING GRAVEL
- -- -- -- -- EXISTING CONCRETE
- -- -- -- -- EXISTING ASPHALT
- -- -- -- -- WATER MANHOLE
- -- -- -- -- SANITARY SEWER MANHOLE
- -- -- -- -- CLEANOUT
- -- -- -- -- DOWNSPOUT
- -- -- -- -- INLET
- -- -- -- -- GAS METER
- -- -- -- -- AIR CONDITIONING UNIT
- -- -- -- -- UTILITY POLE
- -- -- -- -- GUY ANCHOR
- -- -- -- -- POST
- -- -- -- -- DETECTABLE WARNING PLATE
- -- -- -- -- MISCELLANEOUS STRUCTURE
- -- -- -- -- CONTOUR ELEVATION
- -- -- -- -- CONIFEROUS TREE
- -- -- -- -- BUSH
- -- -- -- -- DECIDUOUS TREE

PROJECT NAME:

NEW HAVEN CDO - GENERATOR DESIGN

DET-24002045-A4

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MICHIGAN US
2001272 M18255

NWNHMMN

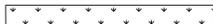
SHEET TITLE: GENERAL NOTES CIVIL

AT&T PROJECT NUMBER: 2001269	DATE: 5/15/25	SCALE: AS SHOWN
AT&T AUTHORIZATION:	DRAWN BY: REE	CHECKED BY: NSK
AT&T PM: AIMEE BUTLER	SHEET: 1 OF: 4 SHEETS	SHEET NO.
	AT&T DRAWING NO.: 2001269C10000	C10000

KEY NOTES - DEMOLITION

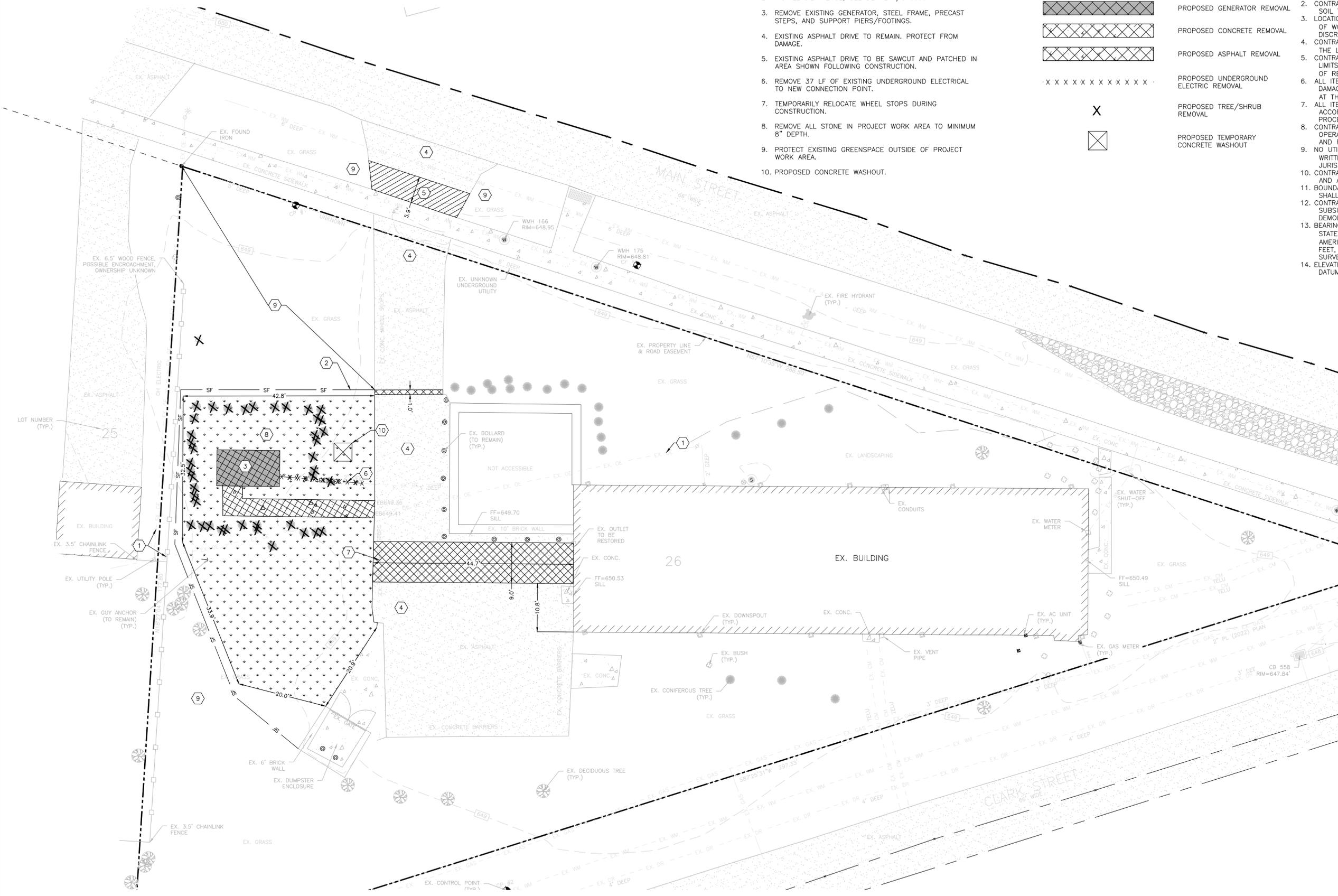
- EXISTING OVERHEAD ELECTRICAL LINES TO BE PROTECTED.
- INSTALL SILT FENCE, SEE DETAIL 1/C40000.
- REMOVE EXISTING GENERATOR, STEEL FRAME, PRECAST STEPS, AND SUPPORT PIERS/FOOTINGS.
- EXISTING ASPHALT DRIVE TO REMAIN. PROTECT FROM DAMAGE.
- EXISTING ASPHALT DRIVE TO BE SAWCUT AND PATCHED IN AREA SHOWN FOLLOWING CONSTRUCTION.
- REMOVE 37 LF OF EXISTING UNDERGROUND ELECTRICAL TO NEW CONNECTION POINT.
- TEMPORARILY RELOCATE WHEEL STOPS DURING CONSTRUCTION.
- REMOVE ALL STONE IN PROJECT WORK AREA TO MINIMUM 8" DEPTH.
- PROTECT EXISTING GREENSPACE OUTSIDE OF PROJECT WORK AREA.
- PROPOSED CONCRETE WASHOUT.

EXISTING LEGEND

-  PROPOSED CLEARING/GRUBBING
-  PROPOSED GENERATOR REMOVAL
-  PROPOSED CONCRETE REMOVAL
-  PROPOSED ASPHALT REMOVAL
-  PROPOSED UNDERGROUND ELECTRIC REMOVAL
-  PROPOSED TREE/SHRUB REMOVAL
-  PROPOSED TEMPORARY CONCRETE WASHOUT

GENERAL NOTES

- CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THE PROPER BRACING, SHORING AND OTHER REQUIRED PROTECTION OF ALL ROADWAYS AND EXCAVATIONS BEFORE CONSTRUCTION BEGINS.
- CONTRACTOR SHALL REPAIR AND REPLANT ANY EXISTING GRASS OR SOIL THAT IS DISTURBED BY CONSTRUCTION ACTIVITY.
- LOCATIONS OF ALL UTILITY LINES TO BE FIELD VERIFIED WITHIN AREA OF WORK. CONTRACTOR TO NOTIFY OWNER/ENGINEER OF ANY DISCREPANCIES.
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- BOUNDARIES OF ASPHALT, CONCRETE AND CURBING DEMOLITION SHALL BE SAW CUT IN A STRAIGHT LINE.
- CONTRACTOR SHALL COORDINATE & SEQUENCE THE DEMOLITION OF SUBSURFACE UTILITIES AND INFRASTRUCTURE WITH ABOVE GROUND DEMOLITION TO ENSURE NO ADVERSE IMPACTS TO CONSTRUCTION.
- BEARINGS DESCRIBED HEREON ARE REFERENCED TO THE MICHIGAN STATE PLANE COORDINATE SYSTEM (SOUTH ZONE) AND THE NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT), INTERNATIONAL FEET, GEOID18, AS ESTABLISHED BY THE SURVEY FROM MUXLOW SURVEYING.
- ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.



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SHEET TITLE:
EX. CONDITIONS AND DEMO PLAN CIVIL

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AT&T AUTHORIZATION:	DRAWN BY: REE	CHECKED BY: NSK
AT&T PM: AIMEE BUTLER	SHEET: 2 OF: 4 SHEETS	SHEET NO.
AT&T DRAWING NO.: 2001269C10101D	C10101D	

1 EXISTING CONDITIONS AND DEMOLITION PLAN
SCALE: 1" = 10'

north

PROPOSED WORK LEGEND

-  PROPOSED ASPHALT
-  PROPOSED CONCRETE GENERATOR/UTILITY PAD
-  PROPOSED ASPHALT RESTORATION
-  PROPOSED CONCRETE SIDEWALK
-  PROPOSED GREENSPACE RESTORATION (MATCH EXISTING)
-  PROPOSED NEW UNDERGROUND ELECTRICAL CONNECTION
-  PROPOSED TEMPORARY CONTRACTOR STAGING AREA
-  PROPOSED FLOW ARROW

ABBREVIATIONS:

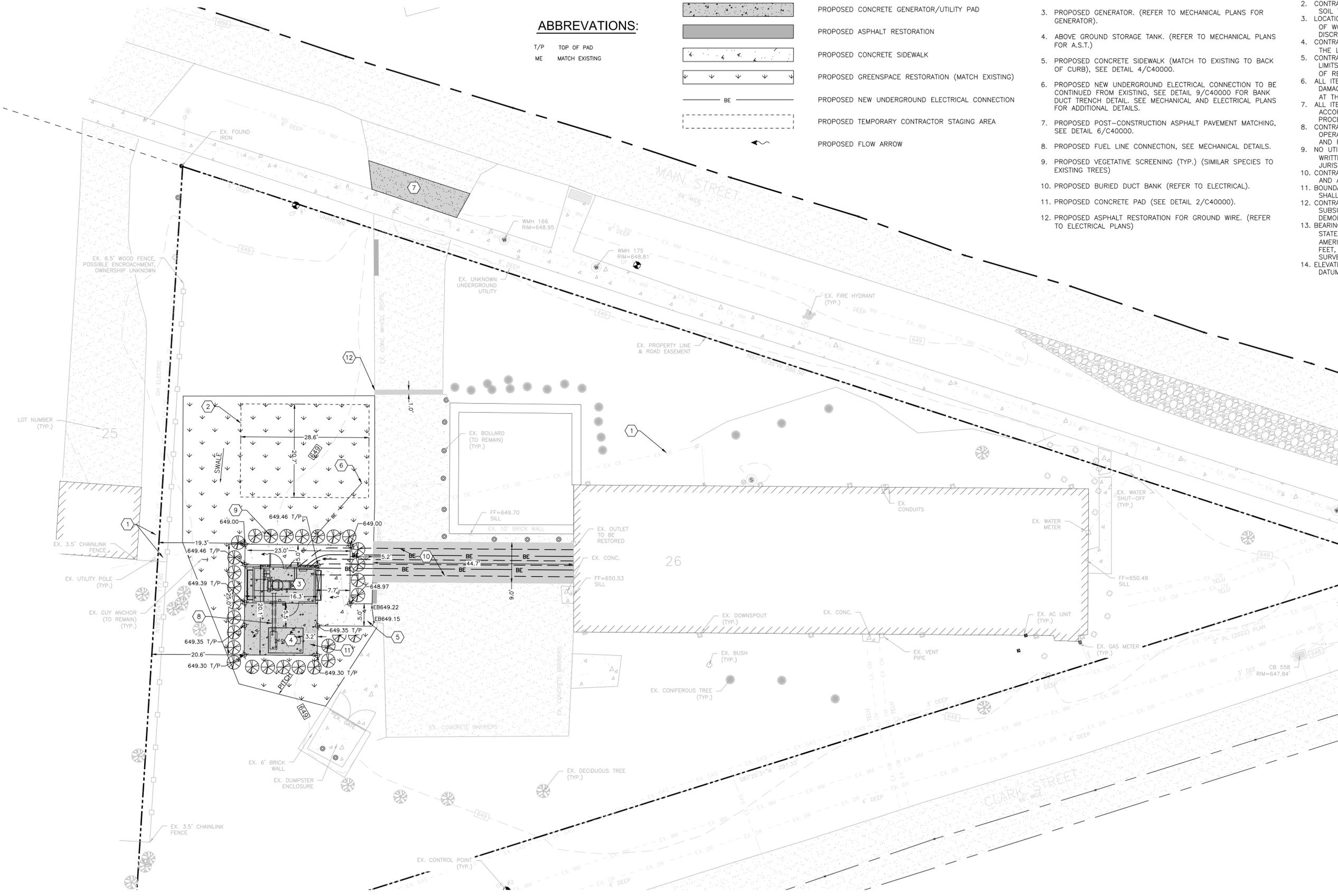
- T/P TOP OF PAD
- ME MATCH EXISTING

KEY NOTES - NEW WORK

1. EXISTING OVERHEAD ELECTRICAL LINES TO BE PROTECTED.
2. CONTRACTOR STAGING AREA.
3. PROPOSED GENERATOR. (REFER TO MECHANICAL PLANS FOR GENERATOR).
4. ABOVE GROUND STORAGE TANK. (REFER TO MECHANICAL PLANS FOR A.S.T.)
5. PROPOSED CONCRETE SIDEWALK (MATCH TO EXISTING TO BACK OF CURB), SEE DETAIL 4/C40000.
6. PROPOSED NEW UNDERGROUND ELECTRICAL CONNECTION TO BE CONTINUED FROM EXISTING. SEE DETAIL 9/C40000 FOR BANK DUCT TRENCH DETAIL. SEE MECHANICAL AND ELECTRICAL PLANS FOR ADDITIONAL DETAILS.
7. PROPOSED POST-CONSTRUCTION ASPHALT PAVEMENT MATCHING. SEE DETAIL 6/C40000.
8. PROPOSED FUEL LINE CONNECTION, SEE MECHANICAL DETAILS.
9. PROPOSED VEGETATIVE SCREENING (TYP.) (SIMILAR SPECIES TO EXISTING TREES)
10. PROPOSED BURIED DUCT BANK (REFER TO ELECTRICAL).
11. PROPOSED CONCRETE PAD (SEE DETAIL 2/C40000).
12. PROPOSED ASPHALT RESTORATION FOR GROUND WIRE. (REFER TO ELECTRICAL PLANS)

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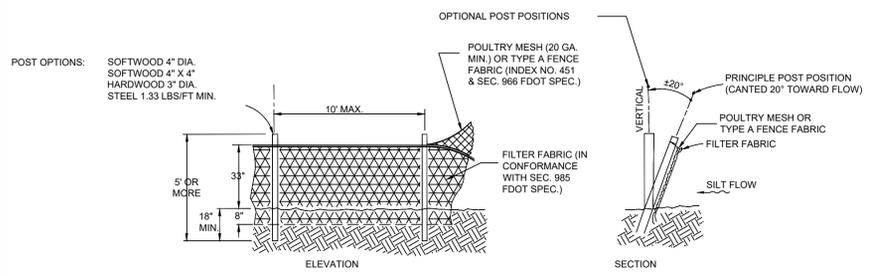
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1 NEW WORK PLAN
SCALE: 1" = 10'

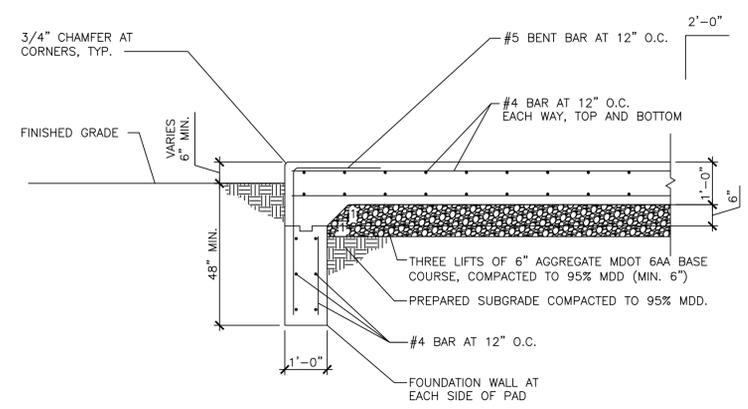
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SHEET TITLE:
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AT&T PROJECT NUMBER: 2001269	DATE: 5/15/2025	SCALE: AS SHOWN
AT&T AUTHORIZATION:	DRAWN BY: REE	CHECKED BY: NSK
AT&T PM: AIMEE BUTLER	SHEET: 3 OF 4 SHEETS	SHEET NO.
	AT&T DRAWING NO.: 2001269C20000	C20000

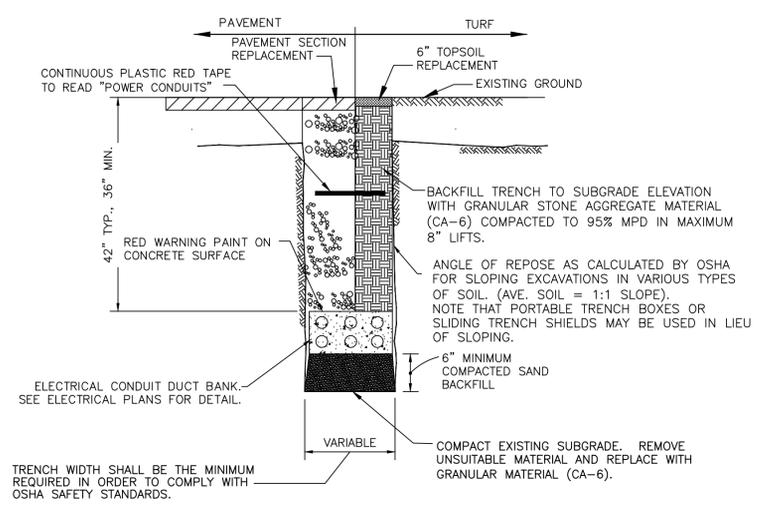


1 SILT FENCE
N.T.S.

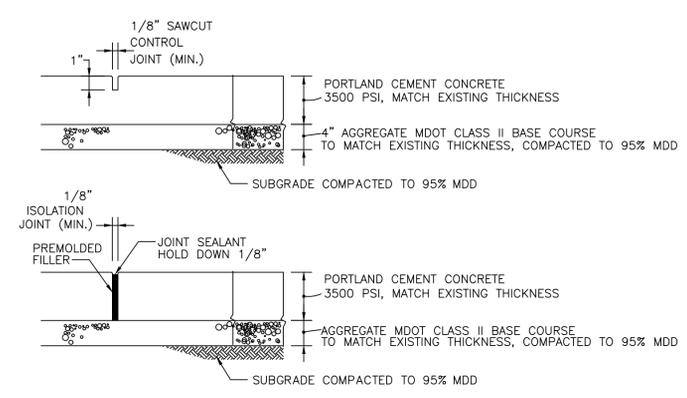


2 GENERATOR PAD DETAIL
1/2" = 1'-0"

- NOTES:
- COORDINATE OVERALL PAD DIMENSIONS WITH FINAL APPROVED GENERATOR SUBMITTAL PRIOR TO CONSTRUCTION. PROVIDE MINIMUM 6" FROM EACH EDGE OF PAD TO NEAREST FACE OF FUEL TANK OR ACCESS PLATFORM BEARING ON THE PAD.
 - REFER TO CIVIL SITE PLANS FOR PAD LOCATION, ORIENTATION, AND ELEVATION.
 - ANCHOR GENERATOR TO CONCRETE PAD IN ACCORDANCE WITH EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 5,000 PSI.
 - REINFORCING STEEL SHALL BE ASTM A615, GRADE 60.



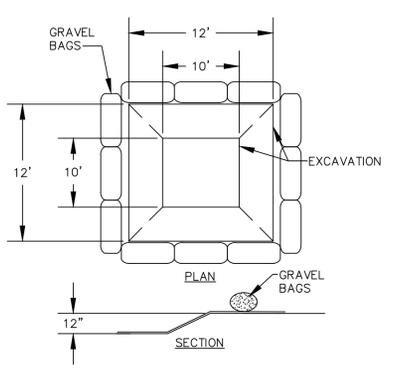
3 DUCT BANK TRENCH
N.T.S.



SIDEWALK NOTES:

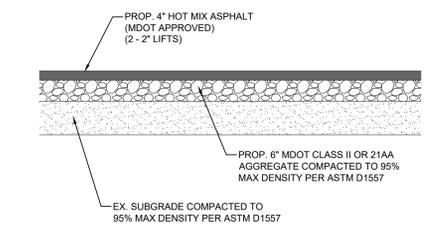
- WIDTH PER PLAN.
- MAXIMUM TRAVEL SLOPE SHALL NOT EXCEED 5% (20:1).
- MAXIMUM CROSS SLOPE & AT LANDINGS SHALL BE 2% (50:1).
- AGGREGATE BASE COURSE SHALL BE MECHANICALLY COMPACTED.
- SIDEWALK SHALL BE PROMPTLY BACKFILLED AND PROTECTED FROM DAMAGE.
- SIDEWALK SHALL HAVE A BROOM FINISH.
- UNLESS OTHERWISE NOTED, CONTROL JOINTS TO BE 5' O.C.
- UNLESS OTHERWISE NOTED, ISOLATION JOINTS TO BE 50' O.C., ABUTTING CURB, OTHER WALKS OR STRUCTURES, AND CHANGES OF DIRECTION.

4 CONCRETE SIDEWALK
N.T.S.

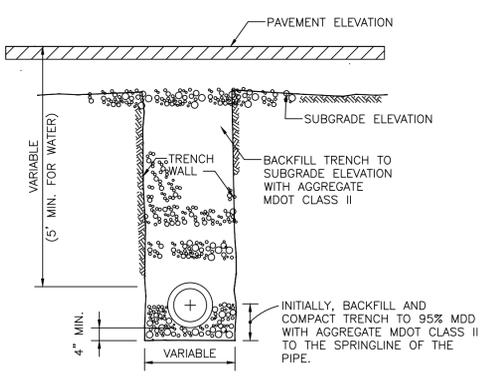


- GENERAL NOTES:**
- SECURE POLYETHYLENE LINING WITH UV-STABILIZED GEOTEXTILE FABRIC SANDBAGS.
 - POLYETHYLENE LINING SHALL BE 10MM MIN. AND FREE OF HOLES, TEARS, OR OTHER DEFECTS. THE SHEET SHALL BE APPROPRIATELY SIZED TO FIT THE ENTIRE WASHOUT SYSTEM WITHOUT SEAMS OR OVERLAPS. REPLACE LINER AS NECESSARY.
 - EXCAVATION SHALL BE A 8'x8' MIN. AND SIZED TO CONTAIN ALL LIQUID AND WASTE EXPECTED TO BE GENERATED.

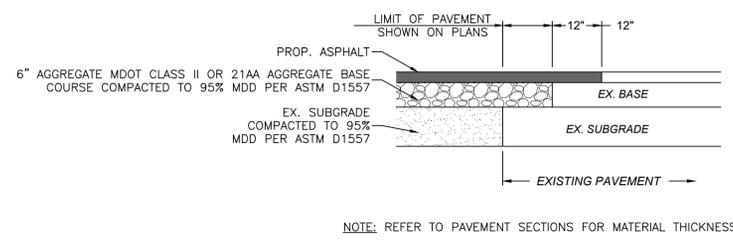
5 CONCRETE WASHOUT
N.T.S.



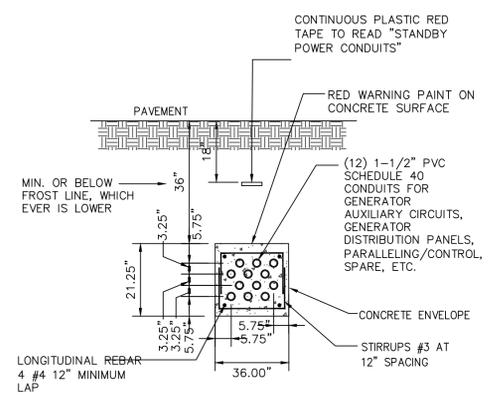
7 ASPHALT PAVEMENT SECTION
N.T.S.



9 PIPE TRENCH DETAIL
N.T.S.



6 ASPHALT PAVEMENT MATCHING
N.T.S.



10 GENERATOR CONTROLS DUCT BANK
NOT TO SCALE

PROJECT NAME:
NEW HAVEN CDO - GENERATOR DESIGN

DET-24002045-A4

CONSULTANT STAMP

exp U.S. Services Inc.
1-248.351.8200 | F-1.248.351.8250
27777 Franklin Road
Suite 1510
Southfield, MI 48034
U.S.A.
www.exp.com

NICHOLAS SINCLAIR
REGISTERED PROFESSIONAL ENGINEER
License No. 6201313316
3/15/15

REVISIONS / AUTHORIZATIONS

NO.	REVISIONS / AUTHORIZATIONS	DATE	BY
	PERMIT AND CONSTRUCTION	05/15/25	
	FINAL REVIEW #2	04/18/25	
	FINAL REVIEW	03/18/25	
	50% REVIEW	12/17/24	

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DRAWINGS PREPARED FOR
AT&T CORPORATE REAL ESTATE

PROJECT DRAWING
01
59041 MAIN ST
NEW HAVEN
MICHIGAN US
NWHNMIMM 2001272 M18255

SHEET TITLE:
DETAILS CIVIL

AT&T PROJECT NUMBER:
2001269

DATE: 5/15/25

SCALE: AS SHOWN

DRAWN BY: REE

CHECKED BY: NSK

SHEET: 4 OF 4 SHEETS

AT&T AUTHORIZATION:
AT&T PM: AIMEE BUTLER

AT&T DRAWING NO.:
2001269C40000

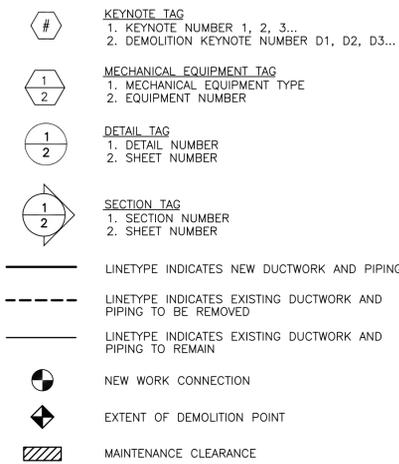
C40000

MECHANICAL ABBREVIATIONS

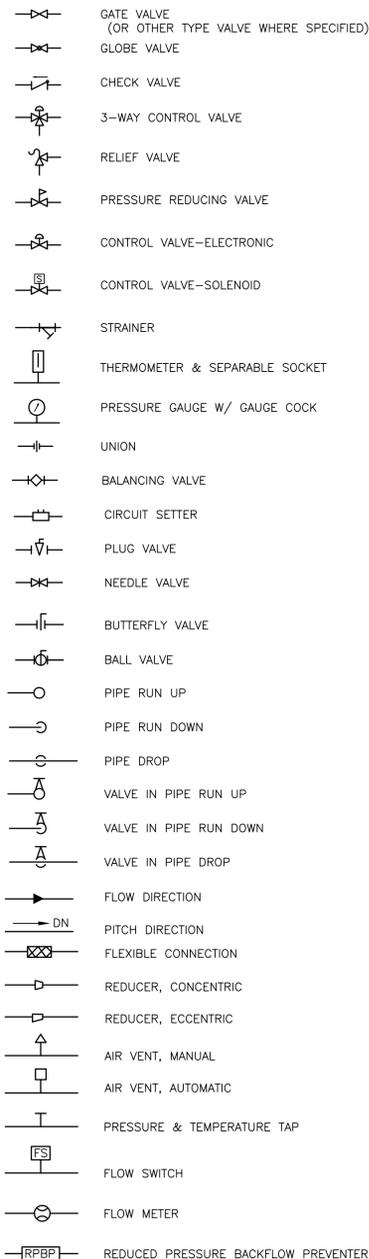
Table of mechanical abbreviations including ACC (AIR-COOLED CONDENSER), ACWC (AIR-COOLED CONDENSING UNIT), AFF (ABOVE FINISHED FLOOR), AHU (AIR HANDLING UNIT), APD (AIR PRESSURE DROP), AS (AIR SEPARATOR), AUTO (AUTOMATIC), BDD (BACK DRAFT DAMPER), BOD (BOTTOM OF DUCT), BOP (BOTTOM OF PIPE), BTU (BRITISH THERMAL UNITS), BTUH (BRITISH THERMAL UNITS PER HOUR), CAP (CAPACITY), CFM (CUBIC FEET PER MINUTE), CH (CHILLER), CHWP (CHILLED WATER PUMP), CHWS (CHILLED WATER SUPPLY), CHWR (CHILLED WATER RETURN), CO (CLEAN OUT), COL (COLUMN), CRAC (COMPUTER ROOM AIR CONDITIONER), CS (CIRCUIT SETTER), CT (COOLING TOWER), CTG (CEILING TRANSFER GRILLE), CUH (CABINET UNIT HEATER), CV (CONSTANT VOLUME), CW (COLD WATER), CWP (CONDENSER WATER PUMP), CWR (CONDENSER WATER RETURN), CWS (CONDENSER WATER SUPPLY), DB (DRY BULB), DC (DRY COOLER), DD (DUCT DETECTOR), DIA (DIAMETER), DISC (DISCONNECT), DX (DIRECT EXPANSION), EA (EACH), EAT (ENTER AIR TEMPERATURE), EF (EXHAUST FAN), ESP (EXTERNAL STATIC PRESSURE), ET (EXPANSION TANK), EBH (ELECTRIC BASEBOARD HEATER), ECUH (ELECTRIC CABINET UNIT HEATER), EUH (ELECTRIC UNIT HEATER), EWT (ENTERING WATER TEMPERATURE), EXH (EXHAUST), EXIST (EXISTING), EXP (EXPANSION), FA (FIRE ALARM), FCO (FLOOR CLEAN OUT), FCU (FAN COIL UNIT), FD (FIRE DAMPER), FE (FIRE EXTINGUISHER), FLA (FULL LOAD AMPS), F.O.R. (FUEL OIL RETURN), F.O.S. (FUEL OIL SUPPLY), FPM (FEET PER MINUTE), FPS (FEET PER SECOND), FS (FLOW SWITCH), FST (FREEZE STAT), FT (FEET), GA (GAUGE), GC (GENERAL CONTRACTOR), GPH (GALLON PER HOUR), GPM (GALLON PER MINUTE), G.V. (GENERATOR VENDOR), HD (HEAD), HWR (DOMESTIC HOT WATER RETURN), HWS (DOMESTIC HOT WATER SUPPLY), HHWR (HEATING HOT WATER RETURN), HHWS (HEATING HOT WATER SUPPLY), HT (HEIGHT), HVAC (HEATING VENTILATION & AIR CONDITION), HZ (HERTZ), IAW (IN ACCORDANCE WITH), ID (INSIDE DIAMETER), IN (INCHES), KW (KILOWATTS), LAT (LEAVING AIR TEMPERATURE), LBS (POUNDS), LF (LINEAR FEET), LVR (LOUVER), LWT (LEAVING WATER TEMPERATURE), MA (MIXED AIR TEMPERATURE), MAX (MAXIMUM), MBH (BRITISH THERMAL UNITS (THOUSANDS)), MBMS (MECHANIZED BUILDING MANAGEMENT SYSTEM), MCA (MECHANICAL CONTRACTOR), MCC (MOTOR CONTROL CENTER), MD (MOTORIZED DAMPER), N/A (NOT APPLICABLE), NC (NORMALLY CLOSED, NOISE CRITERIA), NIC (NOT IN CONTRACT), OA (OUTSIDE AIR), OBD (OPPOSED BLADE DAMPER), PBD (PARALLEL BLADE DAMPER), PC (PUMPED CONDENSATE), PD (PRESSURE DROP), PH (PHASE), PRESS (PRESSURE), PRV (PRESSURE REDUCING VALVE), PSI (POUND PER SQUARE INCH), PSIG (POUND PER SQUARE INCH GAUGE), RA (RETURN AIR), RM (REFRIGERATION MACHINE), REG (REGISTER), RET (RETURN), RH (RELATIVE HUMIDITY), RPM (REVOLUTIONS PER MINUTE), RTU (ROOF TOP UNIT), SA (SUPPLY AIR), SD (SMOKE DETECTOR, STORM DRAIN), SF (SQUARE FEET), SP (STATIC PRESSURE, SUMP PUMP), STD (STANDARD), SYS (SYSTEM), T (THERMOSTAT), TCC (TEMPERATURE CONTROL CONTRACTOR), TOV (TRIPLE DUTY VALVE), THK (THICK), TR (TRANSFER), TSP (TOTAL STATIC PRESSURE), TYP (TYPICAL), UH (UNIT HEATER), V (VENT, VOLTS), VAV (VARIABLE AIR VOLUME), VD (MANUAL VOLUME DAMPER), VEL (VELOCITY), VLV (VALVE), VIF/V.I.F (VERIFY IN FIELD), W/ (WITH), W/O (WITHOUT), WB (WET BULB), WC (WATER COLUMN), (E) (EXISTING), (N) (NEW), NW (NEW WORK), (T) (TEMPORARY)

MECHANICAL SYMBOLS

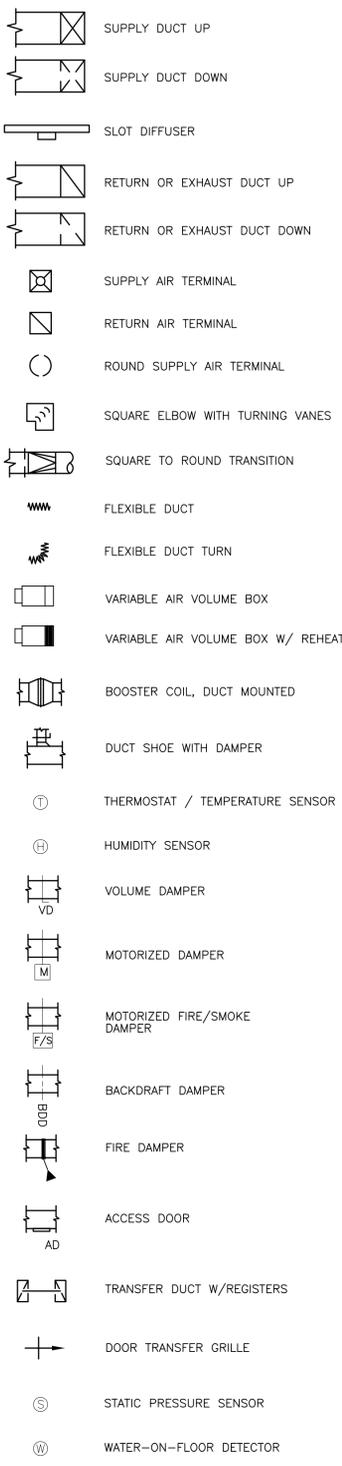
GENERAL MECHANICAL SYMBOLS



HVAC PIPING SYMBOLS



VENTILATION SYMBOLS



PUMP SYMBOLS



MECHANICAL GENERAL NOTES

- 1. THE SCOPE OF THIS WORK CONSISTS OF FURNISHING AND INSTALLING COMPLETE MECHANICAL SYSTEMS. THE CONTRACTOR SHALL PROVIDE ALL SUPERVISION, LABOR, MATERIALS, EQUIPMENT, MACHINERY, AND ALL OTHER ITEMS NECESSARY TO COMPLETE THE SYSTEM. IT IS THE INTENT OF THESE PLANS AND DOCUMENTS TO PROVIDE COMPLETELY FINISHED, TESTED, AND OPERATIONAL SYSTEMS. ALL APPARATUS, APPLIANCES, MATERIALS, AND INCIDENTAL ACCESSORIES NECESSARY TO MAKE THE WORK COMPLETE AND READY FOR OPERATION, SHALL BE PROVIDED BY THE CONTRACTOR WITHOUT ADDITIONAL EXPENSE TO THE OWNER. THE TERM "PROVIDE," WHERE USED IN THESE SPECIFICATIONS AND ON THE DRAWINGS, SHALL BE DEFINED AS PURCHASE, FABRICATE, INSTALL AND CONNECT TO THE SYSTEMS AS STATED ABOVE.
2. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS. THE MANUFACTURER'S RECOMMENDATIONS SHALL BE FOLLOWED AS REQUIRED. ALL EQUIPMENT SHALL BE NEW AND U.L. LISTED.
3. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND PAY ALL FEES NECESSARY FOR THE EXECUTION AND COMPLETION OF THIS WORK.
4. THE CONTRACTOR SHALL PROVIDE ACCESS DOORS FOR ALL MECHANICAL EQUIPMENT WHICH IS INSTALLED IN INACCESSIBLE LOCATIONS. BUILDING COMPONENTS REQUIRING ACCESS DOORS SHALL INCLUDE, BUT NOT BE LIMITED TO, ALL NON LAY-IN TYPE CEILINGS, CONCEALED SPLINE CEILINGS, CHASES, CRAWL SPACES, ATTICS, FLOORS, AND WALLS. ACCESS DOORS SHALL BE MINIMUM 24" X 24" FOR HAND ACCESS AND LARGER IF HUMAN ACCESS IS REQUIRED. COORDINATE THE INSTALLATION OF THE MECHANICAL, PLUMBING, AND FIRE PROTECTION SYSTEM WITH THE ARCHITECTURAL PLANS. PROVIDE THE GENERAL CONTRACTOR A SCHEDULE OF THE QUANTITY AND SIZE FOR ALL ACCESS DOORS REQUIRED FOR THIS PROJECT.
5. THE CONTRACTOR SHALL COOPERATE WITH OTHERS DOING WORK ON THE BUILDING AS MAY BE NECESSARY FOR THE PROPER EXECUTION OF THE WORK OF THE VARIOUS TRADES EMPLOYED IN THE CONSTRUCTION OF THE BUILDING. THE CONTRACTOR SHALL OBTAIN A COMPLETE AND CURRENT SET OF PLANS AND SPECIFICATIONS FOR THIS PROJECT. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL, STRUCTURAL, CIVIL AND ELECTRICAL DRAWINGS TO THE END THAT UNNECESSARY DELAYS MAY BE AVOIDED. NO EXTRAS WILL BE ALLOWED BECAUSE OF CONFLICTS CAUSED BY THE USE OF INCOMPLETE OR OUTDATED PLANS AND SPECIFICATIONS.
6. THE DATA GIVEN HEREIN AND ON THE DRAWINGS IS AS EXACT AS CAN BE SECURED; BUT THE ABSOLUTE ACCURACY IS NOT GUARANTEED. THE SPECIFICATIONS AND DRAWINGS ARE FOR THE ASSISTANCE AND GUIDANCE OF THE CONTRACTOR. EXACT LOCATION, DISTANCES, AND LEVELS WILL BE GOVERNED BY THE BUILDINGS. THE CONTRACTOR SHALL USE THE DATA CONTAINED WITH THIS UNDERSTANDING. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL CONSTRUCTION AND WORK OF OTHER CONTRACTOR WILL PERMIT. ALL DEVIATIONS FROM DRAWINGS REQUIRED TO MAKE THE MECHANICAL, PLUMBING, AND FIRE PROTECTION WORK CONFORM TO THE BUILDING AS CONSTRUCTED AND TO THE WORK OF OTHERS SHALL BE MADE BY THE CONTRACTOR.
7. THE CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AT THE BUILDINGS AND SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF SAME. NO EXTRA COMPENSATION WILL BE ALLOWED BECAUSE OF DIFFERENCES BETWEEN WORK SHOWN ON THE DRAWINGS AND MEASUREMENTS AT THE BUILDING.
8. ALL WORK AND MATERIALS COVERED BY THE SPECIFICATIONS SHALL BE SUBJECT TO INSPECTION AND, AT ALL TIMES, BY REPRESENTATIVES OF THE ARCHITECT, ENGINEER, OR THE OWNER. IF THE ARCHITECT'S, ENGINEER'S, OR OWNER'S INSPECTOR FIND THAT ANY MATERIAL DOES NOT CONFORM TO THESE SPECIFICATIONS, THE CONTRACTOR SHALL, WITHIN 3 DAYS AFTER BEING NOTIFIED BY THE ARCHITECT, ENGINEER, OR OWNER, REMOVE THE MATERIAL FROM THE PREMISES. IF SAID MATERIAL HAS BEEN INSTALLED, THE ENTIRE EXPENSE OF REMOVING AND REPLACING SAME, INCLUDING ALL CUTTING AND PATCHING THAT MAY BE NECESSARY, SHALL BE BORNE BY THE CONTRACTOR.
9. THE CONTRACTOR SHALL REMOVE ALL MATERIALS NOT INSTALLED IN HIS WORK WHICH WOULD INTERFERE WITH THE WORK OF OTHER CONTRACTOR, IF SO DIRECTED BY THE ARCHITECT, ENGINEER, OR THE OWNER. AT THE COMPLETION OF THE WORK, THE CONTRACTOR SHALL CLEAN UP AND REMOVE FROM THE PREMISES ALL DEBRIS AND MATERIALS NOT INSTALLED SO THAT THE PREMISES WILL BE LEFT CLEAN.
10. UPON COMPLETION OF THE WORK AND ADJUSTMENT OF ALL EQUIPMENT, ALL SYSTEMS SHALL BE TESTED IN THE PRESENCE OF THE ARCHITECT AND ENGINEER TO DEMONSTRATE THAT ALL EQUIPMENT FURNISHED AND INSTALLED UNDER THE PROVISIONS OF THESE SPECIFICATIONS FUNCTIONS IN THE MANNER REQUIRED.
11. THE CONTRACTOR SHALL PROVIDE ENGRAVED PLASTIC NAMEPLATES FOR ALL MECHANICAL EQUIPMENT FOR THIS PROJECT. PROVIDE FLOW DIRECTION ARROWS AND SYSTEM IDENTIFIERS EVERY 25 FEET FOR ALL MECHANICAL, PLUMBING, AND FIRE PROTECTION PIPING SYSTEMS.
12. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 8 MANHOURS OF OWNER TRAINING BY THE MANUFACTURER'S REPRESENTATIVES FOR THE MECHANICAL SYSTEM(S) FOR THIS PROJECT. THIS WORK SHALL BE INCLUDED IN THE BASE BID AND SCHEDULED WITH THE OWNER'S REPRESENTATIVE AFTER SUBMISSION OF THE O/M MANUALS. THE CONTRACTOR SHALL REQUIRE THE MANUFACTURER'S REPRESENTATIVES TO CONDUCT THE OWNER TRAINING SESSION(S).
13. THE WORD "PROVIDE" MEANS TO FURNISH AND INSTALL.
14. THE CONTRACTOR SHALL DEMOLISH, DISASSEMBLE, AND REMOVE FROM THE PREMISES ALL EXISTING EQUIPMENT AND MATERIAL AS INDICATED THAT IS NOT BEING REUSED AND BECOMING PROPERTY OF THE OWNER. THE CONTRACTOR SHALL LEGALLY DISPOSE OF SUCH EQUIPMENT AND MATERIAL IN ACCORDANCE WITH LOCAL REGULATIONS.
15. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING AND BECOME INFORMED AS TO THE EXISTING CONDITIONS OF THE PREMISES. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH ALL EXISTING SYSTEMS AND WITH THE NEW WORK THAT IS REQUIRED. NO CONSIDERATION WILL BE GRANTED FOR ALLEGED MISUNDERSTANDING OF THE WORK THAT IS TO BE DONE. ANY DIFFICULTIES IN COMPLYING WITH THE DRAWINGS OR SPECIFICATIONS, OR QUESTIONS OF CLARIFICATION, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE BIDDING.
16. THE CONTRACTOR SHALL NOTIFY THE ENGINEER, WITH THE SUBMISSION OF THEIR BID, OF ALL MATERIALS AND APPARATUS BELIEVED TO BE INADEQUATE, UNSUITABLE, IN VIOLATION OF LAWS, ORDINANCES, AND RULES, AND OF ANY NECESSARY ITEMS OF WORK OMITTED. IN THE ABSENCE OF SUCH WRITTEN NOTICE, IT IS MUTUALLY AGREED THAT THE CONTRACTOR HAVE INCLUDED THE COST OF ALL REQUIRED ITEMS IN HIS PROPOSAL, AND THAT HE SHALL BE RESPONSIBLE FOR THE APPROVED SATISFACTORY FUNCTIONING OF THE ENTIRE SYSTEM WITHOUT EXTRA COMPENSATION.
17. PROVIDE ALL PENETRATIONS TO THE BUILDINGS AS REQUIRED FOR THE INSTALLATION OF ALL MECHANICAL EQUIPMENT AND MATERIALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING ALL PENETRATIONS TO THE EXTERIOR OF THE BUILDING AS A RESULT OF THE WORK. PROVIDE TEMPORARY AND/OR PERMANENT CLOSURE OF BUILDING OPENINGS AS A RESULT OF DEMOLITION WORK. PROVIDE SLEEVES AND INSERTS AS REQUIRED. ADHERE TO ALL APPLICABLE PORTIONS OF THE ARCHITECTURAL SPECIFICATIONS FOR ROOF, WALL AND FLOOR PENETRATIONS. THE CONTRACTOR SHALL COORDINATE WITH THE ROOFING CONTRACTOR AND OTHER TRADES AS REQUIRED.
18. WHERE THE DRAWINGS INDICATE CONNECTIONS AND COORDINATION WITH EXISTING UTILITIES, ABOVE AND BELOW THE FLOOR OR GRADE, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXACT LOCATION, TYPE, SIZE, INVERTS, CAPACITY, AND COMPATIBILITY OF EXISTING UTILITIES THROUGH ACTUAL FIELD MEASUREMENTS AND INVESTIGATIONS AT THE JOB SITE PRIOR TO FABRICATION OR INSTALLATION OF ANY PIPING AND EQUIPMENT. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY IF SIGNIFICANT DEVIATION FROM THE PLANS ARE DISCOVERED. THE CONTRACTOR SHALL ADHERE TO ALL APPLICABLE NOTIFICATION LAWS PRIOR TO ALL DIGGING OPERATIONS.
19. PROVIDE ALL OPERATING AND SAFETY CONTROLS FOR ALL MECHANICAL EQUIPMENT. PROVIDE AND INSTALL ALL CONTROL WIRING, CONDUIT, RELAYS, THERMOSTATS, SENSORS, CONTROL VALVES, CONTROLLERS, AND OTHER ITEMS REQUIRED TO DEVELOP THE WRITTEN "SEQUENCE OF CONTROL" AND CONTROL DIAGRAMS (WHERE SHOWN). ADHERE TO THE MANUFACTURER'S INSTRUCTION WHERE APPLICABLE. PROVIDE SHOP DRAWINGS, WIRING DIAGRAMS, PNEUMATIC AND ELECTRIC SCHEMATIC CONTROL DIAGRAMS, AND EQUIPMENT CUT SHEETS TO DESCRIBE THE METHOD OF IMPLEMENTATION.
20. THE CONTRACTOR SHALL OBTAIN AND ADHERE TO THE OWNER'S "RULES AND REGULATIONS FOR CONSTRUCTION". THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO ALL OWNER REQUIREMENTS INCLUDING, BUT NOT LIMITED TO, ALLOWABLE WORKING HOURS, PARKING, CORE DRILLING, NOISE, SECURITY, DUST CONTROL, TRASH REMOVAL, STAGING AREAS, STORAGE OF MATERIALS, CLEANUP, TOILET AVAILABILITY, ALL TEMPORARY UTILITIES, AND ALL UTILITY SERVICE INTERRUPTION. THE CONTRACTOR SHALL COORDINATE ALL ACTIVITIES WITH THE OWNER'S DESIGNATED REPRESENTATIVE.
21. REFER TO THE ELECTRICAL DRAWINGS FOR THE VOLTAGE AND PHASE REQUIREMENTS FOR ALL ELECTRICALLY POWERED MECHANICAL/PLUMBING EQUIPMENT.
22. DURING PROGRESS OF THE WORK, MAINTAIN AN ACCURATE RECORD OF THE INSTALLATION OF THE SYSTEM, LOCATING ALL DUCTWORK, PIPING AND EQUIPMENT PRECISELY BY DIMENSION. UPON COMPLETION OF THE INSTALLATION, TRANSFER ALL RECORD DATA TO BLUE-LINE PRINTS OF THE ORIGINAL DRAWINGS.
23. ASBESTOS CONTAINING MATERIALS (ACM) IS STRICTLY PROHIBITED FROM BEING INSTALLED ON ALL AT&T PROJECTS. SHOULD ACM BE INADVERTENTLY INSTALLED ON PROJECTS, PROPER REMOVAL, DISPOSAL AND REPLACEMENT WITH APPROVED PRODUCT SHALL BE THE SOLE RESPONSIBILITY OF THE INSTALLING CONTRACTOR AT NO COST TO THE OWNER.

PROJECT NAME: NEW HAVEN CDO - GENERATOR DESIGN
CONSULTANT STAMP: STATE OF MICHIGAN, RAYMOND S. BUHAY, ENGINEER, No. 6201064206

exp U.S. Services Inc. CONSULTANT STAMP
exp logo: BUILDINGS • EARTH & ENVIRONMENT • ENERGY • INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

Table with 4 columns: NO., REVISIONS / AUTHORIZATIONS, DATE, BY. Includes entries for PERMIT AND CONSTRUCTION, FINAL REVIEW #2, FINAL REVIEW, and 50% REVIEW.

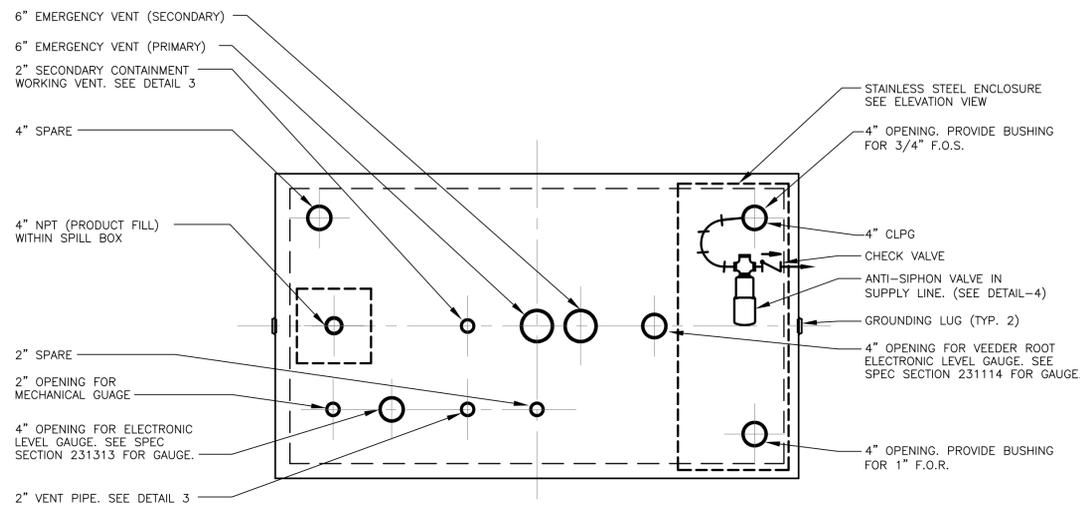
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AT&T CORPORATE REAL ESTATE
DRAWINGS PREPARED FOR

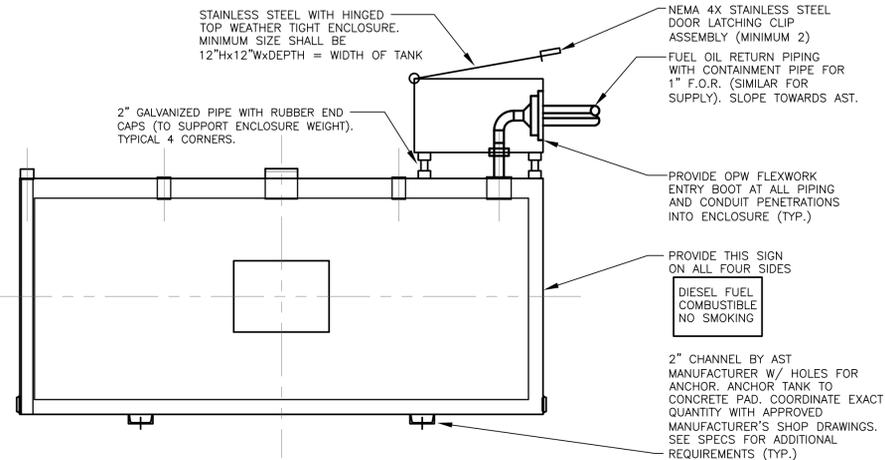
PROJECT DRAWING
59041 MAIN ST
NEW HAVEN
MI US
M18255
NWHNMIMM 111436.01 M18255
SHEET TITLE: ABBR., SYMBOLS & NOTES MECHANICAL

Table with 3 columns: AT&T PROJECT NUMBER, DATE, SCALE; AT&T AUTHORIZATION, SHEET, OF SHEETS, SHEET NO.; AT&T DRAWING NO., SHEET NO. Includes values: 2001272, SM, RB, 2001272M00001, M00001

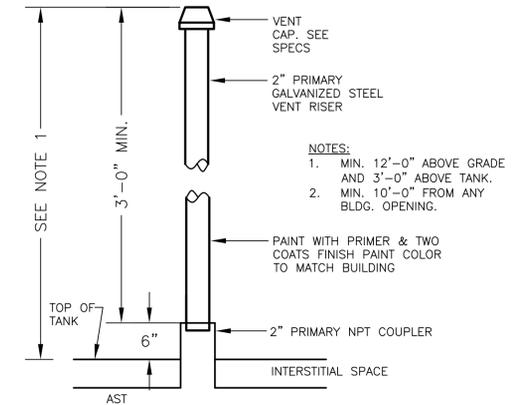
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05-14-2025 11:58:04 (XREF) ... Common Content\M18255TIB.dwg



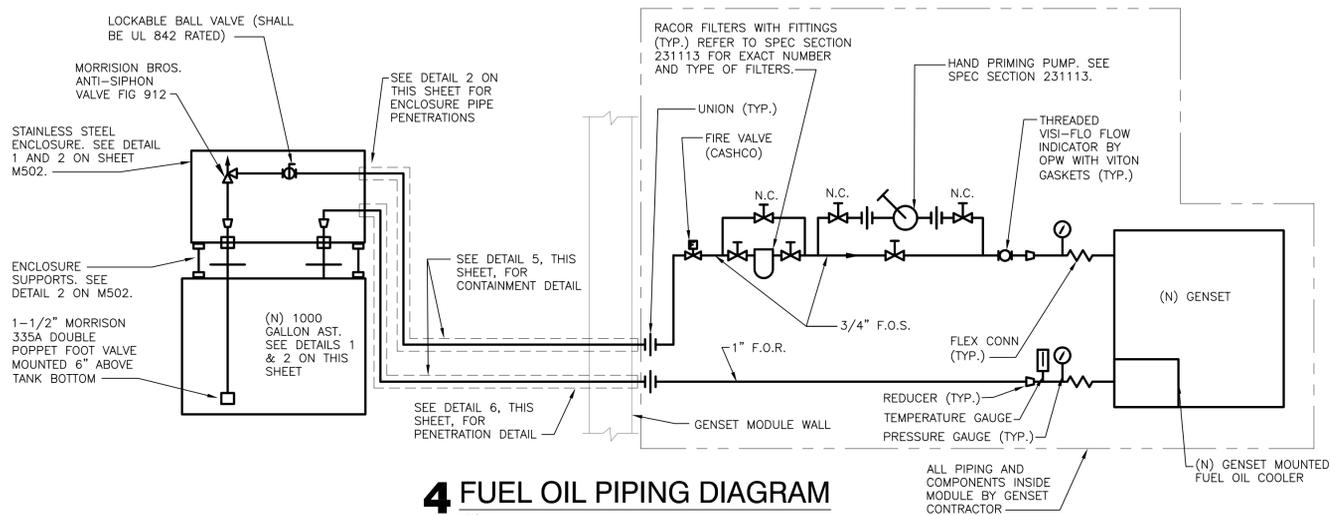
1 ABOVEGROUND STORAGE TANK - PLAN
NTS



2 ABOVEGROUND STORAGE TANK - ELEVATION
NTS

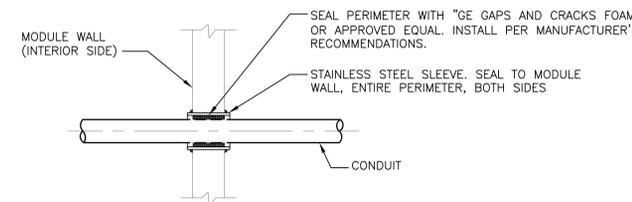


3 AST VENT PIPE RISER DETAIL
NTS



4 FUEL OIL PIPING DIAGRAM
NTS

- DETAIL-4 NOTES:
- REFER TO SPEC SECTION 231113 FOR ADDITIONAL REQUIREMENTS.
 - ALL ITEMS ARE PROVIDED AND INSTALLED UNDER CONSTRUCTION CONTRACT, UNLESS NOTED OTHERWISE.

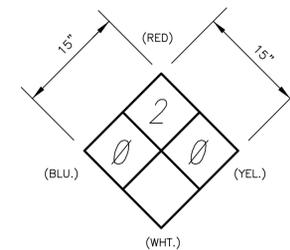


7 CONDUIT DETAIL AT MODULE WALL
NTS

AST SCHEDULE (OWNER FURNISHED)

NO.	MAKE	MODEL	CAPACITY (GALLONS)	ACCESSORIES	REMARKS
AST	CONTAINMENT SOLUTIONS	SAC002	1000	15-GAL SPILL BOX	DOUBLE WALL UL-2085 LISTED TANK.

COORDINATE EXACT PAD MOUNTING REQUIREMENTS WITH TANK MANUFACTURER.



XX,XXX #
WEIGHT (empty)

FILL

MAIN TANK VENT

MAIN TANK EMERGENCY VENT

INTERSTITIAL EMERGENCY VENT

LEAK DETECTION TUBE

INTERSTITIAL SENSOR

X,XXX GALLON
CAPACITY

CAUTION: THIS TANK TO CONTAIN
PETROLEUM PRODUCTS ONLY

NO SMOKING

COMBUSTIBLE

DIESEL FUEL

PER NFPA 704 CHAPTER 6.
(INSTALL ON ALL VISIBLE SIDES)

1 1/2\"/>

1\"/>

1\"/>

1\"/>

1\"/>

1\"/>

1 1/2\"/>

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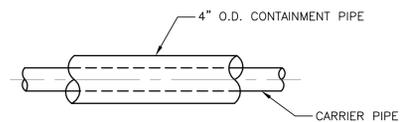
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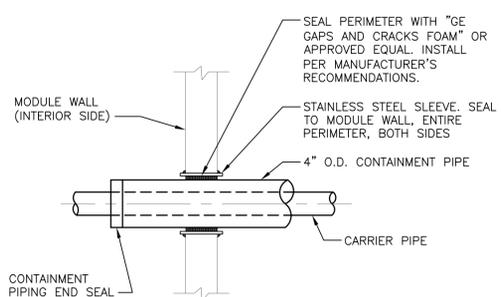
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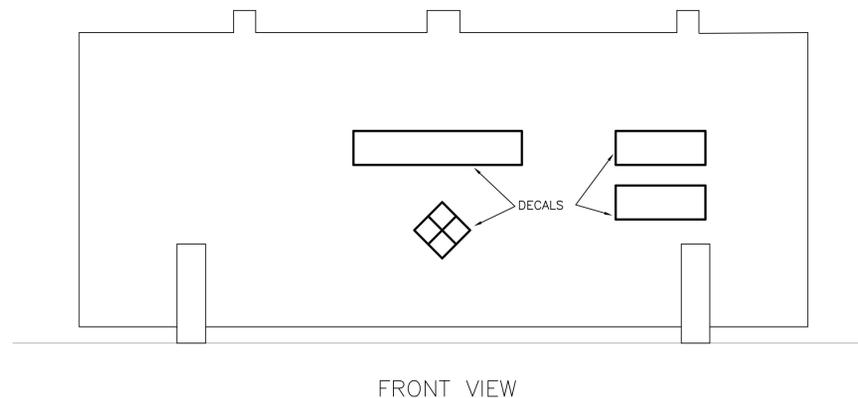
CORRESPONDING
TANK OPENING



5 DOUBLE WALL CONTAINMENT DETAIL
NTS



6 FUEL OIL PIPING DETAIL AT MODULE WALL
NTS



7 ABOVEGROUND STORAGE TANK LABELING REQUIREMENTS
NTS

REQUIRED TANK DECALS

PROJECT NAME:
NEW HAVEN CDO - GENERATOR DESIGN
DET-24002045-A4

CONSULTANT STAMP
STATE OF MICHIGAN
5/13/23
RAYMOND S. BUHAY
ENGINEER
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REVISIONS / AUTHORIZATIONS

NO.	REVISIONS / AUTHORIZATIONS	DATE	BY
	PERMIT AND CONSTRUCTION	05/15/25	
	FINAL REVIEW #2	04/18/25	
	FINAL REVIEW	03/18/25	
	50% REVIEW	12/17/24	

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DRAWINGS PREPARED FOR
AT&T CORPORATE REAL ESTATE

PROJECT_DRAWING

59041 MAIN ST
NEW HAVEN
MI US
NWHNMIM 111436.01 M18255

DETAILS MECHANICAL

AT&T PROJECT NUMBER: 2001272	DATE:	SCALE: AS NOTED
AT&T AUTHORIZATION: AIMEE BUTLER	DRAWN BY: SM	CHECKED BY: RB
	SHEET: - - OF: - - SHEETS	SHEET NO.
	AT&T DRAWING NO.: 2001272M50001	M50001

ABBREVIATION LIST

A	AMPERE	MCC	MOTOR CONTROL CENTER
AC	ALTERNATING CURRENT	MPDP	MAIN POWER DISTRIBUTION PANEL
A/C	AIR CONDITIONING UNIT	MECH	MECHANICAL
ACCU	AIR COOLED CONDENSING UNIT	MFR	MANUFACTURER
AF	AMP FRAME/FUSED SIZE	MISC	MISCELLANEOUS
AF	ABOVE FINISHED FLOOR	MSP	MOTOR STARTER PANEL
AFG	ABOVE FINISHED GRADE	MTG	MOUNTING
AS	AMP SENSOR SIZE	(N)	NEW EQUIPMENT OR INSTALLATION
AST	ABOVE GROUND STORAGE TANK	NEC	NATIONAL ELECTRICAL CODE
AT	AMP TRIP SETTING	NEUT	NEUTRAL
BD	BUS DUCT	NTS	NOT TO SCALE
C	CONDUIT	PB	PUSH BUTTON
CB	CIRCUIT BREAKER	PC	PHOTO CELL
CIRC.	CIRCUIT	PDP	POWER DISTRIBUTION PANEL
C.O.	CENTRAL OFFICE	PDSC	POWER DISTRIBUTION SERVICE CABINET
CT	CURRENT TRANSFORMER	PH	PHASE
CTP	CRITICAL TELE. POWER PANEL	PHL	PANEL
DC	DIRECT CURRENT	PRI	PRIMARY
DIAG.	DIAGRAM	PWR	POWER
DWG	DRAWING	(R)	RELOCATED DEVICE OR EQUIPMENT
EF	EXHAUST FAN	(R&R)	REMOVE AND RELOCATE
EMER	EMERGENCY	REC	RECESSED
EQUIP	EQUIPMENT	RGS	RIGID GALVANIZED STEEL CONDUIT
E.C.	ELECTRICAL CONTRACTOR	SEC	SECONDARY
FWC	ELECTRIC WATER COOLER	SECT	SECTION
(E)	EXISTING INSTALLATION OR EQUIP.	SF	SUPPLY FAN
FDR	FEEDER	SPD	SURGE PROTECTOR DEVICE
FLEX	FLEXIBLE	SW	SWITCH
FUT	FUTURE	TB	TAP BOX
GFCI	EQUIPMENT GROUND WIRE	TBB	TELEPHONE BACKBOARD
GRD	GROUND	TEL	TELEPHONE
H	HEIGHT	TP	TYPICAL
HOA	HAND OFF AUTO SWITCH	UNO	UNLESS NOTED OTHERWISE
HP	HORSE POWER	U/G	UNDERGROUND
HPS	HIGH PRESSURE SODIUM	UH	UNIT HEATER
HTR	HEATER	VFC	VARIABLE FREQUENCY CONTROLLER
INCAND	INCANDESCENT	WFD	VARIABLE FREQUENCY DRIVE
J	JUNCTION BOX	WP	WEATHER PROOF
KV	KILOVOLT	WFM	WIREWAY TRANSFORMER
KVA	KILO VOLT AMPERE		
KW	KILOWATT		
LC	LIGHTING CONTRACTOR		
LV	LOW VOLTAGE		
LTG	LIGHTING		

ELECTRICAL SYMBOL LIST

SYMBOL	DESCRIPTION
	SINGLE POLE LIGHT SWITCH - SUBSCRIPTS: 3-THREE WAY SWITCH, 4-FOUR WAY SWITCH.
	SINGLE POLE LIGHT SWITCH WITH RED PILOT LIGHT, "ON" WHEN SWITCH IS IN THE "OFF" POSITION.
	SINGLE POLE, TIMER SWITCH.
	FRACTIONAL HORSEPOWER MANUAL SINGLE POLE, LOCKABLE MOTOR STARTER WITH THERMAL OVERLOAD RELAY AND RED PILOT LIGHT IN NEMA 1 ENCLOSURE.
	SINGLE POLE, 120/277 VOLT DIMMING SWITCH.
	SINGLE POLE, 120 VOLT PASSIVE INFRARED OCCUPANCY SENSOR WITH MANUAL "OFF-AUTO-ON" OVERRIDE AND ADJUSTABLE TIMER FOR "ON" CONTROL.
	PACKAGED CONTROL PANEL WITH LOCAL DISCONNECT BY EQUIPMENT MANUFACTURER.
	SPECIFICATION GRADE DUPLEX RECEPTACLE - 20A, 120 VOLT, 3W, GROUNDING TYPE.
	SPECIFICATION GRADE QUADRUPLEX RECEPTACLE - 20A, 120 VOLT, 3W, GROUNDING TYPE.
	SPECIFICATION GRADE QUADRUPLEX RECEPTACLE MOUNTED 6" ABOVE COUNTERTOP UNO - 20A, 120 VOLT, 1P, 3W.
	SPECIFICATION GRADE DUPLEX RECEPTACLE MOUNTED 6" ABOVE COUNTERTOP UNO - 20A, 120 VOLT, 1P, 3W, NEMA.
	SPECIAL RECEPTACLE (TYPE AND NEMA CONFIGURATION AS INDICATED ON DRAWINGS).
	FEEDER BUS DUCT.
	BUS DUCT RISER FLOOR PENETRATION LOCATION.
	THERMAL MAGNETIC CIRCUIT BREAKER.
	DRAW-OUT AIR CIRCUIT BREAKER.
	PULL BOX.
	SPLICE BOX.
	CEILING MOUNTED JUNCTION BOX.
	GROUND AS PER NEC
	SURFACE MOUNTED PANELBOARD, UNLESS NOTED OTHERWISE.
	SURFACE MOUNTED POWER DISTRIBUTION PANELBOARD.
	MISCELLANEOUS PANELS AND CABINETS. TYPE AS INDICATED ON PLANS.
	MOTOR STARTER PANEL.
	COMBINATION MOTOR STARTER, FUSED DISCONNECT TYPE IN NEMA 1 ENCLOSURE, WITH FUSES PER MOTOR NAME PLATE DATA. 3-POLE, UNO.
	NON-FUSED DISCONNECT SWITCH.
	FUSED DISCONNECT SWITCH.
	MANUAL TRANSFER SWITCH
	VARIABLE FREQUENCY CONTROLLER WITH HARMONIC FILTER
	CONTROL RELAY.
	MOTOR PROTECTOR.
	TELEPHONE/DATA OUTLET BOX WITH 3/4" DIA. EMPTY CONDUIT STUB UP 6" ABOVE ACCESSIBLE CEILING, UNO.
	1X4, 2-LAMP WRAPAROUND PENDANT MOUNTED LUMINAIRE, UNLESS NOTED OTHERWISE.
	1X4, EMERGENCY LUMINAIRE
	1X4, LUMINAIRE CONNECTED TO A NIGHT LIGHT CIRCUIT
	2X4, 2 LAMP, RECESSED MOUNTED LUMINAIRE.
	WALL MOUNTED LUMINAIRE.
	RECESSED DOWNLIGHT LUMINAIRE.
	EMERGENCY BATTERY PACK UNIT.
	CONDUIT STUBBED DOWN.
	CONDUIT STUBBED UP.
	HOMERUN CIRCUIT TO A PANELBOARD.
	MOTOR - SINGLE OR THREE PHASE.
	POWER POLE.
	COMBINATION POWER/TELEPHONE POWER POLE.
	CEILING MOUNTED OCCUPANCY SENSOR.
	WALL MOUNTED OCCUPANCY SENSOR.
	120V PLUG STRIP WITH 20A. SPECIFICATION GRADE, GROUNDING TYPE. RECEPTACLE @ 0'-9" CENTER, UNO.
	WALL MOUNTED E-STOP PUSH BUTTON WITH PROTECTIVE COVER.
	GENERATOR ENGINE BLOCK HEATER
	LIGHTING CONTACTOR.
	TIME CLOCK.

NOTE: ALL SYMBOLS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS

LINETYPE LEGEND

	DENOTES BACKGROUND OR EXISTING CONDITIONS
	DENOTES DEVICES, EQUIPMENT, ETC. EXISTING TO REMAIN
	DENOTES EXISTING DEVICES, EQUIPMENT, ETC. TO BE REMOVED
	DENOTES NEW OR RELOCATED DEVICES, EQUIPMENT, ETC.
	DENOTES U/G CONDUIT/WIRING INSTALLATION

GENERAL ELECTRICAL NOTES

- ALL EXISTING ELECTRICAL DEVICES AND INSTALLATION SHOWN ON THE FLOOR PLANS SHALL BE FIELD VERIFIED BEFORE SUBMITTING BIDS, AS APPLICABLE TO THIS PROJECT.
- UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR ATTEMPT TO CONNECT NEW ELECTRICAL DEVICES OR CIRCUITS TO AN EXISTING ENERGIZED POWER DISTRIBUTION SWITCHGEAR, PANEL BOARD, MOTOR CONTROL CENTER, BUS DUCT, ETC. MAKE ARRANGEMENTS WITH OWNER'S CONSTRUCTION REPRESENTATIVE FOR A METHOD OF PROCEDURE (M.O.P.) MEETING TO ESTABLISH THE CRITERIA FOR THE NECESSARY POWER SHUT DOWN. THIS MEETING SHALL BE HELD A MINIMUM OF TWO (2) WEEKS IN ADVANCE OF PERFORMING THE ACTUAL WORK.
- ANY INTERRUPTION OF SERVICE SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY OWNER'S CONSTRUCTION REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING OPERATIONS. MAXIMUM POWER SHUT-DOWN TO ALL EXISTING CRITICAL TELEPHONE EQUIPMENT (POWER PLANTS), AIR DRYERS, CTP PANELS, AND RELATED SUPPORTING AHU EQUIPMENT SHALL BE LIMITED TO 1 1/2 HOURS. PROVIDE TEMPORARY POWER AS REQUIRED.
- INCLUDE COST OF ALL PLANNED POWER SHUTDOWNS REQUIRED FOR COMPLETION OF ALL WORK INCLUDING INSTALLATION OF NEW UTILITY CO. SERVICE.
- ALL ELECTRICAL WORK SHALL CONFORM TO THE MICHIGAN ELECTRICAL CODE RULES PART 8, INCORPORATING THE 2023 EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), AND ALL OTHER LOCAL CODES. ALL ELECTRICAL MATERIALS SHALL BE UL LISTED AND APPROVED FOR THE PURPOSE. OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND CERTIFICATE OF INSPECTION FOR ALL THE WORK INDICATED ON THE DESIGN DRAWINGS AND SPECIFIED HEREIN.
- ALL WIRING SHALL BE COPPER, RATED AT 600V, TYPE THWN, XHHW OR THHN, RATED FOR 90°C AND SIZE SHALL BE NO SMALLER THAN #12 UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- ALL CONDUITS, 1/2" DIAMETER MINIMUM TO 4" DIAMETER SHALL BE EMT UNLESS OTHERWISE INDICATED ON THE DRAWINGS. CONDUIT FITTINGS SHALL BE COMPRESSION TYPE OR STEEL SET SCREW TYPE. CONDUITS INSTALLED OUTDOORS, EXPOSED TO WEATHER SHALL BE RIGID METAL GALVANIZED. ALL PVC SCH. 40 CONDUIT INSTALLED U/G SHALL BE INSTALLED IN A CONCRETE ENCASED DUCT BANK.
- ALL EXPOSED CONDUIT RUNS SHALL BE INSTALLED PARALLEL AND PERPENDICULAR TO WALLS WHERE PRACTICAL. INSTALL APPROPRIATE EXPANSION FITTINGS WHERE A RACEWAY CROSSES BUILDING EXPANSION JOINTS. INSTALL ALL CONDUITS CLOSE TO THE CEILING. DO NOT INSTALL ANY CONDUITS HORIZONTAL ON WALLS UNLESS THEY ARE NEAR TO CEILING. ALL CONDUITS SHALL BE SUPPORTED FROM BUILDING STRUCTURE SYSTEM.
- MAINTAIN A 6" CLEARANCE BETWEEN CONDUIT AND PIPING. MAINTAIN A 12" CLEARANCE BETWEEN CONDUIT AND HEAT SOURCES, SUCH AS STEAM PIPES. FASTEN EXPOSED AND CONCEALED CONDUIT USING GALVANIZED STRAPS, TRAPEZE HANGERS OR BOLTED SPLIT STAMPED GALVANIZED HANGERS. DO NOT FASTEN CONDUIT WITH WIRE OR PIPE STRAPS. DO NOT SUPPORT ANY CONDUIT FROM LAY-IN CEILING GRID SYSTEM. IN GENERAL, MAINTAIN NEW CONDUIT AS TIGHT TO UNDER SIDE OF FLOOR STRUCTURE ABOVE AS POSSIBLE MINIMIZING BENDS AND TURNS. DO NOT SUPPORT ANY CONDUIT FROM MECHANICAL DUCT WORK, PIPING, OR OWNER'S CABLE RACKS.
- ALL CIRCUITS FOR POWER RECEPTACLES AND LIGHTING SHALL BE #12 AND #14 GROUND IN MIN. 1/2" CONDUIT UNLESS OTHERWISE NOTED ON THE DRAWINGS. EACH HOME RUN SHALL BE SEPARATELY CONNECTED TO A SPARE 20A-1P CIRCUIT BREAKER IN THE EXISTING RECEPTACLE OR LIGHTING PANEL. EACH CIRCUIT HOME RUN SHALL HAVE ITS OWN NEUTRAL CONDUCTOR. EACH RACEWAY FOR BRANCH CIRCUITS AND A HOME RUN TO AN ELECTRICAL PANEL SHALL HAVE AN EQUIPMENT GROUND CONDUCTOR IN ACCORDANCE WITH NEC REQUIREMENTS, UNLESS NOTED OTHERWISE ON THE DRAWING. CIRCUIT NUMBERS ARE SHOWN TO INDICATE DESIGN INTENT ONLY.
- BRANCH CIRCUIT CABLE SIZE SHALL BE ADJUSTED BASED ON THE CONDUCTOR LENGTH, AS INDICATED BELOW:
 - A.) 120V CABLING FROM PANEL TO ELECTRICAL LOAD SHALL BE AS FOLLOWS, UNLESS OTHERWISE INDICATED:
 - LESS THAN 75 FEET, USE #12 AWG MINIMUM
 - FROM 75 TO 200 FEET, USE #10 AWG MINIMUM
 - FROM 201 TO 250 FEET, USE #8 AWG MINIMUM
- ALL POWER OUTLETS SHALL BE LABELED WITH 'P-TOUCH' TAPE TO INDICATE RELATED PANEL AND CIRCUIT NUMBER.
- ALL LIGHT SWITCHES SHALL BE LABELED WITH 'P-TOUCH' TAPE TO INDICATE RELATED PANEL AND CIRCUIT NUMBER.
- ALL NEW WIRING SHALL BE CONCEALED IN THE CEILING SPACE, OR WALLS WITHIN THE FINISHED ADMINISTRATIVE AREAS. WHERE CONCEALED WIRING IS NOT FEASIBLE, THE USE OF SURFACE METAL RACEWAYS SHALL BE PERMITTED. PAINT THE RACEWAYS TO MATCH ADJACENT WALL FINISHES.
- FOR NEW ELECTRICAL DEVICES SUCH AS PANELBOARDS, DISCONNECT SWITCHES, CIRCUIT BREAKERS IN MAIN SWITCHBOARD ETC., PROVIDE BLACK LAMINATED PLASTIC NAMEPLATE WITH WHITE LETTERS INDICATING POWER SOURCE AND LOAD SERVED. ATTACH NAMEPLATE TO THE EQUIPMENT WITH SHEET METAL SCREWS.
- DO NOT USE EXISTING TELEPHONE EQUIPMENT FRAME MOUNTED POWER OUTLETS UNDER ANY CIRCUMSTANCES. DO NOT USE EXISTING TELEPHONE EQUIPMENT FRAME SUPER STRUCTURE, EXISTING CABLE TRAYS OR EXISTING RACEWAYS TO SUPPORT NEW RACEWAYS OR NEW GROUND CONDUCTOR RISER.
- DO NOT USE POWDER ACTUATED ANCHORS IN THE EXISTING TELEPHONE EQUIPMENT AREAS OR IN THE OFFICE AREAS UNLESS OTHERWISE APPROVED BY THE OWNER'S CONSTRUCTION REPRESENTATIVE.
- NO SPLICING. IF SPLICES ARE REQUIRED ONLY WHERE INDICATED ON DRAWING THEY SHALL BE MADE WITH HIGH PRESS CRIMP COMPRESSION BARREL TYPE SPLICE CONNECTORS AS HEAT SINK.
- USE METALLIC TYPE GROUNDING BUSHINGS IN ALL ENCLOSURES UNLESS NOTED OTHERWISE.
- REMOVE ALL CONSTRUCTION DUST AND DEBRIS ON A DAILY BASIS.
- ALL CONDUIT PENETRATIONS THROUGH WALLS AND FLOORS SHALL BE INSTALLED IN OPENING OF SUFFICIENT DIAMETER TO ALLOW PROPER SPACE FOR FIRE RETARDANT SEALING. IN ALL CASES, FIRE RETARDANT INSTALLATION SHALL HAVE MINIMUM TWO (2) HOURS FLAME (F) AND TEMPERATURE (T) RATINGS. ALL ABANDONED, NEW WALL AND FLOOR PENETRATIONS SHALL BE FIRE SEALED WITH HILTI FIRESTOP PRODUCTS. SEE ARCHITECTURAL DRAWINGS, AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- COORDINATE THE EXACT LOCATION AND NATURE OF ANY REQUIRED ELECTRICAL CONNECTION TO BE PROVIDED FOR MECHANICAL EQUIPMENT PRIOR TO ROUGH-IN. VERIFY THE ELECTRICAL SERVICE REQUIRED FOR EACH ITEM OF MECHANICAL EQUIPMENT WITH THE MECHANICAL CONTRACTOR PRIOR TO FURNISHING SUCH POWER. REFER TO MECHANICAL DRAWING FOR MECHANICAL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS. MAKE CONNECTION AND PROVIDE APPROPRIATE WIRE, CONDUIT AND OVERCURRENT PROTECTION FOR EQUIPMENT. THE DISCONNECTING MEANS FOR ALL MECHANICAL EQUIPMENT SHALL BE ACCESSIBLE AND HAVE CLEARANCES AS REQUIRED BY THE NEC. MOTORS SHALL BE FURNISHED AND INSTALLED UNDER DIVISION 23 WORK. WITH POWER CONNECTED UNDER DIVISION 26 WORK. FINAL CONNECTION SHALL BE MADE WITH SUITABLE LENGTH OF LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT. ALL MOTOR BRANCH CIRCUITS, ETC., SHALL BE FIELD-VERIFIED FOR PROPER SEQUENCE AND MOTOR ROTATION. PHASE SEQUENCE SHALL BE A-B-C (VIEWED FROM FRONT: LEFT TO RIGHT, TOP TO BOTTOM, FRONT TO REAR). REFER TO MECHANICAL DRAWINGS FOR MOTORS THAT ARE TO BE INTERLOCKED AND APPROPRIATE CONTROL WIRING AND CONDUITS.
- AFTER REMOVAL OF ANY ELECTRICAL DEVICE, EQUIPMENT AND/OR APPURTENANCE, IF THERE ARE OPENINGS IN THE WALLS, FLOORS, AND/OR ROOF NOT TO BE REUSED, CLOSE ALL OPENINGS TO MATCH ADJACENT MATERIALS AND CONSTRUCTIONS. PATCH, IN-FILL REPAIR, AND/OR CLOSE THIS OPENING AND FINISH SIMILAR TO SURROUNDING SURFACES. COORDINATE WITH DRAWINGS AND WITH ALL OTHER TRADES.
- DO NOT COVER OR OBSTRUCT OWNER'S CEILING INSERTS, UNOPENED OR PARTIAL UNUSED CABLE SLOTS OR HOLES BY ANY CONDUIT, RACEWAYS, BUS DUCT, OR EQUIPMENT. CONSULT WITH OWNER'S CONSTRUCTION REPRESENTATIVE AND REVIEW TECHNICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- ON COMPLETION OF WORK, SUBMIT THREE (3) SETS OF "RECORD" DRAWINGS TO CONSTRUCTION MANAGER IMMEDIATELY AFTER APPROVAL OF THE CONSTRUCTION WORK. "RECORD" DRAWINGS SHALL CLEARLY INDICATE THE FOLLOWING TO REFLECT ACTUAL CONSTRUCTION WORK AND RELATED FIELD CONDITIONS: ALL THE ELECTRICAL DEVICES SUCH AS DISCONNECT SWITCHES, STARTERS, LUMINAIRES, ETC., AS APPLICABLE. ACTUAL ROUTING OF ALL FEEDERS AND INDIVIDUAL BRANCH CIRCUITS 30 AMPS OR LARGER WITH THE RELATED CONDUIT SIZE AND WIRING. LOCATION OF INCOMING ELECTRICAL SERVICE AND ALL THE CIRCUITS INSTALLED UNDERGROUND OR IN A SLAB. MANUFACTURER'S NAME AND CATALOG NUMBERS EQUIPMENT FOR LUMINAIRES, MOTOR STARTERS, AS APPLICABLE.
- COORDINATE CONSTRUCTION PHASING WITH THE OWNER'S CONSTRUCTION REPRESENTATIVE AND WITH OTHER TRADES PRIOR TO DEMOLITION OF ANY EXISTING INSTALLATION OR COMMENCEMENT OF ANY NEW WORK.
- SUBMIT (2) SETS OF COMPOSITE 1/4" OR 1/8" SCALED LAYOUT DRAWINGS TO ARCHITECT/ENGINEER FOR REVIEW AND RECORDS PRIOR TO COMMENCING ANY NEW INSTALLATION WORK OF THE ELECTRICAL CONDUITS 2" AND ABOVE, PULL BOXES, BUS DUCTS, CABLE TRAYS, LIGHT FIXTURES LAYOUT, ETC. THE COMPOSITE DRAWINGS SHALL INCLUDE ALL EXISTING AND NEW MECHANICAL DUCTWORK, PIPING, ELECTRICAL CONDUITS, BUS DUCT, CABLE TRAYS, LIGHT FIXTURES, PULL BOXES, CEILING MOUNTED EQUIPMENT AND OTHER EXISTING BUILDING STRUCTURAL MEMBERS. ALL MAJOR COMPONENTS OF THE MECHANICAL AND ELECTRICAL SYSTEM SHALL BE IDENTIFIED, COORDINATED AND LABELED ON THE COMPOSITE LAYOUT DRAWINGS. ALL CONFLICTS SHALL BE RESOLVED WITH THIS COMPOSITE DRAWING BETWEEN ALL TRADES OFF BY OWNER'S CONSTRUCTION REPRESENTATIVE AND ALL TRADES BEFORE INSTALLATION BEGINS.
- CAREFULLY EXAMINE EXISTING PROJECT CONDITIONS WITH RESPECT TO NEW INSTALLATION WORK REQUIREMENTS. COMMENCEMENT OF ANY DEMOLITION OR NEW WORK INDICATES THAT THE CONTRACTOR ACCEPTS EXISTING CONDITIONS. NO EXTRA CHARGES WILL BE ACCEPTED BY OWNER AFTER BIDDING THAT ARE RELATED TO CONTRACTOR'S INABILITY TO INSTALL NEW EQUIPMENT AND ASSOCIATED RACEWAYS AND WIRING DUE TO EXISTING CONDITIONS.
- FURNISH AND INSTALL NECESSARY PULL AND JUNCTION BOXES, WHETHER SHOWN ON DRAWINGS OR NOT, AS REQUIRED TO COMPLY WITH NEC AND TO MEET DESIGN INTENT SHOWN ON DESIGN DRAWINGS. PROVIDE "P-TOUCH" LABELS IN FRONT COVER OF JUNCTION BOXES AND PULL BOXES INDICATING THE RELATED PANEL AND POWER SOURCE FOR LOAD BEING SERVED.
- WORK AROUND EXPOSED BUS BARS IN BATTERY EQUIPMENT SPACES WITH EXTREME CAUTION. PROTECT BUS BARS AND PERFORM WORK ABOVE EXISTING BATTERY EQUIPMENT IN STRICT ACCORDANCE WITH THE OWNER'S GUIDELINES AND INSTRUCTIONS.
- SHOULD IT APPEAR THAT THERE IS A DUPLICATION ON THE DRAWINGS OR IN THE SPECIFICATIONS, WHEREIN THE SAME WORK OR ITEMS ARE SHOWN OR SPECIFIED AS BEING PROVIDED UNDER SEPARATE SUBCONTRACTS OR SUPPLY ORDERS, AND SUCH DUPLICATION IS NOT CLARIFIED BY ADDENDUM DURING THE BIDDING PERIOD, IT SHALL BE ASSUMED THAT THE RESPONSIBLE PRIME CONTRACTOR WILL SELECT AND COORDINATE DIVISION OF WORK AMONG SUBCONTRACTORS.
- THE DESIGN DRAWINGS, AS SUBMITTED, ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW EXACT LOCATION OF EQUIPMENT, AND ASSOCIATED RACEWAY ROUTING UNLESS DIMENSIONS ARE GIVEN. DRAWINGS ARE NOT TO BE SCALED FOR INSTALLATION WORK.
- LOCATION AND EQUIPMENT DESIGNATION SHOWN ON THE FLOOR PLAN ARE BASED ON THE EXISTING RECORD DRAWINGS FURNISHED BY THE OWNER AND MAY NOT REFLECT ACTUAL EXISTING INSTALLATION. NOTIFY OWNER'S CONSTRUCTION REPRESENTATIVE OF ANY DISCREPANCY FOUND PRIOR TO COMMENCING ANY DEMOLITION WORK, ANY ROUGH-IN WORK OR NEW INSTALLATION WORK.
- PROVIDE NEW TYPED PANELBOARD CIRCUIT DIRECTORY FOR ALL NEW AND/OR EXISTING PANELS THAT ARE AFFECTED BY DEMOLITION, MODIFICATIONS OR NEW WORK, FOR AFFECTED BRANCH CIRCUIT PANELBOARDS.
- ON COMPLETION OF ALL WORK UPDATE/REPLACE EXISTING FIRE ALARM SYSTEM ZONE CHARTS AS APPLICABLE.
- REPLACE EXISTING ELECTRICAL ONE LINE DIAGRAMS WITH NEW UPDATED ELECTRICAL ONE LINE DIAGRAMS TO REFLECT REVISIONS MADE TO THE EXISTING POWER DISTRIBUTION SYSTEM. UPDATED ONE LINE DIAGRAMS WILL BE FURNISHED BY EXP FOR INSTALLATION UNDER THIS CONTRACT.
- PERFORM ELECTRICAL TESTING ON ALL NEW ELECTRICAL EQUIPMENT AND INSTALLATION PER NETA GUIDELINES. SUBMIT TEST REPORTS FOR REVIEW AND RECORDS.
- FOR THE EXISTING CRITICAL EQUIPMENT SUCH AS C.O. POWER PLANTS, AIR DRYERS, CRITICAL TELEPHONE POWER (CTP), COORDINATE WITH OWNER'S CONSTRUCTION REPRESENTATIVE ALL PLANNED POWER SHUT-DOWNS.
- AFTER ALL INSTALLATION WORK AND ELECTRICAL SYSTEM TESTING IS COMPLETE, PROVIDE (3) SETS OF TYPED WRITTEN INSTRUCTION SHEETS FOR OWNER'S REVIEW AND APPROVAL REGARDING NORMAL OPERATION, MONTHLY TEST, AND EMERGENCY OPERATION OF NEW ATIS IN CONJUNCTION WITH NEW GENSET OPERATION SWITCHGEARS. AFTER APPROVAL FROM THE OWNER OF THIS EQUIPMENT OPERATIONAL PROCEDURE, PROVIDE HANDS ON TRAINING TO OWNER'S STAFF FOR MINIMUM OF (2) HOURS ON EACH ELECTRICAL EQUIPMENT OPERATION. AFTER ALL TRAINING IS COMPLETE, SUBMIT (5) SETS OF FINAL TYPED WRITTEN INSTRUCTION SHEETS IN LAMINATED PLASTIC TO OWNER.
- ALL EXISTING DISCONNECTS, MOTOR STARTER, AND CONTROL WIRING ASSOCIATED WITH THE EQUIPMENT SCHEDULED TO BE REMOVED ON THIS PROJECT SHALL BE DISCONNECTED AND REMOVED UNLESS NOTED OTHERWISE ON DRAWINGS. ASSOCIATED CONDUITS AND WIRING SHALL BE REMOVED BACK TO POWER SOURCE UNLESS NOTED OR INDICATED OTHERWISE ON DRAWINGS.
- ASBESTOS CONTAINING MATERIALS (ACM) IS STRICTLY PROHIBITED FROM BEING INSTALLED ON ALL AT&T PROJECTS. SHOULD ACM BE INADVERTENTLY INSTALLED ON PROJECTS, PROPER REMOVAL, DISPOSAL AND REPLACEMENT WITH APPROVED PRODUCT SHALL BE THE SOLE RESPONSIBILITY OF THE INSTALLING CONTRACTOR AT NO COST TO THE OWNER.
- COORDINATE ALL LOCATION OF FLOOR AND WALL CORING, PATCHING AND FIRE PROOFING REQUIREMENTS WITH OWNER'S CONSTRUCTION REPRESENTATIVE AND ARCHITECTURAL TRADES PRIOR TO BIDDING.
- ALL CONDUIT AND WIRING SHALL BE NEW AND ONLY ONE FEEDER CIRCUIT SHALL BE INSTALLED PER CONDUIT UNLESS OTHERWISE NOTED.
- FOR ALL NEW ONE-LINES AND RISER DIAGRAMS PROVIDE 24x36 FRAMES. TESTRITE VISUAL, MODEL #: E09-B. MANUFACTURER CONTACT NUMBER: 888.873.2735.

- CONTRACTOR SHALL LIST ALL DEVIATIONS FROM DRAWINGS AND/OR SPECIFICATIONS ON A SEPARATE TYPED-OUT SHEET AND SUBMIT WITH THE BID PROPOSAL.
- CONTRACTOR SHALL COORDINATE REMOVAL AND CLEANUP OF ALL DEBRIS CAUSED BY HIS WORK DURING CONSTRUCTION AND THE STORAGE OF BUILDING MATERIALS. CLEAN ALL AREAS AT THE END OF EACH WORK DAY. CONTRACTORS ARE TO CONFINE CONSTRUCTION TRAFFIC AND DEBRIS REMOVAL TO THE CONSTRUCTION AREA AS MUCH AS POSSIBLE TO MINIMIZE DUST.
- CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK AND NEW CONSTRUCTION WORK WITH OWNER'S CONSTRUCTION REPRESENTATIVE AND BUILDING MANAGER TO MINIMIZE BUSINESS DISRUPTIONS WHILE NEW CONSTRUCTION IS IN PROGRESS.
- REFER TO MECHANICAL, ARCHITECTURAL DRAWINGS, ETC., FOR ADDITIONAL WORK TO BE COORDINATED WITH THIS DRAWING AND THE REQUIREMENTS SPECIFIED HEREIN.
- CONTRACTOR SHALL ERECT PARTITIONS, AS DETAILED, COORDINATE EXACT LOCATIONS WITH THE OWNER'S CONSTRUCTION REPRESENTATIVE.
- GENERAL CONTRACTOR SHALL PATCH ALL WALL, CEILING, AND FLOOR SURFACES, AS WELL AS ANY OTHER MATERIALS TO REMAIN THAT ARE DAMAGED OR AFFECTED BY DEMOLITION OR NEW CONSTRUCTION. ALL PATCHING OF EXISTING CONSTRUCTION SHALL BE DONE TO MATCH EXISTING MATERIALS AND FINISHES, UNLESS NOTED OTHERWISE.
- IF HAZARDOUS MATERIALS ARE IN ANY WAY SUSPECTED INCLUDING, BUT NOT LIMITED TO ASBESTOS OR POLLUTANTS, CONTRACTOR SHALL INFORM THE ARCHITECT IMMEDIATELY AND SUSPEND WORK ON THAT AREA OF CONSTRUCTION. OWNER SHALL BE RESPONSIBLE FOR TESTING SUSPECTED MATERIAL AND REMOVAL OF SAME.
- ALL INDICATED DEVICES AND LIGHT FIXTURES ARE FROM PREVIOUS ENGINEERED DRAWINGS AND FIELD OBSERVATIONS. ACTUAL CONDITIONS MAY VARY AND MUST BE VERIFIED BY THIS CONTRACTOR WHO SHALL MAKE MINOR ADJUSTMENTS AS NECESSARY TO COMPLETE INSTALLATION OF ALL NEW WORK. THE CONTRACTOR SHALL NOTIFY THE OWNER CONSTRUCTION REPRESENTATIVE FOR REDIRECTION AS REQUIRED.

PROJECT NAME:
NEW HAVEN CDO - GENERATOR DESIGN

DET-24002045-A4

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exp U.S. Services Inc.
1-1 248.351.8200 | +1 248.351.8250
27777 Franklin Road
Suite 1510
Southfield, MI 48034
U.S.A.
www.exp.com

STATE OF MICHIGAN
5/13/23
RAYMOND S. BUHAY
ENGINEER
No. 6201064206
LICENSED PROFESSIONAL ENGINEER

REVISIONS / AUTHORIZATIONS

NO.	REVISIONS / AUTHORIZATIONS	DATE	BY
	PERMIT AND CONSTRUCTION	05/15/25	
	FINAL REVIEW #2	04/18/25	
	FINAL REVIEW	03/18/25	
	50% REVIEW	12/17/24	

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PROJECT DRAWING

59041 MAIN ST
NEW HAVEN
MI US
M18255

NWHNMIMM 111436.01 M18255

SHEET TITLE:
ABBR., SYMBOLS & NOTES ELECTRICAL

AT&T PROJECT NUMBER: 2001272
DATE: / / SCALE: N/A
DRAWN BY: SM CHECKED BY: PN/ND
SHEET: - OF: - SHEETS SHEET NO.
AT&T AUTHORIZATION: AIMEE BUTLER
AT&T DRAWING NO.: 2001272E00001
E00001

DE-POWERING GENERAL NOTES:

- A. ALL BUILDING DE-POWERING STICKERS (ON FLOORS, WALLS, BUILDING DOORS, ETC.) SHALL BE REMOVED. DO NOT REMOVE STICKERS ON ELECTRICAL, MECHANICAL, OR TELECOMMUNICATIONS EQUIPMENT. COORDINATE THE EXACT SCOPE OF WORK WITH THE OWNER'S CONSTRUCTION REPRESENTATIVE AND AT&T PROJECT MANAGER.

SITE PLAN GENERAL NOTES:

- A. REFER TO ARCHITECTURAL AND CIVIL SITE DRAWINGS FOR SITE INTERFERENCES, UTILITIES, ETC. HAND DIG IN AREAS WITH EXISTING UTILITIES TO AVOID INTERFERENCE. USE BELOW GRADE ELECTRONIC DETECTION METHODS WHERE NECESSARY TO LOCATE INTERFERENCES.
- B. COORDINATE EXACT TERMINATION LOCATION OF ELECTRIC SERVICE CONDUITS WITH RESPECTIVE UTILITY COMPANY PRIOR TO ANY INSTALLATION.
- C. USE EXTREME CAUTION WHEN WORKING IN AREAS WITH EXISTING UTILITIES. REVIEW SITE DRAWINGS INCLUDING CIVIL DRAWINGS AND THE OWNER'S RECORD DRAWINGS. HAND DIG WHERE UTILITY EXISTS.
- D. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.
- E. CONTRACTOR SHALL CONTACT ALL APPROPRIATE UTILITY COMPANIES PRIOR TO BEGINNING ANY CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ANY EXISTING UTILITIES (INCLUDING DEPTHS) WHICH MAY CONFLICT WITH THE PROPOSED CONSTRUCTION. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES AND UST FROM DAMAGE.
- F. ALL ITEMS SHOWN ON THE PLANS ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. THE ACTUAL LOCATION MAY VARY FROM THE PLANS, ESPECIALLY IN THE CASE OF UNDERGROUND UTILITIES. WHENEVER CONTRACTOR DISCOVERS A DISCREPANCY IN LOCATION, THEY SHALL CONTACT OWNER'S CONSTRUCTION REPRESENTATIVE, ARCHITECT/ENGINEER IMMEDIATELY.
- G. CONTRACTOR SHALL VERIFY THE LOCATION OF THE UTILITY POWER SOURCE WITH THAT SHOWN ON THE CONTRACT DOCUMENTS. IF ACTUAL LOCATION VARIES WITH THAT SHOWN ON DRAWINGS, THE CONTRACTOR SHALL CONTACT OWNER'S CONSTRUCTION REPRESENTATIVE.
- H. ALL CONDUITS INSTALLED BELOW GRADE SHALL BE A MINIMUM 42" BELOW GRADE TO TOP OF CONDUITS.
- I. REFER TO ONE LINE DIAGRAMS AND CIVIL DRAWINGS FOR ADDITIONAL REQUIREMENTS AND INFORMATION.
- J. ALL COST ASSOCIATED WITH UTILITY COMPANY EQUIPMENT, COORDINATION, INSTALLATION, ETC. SHALL BE INCLUDED IN THIS CONTRACTOR'S BID.
- K. COORDINATE ALL PHASING OF WORK WITH OWNER'S CONSTRUCTION REPRESENTATIVE AND OTHER TRADES. INCLUDE ALL COST IN BIDS.
- L. CONTACT JON NIXON, AT&T DAMAGE PREVENTION MANAGER AT OFFICE NUMBER: (616) 881-2268 OR EMAIL: JN3249@ATT.COM PRIOR TO ANY EXCAVATING, DRILLING, OR DIGGING AT ANY AT&T LOCATION. REFER TO GENERAL NOTES ON SHEET G00001 FOR ADDITIONAL INFORMATION.
- M. CONTRACTOR SHALL INCLUDE ALL DTE ENERGY COST IN BIDS.

KEY NOTES - DEMOLITION:

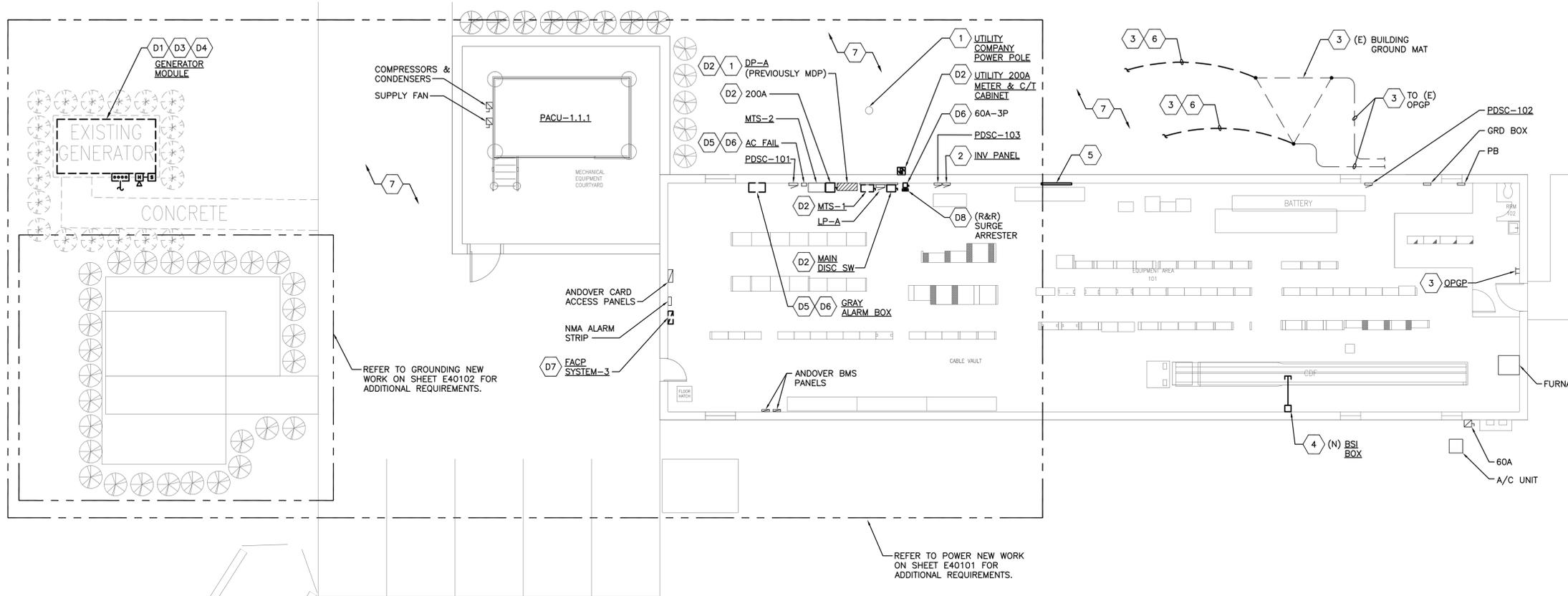
- 1. CONTRACTOR SHALL NOTIFY OWNERS CONSTRUCTION REPRESENTATIVE WHEN ALL EXISTING CONDUIT, WIRING, AND GROUNDING TO EXISTING GENSET EQUIPMENT HAS BEEN DE-ENERGIZED. AT&T POWER MAINTENANCE SHOP SHALL SALVAGE ANY EXISTING EQUIPMENT ASSOCIATED TO THE EXISTING GENERATOR AND MODULE. THE REMOVAL OF GENSET MODULE SHALL BE BY AT&T. REFER TO DEMOLITION ONE LINE DIAGRAM ON SHEET N60000D. FOR ADDITIONAL REQUIREMENTS.
- 2. DISCONNECT AND REMOVE. REFER TO DEMOLITION ONE LINE DIAGRAM ON SHEET N60000D FOR ADDITIONAL REQUIREMENTS.
- 3. DISCONNECT AND REMOVE EXISTING GENSET PULL BOX AND ALL CONDUCTORS BACK TO POWER SOURCE AND EXISTING CONTROL, ALARM, ETC. EQUIPMENT. REMOVE ALL CONDUCTORS, CUT CONDUIT 12" BELOW GRADE, AND ABANDON CONDUIT.
- 4. COORDINATE DEMOLITION OF EXISTING FIRE ALARM DEVICES IN GENSET MODULE AND DE-PROGRAMMING WITH SIEMENS REPRESENTATIVE PRIOR TO DEMOLITION OF MODULE. INCLUDE ALL COSTS IN BIDS AND COORDINATE WITH VANGUARD REPRESENTATIVE DAN WELLS (PHONE #616-490-3261).
- 5. TEMPORARILY RELOCATE GENSET ALARM BOX. COORDINATE RELOCATION AND REMOVAL WITH AT&T POWER MAINTENANCE SHOP. INCLUDE ALL COST IN BIDS.
- 6. DISCONNECT AND REMOVE EXISTING ELECTRICAL EQUIPMENT AND ASSOCIATED BOXES, SUPPORTS, DEVICES, CONDUIT, WIRING, ETC.
- 7. DISCONNECT, REMOVE, AND REPLACE EXISTING SYSTEM-3 FIRE ALARM PANEL. REFER TO 'D' SERIES DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- 8. DISCONNECT, REMOVE, AND RELOCATE EXISTING SURGE ARRESTER. REFER TO DEMOLITION ONE LINE DIAGRAM ON SHEET N60000D.

KEY NOTES - NEW WORK:

- 1. REFER TO NEW WORK ONE LINE DIAGRAM ON SHEET N60001 FOR ADDITIONAL REQUIREMENTS.
- 2. PROVIDE NEW 20A-1P, 120V CIRCUIT BREAKERS FOR NEW 120V CIRCUITS. MATCH EXISTING 20A-1P CIRCUIT BREAKERS IN PANEL.
- 3. REFER TO PARTIAL GROUNDING RISER, NOTES, AND DETAILS ON SHEET E60001 AND E60002 FOR ADDITIONAL REQUIREMENTS.
- 4. REFER TO DETAILS AND WIRING DIAGRAM ON SHEET E60003 AND E60005 FOR ADDITIONAL REQUIREMENTS.
- 5. PROVIDE 24"x36" FRAME WITH PROJECT "AS-BUILT" ONE LINE DIAGRAM.
- 6. NEW GROUND CONDUCTOR TO NEW GENSET GROUND MAT.
- 7. REFER TO SITE PLAN GENERAL NOTES ON THIS SHEET.

GENERAL NOTES:

- A. ALL ELECTRICAL EQUIPMENT SHOWN ON THE FLOOR PLAN IS EXISTING UNLESS NOTED OTHERWISE.
- B. EXISTING EQUIPMENT SHOWN MAY NOT REFLECT EXISTING CONDITIONS. CONTRACTOR SHALL FIELD VERIFY EXISTING EQUIPMENT NOMENCLATURE AND LOCATION PRIOR TO DOING ANY BIDDING OR MAKING ANY MODIFICATION TO THE SYSTEM. NOTE FINAL EQUIPMENT NOMENCLATURE ON AS-BUILTS.
- C. EXP ASSUMED THAT ALL EXISTING TO REMAIN EQUIPMENT AND ITS INSTALLATION ARE CODE COMPLIANT. CONTRACTOR SHALL NOTIFY IMMEDIATELY OWNER'S CONSTRUCTION REPRESENTATIVE OF ANY DISCREPANCIES FOUND DURING CONSTRUCTION.
- D. COORDINATE ALL DEMOLITION AND NEW WORK WITH THE OWNER'S CONSTRUCTION REPRESENTATIVE. SUBMIT A PROJECT PHASING SCHEDULE TO OWNER'S CONSTRUCTION REPRESENTATIVE FOR REVIEW AND APPROVAL.
- E. COORDINATE ALL PLANNED POWER SHUTDOWNS TO THE EXISTING POWER DISTRIBUTION SYSTEM WITH THE OWNER'S CONSTRUCTION REPRESENTATIVE. SUBMIT SHUTDOWN SCHEDULE TO OWNER'S CONSTRUCTION REPRESENTATIVE FOR REVIEW AND APPROVAL WITH MINIMUM (2) WEEKS IN ADVANCE.
- F. INCLUDE ALL COST OF ALL REQUIRED PLANNED POWER SHUTDOWNS AND COORDINATION WITH POWER UTILITY COMPANY, AS REQUIRED.
- G. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL EQUIPMENT AND EQUIPMENT INSTALLATION REQUIREMENTS.
- H. INSTALL EQUIPMENT PER MANUFACTURER RECOMMENDATIONS AND CODE REQUIREMENTS.
- I. CIRCUIT NUMBER INDICATED ON PLAN MAY NOT INDICATE ACTUAL CIRCUIT BREAKER POLE POSITION IN PANEL, BUT RATHER INDICATED ITEMS GROUPED ON THE SAME CIRCUIT.
- J. CONTRACTOR SHALL PATCH AND PAINT (TO MATCH EXISTING) ALL AREAS AFFECTED BY DEMOLITION AND NEW WORK. COORDINATE REQUIREMENTS WITH OWNER'S CONSTRUCTION REPRESENTATIVE AND ARCHITECTURAL TRADES.
- K. ALL CONDUITS SHALL BE MOUNTED AND INSTALLED TIGHT TO CEILING.
- L. ALL EMPTY CONDUITS SHALL HAVE A PULL WIRE AND TAGGED AT EACH END INDICATING SOURCE OR ITEM.
- M. ALL EXTERIOR CONDUITS BELOW AND ABOVE GRADE SHALL BE RIGID GALVANIZED STEEL CONDUIT UNLESS NOTED OTHERWISE.
- N. PROVIDE P-TOUCH LABELS ON ALL WIRING DEVICES, JUNCTION BOXES, AND PULL BOXES INDICATING ITEM BEING SERVED AND WHERE ITS FED FROM.



1 FIRST FLOOR PLAN - DEMOLITION AND NEW WORK
1/8" = 1'-0"



CAUTION:
HAND DIG AND LOCATE ALL EXISTING UNDERGROUND INCOMING UTILITIES, GROUND MAT, POWER, GENSET, TELEPHONE, CONDUITS, ETC. PRIOR TO ANY WORK. REFER TO GENERAL SITE NOTES ON THIS SHEET AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.

TAG	SYMBOL	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMPS	VOLTS	COMMENTS
"LA"	[Symbol]	WRAP AROUND LED LUMINAIRE PENDANT MOUNTED 10'-0" AFF TO BOTTOM OF LUMINAIRE	LITHONIA OR EQUAL BY COOPER LIGHTING	LBL4-LP840 -MVOLT	LED	MVOLT	HIGH-EFFICIENCY DRIVERS, LED 4000K, 50 WATT CAPACITY

NOTES:
CONTRACTOR SHALL FIELD VERIFY EXACT LUMINAIRE VOLTAGE REQUIREMENTS PRIOR TO ORDERING ANY LUMINAIRES.

PROJECT NAME:
NEW HAVEN CDO - GENERATOR DESIGN

DET-24002045-A4

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1-1 248 351 8200 | 1-1 248 351 8250
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PROJECT DRAWING
01
59041 MAIN ST
NEW HAVEN
MI US
NWHNMIM 111436.01.01 M18255

SHEET TITLE:
FIRST FLOOR PLAN - DEMO & NW ELECTRICAL

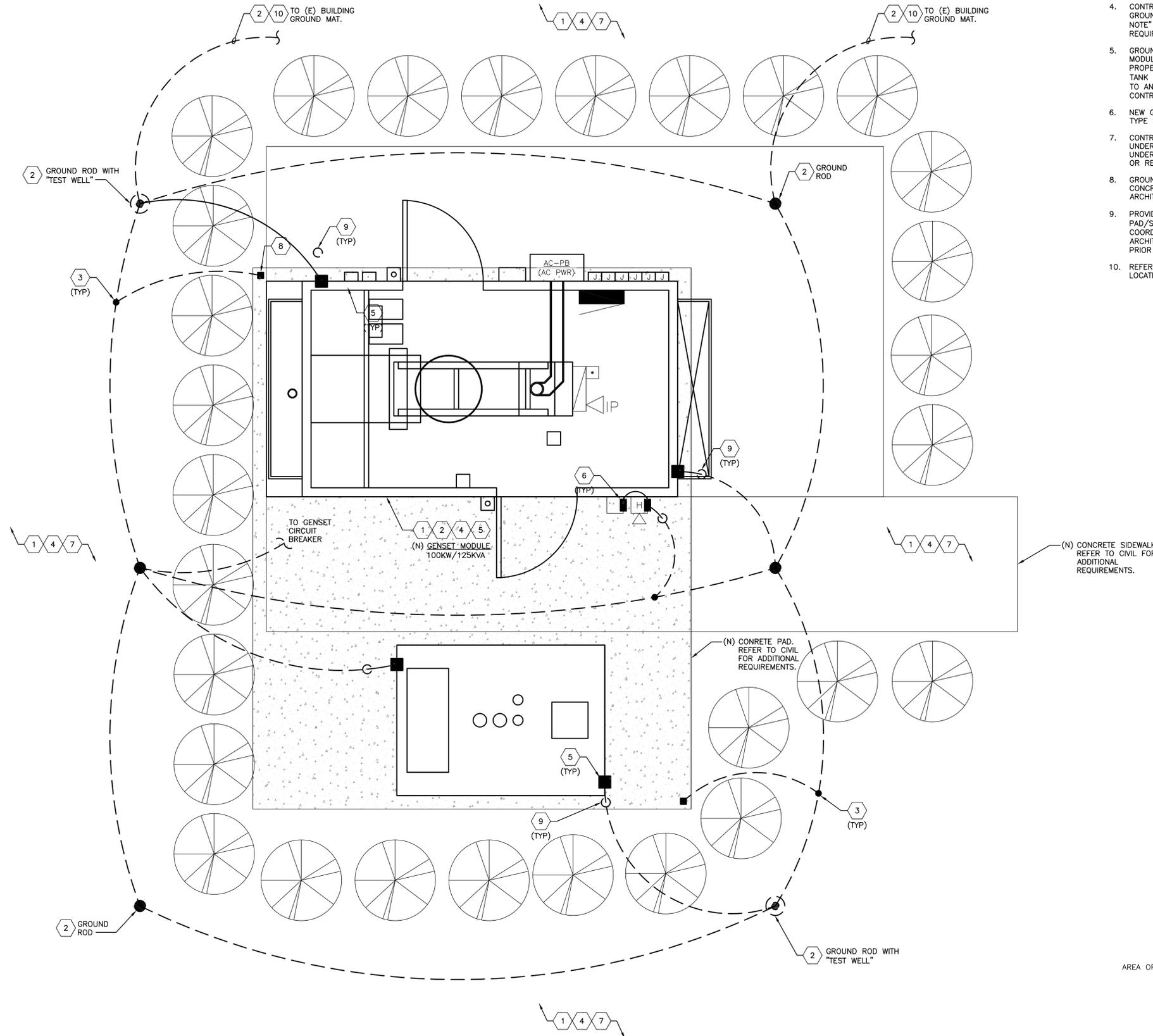
AT&T PROJECT NUMBER: 2001272
DATE: [Blank] SCALE: 1/8" = 1'-0"
DRAWN BY: SM CHECKED BY: PN/ND
SHEET: - OF: - SHEETS SHEET NO.
AT&T AUTHORIZATION: AIMEE BUTLER AT&T DRAWING NO.: 2001272E10101 E10101

X KEY NOTES - NEW WORK:

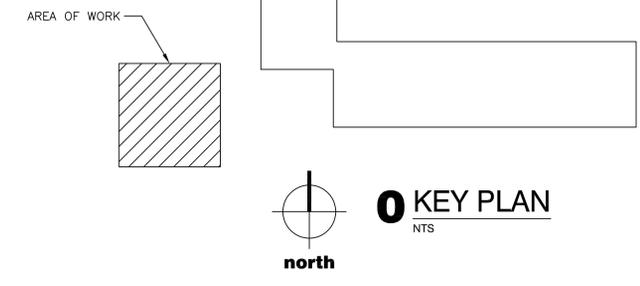
- REFER TO GENERAL SITE PLAN NOTES ON SHEET E40102 FOR ADDITIONAL REQUIREMENTS.
- REFER TO PARTIAL GROUNDING RISER, NOTES, AND DETAILS ON SHEET E60001 AND E60002 FOR ADDITIONAL REQUIREMENTS.
- NEW "T" EXOTHERMIC WELD CONNECTION.
- CONTRACTOR SHALL FIELD LOCATE ALL UNDERGROUND CONDUITS, GROUNDING, ETC. PRIOR TO ANY WORK. REFER TO "CAUTION BOX-IN NOTE" AND "GENERAL SITE PLAN NOTES" ON THIS SHEET FOR ADDITIONAL REQUIREMENTS.
- GROUNDING CONNECTION SHALL BE EXOTHERMIC TYPE WELD TO GENSET MODULE AND AST SUPPORT STEEL. PREPARE EQUIPMENT SURFACE FOR PROPER GROUNDING CONNECTION. CAUTION: "DO NOT WELD" WITH FUEL IN TANK AND/OR ANY ENERGIZED (POWER) EQUIPMENT (DE-ENERGIZED PRIOR TO ANY WORK). COORDINATE EXACT REQUIREMENTS WITH GENSET CONTRACTOR AND FUEL CONTRACTOR PRIOR TO ANY WORK.
- NEW GROUNDING CONNECTION SHALL BE 2-HOLE CRIMP COMPRESSION TYPE STAINLESS STEEL BOLT TONGUE LONG BARREL CONNECTORS.
- CONTRACTOR SHALL FIELD TRACE AND LOCATE EXISTING INCOMING UNDERGROUND SERVICES, GROUNDING TEST WELLS, GROUND MAT, AND ALL UNDERGROUND GROUNDING CONDUCTORS PRIOR TO INSTALL OF ANY NEW OR RELOCATED EQUIPMENT.
- GROUNDING CONNECTION SHALL BE EXOTHERMIC TYPE WELD TO NEW CONCRETE PAD REBAR. COORDINATE EXACT REQUIREMENTS WITH CIVIL AND ARCHITECTURAL TRADES.
- PROVIDE 3/4" PVC SCHEDULE 40 SLEEVE STUB-UP THROUGH CONCRETE PAD/SIDEWALK FOR GROUNDING CONDUCTOR. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH CIVIL AND ARCHITECTURAL TRADES, AND OWNER'S CONSTRUCTION REPRESENTATIVE PRIOR TO POURING CONCRETE.
- REFER TO SHEET E10101 FOR APPROXIMATE BUILDING GROUND MAT LOCATION AND ADDITIONAL REQUIREMENTS.

GENERAL NOTES:

- ALL ELECTRICAL EQUIPMENT SHOWN ON THE FLOOR PLAN IS NEW UNLESS NOTED OTHERWISE.
- EXISTING EQUIPMENT SHOWN MAY NOT REFLECT EXISTING CONDITIONS. CONTRACTOR SHALL FIELD VERIFY EXISTING EQUIPMENT NOMENCLATURE AND LOCATION PRIOR TO DOING ANY BIDDING OR MAKING ANY MODIFICATION TO THE SYSTEM. NOTE FINAL EQUIPMENT NOMENCLATURE ON AS-BUILTS.
- EXP ASSUMED THAT ALL EXISTING TO REMAIN EQUIPMENT AND ITS INSTALLATION ARE CODE COMPLIANT. CONTRACTOR SHALL NOTIFY IMMEDIATELY OWNER'S CONSTRUCTION REPRESENTATIVE OF ANY DISCREPANCIES FOUND DURING CONSTRUCTION.
- COORDINATE ALL DEMOLITION AND NEW WORK WITH THE OWNER'S CONSTRUCTION REPRESENTATIVE. SUBMIT A PROJECT PHASING SCHEDULE TO OWNER'S CONSTRUCTION REPRESENTATIVE FOR REVIEW AND APPROVAL.
- COORDINATE ALL PLANNED POWER SHUTDOWNS TO THE EXISTING POWER DISTRIBUTION SYSTEM WITH THE OWNER'S CONSTRUCTION REPRESENTATIVE. SUBMIT SHUTDOWN SCHEDULE TO OWNER'S CONSTRUCTION REPRESENTATIVE FOR REVIEW AND APPROVAL WITH MINIMUM (2) WEEKS IN ADVANCE.
- INCLUDE ALL COST OF ALL REQUIRED PLANNED POWER SHUTDOWNS AND COORDINATION WITH POWER UTILITY COMPANY, AS REQUIRED.
- REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL EQUIPMENT AND EQUIPMENT INSTALLATION REQUIREMENTS.
- INSTALL EQUIPMENT PER MANUFACTURER RECOMMENDATIONS AND CODE REQUIREMENTS.
- CIRCUIT NUMBER INDICATED ON PLAN MAY NOT INDICATE ACTUAL CIRCUIT BREAKER POLE POSITION IN PANEL, BUT RATHER INDICATED ITEMS GROUPED ON THE SAME CIRCUIT.
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- ALL CONDUITS SHALL BE MOUNTED AND INSTALLED TIGHT TO CEILING.
- ALL EMPTY CONDUITS SHALL HAVE A PULL WIRE AND TAGGED AT EACH END INDICATING SOURCE OR ITEM.
- ALL EXTERIOR CONDUITS BELOW AND ABOVE GRADE SHALL BE RIGID GALVANIZED STEEL CONDUIT.
- PROVIDE P-TOUCH LABELS ON ALL JUNCTION BOXES AND PULL BOXES INDICATING ITEM BEING SERVED.



CAUTION:
HAND DIG AND LOCATE ALL EXISTING UNDERGROUND INCOMING UTILITIES, GROUND MAT, POWER, GENSET, TELEPHONE, CONDUITS, ETC. PRIOR TO ANY WORK. REFER TO GENERAL SITE NOTES ON THIS SHEET AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.



1 PARTIAL FIRST FLOOR PLAN - GROUNDING - NEW WORK
1/2" = 1'-0"
north

PROJECT NAME:
NEW HAVEN CDO - GENERATOR DESIGN

DET-24002045-A4

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REVISIONS / AUTHORIZATIONS

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	FINAL REVIEW	03/18/25	
	50% REVIEW	12/17/24	

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PROJECT_DRAWING
01
59041 MAIN ST
NEW HAVEN
MI US
NWHNMIMM 111436.01.01 M18255

SHEET TITLE:
PART. FIRST FLOOR PLAN - GRD - NW ELECTRICAL

AT&T PROJECT NUMBER: 2001272	DATE:	SCALE: 1/2" = 1'-0"
AT&T AUTHORIZATION: AIMEE BUTLER	DRAWN BY: SM	CHECKED BY: PN/ND
	SHEET: - OF: - SHEETS	SHEET NO.
	AT&T DRAWING NO.: 2001272E40102	E40102

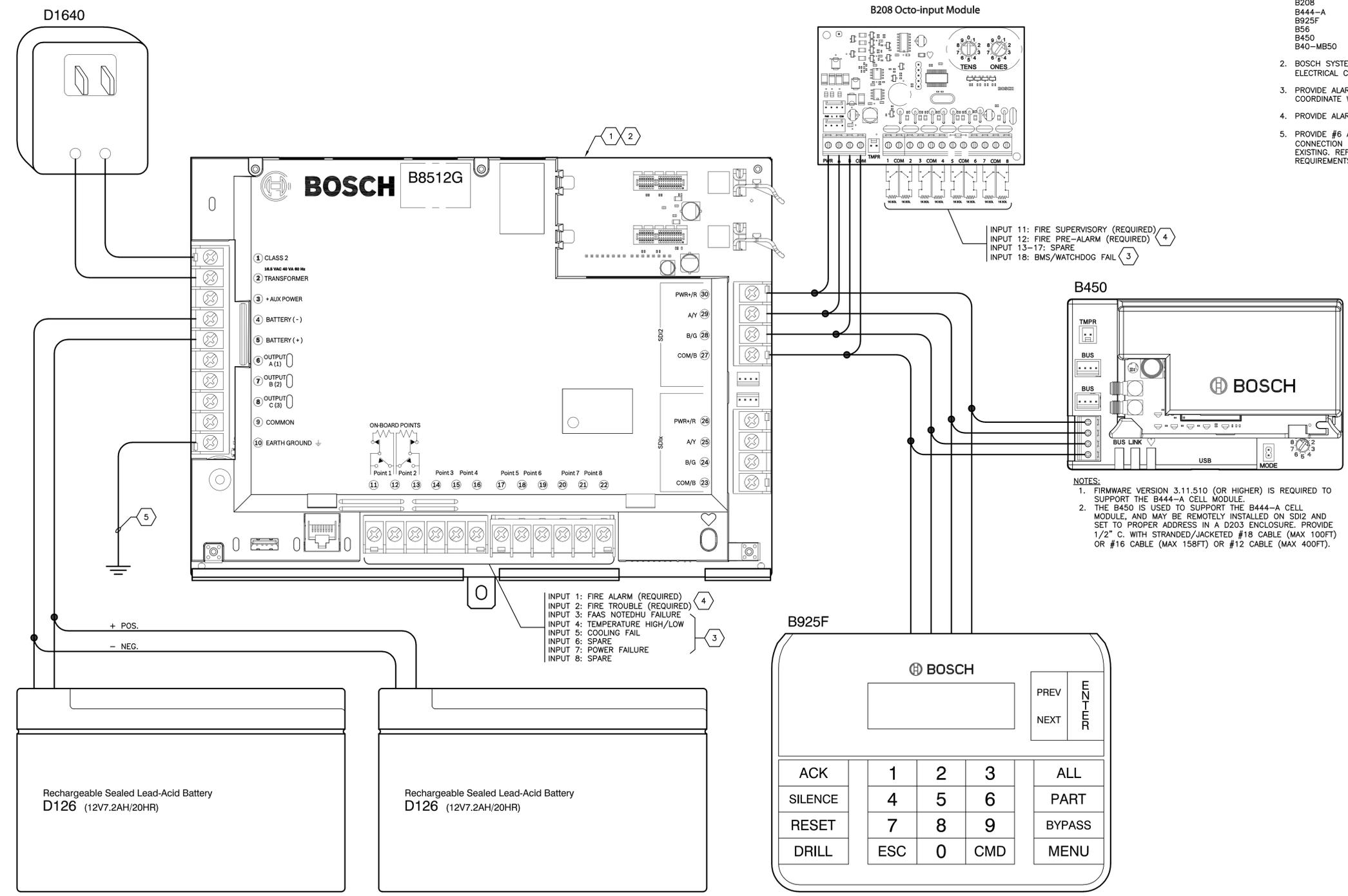
GENERAL NOTES:

- CONTACT TERRY FREDRICKSON FOR BOSCH SYSTEM ORDERING INFORMATION, TERRY.FREDRICKSON@US.BOSCH.COM

DETAIL-1 KEY NOTES:

- BOSCH SYSTEM AND ALL ACCESSORIES PROVIDED BY ELECTRICAL CONTRACTOR. PROVIDE THE FOLLOWING COMPONENTS FOR A COMPLETE BOSCH SYSTEM:

PART NO.	DESCRIPTION
B8512G	MAIN PANEL-B8512G
D8109	FIRE ENCLOSURE, RED (UL APPROVED)
D8004	TRANSFORMER ENCLOSURE KIT (UL APPROVED)
D1640	TRANSFORMER PLUG-IN, 16 VAC 40 VA
D122L	DUAL BATTERY HARNESS, 35", 12V
D126	BATTERY, 12V 7AH
ICP-1K22AWG-10	END OF LINE RESISTOR, 1K OHM 22AWG (10 PK)
D167	EARTH GROUND CLAMP
B208	8-INPUT EXPANSION MODULE
B444-A	PLUG-IN CELL MODULE, AMEC LTE (NO-SIM-CARD)
B925F	FIRE AND INTRUSION KEYPAD, SD12
B56	KEYPAD SURFACE MOUNT BOX
B450	PLUG-IN COMMUNICATOR INTERFACE
B40-MB50	OUTDOOR MULTIBAND ANTENNA, CELL, 50FT.
- BOSCH SYSTEM SHALL BE PROGRAMMED AT SITE BY BOSCH CERTIFIED INSTALLER. ELECTRICAL CONTRACTOR TO COORDINATE WITH EAMC/BASC ALARMING CENTER.
- PROVIDE ALARM AND EXTEND FROM TEMPERATURE CONTROL PANEL TO NEW BOSCH PANEL. COORDINATE WITH TEMPERATURE CONTROLS VENDOR.
- PROVIDE ALARM AND EXTEND FROM FACP PANEL TO NEW BOSCH PANEL.
- PROVIDE #6 AWG GREEN INSULATED, COPPER STRANDED, RHH-L3 GROUND CONDUCTOR CONNECTION FROM BOSCH PANEL TO "OPGP". TERMINATION AT GROUND BAR SHALL MATCH EXISTING. REFER TO GENERAL GROUNDING NOTES ON SHEET E60003 FOR ADDITIONAL REQUIREMENTS.



PROJECT NAME:
NEW HAVEN CDO - GENERATOR DESIGN

DET-24002045-A4

CONSULTANT STAMP

STATE OF MICHIGAN
5/13/23
RAYMOND S. BUHAY
ENGINEER
No. 6201064206
LICENSED PROFESSIONAL ENGINEER

exp U.S. Services Inc.
1-1 248.351.8200 | 1-1 248.351.8250
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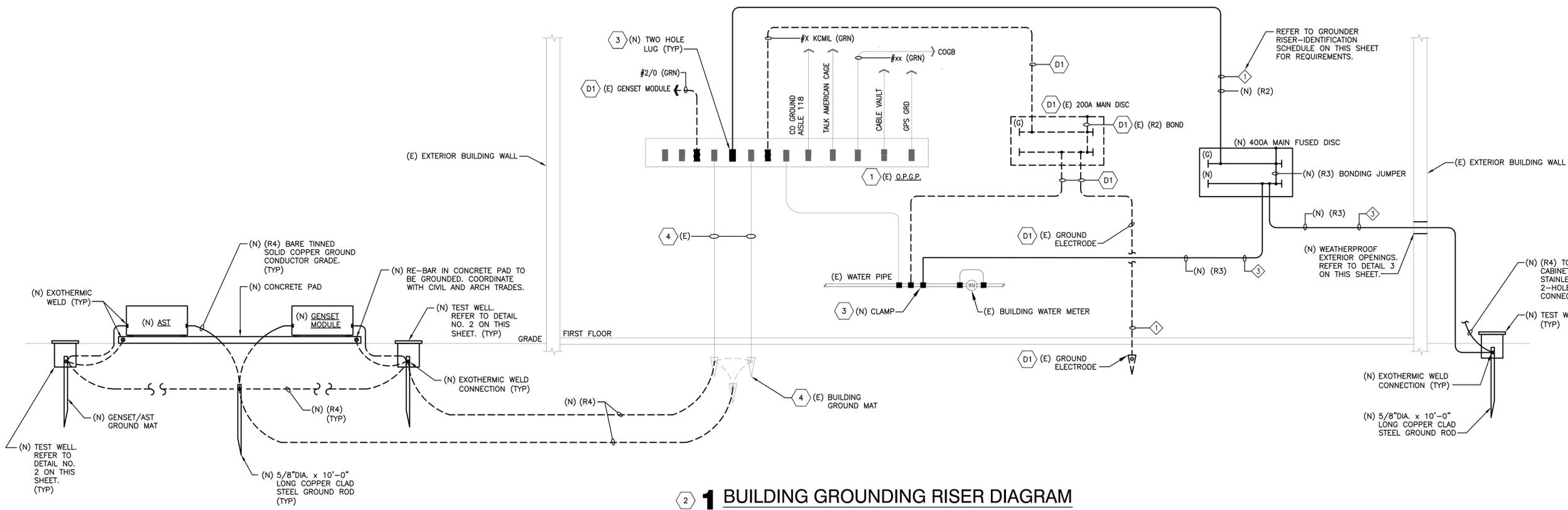
59041 MAIN ST
NEW HAVEN
MI US
NWJHMIMM 111436.01 M18255

SHEET TITLE:
**BOSCH PANEL DETAILS
ELECTRICAL**

AT&T PROJECT NUMBER: 2001272	DATE: SM	SCALE: N/A
AT&T AUTHORIZATION: AIMEE BUTLER	CHECKED BY: PN/ND	SHEET NO. E50001

1 BOSCH PANEL DETAIL
NOT TO SCALE

L:\01\15-2025\170400 (WREF) E:\DET\24002045-AA\60 Execution\65 Drawings\Common Content\M182551TB.dwg



1 BUILDING GROUNDING RISER DIAGRAM

NTS
 NOTES:
 1. ALL NEW GROUNDING CONDUCTORS ON THIS DIAGRAM SHALL BE STRANDED, GREEN INSULATED TYPE "RH-H-L3" UNLESS OTHERWISE NOTED.

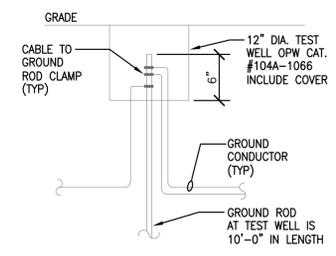
GROUND WIRE LEGEND

R1 - 500 KCMIL, CU. STRANDED, GREEN INSULATED
 R2 - #4/0 AWG, CU. STRANDED, GREEN INSULATED
 R3 - #1/0 AWG, CU. STRANDED, GREEN INSULATED
 R4 - #2 AWG, CU., SOLID, BARE, TIN PLATED
 R5 - #2 AWG, CU., STRANDED, GREEN INSULATED
 R6 - #750KCMIL, CU., STRANDED, GREEN INSULATED
 R7 - #6 AWG, CU, BARE STRANDED

TAG ID NO.	MATERIAL	TAG SIZE	LETTER SIZE	DESCRIPTION AT O.P.G.P.	DESCRIPTION AT TERMINATION
1	BRASS - 18 GAUGE	1 1/2" DIA	MIN 1/8"	MAIN DISC. SW	O.P.G.P.
2	BRASS - 18 GAUGE	1 1/2" DIA	MIN 1/8"	"WATER PIPE"	O.P.G.P.
3	BRASS - 18 GAUGE	1 1/2" DIA	MIN 1/8"	DES @ MAIN DISC. SW "GRD ROD"	MAIN DISC. SW
4	BRASS - 18 GAUGE	1 1/2" DIA	MIN 1/8"		
5	BRASS - 18 GAUGE	1 1/2" DIA	MIN 1/8"		
6	BRASS - 18 GAUGE	1 1/2" DIA	MIN 1/8"		
7					

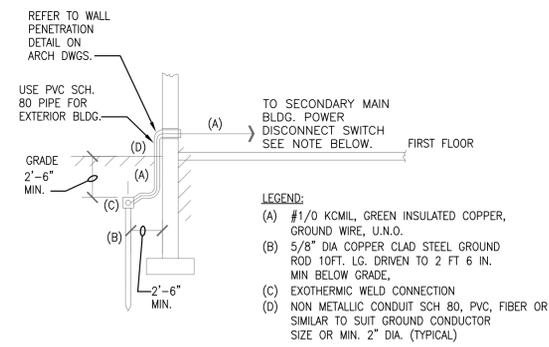
C.O. GROUND RISER-IDENTIFICATION SCHEDULE

NTS



2 NEW TEST WELL

NTS



3 GROUND CONDUCTOR ENTRANCE

NTS

NOTE:
 SIMILAR FOR NEW GROUND MAT GROUNDING EXCEPT LEGEND ITEM (A) SHALL BE #2 AWG, CU, SOLID BARE TINNED WHEN SHOWN (TYPICAL)

GENERAL NOTES:

- A. ALL GROUNDING EQUIPMENT AND CONDUCTORS ON THIS SHEET ARE EXISTING UNLESS NOTED OTHERWISE.
- B. REFER TO GENERAL GROUNDING NOTES AND DETAILS ON SHEET E60002 FOR ADDITIONAL REQUIREMENTS.
- C. REFER TO GROUNDING SPECIFICATIONS SECTION 260526 FOR ADDITIONAL REQUIREMENTS. SUBMIT TEST REPORT FOR REVIEW.

KEY NOTES - DEMO WORK:

- 1. DISCONNECT AND REMOVE AFTER NEW EQUIPMENT IS TESTED AND ENERGIZED.

KEY NOTES - NEW WORK:

- 1. FIELD VERIFY EXACT LOCATION PRIOR TO BIDDING.
- 2. REFER TO TYPICAL GROUNDING NOTES AND DETAILS ON THIS SHEET AND SHEET E60002.
- 3. REFER TO DETAILS ON SHEET E60002.
- 4. CONTRACTOR SHALL FIELD TRACE AND LOCATE EXISTING BUILDING GROUND MAT PRIOR TO BIDDING.

PROJECT NAME:
 NEW HAVEN CDO - GENERATOR DESIGN
 DET-24002045-A4

CONSULTANT STAMP
 STATE OF MICHIGAN
 5/13/23
 RAYMOND S. BUHAY
 ENGINEER
 No. 6201064206
 LICENSED PROFESSIONAL ENGINEER

exp U.S. Services Inc.
 (+1 248 351 8200) (+1 248 351 8250)
 27777 Franklin Road
 Suite 1510
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	50% REVIEW	12/17/24	

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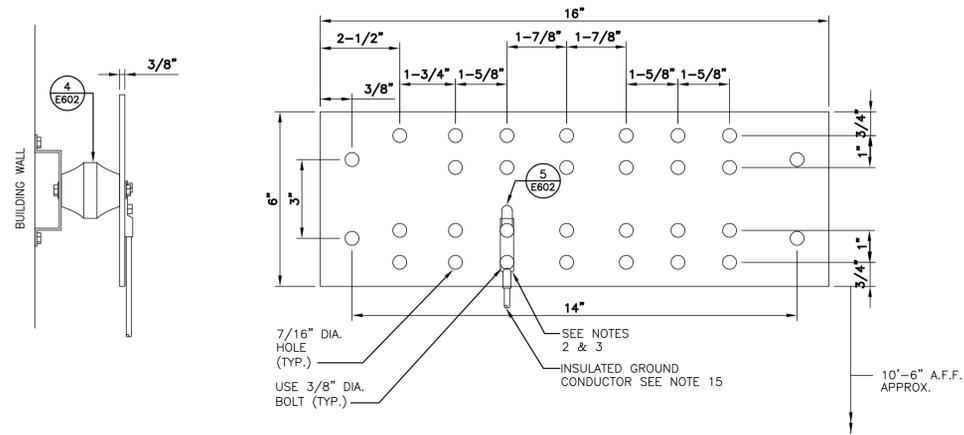
AT&T CORPORATE REAL ESTATE
 PROJECT_DRAWING

59041 MAIN ST
 NEW HAVEN
 MI US
 NWNNMIMM 111436.01 M18255

SHEET TITLE:
 GROUNDING RISER & DETAILS ELECTRICAL

AT&T PROJECT NUMBER: 2001272
 DATE: SCALE: N/A
 DRAWN BY: SM CHECKED BY: PN/ND
 SHEET: - OF: - SHEETS
 AT&T AUTHORIZATION: AIMEE BUTLER AT&T DRAWING NO.: 2001272E60001 SHEET NO.: E60001

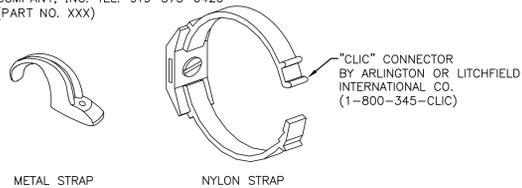
L:\C\15-2025-17\05-14 (WREF) E:\DET\24002045-AA\60 Execution\65 Drawings\Common Content\W182551TB.dwg
 05-15-2025 17:05:14 (WREF) E:\DET\24002045-AA\60 Execution\65 Drawings\Common Content\W182551TB.dwg



1 EXISTING O.P.G.P. GROUND BAR
NTS

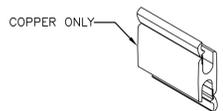
REQD	PART NO.	DESCRIPTION
1	XXX	GROUND BAR
2	2103890010	WALL MTG. BRKT.
2	3061-4	INSULATORS*
4	3012-1	5/8-11 X 1 HHCS
4	3015-8	LOCKWASHERS-5/8"

MANUFACTURER: NEWTON INSTRUMENTS COMPANY, INC. TEL: 919-575-6426 (PART NO. XXX)



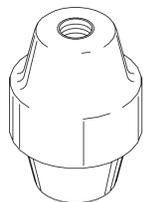
SEE NOTE 5 FOR ADDITIONAL REQUIREMENTS

2 STRAPS
NTS



T & B CAT. NO. CHT750350-2 FOR 750 MCM OR EQUAL BY "BURNDY" WITH CLEAR COVER.

3 COMPRESSION H-TAP
NTS



GLASTIC CAT. #1872-3E CENTER-POST INSULATORS
NOTE: CALL GLASTIC CORPORATION (216-486-0100) FOR LOCAL DISTRIBUTOR.

4 GROUND INSULATOR
NTS

SPECIFICATION - Verification of CO Earth 'Grounds' (TEST FORM)

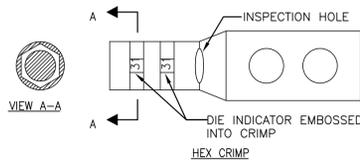
Location: _____
Address: _____

Verification of O.P.G.P. ground bar connection to earth ground - choose one of items 1 through 4 listed below that is applicable for this location.

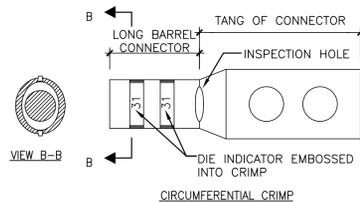
- WATER PIPE
 - Determine outer diameter _____ and composition _____
 - Water meter is jumpered _____ (y,n,nr), what size composition _____ of jumper.
 - Determine resistance using FALL OF POTENTIAL METHOD _____ OHMS.
 - Approximate horizontal length to water main or well head _____ number of feet.
- DRIVEN GROUND ROD SYSTEM, GROUND RING OR GROUND MAT.
 - Wire size _____, composition _____, solid wire _____
 - Determine resistance using FALL OF POTENTIAL METHOD _____ OHMS.
- PRIVATE WELL CASING (verify physically)
 - Determine water pipe outer diameter _____ and composition _____. NOTE: If water pipe is copper go on to 'b' below.
 - Determine resistance using FALL OF POTENTIAL METHOD _____ OHMS.
 - Approximate horizontal length of water pipe to well head. _____ number of feet.
- OTHER (comment in detail)

5. MAIL COMPLETED TEST FORM IN DUPLICATE FOR APPROVAL TO:

OWNER'S CONSTRUCTION REPRESENTATIVE
(SEE SPECIFICATION COVER SHEET FOR NAME AND ADDRESS)

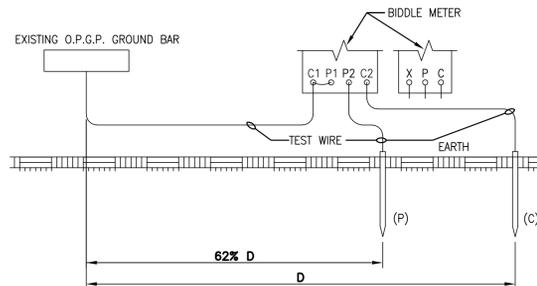


AFTER CRIMPING, ALL FLASHES, BURRS, OR SHARP EDGES RESULTING FROM THE CRIMPING PROCESS MUST BE REMOVED.



5 TWO HOLE CRIMP COPPER CONNECTION
NTS

NOTE: PROVIDE CLEAR SINK WRAP COVERS



LEGEND

- (C) - CURRENT REFERENCE GROUND ROD
 - (P) - POTENTIAL REFERENCE GROUND ROD
 - (D) - RECOMMENDED DISTANCE OF CURRENT REFERENCE GROUND ROD FROM O.P.G.P.:
- FOR SINGLE EARTH ELECTRODE/WATER PIPE
D = 50 TO 60 FEET

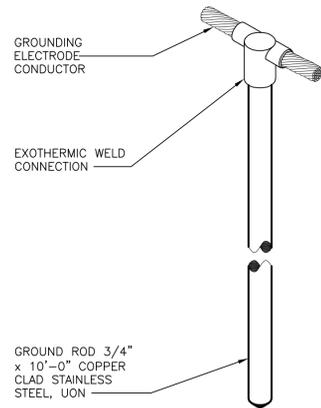
NOTES:

- COORDINATE TESTING TWO WEEKS IN ADVANCE WITH THE OWNER'S CONSTRUCTION REPRESENTATIVE.

6 FALL-OF-POTENTIAL
NTS

GENERAL GROUNDING NOTES:

- COORDINATE ALL WORK RELATED TO COPPER GROUND RISER WITH THE OWNER'S REPRESENTATIVE.
- NO COLDWELDING IS PERMITTED IN AREAS WITH EXISTING TELEPHONE EQUIPMENT, AND OTHER AREAS INSIDE THE BUILDING.
- TWO HOLE BARREL, BOLTED TYPE HYDRAULIC DOUBLE INDENT COPPER COMPRESSION POSSIBLE. CONNECTOR SHALL BE BURNDY OR EQUAL BY T&B. ALL COMPRESSION CONNECTORS (FOR CABLE SIZES NO. 1/0 AWG AND LARGER) SHALL EMPLOY HEX OR CIRCUMFERENTIAL - TYPE CRIMPS, AND THE CRIMPS SHALL EMBOSS AN INDICATOR OF THE DIE USED TO MAKE THE CRIMP. USE TWO-HOLE CRIMPED CONNECTORS FOR BONDING AND GROUNDING CONNECTIONS ON CONDUCTORS LARGER THAN # 8 AWG. ALL COMPRESSION CONNECTORS (FOR CABLE SIZES NO. 1/0 AWG AND LARGER) WILL HAVE AN INSPECTION HOLE BETWEEN THE TANG AND BARREL OF THE CONNECTOR BEFORE THE CRIMPS ARE MADE.
- ALL GROUNDING CONNECTIONS SHALL BE MADE IN THE PRESENCE OF OWNER'S CONSTRUCTION REPRESENTATIVE. REMOVE AFTER CRIMPING, ALL FLASHES, BURRS, OR SHARP EDGES RESULTING FROM THE CRIMPING PROCESS.
- PLASTIC OR METALLIC STRAPS SHALL BE USED TO SECURE GROUND CONDUCTOR EVERY 18" HORIZONTALLY AND 9" VERTICALLY TO THE BUILDING COLUMNS, CEILINGS OR WALLS. IF METALLIC STRAPS ARE USED THEY MUST BE OF THE TYPE WHICH DOES NOT COMPLETELY ENIRCLE THE CONDUCTOR. DO NOT USE EXISTING CONDUIT, CABLE TRAY OR ANY OTHER EXISTING MECHANICAL DUCT TO SECURE GROUND CONDUCTOR. REFER TO STRAP DETAILS ON THIS SHEET FOR EXACT REQUIREMENTS.
- ALL GROUNDING CONDUCTORS WITHIN THE BUILDING SHALL BE INSULATED GREEN COLOR, COPPER, RHH-L3 SIZE AS NOTED, UNLESS INDICATED OTHERWISE ON THE FLOOR PLAN DRAWING. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. SUBMIT CUT SHEET FOR REVIEW.
- ALL CRIMP CONNECTIONS SHALL BE COATED WITH A CORROSION PREVENTATIVE COMPOUND "GREASE NON-OXIDE" AS MANUFACTURED BY: YJASA EXIDE, CALL 1-630-920-4440 FOR LOCAL DISTRIBUTOR.
- ALL GROUNDING CONDUCTORS SHALL BE RUN EXPOSED WITHIN THE BUILDING WHENEVER PRACTICAL. CONDUCTORS SHOULD NOT BE RUN CONCEALED IN SLABS, COLUMNS, OR WALLS. USE PVC SLEEVES WHERE GROUND CONDUCTOR PENETRATES WALLS OR FLOOR SLABS.
- PACK OPENINGS AROUND GROUND CONDUCTOR PENETRATIONS OF FLOOR SLABS OR WALLS WITH FIRE RETARDANT MATERIAL. REFER TO PENETRATION DETAILS ON ARCHITECTURAL DRAWINGS AND SPECIFICATION.
- PROVIDE NEW TELEDYNE PENN-UNION TYPE GPL BRONZE GROUND CLAMP OR EQUAL BY BURNDY FOR NEW GROUND CONDUCTOR FOR CONNECTIONS TO SUIT EXISTING WATER PIPE. NEW GROUND CONDUCTOR SHALL BE CONNECTED AHEAD OF WATER METER ON INCOMING MAIN CITY WATER PIPE, WHERE APPLICABLE. REFER TO DETAIL 6.
- ALL GROUND CONDUCTOR CONNECTIONS TO ELECTRICAL EQUIPMENT SHALL BE MADE IN ACCORDANCE WITH THE "NATIONAL ELECTRIC CODE" 2023 EDITION.
- PROVIDE GROUND CONDUCTOR AT MAIN WATER PIPE TERMINATION POINT, "DO NOT DISCONNECT" WITH BRASS TAG.
- FOR CABLE TO CABLE CONNECTION, USE HYDRAULIC COPPER COMPRESSION TYPE H-TAP CONNECTOR. T&B CATALOG #CHT750350-2 OR EQUAL BY BURNDY. REFER TO DETAIL 3.
- ALL BENDS ON GROUND CONDUCTOR SHALL HAVE A MINIMUM RADIUS OF 1 FOOT, UNLESS NOTED OTHERWISE.
- ALL GROUND CONDUCTORS FOR CO GROUND RISER AND RELATED INSTALLATION SHALL BE GREEN INSULATED AND PURCHASED FROM SOUTHWIRE RHH-L3 (800) 444-1700 OR (513) 228-1010, OR AMERICAN INSULATED WIRE COMPANY, UNLESS OTHERWISE NOTED.
- COORDINATE ANY REMOVAL OF GROUNDING CONDUCTORS WITH OWNER'S CONSTRUCTION REPRESENTATIVE PRIOR TO ANY REMOVAL. ALL EXISTING GROUND CONNECTORS SHALL REMAIN UNTIL NEW GROUNDING AND THE RELATED NEW INSTALLATION WORK IS COMPLETED, TESTED, AND OPERATIONAL.
- PROVIDE TAGS ON ALL GROUNDING CONDUCTOR TERMINATION POINTS WITH "DO NOT DISCONNECT" LABELS. ALL TAGS AT GROUND BAR TERMINATIONS SHALL BE SECURED WITH CORD; TIE WRAPS SHALL NOT BE USED. SEE GROUND CONDUCTOR TERMINATION SCHEDULE ON SHEET E60001 FOR DETAILS.
- NEW GROUNDING CONNECTION SHALL BE WITH 2-HOLE CRIMP COMPRESSION TYPE BOLTED TONGUE LONG BARREL CONNECTOR, TIN PLATED COPPER AND SHALL BE LISTED FOR THEIR INTENDED USE BY AN NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL). HARDWARE KIT SHALL BE WEATHER RESISTED SILICON BRONZE, 3/8" HEXAGON HEAD BOLTS AND NUTS WITH EXTERNAL TOOTH LOCKWASHERS PLACED BOTH ENDS, BETWEEN THE CONNECTOR AND BOLT HEAD AND BETWEEN THE LOCKING-NUT AND THE EQUIPMENT SURFACE TO WHICH IT IS SECURED TO ENDS. CRIMPING SHALL BE WITH DIES SPECIFIED BY THE MANUFACTURER OF THE CONNECTOR LUG. IF A CONNECTOR IS TO BE SECURED DIRECTLY TO A PAINTED SURFACE, THE PAINT SHALL BE REMOVED TO REVEAL BARE METAL COMPLETELY AROUND AREA OF THE COMPLETED CONNECTION. A THIN LAYER OF A CORROSION PREVENTIVE COMPOUND SUCH AS NO-OX-ID "A" SHALL BE APPLIED TO THE BARE METAL SURFACE. USE ZINC SPRAY COATING FOR ANY DRILLED HOLES. REFER TO GROUNDING NOTES AND DETAILS ON SHEET E60001.
- GROUND TEMP FUEL TANK PER MANUFACTURER REQUIREMENTS. PREPARE EQUIPMENT SURFACE FOR PROPER GROUNDING CONNECTION. CAUTION: "DO NOT WELD" WITH FUEL IN TANK. COORDINATE EXACT REQUIREMENTS WITH FUEL CONTRACTOR PRIOR TO ANY WORK. "DO NOT" EXOTHERMIC WELD IF EQUIPMENT STEEL IS LESS THAN 0.040 THICK. USE 2-HOLE CRIMP COMPRESSION TYPE BOLT TONGUE LONG BARREL CONNECTORS. REFER TO NOTE-4 ABOVE.



7 GROUND ROD DETAIL
N.T.S.

PROJECT NAME:
NEW HAVEN CDO - GENERATOR DESIGN

CONSULTANT STAMP
STATE OF MICHIGAN
5/13/23
RAYMOND S. BUHAY
ENGINEER
No. 6201064206
LICENSED PROFESSIONAL ENGINEER

DET-24002045-A4

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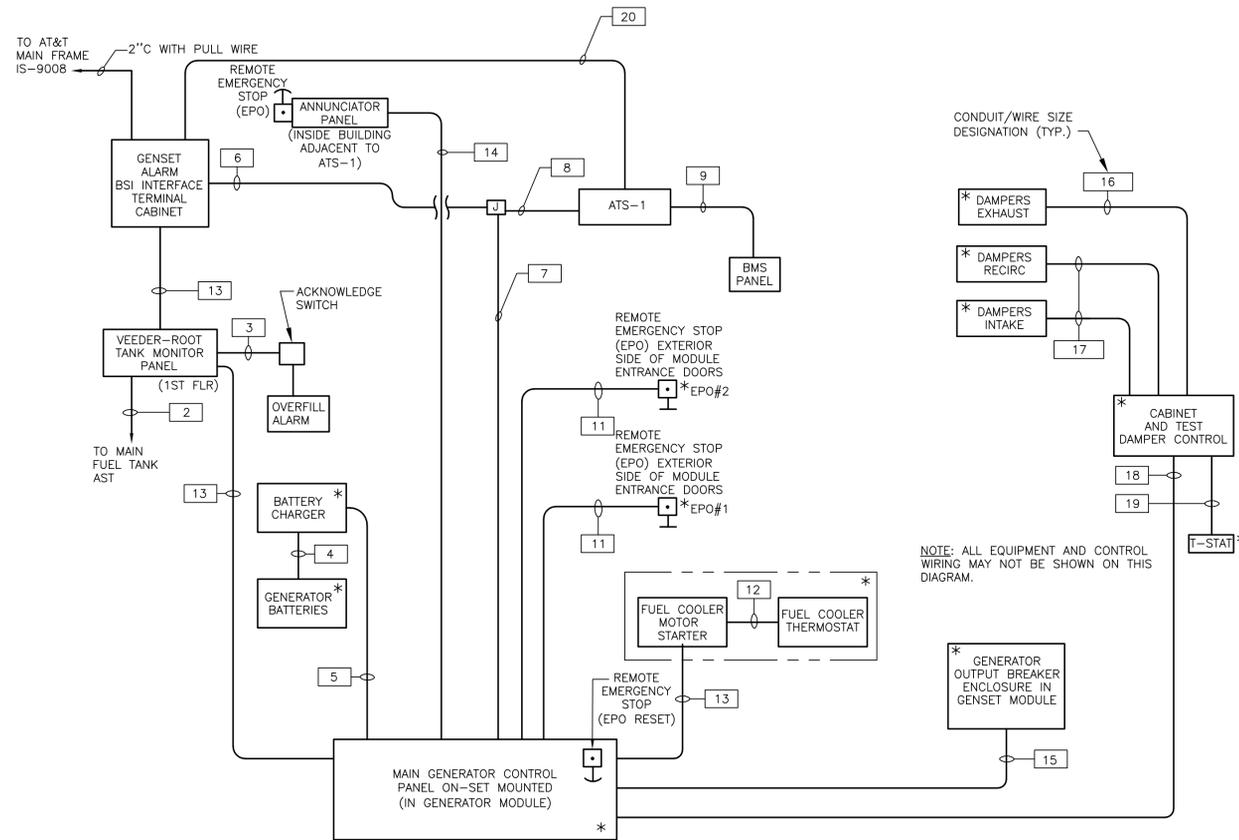
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PROJECT_DRAWING
59041 MAIN ST
NEW HAVEN
MI US
NWHNMIMM 111436.01 M18255

SHEET TITLE:
GROUNDING DETAILS ELECTRICAL

AT&T PROJECT NUMBER: 2001272	DATE:	SCALE: N/A
AT&T AUTHORIZATION: AIMEE BUTLER	DRAWN BY: SM	CHECKED BY: PN/ND
	SHEET: - OF: - SHEETS	SHEET NO.
	AT&T DRAWING NO.: 2001272E60002	E60002



GENERAL NOTES:

- A. ALL EQUIPMENT ON THIS SHEET SHALL BE NEW UNLESS NOTED OTHERWISE.

TYPICAL GENSET CONTROLS WIRING SCHEDULE

ITEM NO.	WIRING SIZE	CONDUIT SIZE	NOTES
1	2#14, 2#14 SPARE (GENSET ALARMS)	1/2" DIA.	-
2	REFER TO SHEET E60004 FOR ADDITIONAL REQUIREMENTS.	-	3
3	3#10 RED, 1#10 GREEN	3/4" DIA.	-
4	2#10 (1-RED POSITIVE, 1-BLACK NEGATIVE)	3/4" DIA.	-
5	2#14, 2#14 SPARE	1/2" DIA.	-
6	12#16, 4#16 SPARE	1" DIA.	-
7	ITEM NO. 8 AND ITEM NO. 8	1" DIA.	-
8	8#14 (2-WIRE START)	1/2" DIA.	-
9	8#16, COORDINATE WITH BMS CONTRACTOR	1/2" DIA.	-
10	2#14, 2#14 SPARE (PORT. GENSET AUTO-START-SIGNAL)	1/2" DIA.	-
11	2#14, 2#14 SPARE	1/2" DIA.	-
12	2#14	1/2" DIA.	-
13	4#14	1/2" DIA.	-
14	4#14 + (1) CAT 5 CABLE	1" DIA.	2
15	6#16, 2#16 SPARE	3/4" DIA.	-
16	2#12, 1#12 G	1/2" DIA.	-
17	2#12, 1#12 G	1/2" DIA.	-
18	4#14, 2#14 SPARE	3/4" DIA.	-
19	2#14	1/2" DIA.	-
20	8#14	1/2" DIA.	-
21	-	-	-
22	-	-	-

NOTES:

- 1. ALL CONDUIT CONNECTION TO GENSET FRAME MOUNTED EQUIPMENT SHALL BE IN LIQUID TIGHT FLEXIBLE METAL CONDUITS, MAXIMUM LENGTH 18".
- 2. COORDINATE EXACT WIRING REQUIREMENTS WITH GENSET INSTALLATION DOCUMENTS PRIOR TO ANY INSTALLATION.
- 3. COORDINATE EXACT WIRING REQUIREMENTS WITH FUEL CONTRACTOR MATZAK PRIOR TO ANY INSTALLATION.
- 4. SEE SHEET G0002, FOR "PROJECT SCHEDULE OF WORK - RESPONSIBILITY MATRIX".
- 5. PROVIDE IDENTIFICATION TAGS ON ALL WIRING AT THE GENSET CONTROL PANEL AND AT REMOTE EQUIPMENT.

1 GENERATOR EQUIPMENT CONTROL WIRING DIAGRAM

- NTS
- LEGEND:**
- [xx] REFER TO TABLE "TYPICAL GENSET AND CONTROLS WIRING SCHEDULE" ON THIS SHEET.
 - * DEVICE MOUNTED IN OR ON GENSET MODULE.

GENERAL NOTES:

- A. NUMBER, TAG, NEW AND EXISTING, CONTROL AND ALARM WIRING AT BOTH ENDS.
- B. FUEL SYSTEM ALARM ANNUNCIATION SHALL BE LOCATED NEAR GENSET MODULE. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION WITH FUEL SYSTEM CONTRACTOR. SEE FUEL ALARM CONTROL WIRING DIAGRAM ON DRAWING E60004.
- C. PROVIDE COMPLETE INSTALLATION, SHOP DRAWINGS, AND AS-BUILT DRAWINGS FOR THE SYSTEMS INDICATED IN DIAGRAM.
- D. COORDINATE EXACT FUEL REQUIREMENTS WITH FUEL CONTRACTOR MATZAK PRIOR TO ANY INSTALLATION.
- E. ALL VEEDER ROOT MONITORING, IP DROPS, CONDUIT AND WIRING INSIDE MODULE SHALL BE BY THIS CONTRACTOR. THIS CONTRACTOR SHALL INSTALL AND COORDINATE CONDUIT INSTALLATION REQUIREMENTS WITH GENSET CONTRACTOR AND PER THE MODULE MANUFACTURER'S INSTALLATION REQUIREMENTS PRIOR TO ANY INSTALLATION.
- F. REFER GENSET CONTRACTOR INSTALLATION SHOP DRAWINGS FOR ADDITIONAL REQUIREMENTS. COORDINATE WITH OWNER'S CONSTRUCTION REPRESENTATIVE.

PROJECT NAME:

NEW HAVEN CDO - GENERATOR DESIGN

DET-24002045-A4

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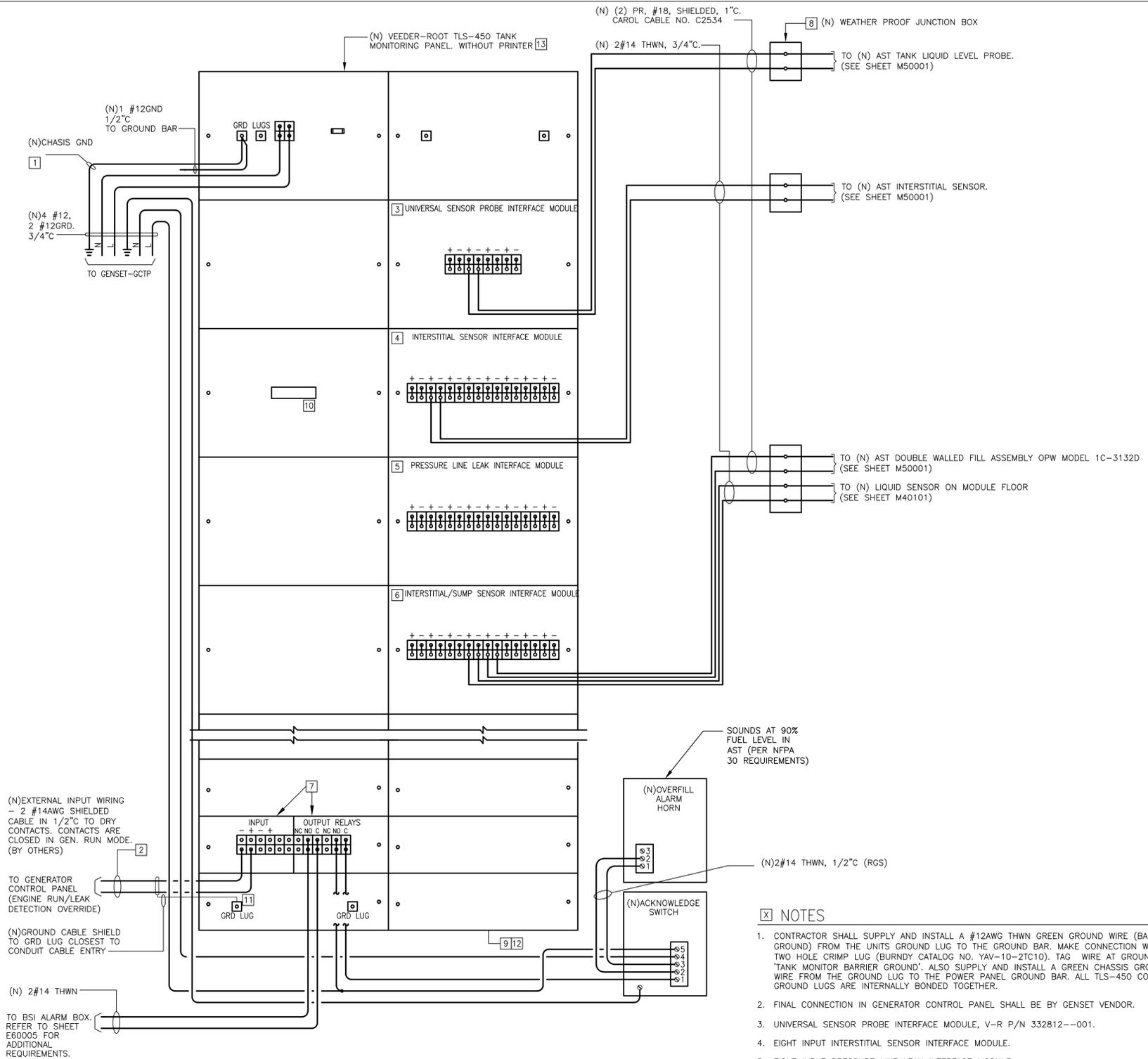
PROJECT_DRAWING

59041 MAIN ST
NEW HAVEN
MI US
NWHNMIMM 111436.01 M18255

SHEET TITLE:
CONTROL WIRING DIAGRAM ELECTRICAL

AT&T PROJECT NUMBER: 2001272 DATE: SCALE: N/A
DRAWN BY: SM CHECKED BY: PN/ND
AT&T AUTHORIZATION: AIMEE BUTLER AT&T DRAWING NO.: 2001272E60003 SHEET NO.: E60003

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NOTES

1. CONTRACTOR SHALL SUPPLY AND INSTALL A #12AWG THWN GREEN GROUND WIRE (BARRIER GROUND) FROM THE UNITS GROUND LUG TO THE GROUND BAR. MAKE CONNECTION WITH A TWO HOLE CRIMP LUG (BURNDY CATALOG NO. YAV-10-2TC10). TAG WIRE AT GROUND BAR "TANK MONITOR BARRIER GROUND". ALSO SUPPLY AND INSTALL A GREEN CHASSIS GROUND WIRE FROM THE GROUND LUG TO THE POWER PANEL GROUND BAR. ALL TLS-450 CONSOLE GROUND LUGS ARE INTERNALLY BONDED TOGETHER.
2. FINAL CONNECTION IN GENERATOR CONTROL PANEL SHALL BE BY GENSET VENDOR.
3. UNIVERSAL SENSOR PROBE INTERFACE MODULE, V-R P/N 332812--001.
4. EIGHT INPUT INTERSTITIAL SENSOR INTERFACE MODULE.
5. EIGHT INPUT PRESSURE LINE LEAK INTERFACE MODULE.
6. EIGHT INPUT INTERSTITIAL/SUMP LIQUID SENSOR INTERFACE MODULE.
7. TWO INPUT/TWO RELAY OUTPUT INTERFACE MODULE (3 REQUIRED).
8. (N) WEATHERPROOF JUNCTION BOX WITH CONDUIT & WIRING TO NEW VEEDER ROOT LOCATION.
9. INSTALL CONDUIT AND WIRING FOR THE VEEDERROOT TLS-450 TANK MONITOR. REFER TO VEEDERROOT TLS-450 MONITORING INSTALLATION MANUAL FOR PANEL CONFIGURATION AND CONDUIT ENTRY LOCATIONS.
10. SITE FAX/MODEM VEEDER-ROOT PART NO. 332818--001 WITH (2) RJ-11C SNAP-IN JACKS WIRE, CONDUIT, CONEXUS CABLING AND PROGRAMMING BY AT&T. CONTRACTOR SHALL COORDINATE WITH OWNER'S CONSTRUCTION REPRESENTATIVE.
11. ALL SHIELDED CABLES IN THE VEEDER-ROOT PANEL SHALL BE COMBINED AND TERMINATED AT THE GROUND LUG. ALL SHIELDS AT THE END AWAY FROM THE VEEDER-ROOT PANEL SHALL BE CUT CLEAN AT THE OUTER SHEATH AND HEAT SHRINK TUBING APPLIED OVER CABLE END TO PREVENT GROUND AND RF DISTORTION.
12. ADHERE TO THE VEEDER-ROOT INSTALLATION MANUAL. ANY DEVIATIONS SHALL BE CORRECTED AT THE CONTRACTORS EXPENSE.
13. PANEL SHALL BE FIELD PROGRAMMED FOR NEW GENSET RUN INPUT SIGNAL TO DISABLE LEAK DETECTION WHEN GENSET IS RUNNING.

1 FUEL TANK MONITORING SYSTEM FUEL ALARM WIRING

GENERAL NOTES:

1. ALL CONDUIT AND WIRING ON THIS WIRING DIAGRAM SHALL BE NEW.
2. ALL EXTERIOR CONDUIT SHALL BE RIGID GALVANIZED STEEL CONDUIT (RGS).
3. REMOVE ALL CONDUITS AND WIRING FROM EXISTING VEEDER ROOT PANEL (IN BASEMENT) TO EXISTING UNDERGROUND UST. AFTER NEW VEEDER ROOT SYSTEM IS INSTALLED, TESTED, AND OPERATIONAL.
4. COORDINATE, INSTALL, CONNECTIONS AND TEST PER MANUFACTURER'S REQUIREMENTS.
5. LABEL ALL WIRING AT BOTH ENDS AND SUBMIT AS-BUILT DRAWINGS.
6. ALL TESTING SHALL BE IN FRONT OF AT&T TECHNICAL SUPPORT AND MANUFACTURER REPRESENTATIVES.
7. SUBMIT A WRITTEN APPROVAL OF SYSTEM COMPLIANCE FOR RECORDS.
8. ROUTE ALL CONDUIT TO NEW AST WITH FUEL PIPING. COORDINATE WITH FUEL CONTRACTOR AND OWNER'S CONSTRUCTION REPRESENTATIVE.

PROJECT NAME:
NEW HAVEN CDO - GENERATOR DESIGN

DET-24002045-A4

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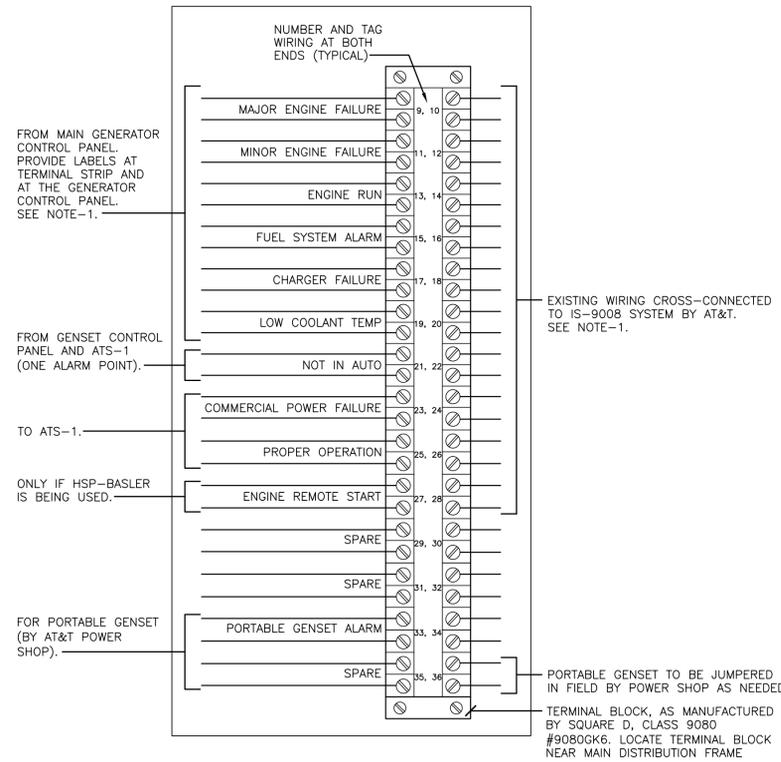
PROJECT_DRAWING

59041 MAIN ST
NEW HAVEN
MI US
NWHNMIMM 111436.01 M18255

SHEET TITLE:
FUEL SYSTEM WIRING DIAGRAM ELECTRICAL

AT&T PROJECT NUMBER: 2001272	DATE:	SCALE: N/A
AT&T AUTHORIZATION: AIMEE BUTLER	DRAWN BY: SM SHEET: -- OF: -- SHEETS	CHECKED BY: PN/ND SHEET NO.
AT&T DRAWING NO.: 2001272E60004	E60004	

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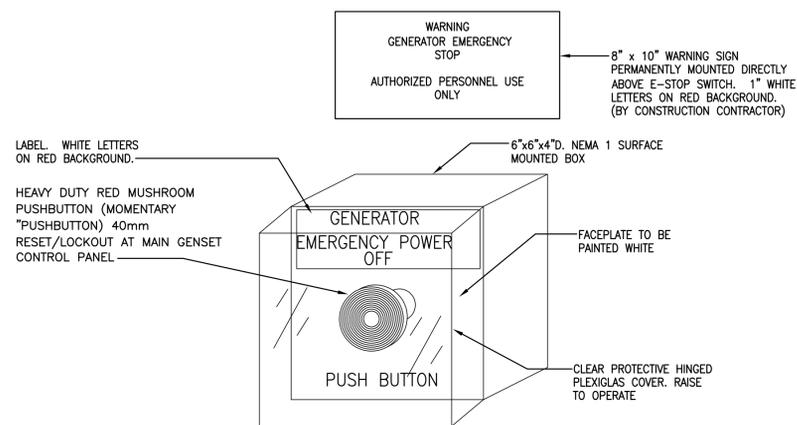


1 GENSET ALARM BSI TERMINAL CABINET DETAIL

NTS

NOTES:

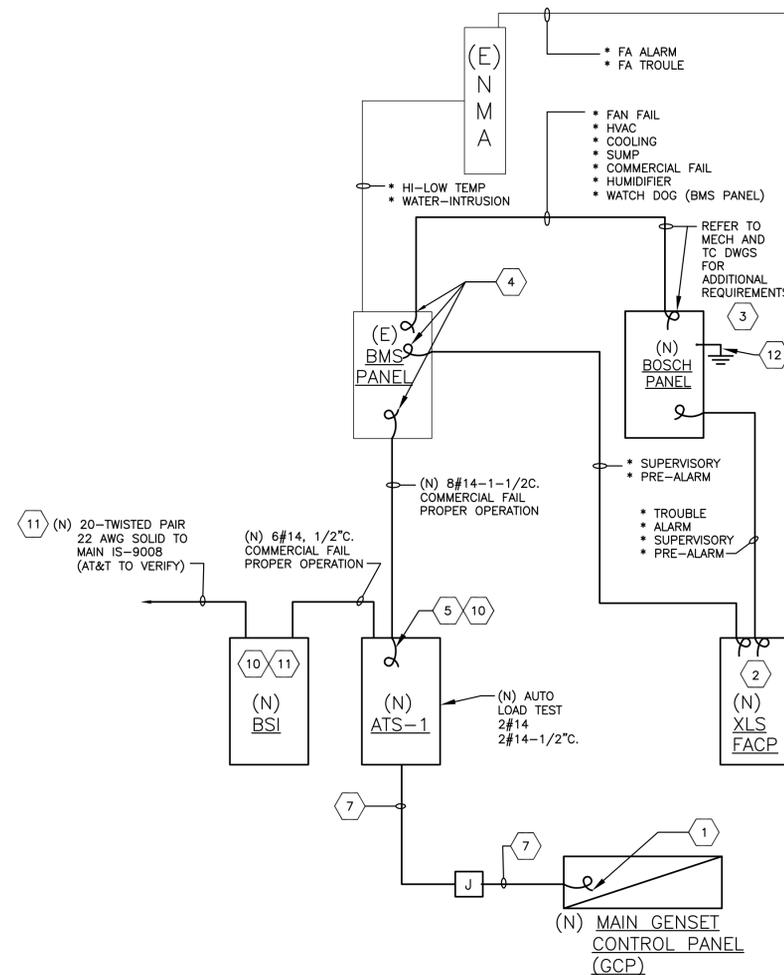
- COORDINATE INSTALLATION OF NEW ALARM WIRING AND TERMINATION WITH THE OWNER'S CONSTRUCTION REPRESENTATIVE, AT&T PROJECT MANAGER AND CO MANAGER. REFER TO SHEET E10104 & E60003 FOR ADDITIONAL REQUIREMENTS.
- WIRING TERMINATION NUMBERS INDICATED ARE TO SHOW DESIGN INTENT ONLY, IF NECESSARY PROVIDE TERMINAL NUMBERS IN A CHRONOLOGICAL ORDER TO ACCOMMODATE NUMBERS ON THE EXISTING TERMINAL STRIP.
- INSTALL ALARM TERMINAL STRIP IN NEMA-1 ENCLOSURE WITH FULLY HINGED DOOR.



NOTE: EPO SWITCH SHALL BE MOMENTARY "PUSH-BUTTON" TYPE AND SURFACE MOUNTED AT 52" ABOVE FINISHED FLOOR. THIS EPO SWITCH SHALL BE WIRED SO THAT IT COMPLETELY SHUTS-DOWN THE RESPECTIVE GENERATOR. PROVIDE ALL REQUIRED WIRING IN 1/2" CONDUIT BETWEEN THIS EPO STATION AND RESPECTIVE GENERATOR SHUT-OFF SIGNAL TERMINAL BLOCK/RELAYS. EPO STATION SHALL BE MANUFACTURED BY PILLA OR APPROVED EQUAL ELECTRICAL PRODUCTS, INC. MODEL #ST120ESON1-PILCLHCOV1, TEL. (904) 396-7371. SEE DRAWING G002 FOR ADDITIONAL REQUIREMENTS.

2 MOMENTARY EMERGENCY STOP PUSH-BUTTON DETAIL

NTS



3 LOW VOLTAGE ALARM WIRING DIAGRAM

NTS

DETAIL NOTES:

- COIL 10'-0". FINAL CONNECTION BY GENSET CONTRACTOR AT&T REPRESENTATIVE PAUL ANTKOWIAK, AND COORDINATE WITH OWNER'S CONSTRUCTION REPRESENTATIVE.
- COIL 10'-0". FINAL CONNECTION BY SIEMENS REPRESENTATIVE. COORDINATE WITH OWNER'S CONSTRUCTION REPRESENTATIVE. REFER TO 'D' SERIES DRAWINGS.
- COIL 10'-0". FINAL CONNECTION BY BOSCH CERTIFIED REPRESENTATIVE. COORDINATE WITH OWNER'S CONSTRUCTION REPRESENTATIVE.
- COIL 10'-0". FINAL CONNECTION BY BMS CONTRACTOR. COORDINATE WITH OWNER'S CONSTRUCTION REPRESENTATIVE.
- COIL 10'-0". FINAL CONNECTION BY RUSSELECTRIC REPRESENTATIVE. COORDINATE WITH OWNER'S CONSTRUCTION REPRESENTATIVE.
- TAG ALL WIRING AT BOTH ENDS. SUBMIT AS-BUILT WIRING DIAGRAM WITH WIRE TAG INFORMATION.
- REFER TO CONTROL WIRING DIAGRAM ON SHEET E60003 FOR ADDITIONAL REQUIREMENTS.
- ALL CONDUIT SHALL BE MINIMUM 3/4" UNLESS NOTED OTHERWISE.
- REFER TO 'D' SERIES DRAWINGS FOR WIRING AND ADDITIONAL REQUIREMENTS.
- COIL 10'-0" FINAL CONNECTION BY AT&T REPRESENTATIVE PAUL ANTKOWIAK & AT&T 'GNFO'. COORDINATE WITH OWNER'S CONSTRUCTION REPRESENTATIVE.
- COORDINATE EXACT REQUIREMENTS WITH OWNER'S CONSTRUCTION REPRESENTATIVE AND AT&T BUILDING NETWORK REPRESENTATIVES.
- GROUNDING SHALL BE PER MANUFACTURER'S REQUIREMENTS. CONTRACTOR SHALL TRACE, VERIFY CONNECTION AND MODIFY PER MANUFACTURER'S REQUIREMENTS.

PROJECT NAME: NEW HAVEN CDO - GENERATOR DESIGN	
DET-24002045-A4	CONSULTANT STAMP

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U.S.A.
www.exp.com

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	FINAL REVIEW #2	04/18/25	
	FINAL REVIEW	03/18/25	
	50% REVIEW	12/17/24	

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MI US
NWHNMIMM 111436.01 M18255

SHEET TITLE: DETAILS ELECTRICAL	
AT&T PROJECT NUMBER: 2001272	DATE: _____ SCALE: N/A
AT&T AUTHORIZATION: AIMEE BUTLER	DRAWN BY: SM CHECKED BY: PN/ND
	SHEET: - OF - SHEETS SHEET NO.
	AT&T DRAWING NO.: 2001272E60005
	E60005

NEW CTP-1 PANEL SCHEDULE

VOLTAGE: 120/208V		MOUNTING: SURFACE			LOCATION: EQUIPMENT AREA 101			
AMPS: 100A MLO		PHASE: 3		WIRE: 4		AIC: 22K FULLY RATED		
#	LOAD DESCRIPTION	BKR/P	LOAD		LOAD	BKR/P	LOAD DESCRIPTION	#
1	PORT. BATTERY HEATER	20/1P	1500	A	1200	20/1P	VEEDER ROOT PANEL	2
3	PORT. BATTERY CHARGER	20/1P	1000	B	800	20/1P	FIRE ALARM PANEL (FACP)	4
5	BOSCH PANEL	20/1P	1000	C	-	20/1P	SPARE	6
7	SPARE	20/1P	-	A	-	20/1P	SPARE	8
9	SPARE	20/1P	-	B	-	20/1P	SPARE	10
11	SPARE	20/1P	-	C	-	20/1P	SPARE	12
A PHASE LOAD (KVA):		2.7		CONNECTED KVA:		5.5		
B PHASE LOAD (KVA):		1.8		DEMAND KVA:				
C PHASE LOAD (KVA):		1.0		CONNECTED AMPS:		15.3		

NAMEPLATE SCHEDULE (REFER TO SHEET N60001)

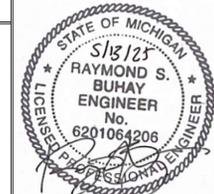
POS NO	FIRST LINE	SECOND LINE	THIRD LINE	REMARKS
1	UTILITY METER & CT CAB	SERVING	MAIN SWITCH	
2	MAIN SWITCH (350AF)	FED FROM C/T CAB	SERVING ATS-1	
3	BUILDING	SURGE ARRESTER (60AF)		
4	GENSET OUTPUT (350AT)	CKT BRKR	SERVING MTS-1/ATS-1	
5	PGCC	SERVING	MTS-1/ATS-1	
6	MTS-1	SERVING	ATS-1	
7	SOURCE#1	GENSET OUTPUT	CKT BRKR	
8	SOURCE#2	PGCC	-	
9	ATS-1	SERVING	MDP	
10	SOURCE#1	COMMERCIAL PWR	MAIN SWITCH	
11	SOURCE#2	MTS-1	GENSET/PGCC	
12	MDP	FED FROM	ATS-1	
13	MTS-2	(150AT)	-	
14	DP-A	(200AT)	-	
15	CTP-1	(60AT)	-	
16	GCTP	(100AT)	-	
17	SPARE	(100AT)	-	
18	-	-	-	
19	-	-	-	
20	-	-	-	
21	MTS-2	FED FROM	MDP	
22	DP-A	FED FROM	MDP	
23	CTP-1	FED FROM	MDP	
24	GCTP	FED FROM	MDP	
25	-	-	-	
26	-	-	-	
27	-	-	-	
28	-	-	-	
29	-	-	-	
30	PACU-1.1.1 COMP/COND	FED FROM	MTS-2/MDP	NOTE-7
31	PACU-1.1.1 SUPPLY FAN	FED FROM	DP-A	NOTE-7
32	PDSC-101	FED FROM	DP-A	NOTE-7
33	PDSC-102	FED FROM	DP-A	NOTE-7
34	AC UNIT	FED FROM	DP-A	NOTE-7
35	LP-A	FED FROM	DP-A	NOTE-7
36	PDSC-103	FED FROM	DP-A	NOTE-7
37	-	-	-	
38	-	-	-	
39	-	-	-	
40	-	-	-	
41	-	-	-	

- NOTES:**
1. NAMEPLATE SIZE UNLESS OTHERWISE SHOWN OR CALLED OUT IN SPECIFICATION, 3 1/2" WIDTH, 1 3/4" HEIGHT.
 2. CHARACTER SIZE: TOP LINE LETTERS 3/8", BOTTOM TWO LINES LETTERS 3/16" IN HEIGHT.
 3. USE ENGRAVED BAKELITE NAMEPLATES, WHITE LETTERS ON BLACK BACKGROUND. ATTACH NAMEPLATE TO ELEC. EQUIP. WITH SHEET METAL SCREWS.
 4. SUBMIT A TYPED NAME PLATE SCHEDULE FOR REVIEW AND ACCEPTANCE BY AN ARCHITECT/ENGINEER.
 5. COMPLY WITH SPECIFICATIONS FOR NAMEPLATES FOR SWGR., SUBSTATIONS, SWITCHBOARDS, AND MOTOR CONTROL CENTERS.
 6. USE STAINLESS STEEL SCREWS FOR ALL NAMEPLATES.
 7. REMOVE ANY EXISTING NAMEPLATES AND REPLACE WITH NEW WHERE NEW NAMEPLATE IS REQUIRED.
 8. SIMILAR TO NOTE 3 EXCEPT, WHITE LETTERS ON RED BACKGROUND.
 9. PROVIDE LABEL; CW OR CW. FIELD VERIFY PRIOR TO LABELING.
 10. SIMILAR TO NOTE 3 EXCEPT, BLACK LETTERS ON YELLOW BACKGROUND.

PROJECT NAME:

NEW HAVEN CDO - GENERATOR DESIGN

DET-24002045-A4



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exp U.S. Services Inc.
 (+1 248 351 8200) | (+1 248 351 8250)
 27777 Franklin Road
 Suite 1510
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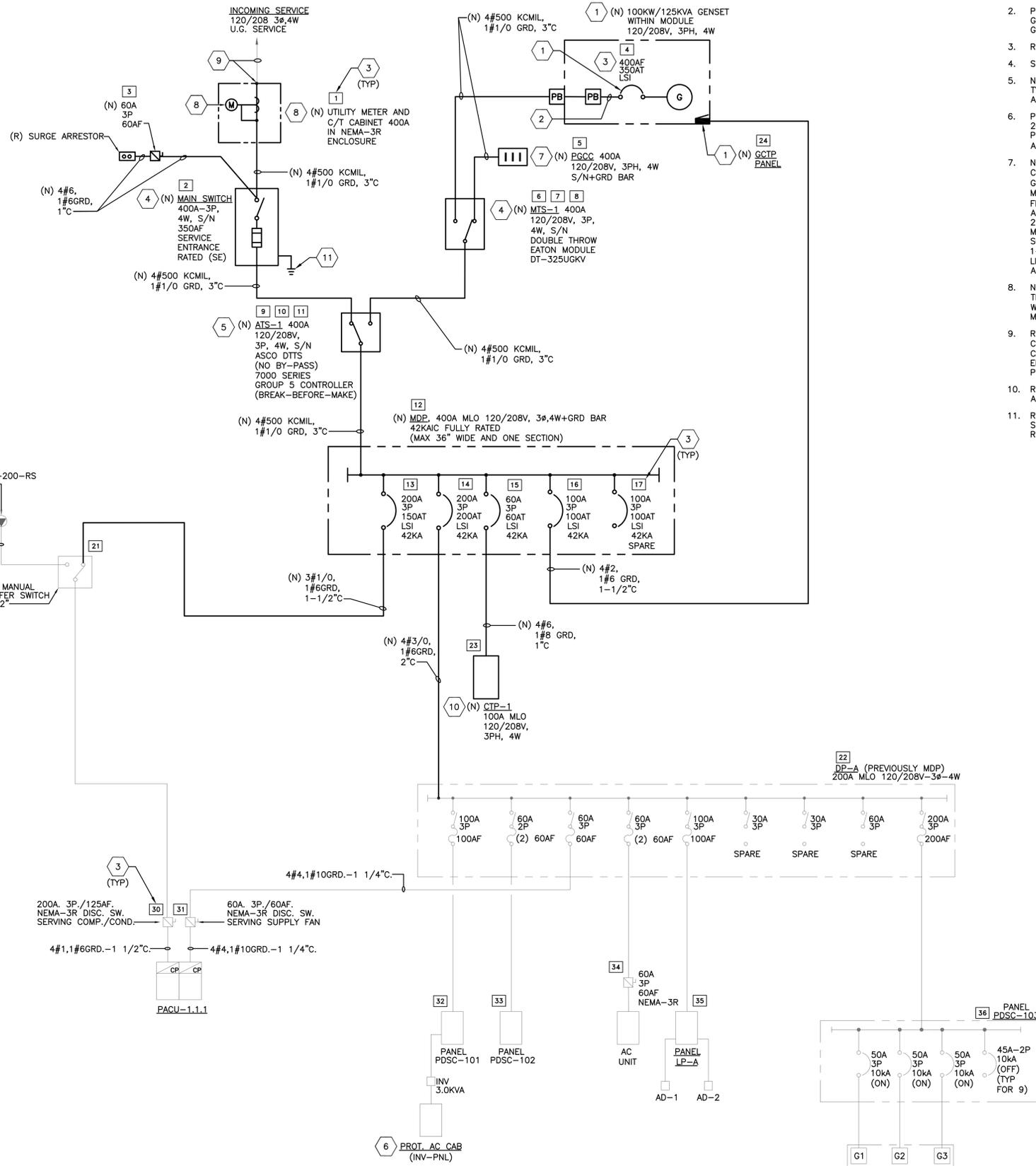
PROJECT_DRAWING

59041 MAIN ST
 NEW HAVEN
 MI US
 NWHNMIMN 111436.01 M18255

SHEET TITLE:
GCTP & NAMEPLATE SCHEDULES ELECTRICAL

AT&T PROJECT NUMBER: 2001272	DATE:	SCALE: N/A
AT&T AUTHORIZATION: AIMEE BUTLER	DRAWN BY: SM	CHECKED BY: PN/ND
	SHEET: - OF: - SHEETS	SHEET NO.
	AT&T DRAWING NO.: 2001272E60006	E60006

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BUILDING CONNECTED LOAD SUMMARY		
BLDG SQ FT: 4309		120/208V - 3Ø
- 4W		
TYPE OF LOAD	EXISTING LOADS AMPS CONNECTED	REMARKS
LIGHTING (ESTIMATED)	5.1	
POWER RECEPTACLES (ESTIMATED)	2.6	
PACU-1.1.1	98.4	
FURNACE	2.6	
ACCU FOR FURNACE	35.0	
ELECTRIC WATER HEATER	16.7	
(3) TELE RECTIFIERS (200A-DC)	105.0	
CTP POWER (ESTIMATED)	20.0	
MISCELLANEOUS (ESTIMATED)	7.0	
FUTURE	xxx	
TOTAL AMPS:	292.3	
TOTAL KW:	105.3	

1 ONE-LINE DIAGRAM - NEW WORK

KEY NOTES - NEW WORK:

- NEW EQUIPMENT PRE-PURCHASED BY AT&T. THIS CONTRACTOR SHALL CONNECT, TEST, ENERGIZE, ETC. COORDINATE WITH OWNER'S CONSTRUCTION REPRESENTATIVE AND GENSET CONTRACTOR.
- PROVIDE LIQUID TIGHT FLEXIBLE CONDUIT CONNECTION TO GENERATOR OUTPUT CIRCUIT BREAKER. COORDINATE WITH GENERATOR CONTRACTOR.
- REFER TO NAMEPLATE SCHEDULE ON SHEET E60008.
- SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL.
- NEW ATS SHALL BE EQUIPPED WITH 2-HOLE COMPRESSION TYPE LUGS. REFER TO SPECIFICATION SECTION 263600 FOR ADDITIONAL REQUIREMENTS.
- PROVIDE NEW 20A-1P CIRCUIT BREAKERS FOR ALL NEW 20A CIRCUITS. MATCH EXISTING 20A-1P CIRCUIT BREAKERS. PROVIDE NEW TYPED OUT CIRCUIT BREAKER DIRECTORY WITH ALL EXISTING AND NEW ITEMS/DEVICES BEING SERVED.
- NEW EXTERIOR WALL MOUNTED PORTABLE GENSET CONNECTION CABINET (PGCC) 400A, 120/208V, 3Ø, 4W, + GROUND BAR CAM-LOK STYLE CONNECTION. NEW #4/0 MALE CAM-LOC CONNECTORS COLOR CODED. MATCH NEW FEMALE #4/0 DLO COLOR CODED CABLE CONNECTORS. ALUMINUM FULLY GASKETTED WATER-TIGHT, SEALED, AUTO-2-WIRE GENSET START, NEMA-3R ENCLOSURE. MANUFACTURED BY INTERSECT, INC. CONTACT: SOLUTIONS@INTERSECTINC.COM, PHONE NUMBER 1-800-910-3735, PART #ICGC-1P-400-SERIES, UL LISTED. SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL.
- NEW DTE ENERGY COMPANY METERING AND CONTROL TRANSFORMERS (C/T'S). COORDINATE EXACT REQUIREMENTS WITH DTE SERVICE REPRESENTATIVE. INCLUDE ALL COST MATERIAL, WORK, TESTING SHUT-DOWNS, ETC. WITH BIDS.
- RECONNECT EXISTING UNDERGROUND INCOMING SERVICE CONDUCTORS FROM EXISTING UTILITY POLE TO NEW C/T CABINET. COORDINATE EXACT REQUIREMENTS WITH DTE ENERGY COMPANY. FIELD VERIFY EXISTING CONDITIONS PRIOR TO BIDDING. INCLUDE ALL COST IN BIDS.
- REFER TO PANEL SCHEDULE ON SHEET E60006 FOR ADDITIONAL REQUIREMENTS.
- REFER TO PARTIAL GROUNDING RISER AND DETAILS ON SHEET E60001 AND SHEET E60002 FOR ADDITIONAL REQUIREMENTS.

GENERAL NOTES:

- ALL EQUIPMENT SHOWN ON THE ONE-LINE DIAGRAM IS EXISTING UNLESS NOTED OTHERWISE.
- EXISTING EQUIPMENT SHOWN MAY NOT REFLECT EXISTING CONDITIONS. CONTRACTOR SHALL FIELD VERIFY EXISTING ELECTRICAL DISTRIBUTION SYSTEM AS APPLICABLE PRIOR TO DOING ANY WORK OR MAKING ANY MODIFICATION TO THE SYSTEM.
- EXP ASSUMES THAT ALL EXISTING TO REMAIN EQUIPMENT AND ITS INSTALLATION ARE CODE COMPLIANT. CONTRACTOR SHALL NOTIFY IMMEDIATELY OWNER'S CONSTRUCTION REPRESENTATIVE OF ANY DISCREPANCIES FOUND DURING CONSTRUCTION.
- COORDINATE ALL DEMOLITION AND NEW WORK WITH THE OWNER'S CONSTRUCTION REPRESENTATIVE. SUBMIT A PROJECT PHASING SCHEDULE TO OWNERS CONSTRUCTION REPRESENTATIVE FOR REVIEW AND APPROVAL.
- COORDINATE ALL PLANNED POWER SHUTDOWNS TO THE EXISTING POWER DISTRIBUTION SYSTEM WITH DTE ENERGY COMPANY AND OWNER'S CONSTRUCTION REPRESENTATIVE. SUBMIT SHUTDOWN SCHEDULE TO OWNER REPRESENTATIVE FOR REVIEW AND APPROVAL WITH MINIMUM (2) WEEKS IN ADVANCE.
- INCLUDE COST OF ALL REQUIRED PLANNED POWER SHUTDOWNS AND COORDINATION WITH PROPERTY MANAGEMENT, GENSET CONTRACTOR, ETC., AT&T POWER MAINTENANCE AS REQUIRED.
- FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BIDDING.
- REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL EQUIPMENT AND EQUIPMENT INSTALLATION SHOP DRAWING REQUIREMENTS.
- REFER TO GENERAL ELECTRICAL NOTES ON SHEET E00001 FOR ADDITIONAL REQUIREMENTS.
- ALL EXTERIOR CONDUITS BELOW AND ABOVE GRADE SHALL BE RIGID GALVANIZED STEEL CONDUIT. INSTALL ALL EXTERIOR CONDUITS MINIMUM 24" ABOVE FINISH GRADE/SURFACE UNLESS OTHERWISE NOTED.
- ALL EQUIPMENT TESTING SHALL BE PERFORMED BY INDEPENDENT THREE-PARTY NETA CERTIFIED LEVEL 3 TESTING CONTRACTOR. SUBMIT ALL TEST REPORTS FOR RECORDS.
- CONTRACTOR SHALL VERIFY AND COORDINATE EQUIPMENT PHASE ROTATION WITH AT&T POWER MAINTENANCE SHOP PRIOR TO ENERGIZING NEW EQUIPMENT.

PROJECT NAME:
NEW HAVEN CDO - GENERATOR DESIGN

DET-24002045-A4

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RAYMOND S. BUHAY
ENGINEER
No. 6201064206
LICENSED PROFESSIONAL ENGINEER

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SHEET TITLE:
ONE LINE DIAGRAM - NW
ONE LINE DIAGRAM

AT&T PROJECT NUMBER: 2001272	DATE:	SCALE: N/A
AT&T AUTHORIZATION: AIMEE BUTLER	DRAWN BY: SM	CHECKED BY: PN/ND
	SHEET: - - OF: - SHEETS	SHEET NO.
	AT&T DRAWING NO.: 2001272N60001	N60001

THE EXISTING EQUIPMENT SHOWN ON ONE-LINE DIAGRAM MAY NOT REFLECT EXISTING CONDITIONS. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY EXISTING ELECTRICAL DISTRIBUTION SYSTEM AS APPLICABLE PRIOR TO ANY POWER SHUT-DOWNS. ADDING NEW LOADS OR MAKING ANY MODIFICATIONS TO THE EXISTING POWER DISTRIBUTION SYSTEM.

NEW SYMBOL LEGEND

SYMBOL	DESCRIPTION	MODEL NO.
	FIRE ALARM CONTROL PANEL	PRO MODULAR
	MULTI CRITERIA SMOKE DETECTOR	OH921
	DUAL OPTICAL MULTI CRITERIA SMOKE DETECTOR	OOH941
	MANUAL PULL STATION, DUAL ACTION	HMS-D
	DUCT DETECTOR	FDBZ492/OP921
	FIRE ALARM DOCUMENT CABINET	

EXISTING DEVICES TO DEMO

ITEM	SYMBOL	QTY.	MODEL #	DESCRIPTION	REMARKS
1		14	DI-4A	ION. SMOKE DETECTOR	
2		13	PEC-3T	PHOTO. SMOKE DETECTOR	
3		1	DF-3A	FLAME DETECTOR	
4		3	MS-51	MANUAL PULL STATION	
5		2	AD-3I	ION. DUCT DETECTOR (SUPPLY)	
6		3	HDC-24	ALARM HORN/STROBE	
7		1	RL-6	MULTIPLE REMOTE LAMP ASSEMBLY	
8		1	CP-35	SYSTEM-3 CONTROL PANEL	
9		5	-	END OF LINE DEVICE	
10					

GENERAL DETECTION NOTES:

- NUMBERS ADJACENT TO DEVICE SYMBOL DENOTE DEVICE CIRCUIT/ADDRESS DEVICE 1-02 WOULD BE THE SECOND DEVICE ON ZONE 1.
- DETECTOR AND AUDIBLE CIRCUIT POLARITY SHALL BE OBSERVED.
- AUDIBLE/VISUAL CIRCUIT WIRING IS SUPERVISED. NO PARALLEL BRANCHING IS PERMISSIBLE
- CONDUIT RUNS SHOWN DIAGRAMMATICALLY. EXACT LOCATION IS TO BE DETERMINED IN THE FIELD
- INSTALLATION SHALL BE IN STRICT CONFORMANCE WITH THE NATIONAL ELECTRIC CODE, LOCAL CODE(S), AND/OR AUTHORITY HAVING JURISDICTION.
- INSTALLATION MATERIALS (I.E. CONDUIT, WIRE, FITTINGS, HANGERS, AND STANDARD BOXES) ARE NOT SUPPLIED BY SIEMENS FIRE SAFETY.
- DETECTORS SHALL NOT BE MOUNTED IN DIRECT AIR STREAM OF AIR SUPPLY OUTLETS (MINIMUM DISTANCE OF 4').
- WIRING SHALL BE PER PLAN WITH RESPECT TO CONDUCTOR SIZE, TYPE, QUANTITY AND COLOR CODE. CONDUCTORS SHALL BE PERMANENTLY MARKED FOR FUTURE IDENTIFICATION.
- INSTALLING CONTRACTOR SHALL RETURN ONE SET OF ACCURATELY MARKED DRAWINGS FOR "AS BUILT" PURPOSES.
- FOR ADDITIONAL INSTALLATION INSTRUCTIONS, REFER TO CATALOG CUT SHEETS AND/OR INSTALLATION INSTRUCTIONS.
- 120vac POWER SHALL NOT BE APPLIED TO FIRE ALARM PANEL WITHOUT DIRECT SUPERVISION OF TECHNICIAN.
- ALL SPEAKER/STROBE AND STROBE DEVICES SHALL BE MOUNTED AT A HEIGHT OF 80" A.F.F. OR 6" BELOW DROPPED CEILING, WHICHEVER IS LESS.
- SEE SPECIFICATIONS FOR M.O.P REQUIREMENTS.
- SEE SPECIFICATIONS REGARDING WORKING OVER POWER/SWITCH EQUIPMENT.
- INSTALLING CONTRACTOR TO LOCATE DETECTORS WITHIN A BAY AS NEEDED, WHILE KEEPING A MINIMUM DISTANCE OF 4' FROM BEAMS AND 1' FROM DUCT WORK.
- ALL PULL STATIONS SHALL BE MOUNTED 48" A.F.F.
- PANEL TO BE MOUNTED 6' TO THE TOP OF PANEL A.F.F.
- ALL DEVICES ARE TO BE LABELED ON DETECTOR SIDES, MANUAL STATION TOPS, DUCT DETECTOR FRONTS. LABELING IS TO BE DONE BY A P-TOUCH UNIT OR EQUIVALENT.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW TO THE SYSTEM DESIGN ENGINEER AND JENSEN HUGHES AS REQUIRED BY AT&T PLAN REVIEW PRACTICE: CRE-50-12-05-ATP-01 AND NFPA 72, 2016 EDITION SECTION 7.4 SHOP DRAWINGS (INSTALLATION DOCUMENTATION) SECTION 7.4.7.

DEMOLITION NOTES:

- DISCONNECT AND REMOVE ALL EXISTING FIRE ALARM SYSTEM DEVICES AND ALL ASSOCIATED PANELS, CONDUIT AND WIRING AFTER NEW CERBERUS PRO MODULAR SYSTEM IS TESTED, ENERGIZED AND ACCEPTED.
- ELECTRICAL CONTRACTOR SHALL FIELD SURVEY EXISTING CONDITIONS OF EXISTING FIRE ALARM SYSTEM PRIOR TO PROVIDING BID.

EXP APPROVES THESE INSTALLATION DRAWINGS FOR CONSTRUCTION.

PROJECT NAME:
NEW HAVEN CDO - GENERATOR DESIGN

DET-24002045-A4

CONSULTANT STAMP

FIRE ALARM CONTRACTOR

VANGUARD FIRE & SECURITY SYSTEMS, INC.
28287 Beck Road, Suite D-16
Wixom, Michigan 48393
PH: (800) 826-8577 FX: (248) 449-4863

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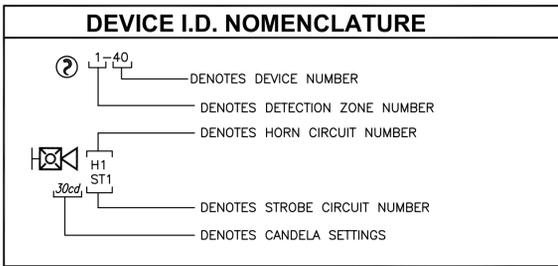
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MI US
NWHNMIMN 111436.01 M18255

SHEET TITLE:
MATRIX, LEGEND & NOTES FIRE ALARM

AT&T PROJECT NUMBER: 2001272	DATE:	SCALE: N/A
AT&T AUTHORIZATION: AIMEE BUTLER	DRAWN BY: RO	CHECKED BY: DW
	SHEET: - OF: - SHEETS	SHEET NO.
	AT&T DRAWING NO.: 2001272D00001	000001

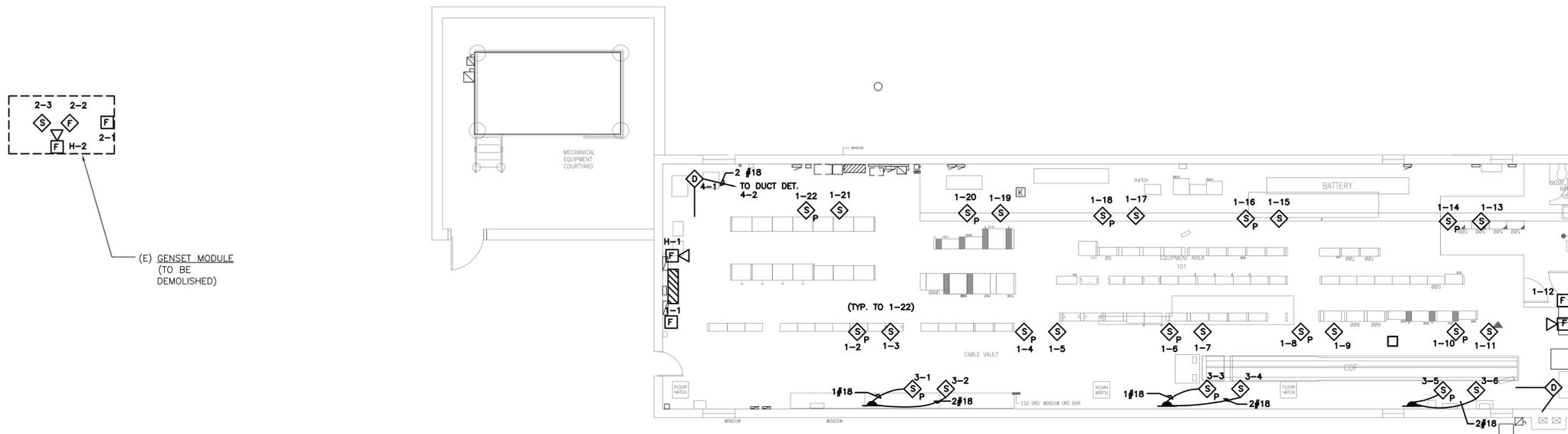


SYSTEM INPUTS	ACTIVATE GENERAL ALARM SIGNAL INDICATOR	ACTIVATE TRANSMITTER SIGNAL	ACTIVATE SUPERVISORY SIGNAL	ACTIVATE AUDIBLE SUPERVISORY SIGNAL	ACTIVATE MULTIPLE SUPERVISORY SIGNAL	ACTIVATE MULTIPLE TROUBLE SIGNAL	ACTIVATE MULTIPLE TROUBLE SIGNAL	RECORD EXTENSIVE OF SIGNAL	TRANSFER FIRE ALARM SIGNAL TO SYSTEM MEMORY IN BAY (A PANEL)	TRANSFER SUPERVISORY SIGNAL TO BAY (A PANEL)	TRANSFER TROUBLE SIGNAL TO NEXT COMPARTMENTAL MON. ALARM CENTER	TRANSFER FIRE ALARM SIGNAL TO NEXT COMPARTMENTAL MON. ALARM CENTER	TRANSFER TROUBLE SIGNAL TO NEXT COMPARTMENTAL MON. ALARM CENTER	SHUT DOWN SUPPLY AND RETURN PINS
MANUAL FIRE ALARM BOXES	>	>												
AREA SMOKE DETECTOR ACTIVATION	>	>												
HEAT DETECTOR ACTIVATION	>	>												
DUCT DETECTOR ACTIVATION	>	>												
FLOW SWITCH ACTIVATION	>	>												
TAMPER SWITCH ACTIVATION			>	>										
FIRE ALARM AC POWER FAILURE			>	>										
FIRE ALARM SYSTEM LOW BATTERY			>	>										
OPEN CIRCUIT			>	>										
GROUND FAULT			>	>										
NOTIFICATION APPLIANCE CIRCUIT SHORT			>	>										

FIRE ALARM MATRIX

GENERAL NOTES:

- A. ALL FIRE ALARM DEVICES SHOWN LIGHT ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE. REFER TO KEY NOTES.
- B. ALL FIRE ALARM DEVICES OR CONDUIT SHOWN DARK IS NEW.
- C. CONTRACTOR SHALL COORDINATE ALL CORING, PATCH & PAINT (TO MATCH EXISTING) IN ALL AREAS AFFECTED BY DEMOLITION OR NEW WORK WITH ARCHITECTURAL TRADES.
- F. CONTRACTOR SHALL COORDINATE ALL ROUTING OF PIPING AND DEVICES WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL TRADES AND OWNER'S CONSTRUCTION REPRESENTATIVE PRIOR TO INSTALLATION.
- E. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND SCOPE OF WORK PRIOR TO BIDDING.
- F. FIRESTOP ALL FLOOR & WALL PENETRATIONS.
- G. CONTRACTOR SHALL REUSE EXISTING WIRING WHERE POSSIBLE AND ENSURE CONTINUITY ON REMOVED DEVICES.



EXP APPROVES THESE INSTALLATION DRAWINGS FOR CONSTRUCTION.

PROJECT NAME:	
NEW HAVEN CDO - GENERATOR DESIGN	
DET-24002045-A4	

CONSULTANT STAMP

FIRE ALARM CONTRACTOR



VANGUARD FIRE & SECURITY SYSTEMS, INC.
28287 Beck Road, Suite D-16
Wilkom, Michigan 48393
PH: (800) 826-8577 FX: (248) 449-4863

REVISIONS / AUTHORIZATIONS

NO.	REVISIONS / AUTHORIZATIONS	DATE	BY
	PERMIT AND CONSTRUCTION	05/15/25	
	FINAL REVIEW #2	04/18/25	
	FINAL REVIEW	03/18/25	
	50% REVIEW	12/17/24	

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DRAWINGS PREPARED FOR



AT&T CORPORATE REAL ESTATE

PROJECT_DRAWING

59041 MAIN ST
NEW HAVEN
MI US
NWHNMIMN 111436.01 M18255

SHEET TITLE:
**FIRST FLOOR PLAN - DEMO WORK
FIRE ALARM**

AT&T PROJECT NUMBER: 2001272	DATE:	SCALE: 1/8" = 1'-0"
AT&T AUTHORIZATION: AIMEE BUTLER	DRAWN BY: RO CHECKED BY: DW	SHEET: - OF: - SHEETS SHEET NO.
	AT&T DRAWING NO.: 2001272D10101D	010101D

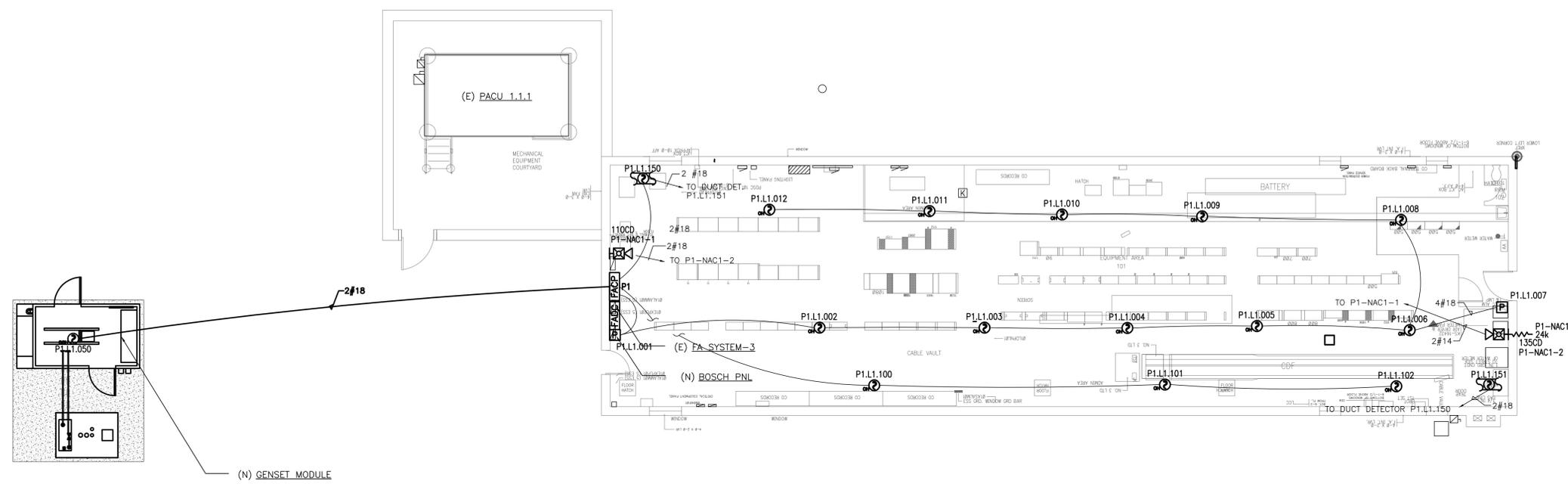
1 FIRST FLOOR PLAN - DEMO WORK
1/8" = 1'-0"



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1 FIRST FLOOR PLAN - NEW WORK
 1/8" = 1'-0"
 north

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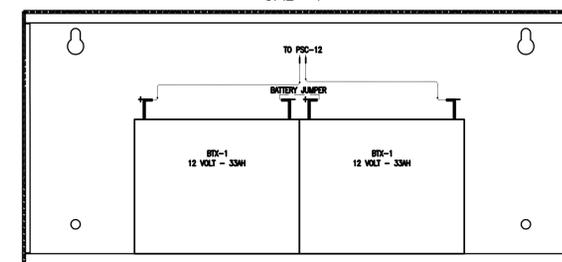
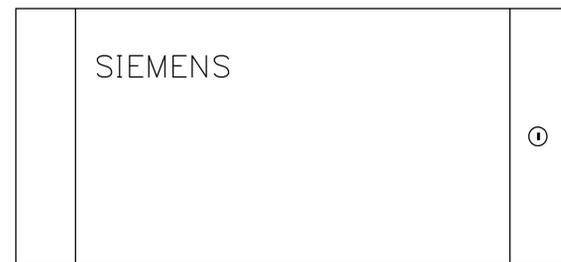
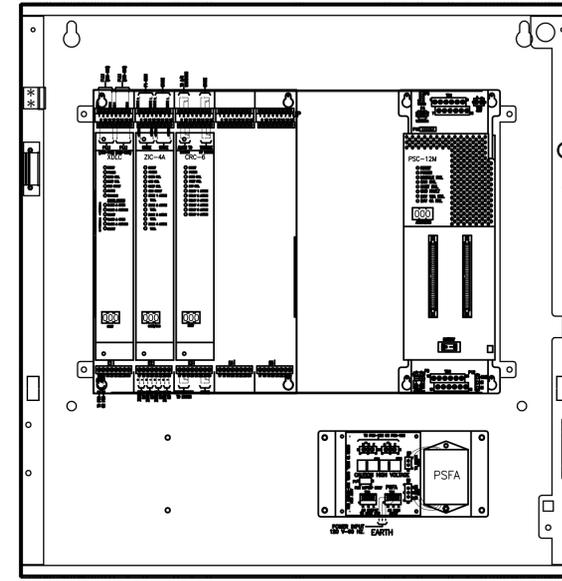
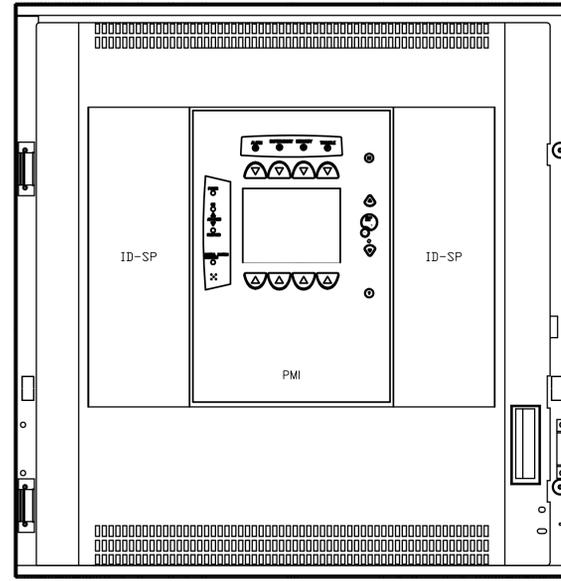
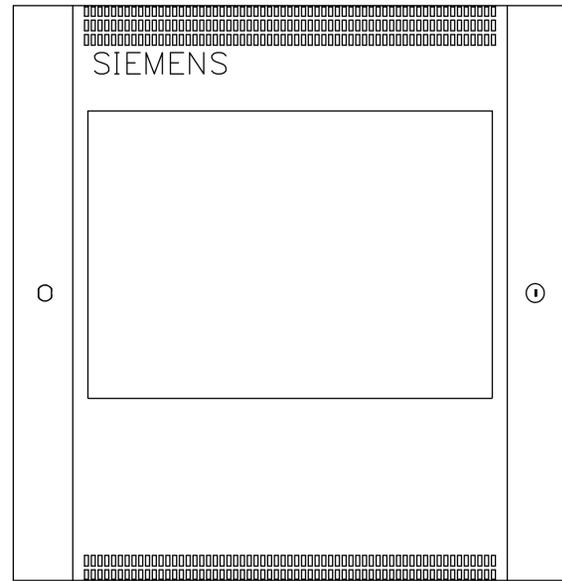
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 NEW HAVEN
 MI US
 NWHNMIMN 111436.01 M18255

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 FIRE ALARM**

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	AT&T DRAWING NO.: 2001272D10101	D10101

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1 FIRE ALARM CONTROL PANEL DETAIL

NOT TO SCALE

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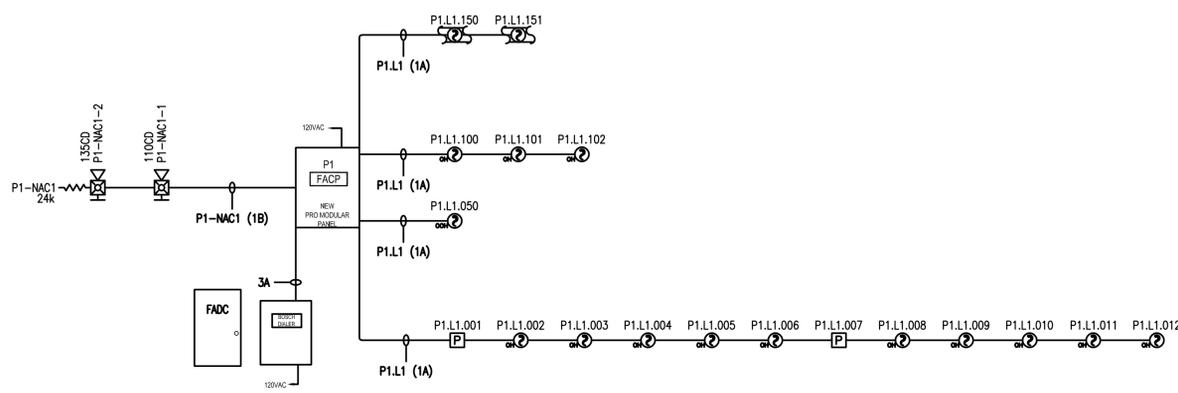
DRAWINGS PREPARED FOR

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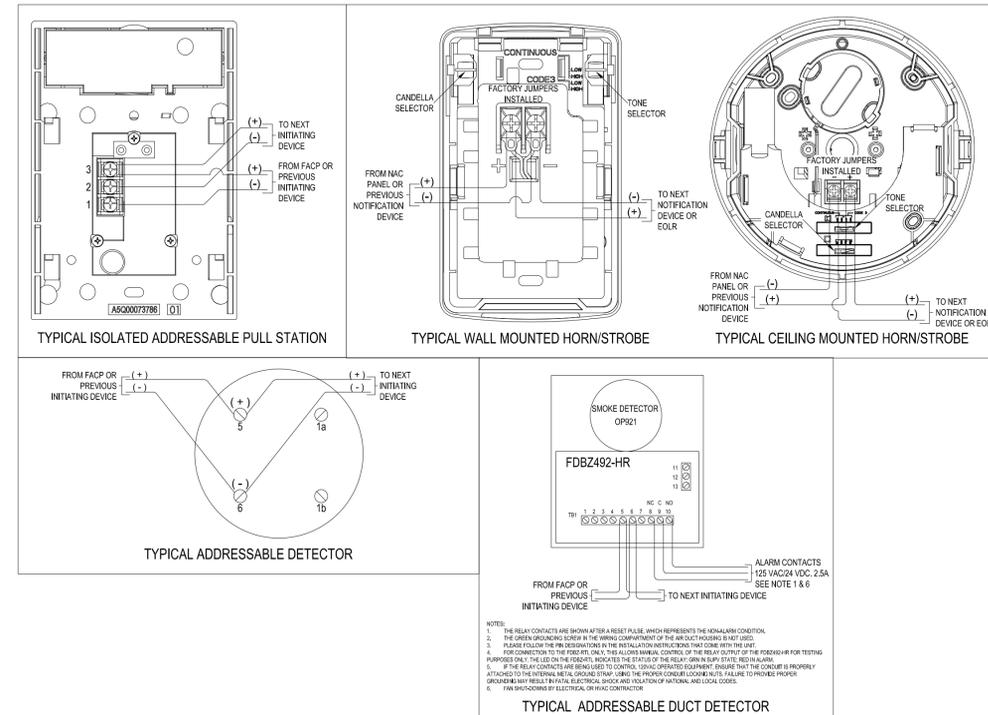
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AT&T AUTHORIZATION: AIMEE BUTLER	DRAWN BY: RO	CHECKED BY: DW
	SHEET: - OF: - SHEETS	SHEET NO.
	AT&T DRAWING NO.: 2001272D50001	D50001



WIRE LEGEND	
A=	1PR. #18 AWC
B=	1PR. #14 AWC

2 FIRE ALARM RISER

NOT TO SCALE



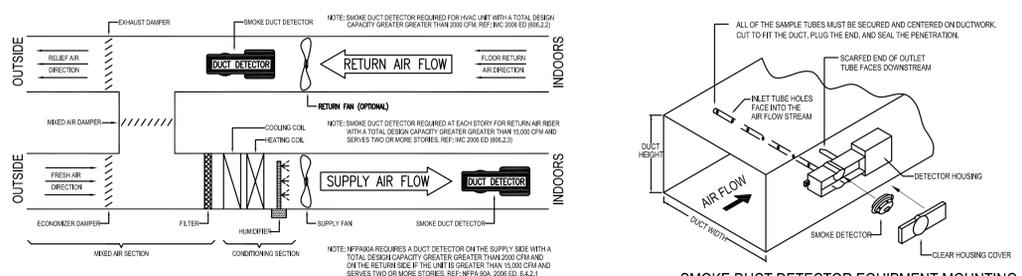
- NOTES:
1. THE RELAY CONTACTS ARE SHOWN AFTER A RESET PULSE, WHICH REPRESENTS THE NORMAL ALARM CONDITION.
 2. THE GREEN WIRING SCHEMATIC IS THE WIRING COMPARTMENT OF THE AIR OUT TAKING AIR MET USED.
 3. PLEASE FOLLOW THE WIRE DESIGNATION IN THE INSTALLATION INSTRUCTIONS THAT COME WITH THE UNIT.
 4. FOR CONNECTOR TO THE FIRE ALARM CONTROL, ENSURE THE RELAY CONTACTS OF THE FDBZ492-HR FOR TESTING PURPOSES ONLY. THE LED ON THE FRONT, INDICATES THE STATUS OF THE RELAY (GREEN BLIP STATE: RED IN ALARM).
 5. IF THE RELAY CONTACTS ARE BEING USED TO CONTROL, ENSURE PROPER EQUIPMENT, ENSURE THAT THE CONTACT IS PROPERLY ATTACHED TO THE INTERNAL METAL GROUND STRAP USING THE PHORCA CONDUIT LOCKING NUTS FAILURE TO PROVIDE PROPER MOUNTING MAY RESULT IN FIRE, ELECTRICAL, SPARK AND VIBRATION OF AIRWAY, AND SOCIAL CODES.
 6. *FAN SHUT-DOWN BY ELECTRICAL OR HVAC CONTRACTOR

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DUCT SMOKE DETECTOR PLACEMENT NOTES:

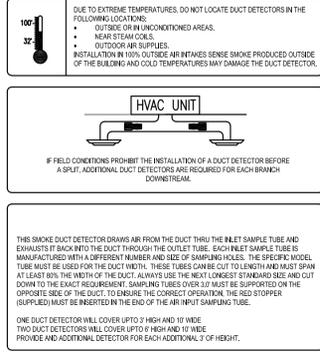
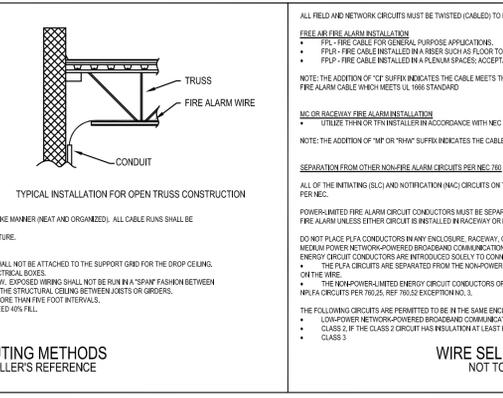
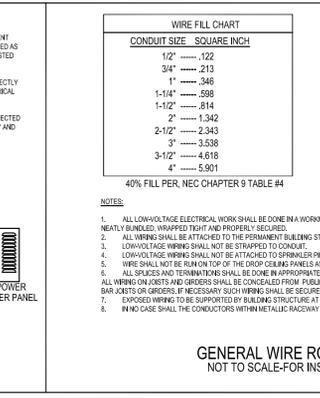
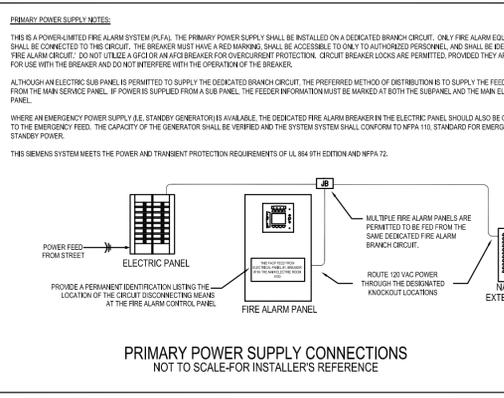
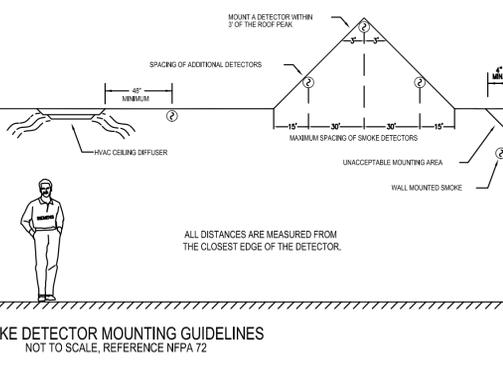
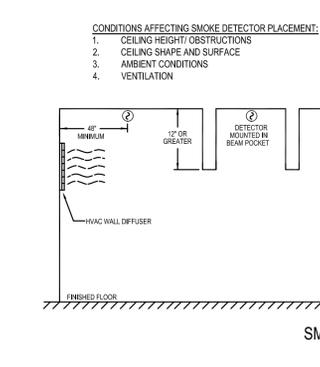
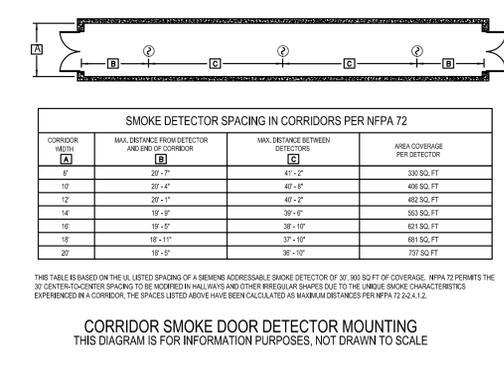
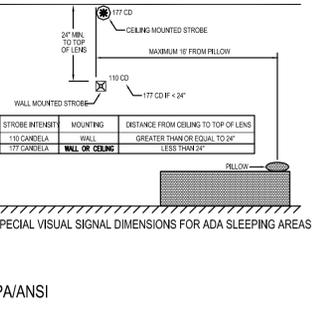
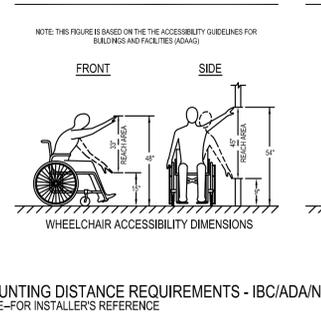
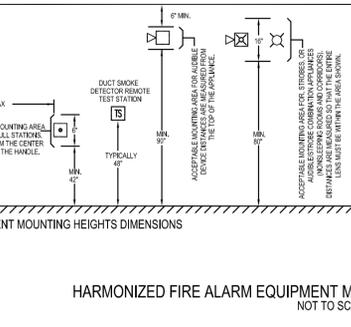
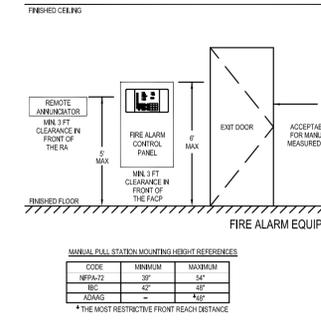
THE PRIMARY PURPOSE OF A SMOKE DETECTOR IS LIFE SAFETY. THE GOAL IS TO LIMIT THE TRAVEL AND RECALCULATION OF SMOKE FROM AREA TO AREA. THE STATE BUILDING CODES REQUIRES BLOWERS TO SHUT DOWN AND DAMPERS ACTIVATE WHEN SMOKE IS PRESENT IN HVAC DUCT WORK. A SECONDARY GOAL IS TO PROTECT THE HVAC SYSTEM FROM FIRE AND SMOKE DAMAGE.

1. THE DETAIL REPRESENTS THE MINIMUM STANDARDS AS DESCRIBED IN THE INTERNATIONAL MECHANICAL CODE. PROJECT REQUIREMENTS AND/OR FIELD CONDITIONS MAY REQUIRE ACHIEVEMENT OF ADDITIONAL DUCT DETECTORS.
2. MOUNT THE DUCT DETECTOR HOUSING ON THE SIDE OF THE DUCT WORK AND VERIFY ACCESSIBILITY FOR MAINTENANCE & TESTING.
3. RETURN SMOKE DETECTOR INSTALLATION SHOULD BE LOCATED AT EVERY RETURN AIR OPENING WITHIN THE SMOKE COMPARTMENT, OR WHERE THE AIR EXITS EACH SMOKE COMPARTMENT OR IN THE DUCT SYSTEM BEFORE AIR ENTERS THE RETURN AIR SYSTEM COMMON TO MORE THAN ONE COMPARTMENT.
4. SUPPLY SMOKE DETECTOR INSTALLATION SHOULD BE DOWNSTREAM OF FANS, FILTERS, CHILLERS, HEATERS, AND HUMIDIFIERS.
5. ALL DUCT DETECTORS SHOULD BE RETURNED TO 10 DUCT WIDTHS DOWNSTREAM FROM OPENINGS, DEFLECTION PLATES, SHARP BENDS, OR BRANCHED CONNECTIONS, WHERE THIS IS PHYSICALLY POSSIBLE. THE DETECTOR CAN BE POSITIONED CLOSER THAN 8 DUCT WIDTHS, BUT AS FAR AS POSSIBLE FROM THE OPENING, BEND, OR PLATE.
6. FOR FURTHER INFORMATION, CONSULT THE INSTALLATION MANUAL INCLUDED WITH EACH UNIT.
7. COORDINATE EXACT LOCATIONS AND QUANTITY OF SMOKE DETECTORS WITH MECHANICAL CONTRACTOR.



HVAC DUCT WIDTH	SAMPLE TUBE MODEL
6" to 12"	ST-10
1" to 3"	ST-25
3" to 5"	ST-100

THE ST-100 IS SHIPPED IN TWO FIRE FOOT PIECES WITH A COUPLING FOR FIELD ASSEMBLY.



START UP CHECK LIST

PANEL POWER UP/DOWN SEQUENCE

ALWAYS WAIT AT LEAST 30 SECONDS AFTER REMOVING POWER TO ALLOW SUPPLY VOLTAGES TO DESSIPATE BEFORE REINSTALLING OR REMOVING ANY COMPONENTS.

POWER UP: CONNECT AC POWER FIRST THEN CONNECT THE BATTERY.

POWER DOWN: DISCONNECT THE BATTERY FIRST THEN DISCONNECT AC POWER.

THE USE OF A GROUNDED WREST STRAP IS RECOMMENDED TO PREVENT ELECTROSTATIC DAMAGE TO ELECTRONIC COMPONENTS WHEN HANDLING OR RELOCATING PANEL EQUIPMENT.

THE FOLLOWING IS A LIST OF CRITERIA THAT MUST BE MET PRIOR TO START UP:

1. MANIPULATE THE FIRE BROWNS THROUGH THE ACTUAL WIRE RUNS. NOTE ANY DISCREPANCIES/CHANGES BETWEEN THE ACTUAL CONDITIONS AND THE SYSTEM DRAWINGS. THEN SUBMIT THESE FIELD NOTES TO SIEMENS FOR THE FINAL AS-BUILT DRAWINGS OF RECORD.
2. VERIFY ALL CIRCUITS HAVE BEEN INSTALLED, ADDRESSED AND SET CORRECTLY. JUMPERS, ETC.) AS REQUIRED.
3. CONTACT YOUR PROJECT MANAGER PRIOR TO SCHEDULED START UP.
4. PRIOR TO COMMISSIONING IF YOUR SYSTEM IS BEING FURNISHED WITH AN OFF-SITE CALLER, TWO (2) 30/30 PHONE JACKS MUST BE INSTALLED WITH 97% OF THE FAC. THESE PHONE LINES MUST BE CONNECTED BEFORE TO ALL BUILDING PHONE EQUIPMENT (NO 1" PREFERRED) AND SHOULD HAVE NO DIAL-OUT RESTRICTIONS. PROVIDE THE SIEMENS PROJECT MANAGER WITH THE CENTRAL STATION ACCOUNT INFORMATION.

CHECK FIRING WITH AN CHIMNEY:

ADHERENCE TO THE FOLLOWING WILL SAVE THE MONEY FOR ALL CONCERNED PARTIES AND AS PART OF THE NFPA 72 FIRE ALARM SYSTEM ACCEPTANCE TEST.

THE INSTALLER MUST PROVIDE WRITTEN CONFIRMATION TO SIEMENS ACKNOWLEDGING ALL CIRCUITS HAVE BEEN TESTED AND FREE OF FAULTS.

CIRCUITS MUST BE FREE OF FAULTS BEFORE MAKING ANY PANEL CONNECTIONS. THE FOLLOWING CONDITIONS SPECIFIC FIRE ALARM TROUBLESHOOTING METHODS TO ASSIST WITH DIAGNOSING FIELD WIRING ISSUES.

STROBE VOLTAGE CHECK:

1. SET THE METER TO 300 VAC OR HIGHER. CONNECT THE LEADS TO EACH CONDUCTOR. THE VOLTAGE SHOULD BE LESS THAN 1 VOLT AC.
2. SET THE METER TO 300 VDC OR HIGHER. CONNECT THE LEADS TO EACH CONDUCTOR. THE VOLTAGE SHOULD BE LESS THAN 1 VOLT DC. REVERSE THE LEADS AND CHECK AGAIN. UNLESS USING A CENTER ZERO OR POLARITY-SENSING METER.
3. TROUBLE SHOOTING: GO TO THE POINT ELECTRICALLY HALF WAY TO THE END OF THE CIRCUIT (IE DEVICE 4 OF 8). DISCONNECT BOTH THE INCOMING AND OUTGOING LEADS FROM THE DEVICE. MEASURE FOR VOLTAGE. IF STRAY VOLTAGE IS STILL PRESENT, LEAVE THE DEVICE DISCONNECTED AND CONTINUE TO SPLIT THE CIRCUIT UNTIL THE PROBLEM IS ISOLATED.

GROUND CHECK:

A GROUND FAULT CONDITION ON FIELD WIRING CAN BE CAUSED BY:

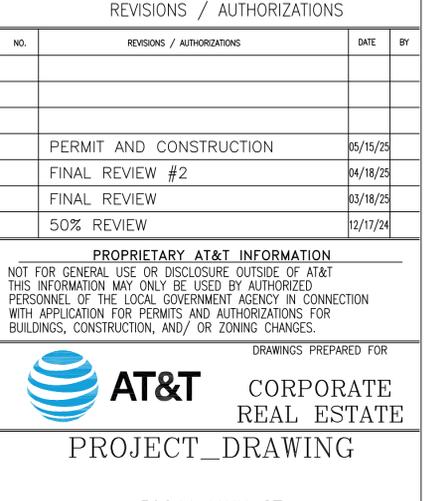
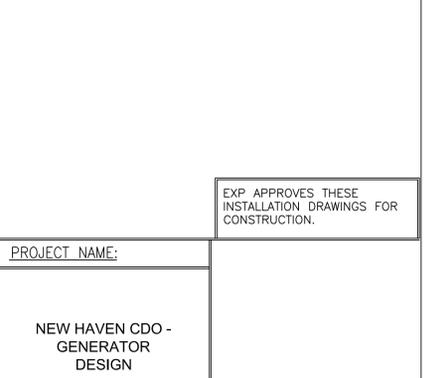
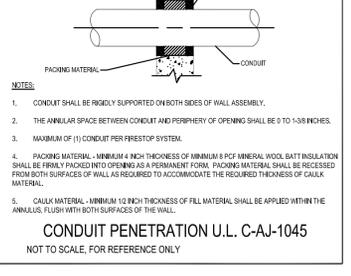
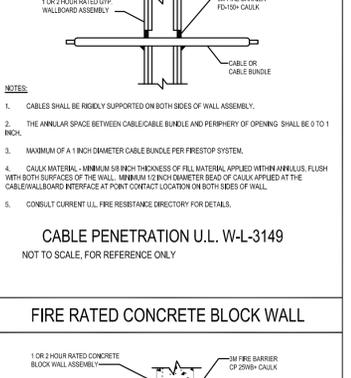
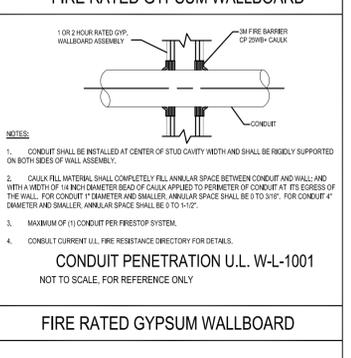
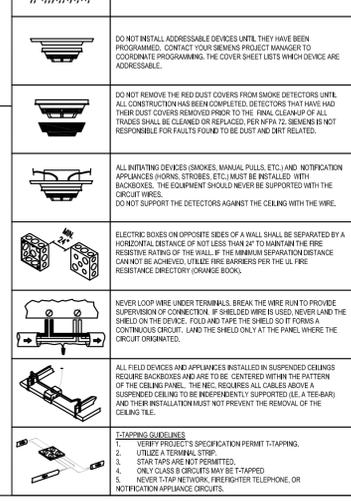
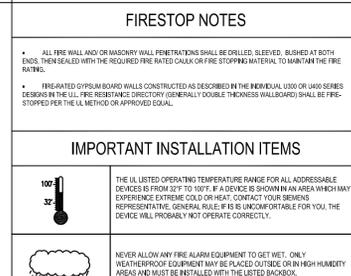
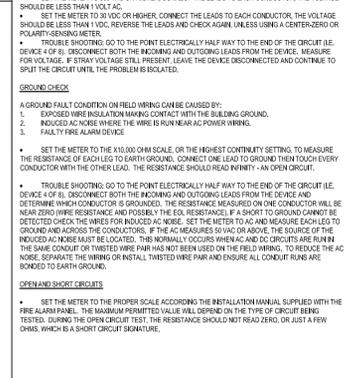
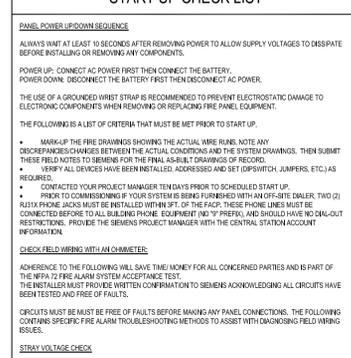
1. EXPOSED FIRE INSULATION MAKING CONTACT WITH THE BUILDING GROUND.
2. INACCESSIBLE NOISE WHERE THE WIRE IS IN CONTACT WITH AC POWER WIRING.
3. FAULTY FIRE ALARM DEVICE

SET THE METER TO THE 10,000 OHM SCALE. OR THE HIGHEST CONTINUITY SETTING. TO MEASURE THE RESISTANCE OF EACH LEG TO GROUND. CONNECT ONE LEAD TO GROUND THEN TOUCH EVERY CONDUCTOR WITH THE OTHER LEAD. THE RESISTANCE SHOULD READ INFINITY - AN OPEN CIRCUIT.

TROUBLE SHOOTING: GO TO THE POINT ELECTRICALLY HALF WAY TO THE END OF THE CIRCUIT (IE DEVICE 4 OF 8). DISCONNECT BOTH THE INCOMING AND OUTGOING LEADS FROM THE DEVICE AND CLAMP THEM TO THE OTHER LEAD. THE RESISTANCE SHOULD READ INFINITY. IF THE SOURCE OF THE INDICATED NOISE MUST BE LOCATED, THE NORMAL OCCURS WHERE AC AND DC CIRCUITS ARE RUN IN THE SAME CONDUIT OR TWISTED TOGETHER. IF THE WIRE HAS NOT BEEN USED ON THE FIELD WIRING, TO REDUCE THE AC NOISE, SEPARATE THE WIRING OR INSTALL TWISTED WIRE PAIR AND ENSURE ALL CONDUIT RUNS ARE BONDING AND GROUNDING.

GROUND SHORT CHECKS:

SET THE METER TO THE PROPER SCALE ACCORDING TO THE INSTALLATION MANUAL SUPPLIED WITH THE FIRE ALARM PANEL. THE MAXIMUM PERMITTED WIRE WALL OPENING FOR THE TYPE OF WIRE MUST BE TESTED. DURING THE OPEN CIRCUIT TEST, THE RESISTANCE SHOULD NOT READ ZERO, OR JUST A FEW OHMS, WHICH IS A SHORT CIRCUIT TO GROUND.



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NOTES AND DETAILS FIRE ALARM

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VILLAGE OF NEW HAVEN
MACOMB COUNTY, MICHIGAN
DATA CENTER MORATORIUM

Resolution No. 2026-001

At a regular meeting of the Village of New Haven Council held on January 13, 2026 at the Village Hall, 57775 Main Street, New Haven, Michigan, the following resolution was offered

by M. Pruccali and seconded by F. Nona.

A Resolution Imposing a Temporary Moratorium for a period of twelve (12) months on the establishing, permitting, consideration, approval, location, construction, and/or installation of any data centers in the Village of New Haven.

WHEREAS, the Village currently has office buildings for data processing listed as a use permitted by right in Article XIII, Industrial Office (IO) District of its Zoning Ordinance, but has yet to establish, approve, and implement additional standards specific for modern data centers; and

WHEREAS, it has recently come to the attention of the Village Council that the Village should study and review whether data centers require additional local regulation within the Village of New Haven, and whether absent such additional local regulation, data centers may interfere with other land uses, and may have substantial impacts on the environment, public health, safety, and welfare; and

WHEREAS, the Village of New Haven has a legitimate public purpose in assessing the regulation of the establishment and use of data centers within the Village; and

WHEREAS, the Village Council is desirous of assessing its regulations to implement an appropriate regulatory approach for addressing potential impacts of data centers while ensuring the productive and healthy development of data centers within the Village, which may include designated areas where data centers may be located within the Village; and

WHEREAS, the Village Council wishes to consider and assess amendments to its current regulations regarding the use of data centers that are consistent with all applicable state and federal laws, including any controlling precedent from the Michigan, federal and state courts, and the United States Supreme Court; and

WHEREAS, the time to consider and assess regulation of data centers will take several months; and

WHEREAS, the Village is legitimately invested in ensuring that data centers do not interfere with other land uses, or have substantial negative impacts on the environment, public health, safety, and welfare; and

WHEREAS, it is a routine and an appropriate method to enact a reasonable and temporary moratorium to consider enactment of any amendment; and

WHEREAS, the Village Council finds that it is necessary and reasonable to establish a temporary moratorium on the establishment and use of data centers within the Village for twelve (12) months or until the Village has enacted a regulatory ordinance setting forth the regulations for the establishment and use of data centers within the Village.

NOW, THEREFORE, BE IT RESOLVED by the Village Council as follows:

Section 1: Moratorium. The Village hereby temporarily enacts a blanket prohibition on the establishment and use of data centers, including without limitation, approval of such use within the Village, pending further study and enactment of Village regulation addressing the same.

Section 2: Term; Renewal. This Moratorium shall terminate and be of no further effect twelve (12) months from the effective date of this Moratorium unless the Village Council adopts a resolution extending the moratorium or terminating the moratorium.

Section 3: Waiver. A waiver of the moratorium may be granted upon the request of an applicant if the Village Council finds that a waiver would not negatively impact the health, safety, and welfare of the Village and is deemed reasonable by the Village Council in exercising its legislative authority over land use regulation to remain consistent with the Village Zoning Ordinance.

Section 4: Effective Date. This Moratorium shall take effect immediately.

YEAS: M. Prucali, F. Pena, C. Guerrero, C. Dilbert, J. Balowski, B. Measin.

NAYS: ∅

ABSENT: A. Hashem

Resolution adopted this day of January 13, 2026