

# Harnett County Environmental Health

File/Permit Number: BCom 2404-0007

## IMPROVEMENT PERMIT

County: HARNETT

PIN/Lot Identifier: \_\_\_\_\_

Owner: DUKE ENERGY Applicant: Tyler Cole

Property Location: 1325 Poneskomo RD DUNN N.C. 28354

Subdivision (if applicable) \_\_\_\_\_ Lot #: \_\_\_\_\_ Block: \_\_\_\_\_ Section: \_\_\_\_\_

New  Expansion  System Relocation  Change of Use

Facility Type: DUKE Energy Warehouse

Number of bedrooms: — Number of Occupants: 125 employees per shift Other: \_\_\_\_\_

Design Wastewater Strength:  Domestic  High Strength  Industrial Process Wastewater

Proposed Design Daily Flow: 2125 <sup>MGD</sup> Proposed LTAR (Initial): .35 Proposed LTAR (Repair): \_\_\_\_\_

Proposed Wastewater System Type\*: Conventional (Initial) Pump Required:  Yes  No  May be required

Proposed Wastewater System Type\*: Conventional (Repair) Pump Required:  Yes  No  May be required

\*Please include system classification for proposed wastewater system types in accordance with Rule .1301 Table XXXII

Effluent Standard:  DSE  HSE  NSF/ANSI 40  TS-I  TS-II  RCW

Saprolite System (Initial):  Yes  No Saprolite System (Repair):  Yes  No

Fill System (Initial):  Yes  No If yes, specify:  New  Existing (when adding more than 6 inches of fill to system area provide a fill plan)

Fill System (Repair):  Yes  No If yes, specify:  New  Existing (when adding more than 6 inches of fill to system area provide a fill plan)

Usable Depth to LC (Initial)\*: 37" Usable Depth to LC (Repair)\*: 37" \* Limiting Condition

Max. Trench Depth (Initial)\*: 24" Max. Trench Depth (Repair)\*: 24" \* Measured on the downhill side of the trench

Artificial Drainage Required:  Yes  No If yes, please specify details: \_\_\_\_\_

Type of Water Supply:  Private well  Public well  Shared well  Municipal Supply  Spring  Other: \_\_\_\_\_

Drainfield location meets requirements of Rule .0508: Yes  No  Drainfield location meets requirements of Rule .0601: Yes  No

Permit valid for:  Five years [site plan submitted pursuant to GS 130A-334(13a)]  No expiration [plat submitted pursuant to GS 130A-334(7a)]

Permit conditions: Flow Equalization see CONSULTANTS LAYOUT SHEET FOR SPECIFICATIONS

Authorized Agent's Printed Name: James E. Mahant III PE

Expiration Date: 8-28-25

Authorized Agent's Signature: James E. Mahant III PE

Date: 8-28-24

\*See attached site sketch\*

The issuance of this permit in no way guarantees the issuance of other permits. The permit holder is responsible for checking with appropriate governing bodies in meeting their requirements. This permit is subject to revocation if the site plan, plat, or the intended use changes. The Improvement Permit shall not be affected by a change in ownership of the site. This permit is subject to compliance with the provisions of 15A NCAC 18E and to the conditions of this permit.

# Harnett County Environmental Health

File/Permit Number: BCDM 2404-007

## CONSTRUCTION AUTHORIZATION

County: Harnett PIN/Lot Identifier: \_\_\_\_\_  
Owner: DUKB Energy Applicant: Tyler Cole  
Property Location: 1325 Foresters Rd Dunn N.C. 28334  
Facility Type: DUKB Energy Warehouse  
Number of bedrooms: 3 Number of Occupants: \_\_\_\_\_ Other: \_\_\_\_\_

New  Expansion  Repair  System Relocation  Change of Use  
Basement?  Yes  No Basement Fixtures?  Yes  No  
Crawl Space?  Yes  No Slab Foundation?  Yes  No  
Type of Wastewater System\* Covered (Initial) Conventional (Repair)

\*Please include system classification for proposed wastewater system types in accordance with Rule .1301 Table XXXII

Design Daily Flow: 2125 GPD Wastewater Strength:  Domestic  High Strength  Industrial Process Wastewater  
Rule .0403(e) Engineering Design Utilizing Low-flow Fixtures and Low-flow Technologies (S.L. 2013-413 and 2014-120)?  Yes  No  
(if yes, please provide engineering documentation)

Effluent Standard:  DSE  HSE  NSF/ANSI 40  TS-I  TS-II  RCW  
Type of Water Supply:  Private well  Public well  Shared well  Municipal Supply  Spring  Other: \_\_\_\_\_

### Installation Requirements/Conditions

Septic Tank Size: \_\_\_\_\_ gallons Total Trench/Bed Length: \_\_\_\_\_ feet Trench/Bed Spacing: \_\_\_\_\_ feet on center  
Trench/Bed Width: \_\_\_\_\_ inches LTAR: \_\_\_\_\_ gpd/ft<sup>2</sup> Usable Depth to LC (Initial)\*: \_\_\_\_\_ **\*Limiting condition**  
Soil Cover: \_\_\_\_\_ inches Slope Corrected Maximum Trench/Bed Depth\*: \_\_\_\_\_ inches **\* Measured on the downhill side of the trench**  
Pump Tank Size (if applicable): \_\_\_\_\_ gallons Requires more than one pump?  Yes  No  
Pump Requirements: \_\_\_\_\_ ft. TDH vs. \_\_\_\_\_ GPM Grease Trap Size (if applicable): \_\_\_\_\_ gallons  
Distribution Method:  Serial  D-Box or Parallel  Pressure Manifold(s)  LPP  Other: \_\_\_\_\_  
Artificial Drainage Required: Yes  No  If yes, please specify details: \_\_\_\_\_

### Legal Agreements (If the answer is "Yes" to any type of legal agreements, please attach a copy of the agreement.)

Multi-party Agreement Required [Rule .0204(g)]:  Yes  No  
Easement, Right-of-Way, or Encroachment Agreement Required [Rule .0204(d)]:  Yes  No  
Declaration of Restrictive Covenants:  Yes  No Pre-Construction Conference Required: Yes  No   
Management Entity Required:  Yes  No Minimum O&M Requirements: \_\_\_\_\_

Conditions:  
See Consultant Report for All Specifications on Septic System IT IS ATTACHED TO THIS PERMIT

The requirements of 15A NCAC 18E are incorporated by reference into this permit and shall be met. Systems shall be installed in accordance with the attached site sketch. This Construction Authorization is subject to revocation if the site plan, plat, or the intended use changes. The Construction Authorization shall not be affected by a change in ownership of the site. This Construction Authorization is subject to compliance with the provisions of 15A NCAC 18E, or 15A NCAC 18A .1900, as applicable, and to the conditions of this permit.

Authorized Agent's Printed Name: James E. Markham Expiration Date: 8-28-25  
Authorized Agent's Signature: James E. Markham Date: 8-28-24

Harnett County Environmental Health

SITE SKETCH

PIN \_\_\_\_\_

Permit Number BLDM 2404-0007

Tyler Cole  
Applicant's Name

Subdivision/Section/Lot Number  
8-78-24

James E. Mark  
Authorized State Agent

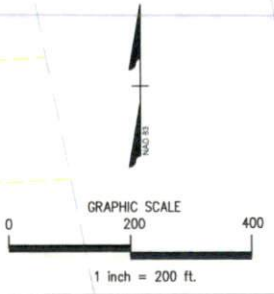
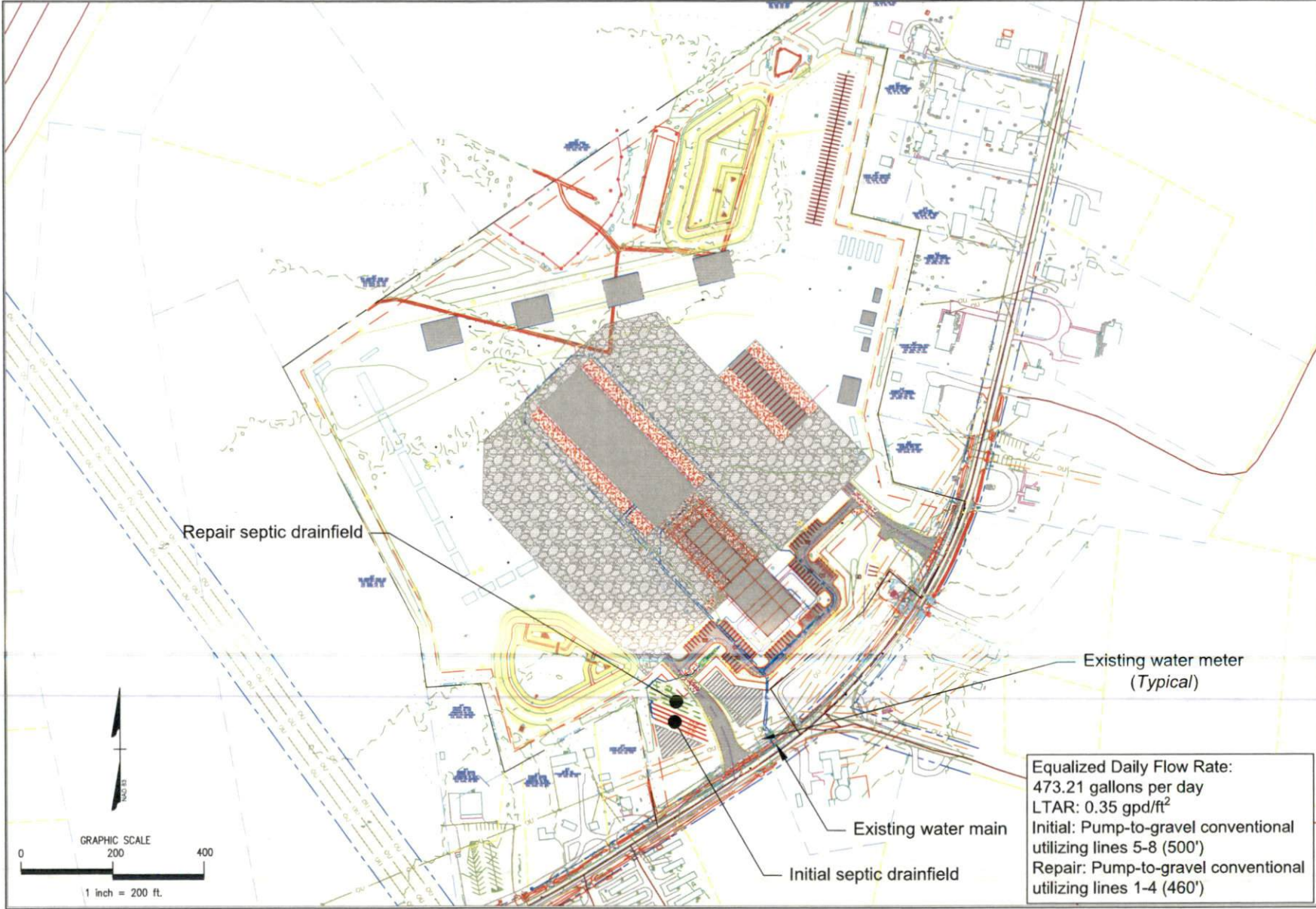
Date

System components represent approximate contours only. The contractor must flag the system prior to beginning the installation to ensure that the proper grade is maintained.

Scale = \_\_\_\_\_

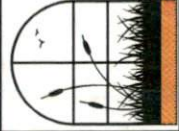
\* See Consultant Report for Complete Layout. TANKS SIZES + Location of Inlets/Outlets, length + Depth ARE ALL IN Report.

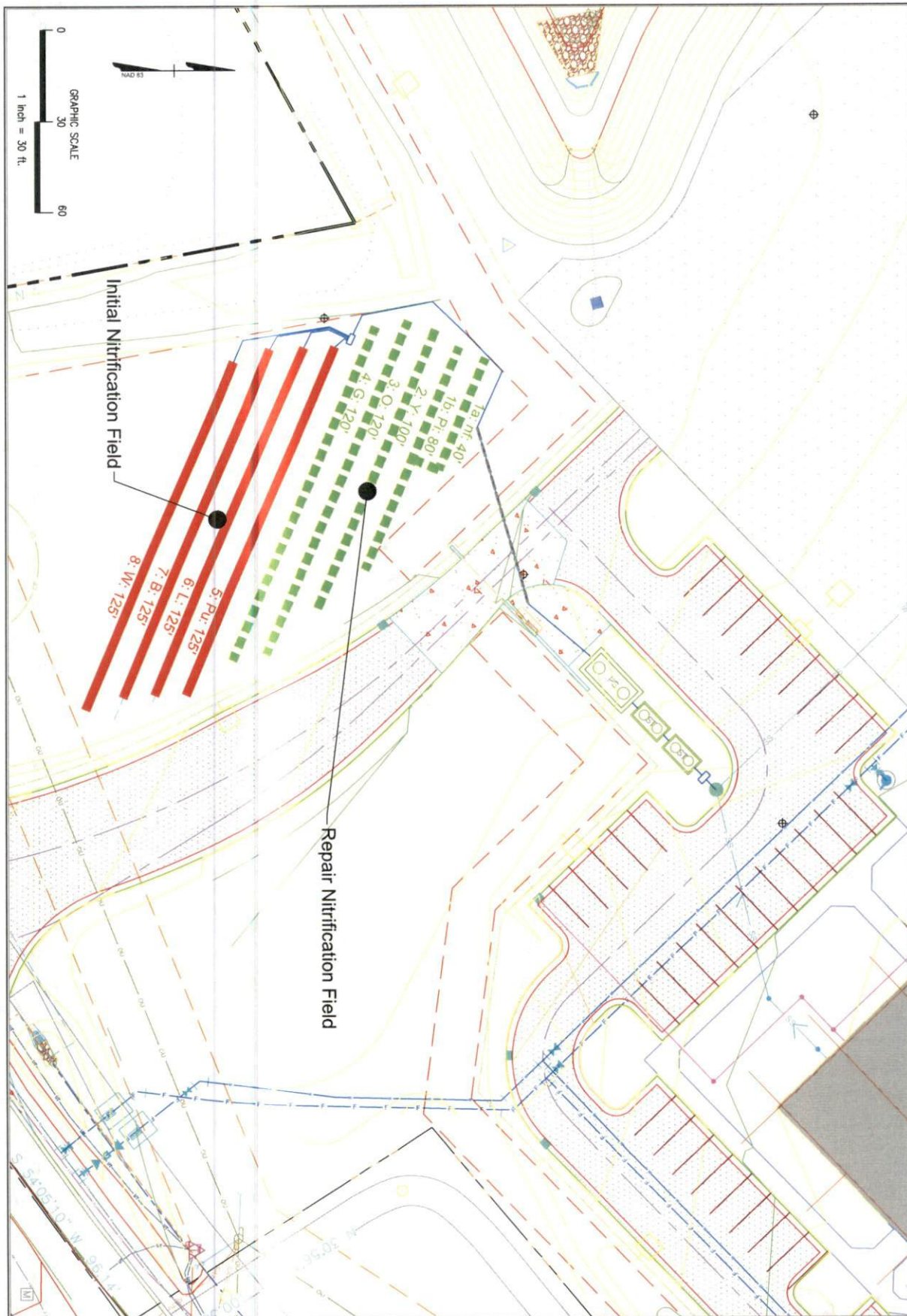
\* Contact Environmental Health WITH ANY questions About Permit Prior to INSTALL.



Equalized Daily Flow Rate:  
473.21 gallons per day  
LTAR: 0.35 gpd/ft<sup>2</sup>  
Initial: Pump-to-gravel conventional  
utilizing lines 5-8 (500')  
Repair: Pump-to-gravel conventional  
utilizing lines 1-4 (460')

<b>MITCHELL ENVIRONMENTAL, PA</b> C-2917 1501 LAKESTONE VILLAGE LANE SUITE 205 FUQUAY VARINA, NC 27526	PREPARED FOR : McName 200 Meridian Parkway Durham, NC 27713	REVISION NO. Original Submittal	DATE December 2, 2022	SHEET NUMBER <b>1 of 10</b>
	DATE : September 20, 2024 ENGINEER AND SEAL SCIENTIST CONTACT: SCOTT MITCHELL, PE, LISC	Revision 1 Revision 2 Revision 3	July 5, 2023 September 20, 2024	Project Numbers: #122
	DRAWN BY: ADAM WYCKOCK, E	Water S&T		Duke Energy Dunn Site Overall Septic



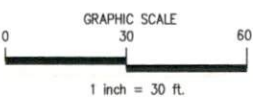
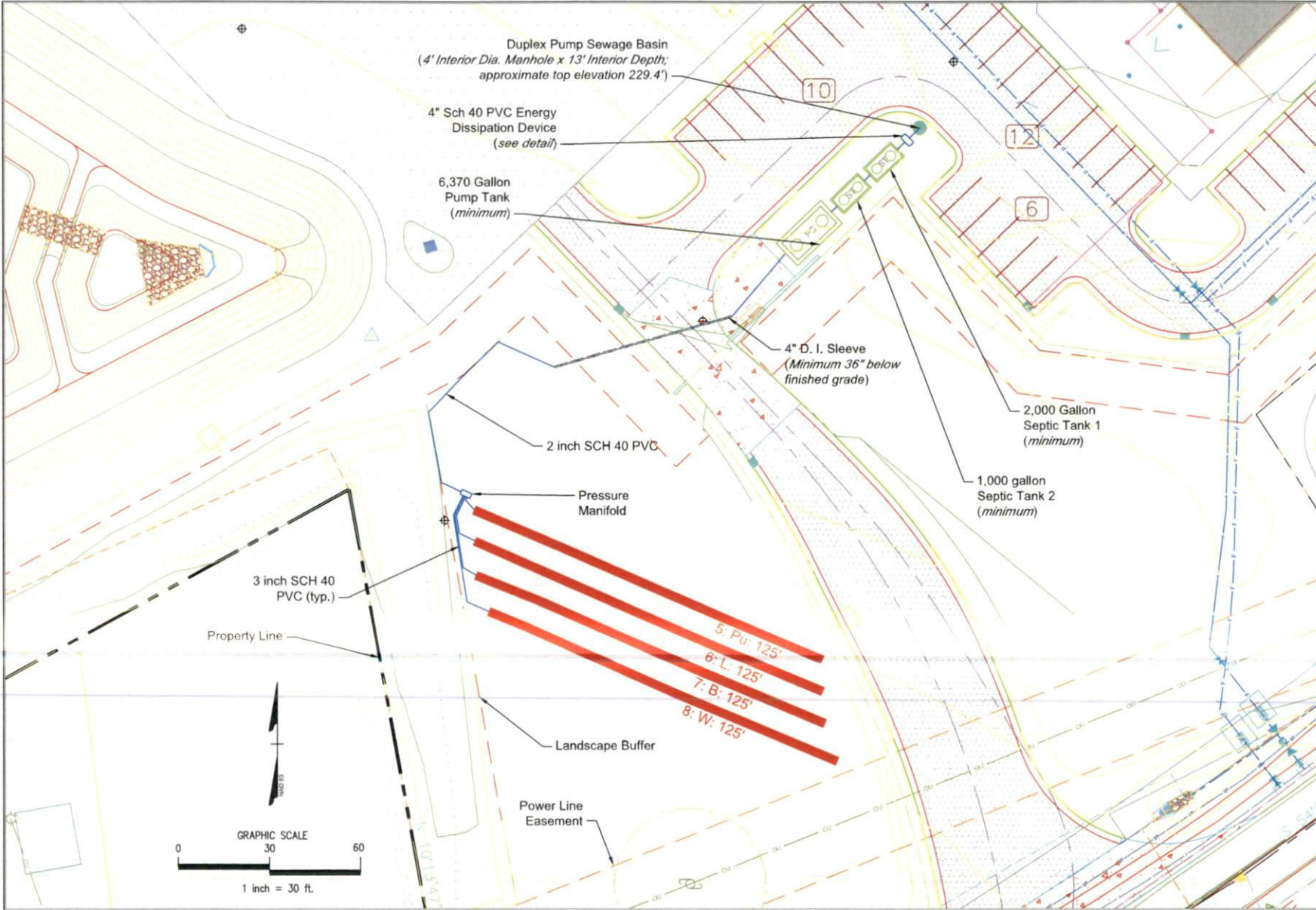


**MITCHELL ENVIRONMENTAL, PA**  
**C-2911**  
 1501 LAKESTONE VILLAGE LANE  
 SUITE 205  
 FUQUAY VARINA, NC 27526

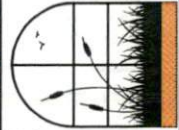
PREPARED FOR : McAdams  
 2905 Meridian Parkway  
 Durham, NC 27713  
 DATE : September 20, 2024  
 ENGINEER AND SOIL SCIENTIST CONTACT:  
 SCOTT MITCHELL, PE, LSS  
 DRAWN BY:  
 ADAM AYCOCK, EI

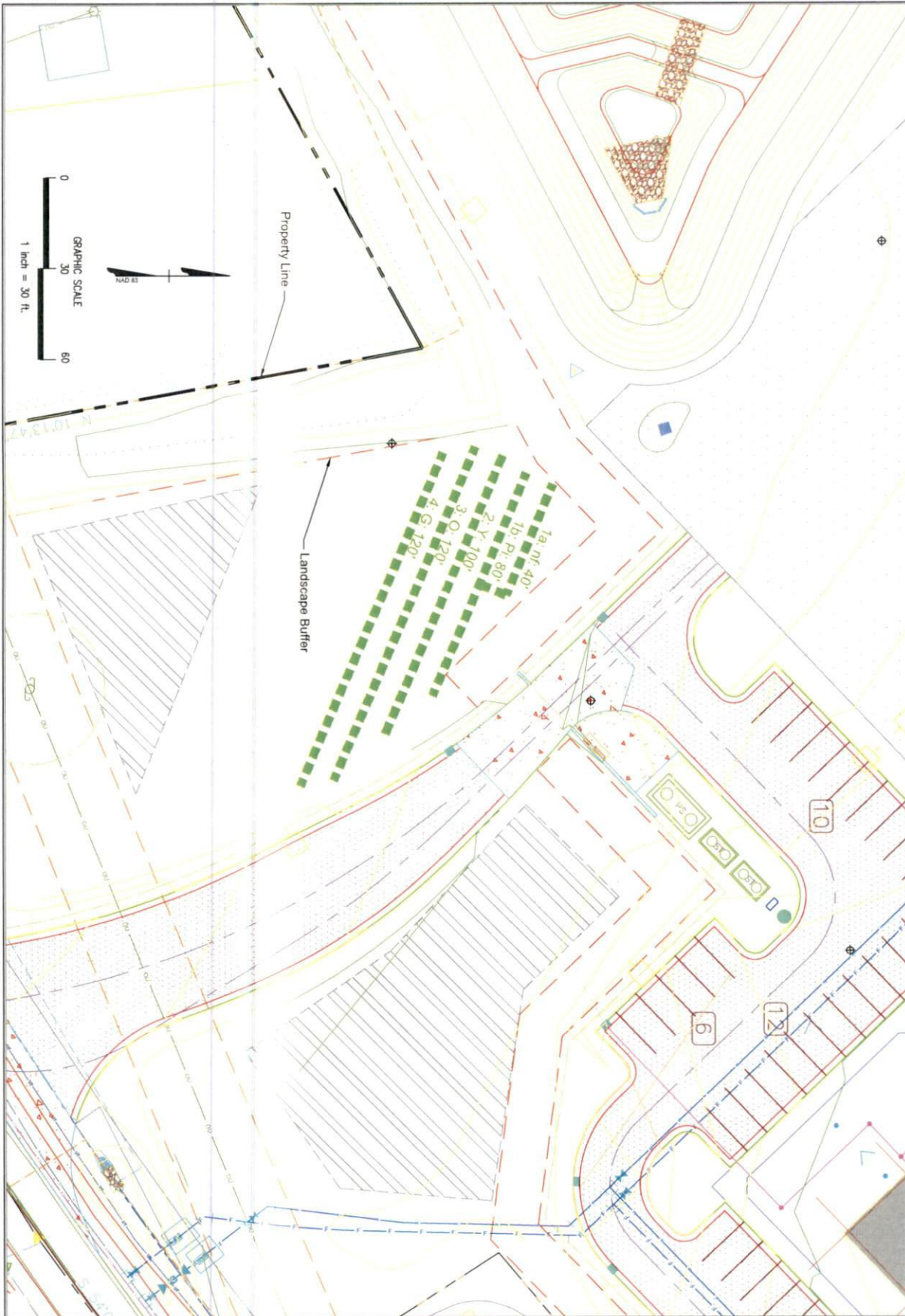
REVISION NO.	DATE
Original Submittal	December 2, 2022
Revision 1	July 5, 2023
Revision 2	September 20, 2024
Revision 3	-----
Master Set	-----

**SHEET NUMBER**  
**2 of 10**  
 Project Number: 2122  
 Duke Energy  
 Dunn Site  
 Overall Septic - Zoom



<b>MITCHELL ENVIRONMENTAL, PA</b> <b>C-2917</b>		<b>SHEET NUMBER</b> <b>3 of 10</b>	
<b>1501 LAKESTONE VILLAGE LANE</b> <b>SUITE 205</b> <b>FUQUAY VARINA, NC 27526</b>		Project Number: 2122 Duke Energy Dunn Site Initial Nitrogenation Field	
PREPARED FOR 2000 Meridian Parkway Durham, NC 27713		REVISION NO. Original Submittal Revision 1 Revision 2 Revision 3 Water Set	
DATE: September 20, 2024 ENGINEER AND SOIL SCIENTIST CONTACT: SCOTT MITCHELL, PE, LIS DRAWN BY: ADAM AYCOCK, E		DATE December 2, 2022 July 5, 2023 September 20, 2024 October 8, 2024	





**MITCHELL ENVIRONMENTAL, PA**  
 C-2911  
 1501 LAKESTONE VILLAGE LANE  
 SUITE 205  
 FUQUAY VARINA, NC 27526

PREPARED FOR: McAdams  
 2905 Meridian Parkway  
 Durham, NC 27713  
 DATE: September 20, 2024  
 ENGINEER AND SOIL SCIENTIST CONTACT:  
 SCOTT MITCHELL, PE, LSS  
 DRAWN BY:  
 ADAM AYCOCK, EI

REVISION NO.	DATE
Original Submittal	December 2, 2022
Revision 1	July 5, 2023
Revision 2	September 20, 2024
Revision 3	-----
Master Set	-----

**SHEET NUMBER**  
 4 of 10  
 Project Number: 2122  
 Duke Energy  
 Dunn Site  
 Repair Nitrification Field