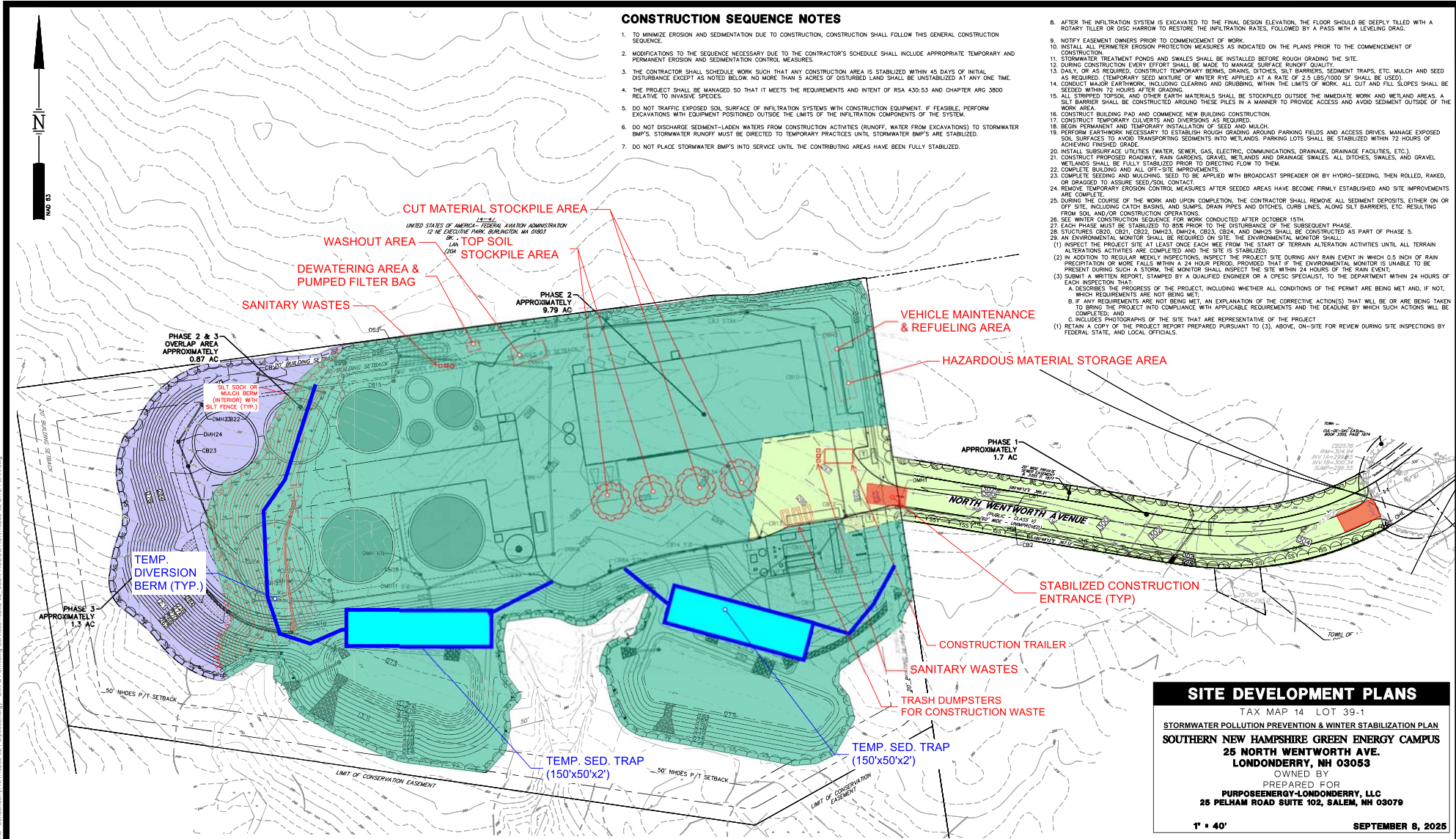


CONSTRUCTION SEQUENCE NOTES

1. TO MINIMIZE EROSION AND SEDIMENTATION DUE TO CONSTRUCTION, CONSTRUCTION SHALL FOLLOW THIS GENERAL CONSTRUCTION SEQUENCE.
2. MODIFICATIONS TO THE SEQUENCE NECESSARY DUE TO THE CONTRACTOR'S SCHEDULE SHALL INCLUDE APPROPRIATE TEMPORARY AND PERMANENT EROSION AND SEDIMENTATION CONTROL MEASURES.
3. THE CONTRACTOR SHALL SCHEDULE WORK SUCH THAT ANY CONSTRUCTION AREA IS STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE EXCEPT AS NOTED BELOW. NO MORE THAN 5 ACRES OF DISTURBED LAND SHALL BE UNSTABILIZED AT ANY ONE TIME.
4. THE PROJECT SHALL BE MANAGED SO THAT IT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER ARG 3800 RELATIVE TO INVASIVE SPECIES.
5. DO NOT TRAFFIC EXPOSED SOIL SURFACE OF INFILTRATION SYSTEMS WITH CONSTRUCTION EQUIPMENT. IF FEASIBLE, PERFORM EXCAVATIONS WITH EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE INFILTRATION COMPONENTS OF THE SYSTEM.
6. DO NOT DISCHARGE SEDIMENT-LADEN WATERS FROM CONSTRUCTION ACTIVITIES (RUNOFF, WATER FROM EXCAVATIONS) TO STORMWATER BMP'S. STORMWATER RUNOFF MUST BE DIRECTED TO TEMPORARY PRACTICES UNTIL STORMWATER BMP'S ARE STABILIZED.
7. DO NOT PLACE STORMWATER BMP'S INTO SERVICE UNTIL THE CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED.

8. AFTER THE INFILTRATION SYSTEM IS EXCAVATED TO THE FINAL DESIGN ELEVATION, THE FLOOR SHOULD BE DEEPLY TILLED WITH A ROTARY TILLER OR DISC HARROW TO RESTORE THE INFILTRATION RATES, FOLLOWED BY A PASS WITH A LEVELING DRAG.
9. NOTIFY EASEMENT OWNERS PRIOR TO COMMENCEMENT OF WORK.
10. INSTALL ALL PERIMETER EROSION PROTECTION MEASURES AS INDICATED ON THE PLANS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
11. STORMWATER TREATMENT POUNDS AND SWALES SHALL BE INSTALLED BEFORE ROUGH GRADING OF THE SITE.
12. DURING CONSTRUCTION EVERY EFFORT SHALL BE MADE TO MAINTAIN SURFACE RUNOFF QUALITY.
13. DAILY, OR AS REQUIRED, CONSTRUCT TEMPORARY BERMS, DRAINS, DITCHES, SILT BARRIERS, SEDIMENT TRAPS, ETC. MULCH AND SEED AS REQUIRED. (TEMPORARY SEED MIXTURE OF WINTER RYE APPLIED AT A RATE OF 2.5 LBS/1000 SF SHALL BE USED).
14. CONDUCT MAJOR EARTHWORK, INCLUDING CLEARING AND GRUBBING, WITHIN THE LIMITS OF WORK. ALL CUT AND FILL SLOPES SHALL BE SEED WITHIN 72 HOURS AFTER GRADING.
15. ALL STRIPPED TOPSOIL AND OTHER EARTH MATERIALS SHALL BE STOCKPILED OUTSIDE THE IMMEDIATE WORK AND WETLAND AREAS. A SILT BARRIER SHALL BE CONSTRUCTED AROUND THESE PILES IN A MANNER TO PROVIDE ACCESS AND AVOID SEDIMENT OUTSIDE OF THE WORK AREA.
16. CONSTRUCT BUILDING PAD AND COMMENCE NEW BUILDING CONSTRUCTION.
17. CONSTRUCT TEMPORARY CULVERTS AND DIVERSIONS AS REQUIRED.
18. BEGIN PERMANENT AND TEMPORARY INSTALLATION OF SEED AND MULCH.
19. PERFORM EARTHWORK NECESSARY TO ESTABLISH ROUGH GRADING AROUND PARKING FIELDS AND ACCESS DRIVES. MANAGE EXPOSED SOIL SURFACES TO AVOID TRANSPORTING SEDIMENTS INTO WETLANDS. PARKING LOTS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
20. INSTALL SUBSURFACE UTILITIES (WATER, SEWER, GAS, ELECTRIC, COMMUNICATIONS, DRAINAGE, DRAINAGE FACILITIES, ETC.).
21. CONSTRUCT PROPOSED ROADWAY, RAIN GARDENS, GRAVEL WETLANDS AND DRAINAGE SWALES. ALL DITCHES, SWALES, AND GRAVEL WETLANDS SHALL BE FULLY STABILIZED PRIOR TO DIRECTING FLOW TO THEM.
22. COMPLETE BUILDING AND ALL OFF-SITE IMPROVEMENTS.
23. COMPLETE SEEDING AND MULCHING. SEED TO BE APPLIED WITH BROADCAST SPREADER OR BY HYDRO-SEEDING, THEN ROLLED, RAKED, OR DRAGGED TO ASSURE SEED/SOIL CONTACT.
24. REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER SEEDING AREAS HAVE BECOME FIRMLY ESTABLISHED AND SITE IMPROVEMENTS ARE COMPLETE.
25. DURING THE COURSE OF THE WORK AND UPON COMPLETION, THE CONTRACTOR SHALL REMOVE ALL SEDIMENT DEPOSITS, EITHER ON OR OFF SITE, INCLUDING CATCH BASINS, AND SUMPS, DRAIN PIPES AND DITCHES, CURB LINES, ALONG SILT BARRIERS, ETC. RESULTING FROM SOIL AND/OR CONSTRUCTION OPERATIONS.
26. SEE WINTER CONSTRUCTION SEQUENCE FOR WORK CONDUCTED AFTER OCTOBER 15TH.
27. EACH PHASE MUST BE STABILIZED TO 85% PRIOR TO THE DISTURBANCE OF THE SUBSEQUENT PHASE.
28. STRUCTURES (CULV, CULV, DRAINS, DRAINS, DRAIN, DRAIN, DRAIN, DRAIN, DRAIN) SHALL BE CONSTRUCTED AS PART OF PHASE 5.
29. AN ENVIRONMENTAL MONITOR SHALL BE REQUIRED ON SITE. THE ENVIRONMENTAL MONITOR SHALL:
 - (1) INSPECT THE PROJECT SITE AT LEAST ONCE EACH WEEK FROM THE START OF TERRAIN ALTERATION ACTIVITIES UNTIL ALL TERRAIN ALTERATION ACTIVITIES ARE COMPLETED AND THE SITE IS STABILIZED.
 - (2) IN ADDITION TO REGULAR WEEKLY INSPECTIONS, INSPECT THE PROJECT SITE DURING ANY RAIN EVENT IN WHICH 0.5 INCH OF RAIN PRECIPITATION OR MORE FALLS WITHIN A 24 HOUR PERIOD, PROVIDED THAT IF THE ENVIRONMENTAL MONITOR IS UNABLE TO BE PRESENT DURING SUCH A STORM, THE MONITOR SHALL INSPECT THE SITE WITHIN 24 HOURS OF THE RAIN EVENT.
 - (3) SUBMIT A WRITTEN REPORT, STAMPED BY A QUALIFIED ENGINEER OR A SPECIALLY TRAINED PERSONNEL, TO THE DEPARTMENT WITHIN 24 HOURS OF EACH INSPECTION THAT:
 - A. DESCRIBES THE PROGRESS OF THE PROJECT, INCLUDING WHETHER ALL CONDITIONS OF THE PERMIT ARE BEING MET AND, IF NOT, WHICH REQUIREMENTS ARE NOT BEING MET;
 - B. IF ANY REQUIREMENTS ARE NOT BEING MET, AN EXPLANATION OF THE CORRECTIVE ACTION(S) THAT WILL BE OR ARE BEING TAKEN TO BRING THE PROJECT INTO COMPLIANCE WITH APPLICABLE REQUIREMENTS AND THE DEADLINE BY WHICH SUCH ACTIONS WILL BE COMPLETED; AND
 - C. INCLUDES PHOTOGRAPHS OF THE SITE THAT ARE REPRESENTATIVE OF THE PROJECT.
30. RETAIN A COPY OF THE PROJECT REPORT PREPARED PURSUANT TO (3), ABOVE, ON-SITE FOR REVIEW DURING SITE INSPECTIONS BY FEDERAL, STATE, AND LOCAL OFFICIALS.



SITE DEVELOPMENT PLANS

TAX MAP 14 LOT 39-1
STORMWATER POLLUTION PREVENTION & WINTER STABILIZATION PLAN
SOUTHERN NEW HAMPSHIRE GREEN ENERGY CAMPUS
25 NORTH WENTWORTH AVE.
LONDONDERRY, NH 03053

PREPARED FOR
PURPOSEENERGY-LONDONDERRY, LLC
25 PELHAM ROAD SUITE 102, SALEM, NH 03079

1" = 40' **SEPTEMBER 8, 2025**

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This plan is not effective unless signed by a duly authorized officer of TFMoran, Inc.

HORIZONTAL SCALE 1" = 40'

40 20 0 40

REV	DATE	DESCRIPTION	JD	NG
1	9/12/2025	UPDATE FOR SUBMITTAL		

TFM

Civil Engineers
Structural Engineers
Traffic Engineers
Land Surveyors
Landscape Architects
Scientists

OWNED BY
PURPOSEENERGY-LONDONDERRY, LLC

48 Constitution Drive
 Bedford, NH 03110
 Phone (603) 472-4488
 Fax (603) 472-9747
 www.tfmoran.com

18252-02 DR

FB CADFILE

18252-02 SITE PLAN

PH-1

Date: 09/2025 - 12:20pm

GENERAL INFORMATION

OWNER
MAP 14 LOT 39
EDWARD NICHOLAS F TRUST 2012
162 LITCHFIELD ROAD
LONDONDERRY, NH 03053
603-432-1100

APPLICANT
PURPOSEENERGY-LONDONDERRY, LLC
C/O SEAN OWEN
25 PELHAM ROAD, SUITE 102
SALEM, NH 03079
6172029156

PREPARED FOR
PURPOSEENERGY-LONDONDERRY, LLC
C/O SEAN OWEN
25 PELHAM ROAD, SUITE 102
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6172029156

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SHAWN WELSHILLAND, TOWN MANAGER

PLANNING & ECONOMIC DEVELOPMENT
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KELIE CARON, ASST. TOWN MANAGER, DIRECTOR OF ECONOMIC DEVELOPMENT

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(603) 432-1100 EXT. 181
NICK COONER, CHIEF BUILDING INSPECTOR & CODE ENFORCEMENT OFFICER

HEALTH DIVISION
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LONDONDERRY, NH 03053
(603) 432-1100 EXT. 131

PUBLIC WORKS & ENGINEERING
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LONDONDERRY, NH 03053
(603) 432-1100 EXT. 136
DAVE WHOLEY, DIRECTOR PUBLIC WORKS & MUNICIPAL FACILITIES

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DAVE WHOLEY, DIRECTOR PUBLIC WORKS & MUNICIPAL FACILITIES

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LONDONDERRY, NH 03053
(603) 432-1118
WIM ALAN BERNARD, CHIEF OF POLICE

FIRE DEPARTMENT
2888 MAMMOTH ROAD
LONDONDERRY, NH 03053
(603) 432-1124
PHIL LEBLANC, ACTING CHIEF

NHDES AOT
29 HAZEN DRIVE
CONCORD, NH 03302-0095
AMY CLARK, PE, AOT SUPERVISOR

ASSOCIATED PROFESSIONALS
GEOTECHNICAL SERVICES
ARIES ENGINEERING
104 PLEASANT STREET
CONCORD, NH 03301
(603) 228-0374
GEORGE C. HOLT, P.E.

TRAFFIC ENGINEER
TOMORAN, INC.
48 CONSTITUTION DRIVE
BETHLEHEM, NH 03110
ROBERT DUVAL, PE, PRINCIPAL

WETLAND SCIENTIST
48 CONSTITUTION DRIVE
BETHLEHEM, NH 03110
CHRISTOPHER K. DANFORTH, CWS

SOIL SCIENTIST
BAG LAND CONSULTANTS
43 ROCKINGHAM STREET
CONCORD, NH 03301
BRUCE A. GILDAY, CSS

ABUTTERS
R014-039-0
NICHOLAS F COONER TRUST 2012
162 LITCHFIELD ROAD
LONDONDERRY, NH 03053

R014-047-0
US OF AMERICA FED AVIATION ADMIN
12 NE EXECUTIVE PARK
BURLINGTON, MA 01803

R01-044-38
STATE OF NEW HAMPSHIRE
PO BOX 483, 1 HAZEN DRIVE
CONCORD, NH 03302-0483

R014-44-0
GRANITE RIDGE ENERGY, LLC
21 NORTH WENTWORTH AVE
LONDONDERRY, NH 03053

R014-039-1
TRACE I & BRUCE A LEMUEW
154 LITCHFIELD ROAD
LONDONDERRY, NH 03053

R014-039-1
WCTOR, D & CECILIA C REIS
158 LITCHFIELD ROAD
LONDONDERRY, NH 03053

R011-020-13
RICHARD A BELANGER
149 LITCHFIELD ROAD
LONDONDERRY, NH 03053

R011-020-12
NICOLE M THOMAS
151 LITCHFIELD ROAD
LONDONDERRY, NH 03053

R011-020-11
JUSTIN M QUISH
153 LITCHFIELD ROAD
LONDONDERRY, NH 03053

R011-020-9
SHARON B BARTHOLOMEW
155 LITCHFIELD ROAD
LONDONDERRY, NH 03053

R011-020-8
SHAWN B DAYOLLI
157 LITCHFIELD ROAD
LONDONDERRY, NH 03053

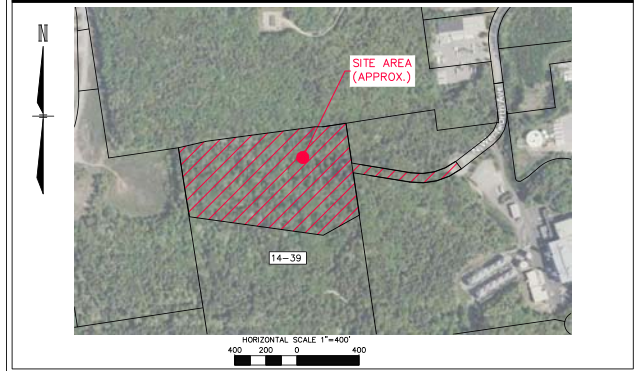
R011-020-9
EMERSON ELECTRIC CO
PO BOX 483
CONCORD, NH 03302-0483

R-014-003-26
CIVILIAN CONSTRUCTION CORP.
184 ROCKINGHAM ROAD
LONDONDERRY, NH 03053

R014-038-0
TANA PROPERTIES LTD.
PARTNERSHIP
40 TEMPLE STREET
NASHUA, NH 03060

SOUTHERN NEW HAMPSHIRE GREEN ENERGY CAMPUS
25 NORTH WENTWORTH AVE. LONDONDERRY, NEW HAMPSHIRE

LOCATION PLAN



INDEX OF SHEETS

Table with columns SHEET and SHEET TITLE. Lists sheets C-01 through A-1-3 and their corresponding titles like COVER SHEET, NOTES & LEGEND, etc.

PERMITS/APPROVALS

Table with columns NUMBER, APPROVED, and EXPIRES. Lists various permits such as TOWN PLANNING BOARD SUBDIVISION APPROVAL, TOWN PLANNING BOARD SITE PLAN REVIEW APPROVAL, etc.

WAIVERS

THE FOLLOWING WAIVERS FROM THE TOWN OF LONDONDERRY SITE REVIEW REGULATIONS IS REQUESTED FROM THE PLANNING BOARD:
1. TOWN OF LONDONDERRY SITE REVIEW REGULATIONS SECTION 3.09(G)(TABLE B) - TO USE THE GENERATION MANUAL FOR PARKING CALCULATION.
2. TOWN OF LONDONDERRY SITE REVIEW REGULATIONS SECTION 3.10(G)(1) - TO WAIVE AN INTERIOR PARKING LANDSCAPE AREA.
3. TOWN OF LONDONDERRY SITE REVIEW REGULATIONS SECTION 4.12.C.19.WII - TO WAIVE DELINEATING TREES WITH GREATER THEN 15" DIAMETER

Approved by the Londonderry, NH Planning Board for Phase _____ on Date: _____

Certified by: _____

OWNER'S SIGNATURE

Signature of Nicholas F. Cooner, Owner or Authorized Agent, dated 12/22/2025.



Revision table with columns REV, DATE, DESCRIPTION, and initials. Shows revisions for ADT & STAFF COMMENTS, NHP&G APPROVAL, TOWN SEWER COMMENTS, REVISED FOR NHP&G & NICES COMMENTS, and UPDATE FOR SUBMITTAL.

NHF&G AOT PERMIT CONDITIONS

- 1. BLANDING'S TURTLE (STATE ENDANGERED), EASTERN HOOGSNE SNAKE (STATE ENDANGERED), NEW ENGLAND COTTONTAIL (STATE ENDANGERED), SMOOTH GREEN SNAKE (SPECIAL CONCERN), SPOTTED TURTLE (STATE THREATENED), northern BLACK RACER (STATE THREATENED) OCCUR WITHIN THE VICINITY OF THE PROJECT AREA. ALL OPERATORS AND PERSONNEL WORKING ON OR ENTERING THE SITE SHALL BE MADE AWARE OF THE POTENTIAL PRESENCE OF THESE SPECIES AND SHALL BE PROVIDED FLYERS THAT HELP TO IDENTIFY THESE SPECIES, ALONG WITH NHFG CONTACT INFORMATION. SEE FLYERS ON PLAN SHEET D-17.
2. RARE SPECIES INFORMATION (E.G. IDENTIFICATION, OBSERVATION AND REPORTING OF OBSERVATIONS, WHEN TO CONTACT NHFG IMMEDIATELY AND NHFG CONTACT INFORMATION) SHALL BE COMMUNICATED DURING MORNING TALGATE MEETINGS PRIOR TO WORK COMMENCEMENT WHILE THE PROJECT IS UNDER ACTIVE CONSTRUCTION. SEE FLYERS ON PLAN SHEET D-17.
3. OBSERVATIONS OF EASTERN HOOGSNE SNAKE AND NORTHERN BLACK RACER SHALL BE REPORTED IMMEDIATELY TO NHFG WILDLIFE. BIOLOGISTS MELISSA WATERS (603-479-1129) AND BRENDAN CLIFFORD (603-944-0885) VIA GROUP TEXT. A PHOTOGRAPH WITH THE TEXT WILL BE PROVIDED IF FEASIBLE. IMMEDIATE REPORTING OF OBSERVATIONS IS CRITICAL AS NHFG BIOLOGISTS WILL NEED TO COLLECT DATA ON THE INDIVIDUAL. SEE FLYERS ON PLAN SHEET D-17.
4. NHFG SHALL HAVE THE OPPORTUNITY TO ATTEMPT TO TRAP AND RELOCATE ANY RABBITS THAT MAY BE ON SITE. ENTRAPMENT AND RELOCATION OF RABBITS SHALL BE COORDINATED NO LESS THAN THREE WEEKS IN ADVANCE WITH NHFG BEFORE WORK BEGINS.
5. ALL MANUFACTURED EROSION AND SEDIMENT CONTROL PRODUCTS, WITH THE EXCEPTION OF TURF REINFORCEMENT MATS, UTILIZED FOR, BUT NOT LIMITED TO, SLOPE PROTECTION, RUNOFF DIVERSION, SLOPE INTERRUPTION, PERIMETER CONTROL, INLET PROTECTION, CHECK DAMS, AND SEDIMENT TRAPS SHALL NOT CONTAIN PLASTIC, OR MULTILAYERED OR MONOLAYERED POLYPROPYLENE NETTING OR MESH WITH AN OPENING SIZE OF GREATER THAN 1/8 INCHES. SEE DETAILS ON SHEET D-01 AND D-02.
6. TURTLES MAY BE ATTRACTED TO DISTURBED GROUND DURING NESTING SEASON. TURTLE NESTING SEASON OCCURS APPROXIMATELY MAY 15TH - JULY 30TH. ALL TURTLE SPECIES NESTS AND NORTHERN BLACK RACER NESTS ARE PROTECTED BY NH LAWS. IF A NEST IS OBSERVED OR SUSPECTED, WORKERS SHALL CONTACT JOSH MEYERS AT NHFG IMMEDIATELY FOR FURTHER CONSULTATION. THE NEST OR SUSPECTED NEST SHALL BE MARKED (SURROUNDING ROPED OFF OR CONE BUFFER DEPLOYED) AND AVOIDED; THIS SHALL BE COMMUNICATED TO ALL PERSONNEL. ON-SITE SITE ACTIVITIES SHALL NOT OCCUR IN THE AREA SURROUNDING THE NEST OR SUSPECTED NEST UNTIL FURTHER GUIDANCE IS PROVIDED BY NHFG.
10. ALL OBSERVATIONS OF THREATENED OR ENDANGERED SPECIES ON THE PROJECT SITE SHALL BE REPORTED IMMEDIATELY TO THE NHFG NONGAME AND ENDANGERED WILDLIFE ENVIRONMENTAL REVIEW PROGRAM BY PHONE AT 603-271-2461 AND BY EMAIL AT NHFGREVIEW@WILDLIFE.NH.GOV. WITH THE EMAIL SUBJECT LINE: NHB24-1680, DCTS2-2647, LONDONDERRY GREEN ENERGY CAMPUS, WILDLIFE SPECIES OBSERVATION.
11. PHOTOGRAPHS OF THE OBSERVED SPECIES AND NEARBY ELEMENTS OF HABITAT OR AREAS OF LAND DISTURBANCE SHALL BE PROVIDED TO NHFG IN DIGITAL FORMAT AT THE ABOVE EMAIL ADDRESS FOR VERIFICATION, AS FEASIBLE.
11. IN THE EVENT A THREATENED OR ENDANGERED SPECIES IS OBSERVED ON THE PROJECT SITE DURING THE TERM OF THE PERMIT, THE SPECIES SHALL NOT BE DISTURBED, HANDLED, OR HARMED IN ANY WAY PRIOR TO CONSULTATION WITH NHFG AND IMPLEMENTATION OF CORRECTIVE ACTIONS RECOMMENDED BY NHFG.
A. SITE OPERATORS SHALL BE ALLOWED TO RELOCATE WILDLIFE ENCOUNTERED IF DISCOVERED WITHIN THE ACTIVE WORK ZONE IF IN DIRECT HAZARD FROM PROJECT ACTIVITIES. WILDLIFE SHALL BE RELOCATED IN CLOSE PROXIMITY TO THE CAPTURE LOCATE BUT OUTSIDE OF THE WORK ZONE AND IN THE DIRECTION THE INDIVIDUAL WILDLIFE WAS HEADING. NHFG SHALL BE CONTACTED IMMEDIATELY IF THIS ACTION OCCURS.
12. THE NHFG, INCLUDING ITS EMPLOYEES AND AUTHORIZED AGENTS, SHALL HAVE ACCESS TO THE PROPERTY DURING THE TERM OF THE PERMIT, ALONG WITH NHFG CONTACT INFORMATION. THE APPLICANT SHOULD NOTIFY NHFG 30 DAYS PRIOR TO STARTING CONSTRUCTION ACTIVITIES. NHFG SHOULD HAVE THE OPPORTUNITY TO ATTEMPT TO TRAP AND RELOCATE ANY RABBITS THAT MAY BE ON SITE.

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SITE DEVELOPMENT PLANS

TAX MAP 14 LOT 39-2 COVER SHEET
SOUTHERN NEW HAMPSHIRE GREEN ENERGY CAMPUS
25 NORTH WENTWORTH AVE. LONDONDERRY, NH 03053
OWNED BY
PURPOSEENERGY-LONDONDERRY, LLC
25 PELHAM ROAD SUITE 102, SALEM, NH 03079

SCALE, NOT TO SCALE SEPTEMBER 8, 2025

Table with columns for project details: 18252-02, DR, FB, CADFILE, 18252-02 COVER & DETAILS, C-01.

LEGEND

<p>PROPOSED</p>	<p>PROPOSED</p>
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ABBREVIATIONS

<p>GENERAL</p> <p>ASBAN ASBANDON AC ACRES ADJ ADJUT APPROX APPROXIMATE BC BOTTOM OF CURB BTM BOTTOM BK/PK BOOK & PAGE BLDG BUILDING BMP BEST MANAGEMENT PRACTICE BS BOTTOM OF SLOPE BW BOTTOM OF WALL CONC CONCRETE COORD COORDINATE DIA DIAMETER ELEV ELEVATION</p> <p>EP EDGE OF PAVEMENT EXIST EXISTING FV FINISHED FLOOR ELEVATION FOUN FOUNDATION HP HIGH POINT R&D REVERSE AND DISPOSE IT INFILTRATION TEST L LENGTH LF LINEAR FEET LSA LANDSCAPE AREA MAX MAXIMUM MIN MINIMUM N/W NOW OR FORMERLY NHP NEW HAMPSHIRE FISH & GAME NTS NOT TO SCALE</p> <p>OC ON CENTER PAVE PAVEMENT PERF PERFORATED PROP PROPOSED R RADIUS RE AND RESE R&R REMOVE AND DISPOSE RET RETAIN RM RIM ELEVATION RET RETAIN R&D REMOVE AND DISPOSE S SLOPE SF SQUARE FEET SIDEWALK SIDEWALK SW SW TM TOP OF CURB TC TEMPORARY BENCHMARK TP TEST PIT TW TOP OF WALL TYP TYPICAL UG UNDERGROUND WCR ACCESSIBLE WHEELCHAIR RAMP W WITH</p>	<p>UTILITIES</p> <p>CB CATCH BASIN CIP CAST IRON PIPE CMP CORRUGATED METAL PIPE CND CONDUIT CDB DOUBLE CATCH BASIN DIP DUCTILE IRON PIPE DMH DRAIN MANHOLE FAC FRAME AND COVER F&G FRAME AND GRATE FES FLARED END SECTION GT GASE TRAP HDP HIGH DENSITY POLYETHYLENE PIPE HW HEADWALL HYD HYDRANT LP LIGHT POLE OCS OUTLET CONTROL STRUCTURE PVC POLYVINYL CHLORIDE PIPE RCP REINFORCED CONCRETE PIPE RO ROOF DRAIN SMH SEWER MANHOLE SOS SEDIMENT OIL SEPARATOR TSV TAPPING SLEEVE, VALVE, AND BOX UP UTILITY POLE</p>
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GENERAL NOTES

- THESE PLANS ARE PERMIT DRAWINGS ONLY AND HAVE NOT BEEN DETAILED FOR CONSTRUCTION OR FOR CONDITIONS AT THE SITE. THESE PLANS, PREPARED BY TFMORAN, INC. ASSUMES NO LIABILITY AS A RESULT OF ANY CHANGES OR NON-COMPLIANCE WITH THESE PLANS EXCEPT UNDER THE WRITTEN APPROVAL OF THE ENGINEER OF RECORD.
- ALL IMPROVEMENTS SHOWN ON THE SITE PLAN SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE DESIGN SPECIFICATIONS AND ALL FUTURE PROPERTY OWNERS. NO CHANGES SHALL BE MADE TO THIS SITE PLAN WITHOUT THE EXPRESS APPROVAL OF THE LONDONDERRY PLANNING BOARD.
- ALL WORK SHALL CONFORM TO THE APPLICABLE REGULATIONS AND STANDARDS OF THE TOWN OF LONDONDERRY, AND SHALL BE BUILT IN A WORKMANLIKE MANNER IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. ALL WORK TO CONFORM TO TOWN OF LONDONDERRY DEPARTMENT OF PUBLIC WORKS STANDARD SPECIFICATIONS. ALL WORK WITHIN THE RIGHT-OF-WAY OF THE LONDONDERRY AND/OR STATE SHALL COMPLY WITH APPLICABLE STANDARDS. COORDINATE ALL WORK WITHIN THE RIGHT-OF-WAY WITH APPROPRIATE LONDONDERRY, COUNTY, AND/OR STATE AGENCY.
- THE SITE CONTRACTOR SHALL ENSURE THAT ALL WORK IS PERFORMED IN ACCORDANCE WITH APPLICABLE SECTIONS OF ENVY-NH 1500. THE SITE CONTRACTOR SHALL NOTIFY THE ENGINEER IN ADVANCE OF CONSTRUCTION OF EACH STORMWATER FACILITY TO COORDINATE REQUIRED INSPECTIONS. THE CONTRACTOR SHALL TAKE PROGRESS PHOTOS DURING CONSTRUCTION OF ALL STORMWATER DRAINAGE COMPONENTS AND SEND TO THE ENGINEER.
- SEE EXISTING CONDITIONS PLAN FOR THE HORIZONTAL AND VERTICAL DATUM.
- SEE EXISTING CONDITIONS PLAN FOR BENCHMARK INFORMATION. VERIFY TBM ELEVATIONS PRIOR TO CONSTRUCTION.
- CONTACT EASEMENT OWNERS PRIOR TO COMMENCING ANY WORK WITHIN THE EASEMENTS.
- PRIOR TO COMMENCING ANY SITE WORK, ALL LIMITS OF WORK SHALL BE CLEARLY MARKED IN THE FIELD.
- THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND FOR CONDITIONS AT THE SITE. THESE PLANS, PREPARED BY TFMORAN, INC. DO NOT EXTEND TO OR INCLUDE SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR THEIR EMPLOYEES, AGENTS, OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF THE SURVEYOR OR ENGINEER HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED INTO THESE PLANS. THE CONSTRUCTION CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS WHICH MAY BE REQUIRED BY THE US OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND/OR LOCAL REGULATIONS.
- WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR SHALL USE CAUTION WHEN SCALING REPRODUCTION PLANS. IN CASE OF CONFLICT BETWEEN THIS PLAN SET AND ANY OTHER DRAWING AND/OR SPECIFICATION, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR CLARIFICATIONS.
- VERIFY LAYOUT OF PROPOSED BUILDING FOUNDATIONS WITH ARCHITECT AND THAT PROPOSED FOUNDATION MEETS PROPERTY LINE AND/OR WETLAND SETBACKS PRIOR TO COMMENCING ANY FOUNDATION CONSTRUCTION.
- PROVIDE AN AS-BUILT PLAN AT THE COMPLETION OF THE PROJECT TO THE TOWN OF LONDONDERRY.
- IF ANY DEVIATIONS FROM THE APPROVED PLANS AND SPECIFICATIONS HAVE BEEN MADE, THE SITE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS STAMPED BY A LICENSED SURVEYOR OR QUALIFIED ENGINEER ALONG WITH A LETTER STAMPED BY A QUALIFIED ENGINEER DESCRIBING ALL SUCH DEVIATIONS, AND BEAR ALL COSTS FOR PREPARING AND FILING ANY NEW PERMITS OR PERMIT AMENDMENTS THAT MAY BE REQUIRED.
- AT COMPLETION OF CONSTRUCTION, THE SITE CONTRACTOR SHALL PROVIDE A LETTER CERTIFYING THAT THE PROJECT WAS COMPLETED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS, AND A LETTER STAMPED BY A QUALIFIED ENGINEER THAT THEY HAVE OBSERVED ALL UNDERGROUND DETENTION SYSTEMS, INFILTRATION SYSTEMS, OR FILTERING SYSTEMS PRIOR TO BACKFILL, AND THAT SUCH SYSTEMS CONFORM TO THE APPROVED PLANS AND SPECIFICATIONS.
- THIS PROJECT IS SUBJECT TO THE AOT PERMIT LISTED ON THE COVER SHEET. THE CONTRACTOR SHALL CONFORM TO ALL CONDITIONS OF THE PERMIT AND PROVIDE THE FOLLOWING DOCUMENTATION TO OWNER AND ENGINEER:
 - ADVANCE WRITTEN NOTICE AT LEAST ONE WEEK PRIOR TO COMMENCING ANY WORK UNDER THE PERMIT AND NOTIFICATION TO AOT VIA THE START OF CONSTRUCTION FORM.
 - UPON COMPLETION OF CONSTRUCTION, NOTIFICATION TO AOT VIA THE COMPLETION OF CONSTRUCTION FORM AND WRITTEN CERTIFICATION THAT:
 - ALL WORK UNDER THE PERMIT HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATION.
 - IF ANY DEVIATION FROM THE APPROVED PLANS WERE MADE, WRITTEN DESCRIPTIONS AND AS-BUILT DRAWINGS OF ALL SUCH DEVIATIONS, STAMPED BY A QUALIFIED ENGINEER, SHALL BE PROVIDED.
 - IF, DURING CONSTRUCTION, IT BECOMES APPARENT THAT DEFICIENCIES EXIST IN THE APPROVED DESIGN DRAWINGS, THE OWNER SHALL BE REQUIRED TO CORRECT THE DEFICIENCIES TO MEET THE REQUIREMENTS OF THE REGULATIONS AT NO EXPENSE TO THE TOWN.
 - IF, DURING CONSTRUCTION, IT BECOMES APPARENT THAT ADDITIONAL EROSION CONTROL MEASURES ARE REQUIRED TO STOP ANY EROSION ON THE CONSTRUCTION SITE DUE TO ACTUAL SITE CONDITIONS, THE OWNER SHALL BE REQUIRED TO INSTALL THE NECESSARY EROSION PROTECTION AT NO EXPENSE TO THE TOWN.
 - ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO TOWN OF LONDONDERRY SUBDIVISION REGULATIONS AND THE LATEST EDITION OF THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
 - IN ACCORDANCE WITH SECTION 6.01 OF THE LONDONDERRY SITE PLAN REGULATIONS AND RSA 8:176:13, ALL IMPROVEMENTS SPECIFIED ON THESE SITE PLANS SHALL BE CONSTRUCTED, COMPLETED, AND INSPECTED AND APPROVED BY THE TOWN OF LONDONDERRY (AND/OR THE AHDOT, IF APPLICABLE) PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
 - IN ACCORDANCE WITH SECTION 6.01 OF THE LONDONDERRY SITE PLAN REGULATIONS AND RSA 8:176:12, ALL OFF-SITE IMPROVEMENTS SPECIFIED ON THESE SITE PLANS SHALL BE CONSTRUCTED, COMPLETED, AND INSPECTED AND APPROVED BY THE TOWN OF LONDONDERRY (AND/OR THE AHDOT, IF APPLICABLE) PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.

UTILITY NOTES

- LENGTH OF PIPE IS FOR CONVENIENCE ONLY. ACTUAL PIPE LENGTH SHALL BE DETERMINED IN THE FIELD.
- ALL PROPOSED UTILITY WORK, INCLUDING MATERIAL, INSTALLATION, TERMINATION, EXCAVATION, BEDDING, BACKFILL, COMPACTION, TESTING, CONNECTIONS, AND CONSTRUCTION SHALL BE COORDINATED WITH AND COMPLETED IN ACCORDANCE WITH APPROPRIATE REQUIREMENTS, CODES, AND STANDARDS OF ALL CORRESPONDING UTILITY ENTITIES AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND DETERMINING THE LOCATION, SIZE, AND ELEVATION OF ALL EXISTING UTILITIES, SHOWN OR NOT SHOWN ON THESE PLANS, PRIOR TO THE START OF ANY CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES FOUND INTERFERING WITH THE PROPOSED CONSTRUCTION AND APPROPRIATE REMEDIAL ACTION IS AGREED TO BY THE ENGINEER BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT "DISHNET" (811) AT LEAST 72 HOURS BEFORE DIGGING.
- COORDINATE ALL WORK ADJACENT TO PROPOSED BUILDINGS WITH ARCHITECTURAL BUILDING DRAWINGS. CONFIRM UTILITY PENETRATIONS AND INVERT ELEVATIONS ARE COORDINATED PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES OWNING UTILITIES, EITHER OVERHEAD OR UNDERGROUND, WITHIN THE CONSTRUCTION AREA AND SHALL COORDINATE AS NECESSARY WITH THE UTILITY COMPANIES OF SAID UTILITIES. THE PROTECTION OR RELOCATION OF UTILITIES IS ULTIMATELY THE RESPONSIBILITY OF THE CONTRACTOR.
- THE EXACT LOCATION OF NEW UTILITY CONNECTIONS SHALL BE DETERMINED BY THE CONTRACTOR IN COORDINATION WITH UTILITY COMPANY, COUNTY, AGENCY, AND/OR PRIVATE UTILITY COMPANY.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL MANHOLES, ROVES, FITTINGS, CONNECTORS, COVER PLATES, AND OTHER MISCELLANEOUS ITEMS NOT NECESSARILY DETAILED ON THESE DRAWINGS TO RENDER THE UTILITY INSTALLATION COMPLETE AND OPERATIONAL.
- ALL UTILITY COMPANIES REQUIRE INDIVIDUAL CONDUITS. CONTRACTOR TO COORDINATE WITH TELEPHONE, CABLE, AND ELECTRIC COMPANIES REGARDING NUMBER, SIZE, AND TYPE OF CONDUITS REQUIRED PRIOR TO INSTALLATION OF ANY CONDUIT.
- SANITARY SEWER SHALL BE CONSTRUCTED TO THE TOWN OF LONDONDERRY STANDARDS AND SPECIFICATIONS AS SHOWN ON THESE PLANS. ALL SEWER MAINS AND FITTINGS SHALL BE PVC AND SHALL CONFORM TO ASTM F 678 (SOR 35 MINIMUM). FORCE MAINS AND FITTINGS SHALL CONFORM TO NH CODE OF ADMINISTRATIVE RULES ENV-WO 700. ALL SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH NH CODE OF ADMINISTRATIVE RULES ENV-WO 700. SANITARY MANHOLES SHALL CONFORM TO NHSES WATER DIVISION WASTEWATER ENGINEERING BUREAU STANDARD STANDARDS AND SPECIFICATIONS SHOWN HEREOF.
- ON-SITE WATER DISTRIBUTION SHALL BE TO MANHOLES WATER WORKS STANDARDS AND SPECIFICATIONS. WATER MAINS SHALL HAVE A MINIMUM OF 8" COVER. WHERE WATER PIPES CROSS SEWER LINES A MINIMUM OF 12" VERTICAL SEPARATION BETWEEN THE TWO OUTSIDE PIPE WALLS SHALL BE OBSERVED. HORIZONTAL SEPARATION BETWEEN WATER AND SEWER SHALL BE 12" MINIMUM. WHERE A SANITARY LINE CROSSES A WATER LINE, SEWER LINE MUST BE CONSTRUCTED OF FORCE MAIN MATERIALS (PER ENV-WO 704-00) FROM BUILDING OR MANHOLE TO MANHOLE, OR SUBSTITUTE RUBBER-GASKETED PRESSURE PIPE FOR THE SAME DISTANCE. WHEN SANITARY LINES PASS BELOW WATER LINES, LAY PIPE SO THAT NO JOINT IN THE SANITARY LINE WILL BE CLOSER THAN 6" HORIZONTALLY TO THE WATER LINE.
- THRUST BLOCKS SHALL BE PROVIDED AT ALL LOCATIONS WHERE WATER LINE CHANGES DIRECTIONS OR CONNECTS TO ANOTHER WATER LINE.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CONDUIT AND WIRING TO ALL SIGNS AND LIGHTS. CONDUIT TO BE A MINIMUM OF 24" BELOW FINISH GRADE.
- ALL PROPOSED UTILITIES SHALL BE UNDERGROUND. ALL UNDERGROUND CONDUITS SHALL HAVE NYLON PULL ROPES.
- THE CONTRACTOR SHALL ARRANGE AND PAY FOR ALL INSPECTIONS, TESTING, AND RELATED SERVICES, AND SUBMIT COPIES OF ACCEPTANCE TO THE OWNER, UNLESS OTHERWISE INDICATED.
- PROVIDE PERMANENT PAVEMENT REPAIR FOR ALL UTILITY TRENCHES IN EXISTING ROAD OR PAVEMENT TO REMAIN. SAW CUT TRENCH, PAVEMENT, AND GRANULAR BASE THICKNESS TO MATCH EXISTING PAVEMENT. OBTAIN ALL PERMITS REQUIRED FOR TRENCHING.
- UNLESS OTHERWISE SPECIFIED, ALL UNDERGROUND STRUCTURES, PIPES, CHAMBERS, ETC. SHALL BE COVERED WITH A MINIMUM OF 18" OF COMPACTED SOIL BEFORE EXPOSURE TO VEHICLE LOADS.
- THE PROPERTY WILL BE SERVICED BY THE FOLLOWING:

PRIVATE DRAINAGE	PRIVATE
SEWER	MUNICIPAL
WATER	MUNICIPAL
GAS	UTILITIES
ELECTRIC	EVERSOURCE ENERGY
TELECOM	COMCAST XFINITY

SITE DEVELOPMENT PLANS

TAX MAP 14 LOT 39-2
NOTES & LEGEND
SOUTHERN NEW HAMPSHIRE GREEN ENERGY CAMPUS
25 NORTH WENTWORTH AVE.
LONDONDERRY, NH 03053

OWNED BY
PURPOSEENERGY-LONDONDERRY, LLC
25 PELHAM ROAD SUITE 102, SALEM, NH 03079

SCALE: NOT TO SCALE SEPTEMBER 8, 2025

<p>Civil Engineers Structural Engineers Land Surveyors Landscape Architects Scientists</p>	<p>48 Constitution Drive Bedford, NH 03110 Phone (603) 472-4488 Fax (603) 472-9747 www.tfmoran.com</p>
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REV	DATE	DESCRIPTION	BY	CHK
5	12/18/2025	AOT & STAFF COMMENTS	JD	NG
4	10/24/2025	NH&F APPROVAL	JD	NG
3	11/3/2025	TOWN SEWER COMMENTS	JD	NG
2	9/30/2025	REVISD FOR NH&F & NH&ES COMMENTS	JD	NG
1	9/12/2025	UPDATE FOR SUBMITTAL	JD	NG
		DESCRIPTION	DP	DK

18252-02 OR CB FB
CADFILE 18252-02 COVER & DETAILS C-02



CONSTRUCTION SEQUENCE NOTES

1. TO MINIMIZE EROSION AND SEDIMENTATION DUE TO CONSTRUCTION, CONSTRUCTION SHALL FOLLOW THIS GENERAL CONSTRUCTION SEQUENCE.
2. MODIFICATIONS TO THE SEQUENCE NECESSARY DUE TO THE CONTRACTOR'S SCHEDULE SHALL INCLUDE APPROPRIATE TEMPORARY AND PERMANENT EROSION AND SEDIMENTATION CONTROL MEASURES.
3. CONDUCT A PRE-CONSTRUCTION MEETING WITH THE OWNER, CONTRACTOR, TOWN ENGINEER, AND OTHER TOWN DEPARTMENTS. TOWN INSPECTIONS SHALL BE CONDUCTED AT INTERVALS AS REQUIRED BY THE TOWN OF LONDONDERRY PUBLIC WORKS AND ENGINEERING DEPARTMENT.
4. INSTALL STABILIZED CONSTRUCTION ENTRANCE.
5. CUT AND CLEAR TREES WITHIN AREA OF DISTURBANCE UNLESS OTHERWISE NOTED.
6. CONSTRUCT TEMPORARY AND PERMANENT EROSION CONTROL FACILITIES, AND BASINS PRIOR TO ANY ROUGH GRADING.
7. CONSTRUCT PERMANENT SWALES PRIOR TO ANY ROUGH GRADING. SWALES SHALL BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.
8. GRUB & ROUGH GRADE SITE FOR PHASED WORK AREA. ALL SLOPES SHALL BE STABILIZED IMMEDIATELY AFTER GRADING. ALL DISTURBED AREAS SHALL BE STABILIZED NO LATER THAN 72 HOURS AFTER CONSTRUCTION ACTIVITY CEASES. IF EARTHWORK TEMPORARILY CEASES ON A PORTION OF OR THE ENTIRE SITE, AND WILL NOT RESUME WITHIN 21 DAYS, THE AREA SHALL BE STABILIZED.
9. AN AREA SHALL BE CONSIDERED STABILIZED IF:
 - A) BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED;
 - B) A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
 - C) A MINIMUM OF 3" OF NON-ERODING MATERIAL SUCH AS STONE OR RIPRAP HAS BEEN INSTALLED, OR
 - D) EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
10. CONSTRUCT CURBSETS, STORMWATER MANAGEMENT AREAS, AND SWALES. PLACE FLEED END SECTIONS, RIP-RAP AND OTHER DRAINAGE FACILITIES ACCORDING TO PLAN. THE CONTRACTOR SHALL STABILIZE ALL DITCHES, SWALES, AND BASINS PRIOR TO DIRECTING FLOW TO THEM.
11. INSTALL ALL UNDERGROUND UTILITIES.
12. CONSTRUCT BUILDINGS AND STRUCTURES.
13. CONSTRUCT PARKING AND FINISH GRADE SITE ACCORDING TO PLAN. ALL SLOPES SHALL BE STABILIZED IMMEDIATELY AFTER GRADING.
14. THE CONTRACTOR SHALL INSPECT ALL TEMPORARY EROSION CONTROL MEASURES AT LEAST ONCE A WEEK AND WITHIN TWENTY-FOUR (24) HOURS OF THE END OF A STORM WITH RAINFALL AMOUNT GREATER THAN 0.5 INCHES. THE INSPECTIONS SHALL VERIFY THAT THE STRUCTURAL BMP'S SHOWN AND DESCRIBED IN THE PLANS ARE IN GOOD CONDITION AND ARE MINIMIZING EROSION. A MAINTENANCE AND INSPECTION REPORT SHALL BE MADE WITH EACH INSPECTION.
15. COMPLETE PERMANENT SEEDING.
16. REMOVE TEMPORARY EROSION CONTROL MEASURES ONCE ALL AREAS ARE STABILIZED WITH A SUSTAINABLE STAND OF GRASS, PAVEMENT OR CONTRACTED GRAVELS.

GENERAL NOTES

1. WHERE DEPTH OF COVER IS LESS THAN 3 FEET CLASS V REINFORCED CONCRETE PIPE SHALL BE USED.
2. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES OWNING UTILITIES, EITHER OVERHEAD OR UNDERGROUND, WITHIN THE CONSTRUCTION AREA AND SHALL COORDINATE AS NECESSARY WITH THE UTILITY COMPANIES OF SAID UTILITIES. THE PROTECTION OR RELOCATION OF UTILITIES IS ULTIMATELY THE RESPONSIBILITY OF THE CONTRACTOR.
3. THE CONTRACTOR SHALL MAINTAIN EMERGENCY ACCESS TO ALL AREAS AFFECTED BY HIS WORK AT ALL TIMES.
4. ALL EXCAVATIONS SHALL BE THOROUGHLY SECURED ON A DAILY BASIS BY THE CONTRACTOR AT THE COMPLETION OF CONSTRUCTION OPERATIONS IN THE IMMEDIATE AREA.
5. EROSION CONTROL SYSTEMS SHALL BE INSTALLED AND MAINTAINED FOR THE DURATION OF THE PROJECT IN ACCORDANCE WITH APPLICABLE INNHES STANDARDS. THESE DETAILS SERVE AS A GUIDE ONLY.
6. REFER TO THE TOWN STANDARD DETAILS, LATEST REVISION, FOR THE APPLICABLE REGULATIONS AND STANDARDS.
7. THE CONTRACTOR SHALL STABILIZE ALL DITCHES, SWALES, AND BASINS PRIOR TO DIRECTING FLOW TO THEM.
8. THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT IN NO CASE SHALL EXCEED 5 ACRES AT ANY ONE TIME BEFORE DISTURBED AREAS ARE STABILIZED. SEE PHASING PLAN FOR ADDITIONAL INFORMATION ON ALLOWABLE AREAS OF DISTURBANCE.

WINTER CONSTRUCTION

IN ADDITION TO THE OTHER NOTES CONTAINED ON THIS PLAN, THE FOLLOWING MUST BE IMPLEMENTED:

1. WINTER EXCAVATION AND EARTHWORK SHALL BE COMPLETED AS SUCH THAT NO MORE THAN 1 ACRE OF THE SITE IS WITHOUT STABILIZATION AT ANY ONE TIME.
2. ANY AREA WITHIN 50 FEET OF A PROTECTED NATURAL RESOURCE MUST BE PROTECTED WITH A DOUBLE ROW OF SEDIMENT BARRIER.
3. TEMPORARY MULCH MUST BE APPLIED WITHIN 7 DAYS OF SOIL EXPOSURE OR PRIOR TO ANY STORM EVENT, BUT AFTER EVERY WORKDAY IN AREAS WITHIN 100 FEET FROM A PROTECTED NATURAL RESOURCE.
4. AREAS THAT HAVE BEEN BROUGHT TO FINAL GRADE MUST BE PERMANENTLY MULCHED THE SAME DAY.
5. IN THE EVENT OF A SNOWFALL GREATER THAN 1 INCH (FRESH OR CUMULATIVE), THE SNOW SHALL BE REMOVED FROM THE AREAS DUE TO BE SEEDING AND MULCHED.
6. LOAM SHALL BE FREE OF FROZEN CLUMPS BEFORE IT IS APPLIED.
7. A DITCH THAT WILL BE CONSTRUCTED DURING THE WINTER MUST BE STABILIZED WITH RIPRAP.
8. ALL PROPOSED VEGETATIVE AREAS THAT DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.
9. ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% PERCENT VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.
10. AFTER OCTOBER 15, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF GRAVEL PER NHDOT ITEM 304.3.
11. ALL TEMPORARY AND PERMANENT STABILIZATION REQUIREMENTS DENOTED IN ADDITIONAL PLAN NOTES SHALL BE APPLICABLE DURING WINTER CONSTRUCTION.

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EROSION CONTROL NOTES

- DURING CONSTRUCTION AND THEREAFTER, EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED AS NOTED:
1. INSTALLATION OF SILTATION FENCES AND/OR OTHER EROSION CONTROL MEASURES SHALL BE COMPLETED PRIOR TO THE START OF SITE WORK IN ANY GIVEN AREA. PREFABRICATED SILTATION FENCES SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
 2. SILTATION FENCES AND/OR OTHER EROSION CONTROL MEASURES SHALL BE KEPT CLEAN DURING CONSTRUCTION AND REMOVED WHEN SLOPES HAVE A VEGETATIVE COVER OF GREATER THAN 85%. EROSION CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE A WEEK AND WITHIN TWENTY-FOUR (24) HOURS OF THE END OF A STORM WITH RAINFALL AMOUNT GREATER THAN 0.5 INCHES.
 3. EXISTING VEGETATION IS TO REMAIN UNDISTURBED WHEREVER POSSIBLE.
 4. THE AREA OF LAND EXPOSED AND THE TIME OF EXPOSURE SHALL BE MINIMIZED, UNLESS A LARGER AREA IS ALLOWED UNDER ENVD-NO 1008-D10.0. NO MORE THAN 5 ACRES SHALL BE DISTURBED (NOT STABILIZED) AT ANY TIME. DISTURBED AREAS MUST BE STABILIZED AS SOON AS PRACTICABLE BUT NO LATER THAN 45 DAYS AFTER INITIAL DISTURBANCE. CUT AND FILL SLOPES SHALL BE STABILIZED WITHIN 72 HOURS AFTER FINAL GRADING.
 5. ALL DISTURBED AREAS SHALL HAVE A MINIMUM OF 6" OF LOAM. ACCEPTABLE SEED MIXES ARE AS FOLLOWS:
 PARK SEED MIX (NHDOT-TYPE 44) MIN. 13% LBS./ACRE
 33% CREEPING RED FESCUE (MIN. 45 LBS./ACRE)
 42% PERENNIAL RyEGRASS (MIN. 55 LBS./ACRE)
 21% KENTUCKY BLUEGRASS (MIN. 30 LBS./ACRE)
 4% REDTOP (MIN. 5 LBS./ACRE)
 MODIFIED NEW ENGLAND CONSERVATION WILDOUSE MIX (MIN. 25 LBS./ACRE)*
 CONTAINS: VIRGINIA WILD RYE (ELYMUS VIRGINICUS), LITTLE BLUESTEM (SCHIZACHYRIUM SCOPARIUM), BIG BLUESTEM (ANDROPOGON GERMANS), PANICULUM TUCKER, TREETOP (DISSIMULIS PANGLOSSII), BLUE VERNAIN (VERBENA HASTATA), BLACK EYED SUSAN (RUDBECKIA HORTA), BLACK ASTER (ASTERUM SPICATUM), COMMON YARROW (ACHILLEA MILFORDIENSIS), GOLDENROD (SOLIDAGO JUNCEA), UPLAND BENTGRASS (AGROSTIS PERENNIS), RED FESCUE (FESTUCA RUBRA), SWITCH GRASS (PANDANUS VIRGATUS), PARTRIDGE PEA (CHAMAECRISTA FASCICULATA), OR COMMON SNEEZEWEED (HELENIUM AUTUMNALE).
 TEMPORARY LAWN MIX (MIN. 47 LBS./ACRE)
 100% ANNUAL RYE
 A. PLACING LOAM ON SITE
 a. ALL SUBGRADE ELEVATIONS SHOULD BE UNIFORMLY GRADED TO RECEIVE LOAM AND SHALL BE INSPECTED AND APPROVED BY THE GENERAL CONTRACTOR PRIOR TO PLACEMENT OF LOAM.
 b. PLACE LOAM TO FORM A MINIMUM DEPTH OF 4" WHEN ROLLED, UNLESS OTHERWISE INDICATED.
 c. ALL DEPRESSIONS EXPOSING DURING THE ROLLING SHALL BE FILLED WITH ADDITIONAL LOAM.
 B. SEED BED PREPARATION
 AFTER FINISH GRADING AND JUST BEFORE SEEDING, THE AREAS TO BE SEEDED SHALL BE LOOSELY TILLED TO PROVIDE A ROUGH FIRM BUT FINELY CRUMBLER SEEDBED. THE INTENT IS TO PREPARE A SURFACE CAPABLE OF RETAINING WATER, SEED AND FERTILIZER WHILE REMAINING STABLE AND ALLOWING SEED TIME TO GERMINATE. SEED SHALL BE APPLIED TO THE CONDITIONED SEEDBED NOT MORE THAN 48 HOURS AFTER THE SEEDBED HAS BEEN PREPARED.
 6. LIME AND FERTILIZER SHALL BE INCORPORATED INTO THE SOIL PRIOR TO OR AT THE TIME OF AT THE TIME OF SEEDING. A MINIMUM OF 2 TONS PER ACRE OF AGRICULTURAL LIMESTONE AND 500 LBS. PER ACRE OF 10-20-20 FERTILIZER SHALL BE APPLIED. SEEDING PRACTICES SHALL COMPLY WITH LOCAL USDA SOIL CONSERVATION SERVICES RECOMMENDATIONS.
 7. HAY OR STRAW MULCH OR JUTE MATTING SHALL BE USED WHERE INDICATED ON THE PLANS. IF JUTE MATTING IS USED, IT SHALL BE LAID IN THE DIRECTION OF RUNOFF FLOW AND APPLIED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
 8. MULCHING SHALL COMPLY WITH:
 ENVD-NO 1008-D10 EROSION CONTROL METHODS: TEMPORARY AND PERMANENT MULCHING.
 (a) HAY AND STRAW MULCHES SHALL BE ANCHORED WITH MULCH NETTING OR TACKIFIER, SO THAT THEY ARE NOT BLOWN AWAY BY WIND OR WASHED AWAY BY FLOWING WATER.
 (b) MULCH MATERIALS SHALL BE SELECTED BASED UPON SOILS, SLOPES, FLOW CONDITIONS, AND TIME OF YEAR.
 (c) HAY OR STRAW MULCH SHALL BE APPLIED AT A RATE OF 1.5 TO 2 TONS PER ACRE, EQUIVALENT TO 70 TO 80 POUNDS PER 1,000 SQUARE FEET.
 ENVD-NO 1008-D10 VEGETATION: VEGETATING DISTURBED AREAS SHALL BE COMPLETED ONLY AS SPECIFIED BELOW.
 (a) AREAS SEEDED BETWEEN MAY 15TH TO AUGUST 15TH SHALL BE COVERED WITH HAY OR STRAW MULCH MEETING THE CRITERIA OF ENVD-NO 1008-D10.0 THROUGH (c).
 9. PERMANENT OR TEMPORARY COVER MUST BE IN PLACE BEFORE THE GROWING SEASON ENDS. SEEDING AREAS SHALL BE MULCHED AND PLANTINGS MAY BE MADE FROM EARLY SPRING TO EARLY OCTOBER. NO DISTURBED AREA SHALL BE LEFT EXPOSED DURING WINTER MONTHS.
 10. WATER SHALL BE USED FOR DUST CONTROL IN APPROPRIATE AREAS.
 11. TEMPORARY OVERSEED SWALES, SEDIMENT TRAPS AND/OR BASINS MUST BE USED AS NECESSARY TO CONTAIN RUNOFF FROM SOILS NOT STABILIZED. TACKIFIER SHALL BE APPLIED IN ALL TEMPORARY STABILIZATION UTILIZING SEEDING. SEE PHASING PLAN, FOR ADDITIONAL INFORMATION.

OVERWINTER STABILIZATION

1. PERMANENT STABILIZATION CONSISTS OF AT LEAST 85% VEGETATION, PAVEMENT/GRAVEL BASE OR RIPRAP.
2. DO NOT EXPOSE SLOPES OR LEAVE SLOPES EXPOSED OVER THE WINTER OR FOR ANY OTHER EXTENDED TIME OF WORK SUSPENSION UNLESS FULLY PROTECTED WITH MULCH.
3. APPLY HAY MULCH AT THE STANDARD RATE (1500 LBS. PER 1,000 SQ. FT.). THE MULCH MUST BE THICK ENOUGH SUCH THAT THE GROUND SURFACE WILL NOT BE VISIBLE AND MUST BE ANCHORED.
4. USE MULCH AND MULCH NETTING OR AN EROSION CONTROL MULCH BLANKET OR MIX FOR ALL SLOPES GREATER THAN 6% OR OTHER AREAS EXPOSED TO DIRECT WIND.
5. INSTALL AN EROSION CONTROL BLANKET IN ALL DRAINAGE WAYS (BOTTOM AND SIDES) WITH A SLOPE GREATER THAN 3%.
6. SEE THE VEGETATION MEASURES FOR MORE INFORMATION ON SEEDING DATES AND TYPES.

CONSTRUCTION SEQUENCE NOTES (FOR ALTERATION OF TERRAIN)

1. DO NOT DISCHARGE SEDIMENT-LOADED WATERS FROM CONSTRUCTION ACTIVITIES (RUNOFF, WATER FROM EXCAVATIONS) TO BMP'S DURING ANY STAGE OF CONSTRUCTION.
2. DO NOT TRAFFIC EXPOSED SOIL SURFACE WITH CONSTRUCTION EQUIPMENT, IF FEASIBLE, PERFORM EXCAVATIONS WITH EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE INFILTRATION COMPONENTS OF THE SYSTEM.
3. AFTER INFILTRATION SYSTEMS ARE EXCAVATED TO THE FINAL DESIGN ELEVATION, THE FLOOR SHOULD BE DEEPLY FILLED WITH A ROTARY TILLER OR DISC HARROW TO RESTORE INFILTRATION RATES, FOLLOWED BY A PASS WITH A LEVY DRAG.
4. DO NOT PLACE STORMWATER BMP'S INTO SERVICE UNTIL THE CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED.
5. DO NOT PLACE STORMWATER BMP'S INTO SERVICE UNTIL THE BMP HAS BEEN PLANTED, IF NECESSARY, AND ITS CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED.

GRADING & DRAINAGE NOTES

1. THE CONTRACTOR SHALL ENSURE THAT ALL WORK IS PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF INNHES ENVD-NO 1500 AND THE TOWN OF LONDONDERRY AS APPLICABLE.
2. THE CONTRACTOR SHALL PREPARE, MAINTAIN, AND EXECUTE A S.W.P.P.P. IN ACCORDANCE WITH EPA REGULATIONS AND THE CONSTRUCTION GENERAL PERMIT.
3. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER TO SUBMIT AN HMO AT LEAST 14 DAYS IN ADVANCE OF ANY EARTHWORK ACTIVITIES AT THE SITE.
4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK THE ACCURACY OF THE TOPOGRAPHY AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO ANY EARTHWORK BEING PERFORMED ON THE SITE. NO CLAIM FOR EXTRA WORK WILL BE CONSIDERED FOR PAYMENT AFTER EARTHWORK HAS COMMENCED.
5. THE CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT FOR INFORMATION ABOUT SOIL AND GROUNDWATER CONDITIONS. THE CONTRACTOR SHALL FOLLOW THE GEOTECHNICAL ENGINEER'S RECOMMENDED METHODS TO ADDRESS ANY SOIL AND GROUNDWATER ISSUES THAT ARISE ON-SITE, INCLUDING BUT NOT LIMITED TO DEWATERING METHODS, PERMEATE DRAINS AND THE INTO STORMWATER MANAGEMENT SYSTEM, ETC.
6. COORDINATE WITH GEOTECHNICAL/STRUCTURAL PLANS FOR SITE PREPARATION AND OTHER BUILDING INFORMATION.
7. COORDINATE WITH ARCHITECTURAL PLANS FOR DETAILED GRADING AT BUILDING, AND SIZE AND LOCATION OF ALL BUILDING SERVICES.
8. COORDINATE WITH MECHANICAL AND PLUMBING PLANS FOR ROOF DRAIN INFORMATION.
9. LIMITS OF WORK ARE SHOWN AS APPROXIMATE. THE CONTRACTOR SHALL COORDINATE ALL WORK TO PROVIDE SMOOTH TRANSITIONS. THIS INCLUDES GRADING, PAVEMENT, CURBING, SIDEWALKS, AND ADJUMENTS.
10. THE CONTRACTOR SHALL PROVIDE A FINISH PAVEMENT SURFACE FREE OF LOW SPOTS AND PONDING AREAS. CRITICAL AREAS INCLUDE BUILDING ENTRANCE, RAMPS, AND LOADING AREAS.
11. THE SITE SHALL BE GRADED SO ALL FINISHED PAVEMENT HAS POSITIVE DRAINAGE AND SHALL NOT POND WATER DEEPER THAN 1/4" FOR A PERIOD OF MORE THAN 15 MINUTES AFTER FLOODING.
12. ALL ELEVATIONS SHOWN AT CURB OR TO THE BOTTOM OF CURB UNLESS OTHERWISE NOTED. CURBS HAVE A 5' RADIUS UNLESS OTHERWISE NOTED.
13. ALL SIDEWALK AND OTHER CURB REVEALS SHALL BE 6" WITH A TOLERANCE OF PLUS OR MINUS 3/8". WHERE SIDEWALK IS TO BE FLUSH, THE PAVEMENT REVEAL SHALL BE 1/4" WITH A TOLERANCE OF 1/8".
14. THE FINISHED GRADE AT BOTTOM OF ALL ACCESSIBLE RAMPS SHALL BE FLUSH WITH PAVEMENT WITH A TOLERANCE OF PLUS OR MINUS 1/4".
15. ADJUST ALL MANHOLES, CATCH BASINS, CURB BOXES, ETC. WITHIN LIMITS OF WORK TO FINISH GRADE PRIOR TO INSTALLATION OF FINISHED PAVEMENT.
16. ROAD AND DRAINAGE CONSTRUCTION SHALL CONFORM TO THE TYPICAL SECTIONS AND DETAILS SHOWN ON THE PLANS AND SHALL MEET TOWN OF LONDONDERRY STANDARDS AND THE REQUIREMENTS OF THE LATEST NHDOT STANDARD SPECIFICATIONS FOR ROADS AND BRIDGE CONSTRUCTION AND THE NHDOT STANDARD STRUCTURE DRAWINGS UNLESS OTHERWISE NOTED.
17. STORMWATER DRAINAGE SYSTEM SHALL BE CONSTRUCTED TO LINE AND GRADE AS SHOWN ON THE PLANS. CONSTRUCTION METHODS SHALL CONFORM TO TOWN OF LONDONDERRY & NHDOT STANDARD SPECIFICATIONS, SECTION 603. CATCH BASINS AND DRAIN MANHOLES SHALL CONFORM TO SECTION 604. ALL CATCH BASIN GRATES SHALL BE TYPE B AND CONFORM TO NHDOT STANDARDS AND SPECIFICATIONS UNLESS OTHERWISE NOTED.
18. NO FILL SHALL BE PLACED IN ANY WETLAND AREA.
19. ALL EXCAVATIONS SHALL BE THOROUGHLY SECURED ON A DAILY BASIS BY THE CONTRACTOR AT THE COMPLETION OF CONSTRUCTION OPERATIONS IN THE IMMEDIATE AREA.
20. ALL DISTURBED AREAS NOT TO BE PAVED OR OTHERWISE TREATED SHALL RECEIVE 6" LOAM, SEED, FERTILIZER, AND MULCH.
21. DENSITY REQUIREMENTS:
 MINIMUM DENSITY LOCATION
 95% BELOW PAVED OR CONCRETE AREAS
 90% TRENCH BEDDING MATERIAL AND SAND BLANKET BACKFILL
 90% BELOW LOAM AND SEED AREAS
 90% ALL PERCENTAGES OF COMPACTION SHALL BE THE MAXIMUM DRY DENSITY AT THE OPTIMUM MOISTURE CONTENT AS DETERMINED AND CONTROLLED IN ACCORDANCE WITH ASTM D-1557. METHOD C. FILLDENSITY TESTS SHALL BE MADE IN ACCORDANCE WITH ASTM D-6908 OR EQUIVALENT METHOD.
 22. PER THE GEOTECHNICAL REPORT: STRUCTURAL FILL SHOULD BE USED FOR ENGINEERED FILLS BELOW PROPOSED BUILDINGS, BIODEFACTORS, TANKS, RETAINING WALLS, AND FOUNDATION BACKFILL.
 23. PER THE GEOTECHNICAL REPORT: COMMON FILL SHOULD BE USED FOR ENGINEERED FILLS BELOW ROADWAY, PARKING, AND OTHER NON-STRUCTURAL AREAS.

Type	Sieve Size	% Passing
Structural Fill, NHDOT 304.3 (Crushed Gravel)	3" (75 mm)	100
	2" (50 mm)	95-100
	1" (25 mm)	55-85
Common Fill	No. 4 (4.75 mm)	27-52
	No. 200 (75 µm)	0-12" (in sand portion)
Common Fill	8"	100
	No. 200 (75 µm)	0-15 when placed within 3 feet of finished grade in paved areas

SITE PREPARATION NOTES

1. LONDONDERRY EMERGENCY SERVICES (POLICE/FIRE) SHALL HAVE ACCESS TO THE SITE AT ALL TIMES DURING CONSTRUCTION.
2. THE CONTRACTOR SHALL MAINTAIN EMERGENCY ACCESS TO ALL AREAS AFFECTED BY HIS WORK AT ALL TIMES.
3. THE CONTRACTOR SHALL VERIFY ALL SURVEY INFORMATION IN THE FIELD AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
4. EXISTING UTILITIES AND TO BE DISCONTINUED ARE TO BE CAPPED AS REQUIRED BY THE RESPECTIVE UTILITY COMPANIES.
5. ALL DEMOLITION AND CONSTRUCTION DEBRIS SHALL BE REMOVED FROM SITE AND DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.
6. IN THAT THE PROJECT WILL DISTURB MORE THAN 5-ACRES AT ONE TIME A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL, OR A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW HAMPSHIRE (NHDOT#07) SHALL BE EMPLOYED TO INSPECT THE SITE FROM THE START OF ALTERATION OF TERRAIN ACTIVITIES UNTIL THE SITE IS IN FULL COMPLIANCE WITH THE ALTERATION OF TERRAIN PERMIT.
 - A. DURING THIS PERIOD, THE MONITOR SHALL INSPECT THE SUBJECT SITE AT LEAST ONCE A WEEK, AND IF POSSIBLE, DURING ANY 1 INCH OR GREATER RAIN EVENT (I.E. 1/2" HIGH OF PRECIPITATION OR MORE WITHIN A 24 HOUR PERIOD). IF UNABLE TO BE PRESENT DURING SUCH A STORM, THE MONITOR SHALL INSPECT THE SITE WITHIN 24 HOURS OF THIS EVENT.
 - B. THE MONITOR SHALL PROVIDE TECHNICAL ASSISTANCE AND RECOMMENDATION TO THE CONTRACTOR ON THE APPROPRIATE BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROLS REQUIRED TO MEET THE REQUIREMENTS OF 604-605-A17 AND ALL APPLICABLE DES PERMIT CONDITIONS.
 - C. WITHIN 24 HOURS OF EACH INSPECTION, THE MONITOR SHALL SUBMIT A REPORT TO DES VIA EMAIL (TO KEVIN THATCHER AT KEVIN.THATCHER@DES.NH.GOV).
7. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE TOWN OF LONDONDERRY'S CONSTRUCTION STANDARDS AND DETAILS (LATEST ADDITION), AND THE TOWN STANDARDS SHALL TAKE PRECEDENCE IN CASE OF ANY DETAILS OR PLANS IN CONFLICT.
8. FINAL CONSTRUCTION SEQUENCING SUBJECT TO CONTRACTOR AND OWNER CONFIRMATION.

SITE DEVELOPMENT PLANS

TAX MAP 14 LOT 39-2
NOTES
 SOUTHERN NEW HAMPSHIRE GREEN ENERGY CAMPUS
 25 NORTH WENTWORTH AVE.
 LONDONDERRY, NH 03053

OWNED BY
 PREPARED FOR
 PURPOSEENERGY-LONDONDERRY, LLC
 25 PELHAM ROAD SUITE 102, SALEM, NH 03079

SCALE: NOT TO SCALE SEPTEMBER 8, 2025

TFM
 Civil Engineers
 Structural Engineers
 Traffic Engineers
 Land Surveyors
 Landscape Architects
 Scientists
 48 Constitution Drive
 Bedford, NH 03110
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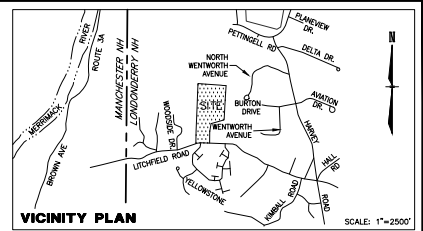
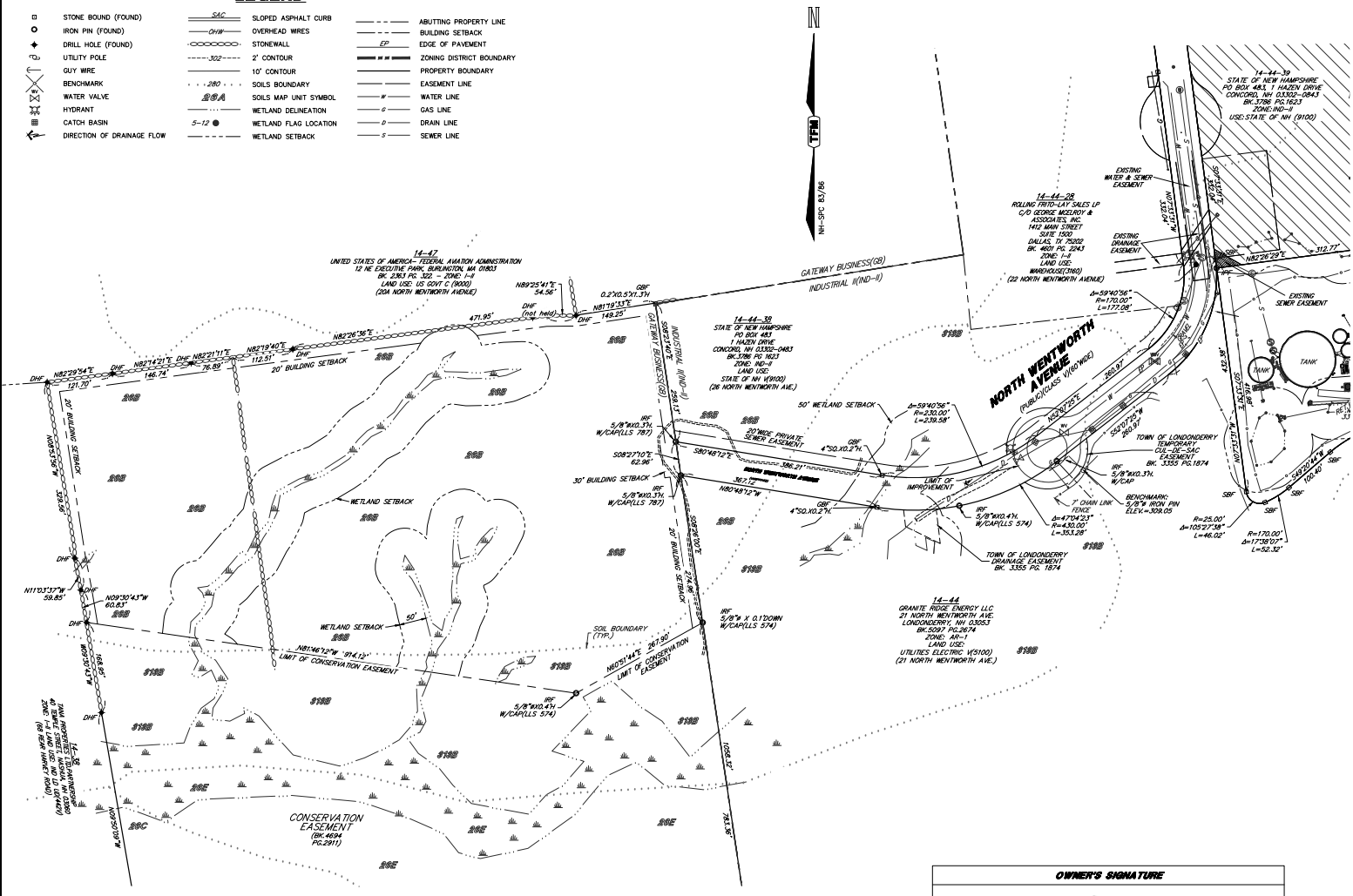
18252-02 OR FB
 CADFILE 18252-02 COVER & DETAILS C-03



NO.	DATE	DESCRIPTION	BY	CHK
5	12/19/2025	AOT & STAFF COMMENTS	JD	NG
4	10/24/2025	NH&G APPROVAL	JD	NG
3	11/5/2025	TOWN SEWER COMMENTS	JD	NG
2	9/30/2025	REVISED FOR INNHES & INNHES COMMENTS	JD	NG
1	9/12/2025	UPDATE FOR SUBMITTAL	JD	NG
REV	DATE	DESCRIPTION	BY	CHK

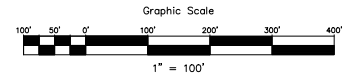
LEGEND

- STONE BOUND (FOUND)
- IRON PIN (FOUND)
- ⊕ DRILL HOLE (FOUND)
- ⊕ UTILITY POLE
- ⊕ GUY WIRE
- ⊕ BENCHMARK
- ⊕ WATER VALVE
- ⊕ HYDRANT
- ⊕ CATCH BASIN
- DIRECTION OF DRAINAGE FLOW
- SAC SLOPED ASPHALT CURB
- OHW OVERHEAD WIRES
- STONEMALL
- 302' 2' CONTOUR
- 10' CONTOUR
- 200' SOILS BOUNDARY
- SOILS MAP UNIT SYMBOL
- WETLAND DELINEATION
- WETLAND FLAG LOCATION
- WETLAND SETBACK
- ABUTTING PROPERTY LINE
- BUILDING SETBACK
- EP EDGE OF PAVEMENT
- ZONING DISTRICT BOUNDARY
- PROPERTY BOUNDARY
- EASEMENT LINE
- WATER LINE
- GAS LINE
- DRAIN LINE
- SEWER LINE



NOTES

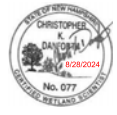
1. OWNER OF RECORD OF MAP 14 LOT 39: CRAIG FOWLER (TRUSTEE) NICHOLAS F. CODNER 2012 TRUST 162 LITCHFIELD ROAD LONDONDERRY, NH 03065 DEED REFERENCE: BK. 5336 PG. 1874 AREA = 2.150,033 S.F. OR 49.473 ACRES
2. 14-39 INDICATES TAX MAP AND LOT NUMBER.
3. THE PURPOSE OF THIS PLAN IS TO SHOW THE EXISTING CONDITIONS PRESENT ON TAX MAP 14, LOT 39, LOCATED AT 162 LITCHFIELD ROAD AND THE WESTERN PORTION OF NORTH WENTWORTH AVENUE IN LONDONDERRY, NEW HAMPSHIRE, AS SHOWN HEREON, AND NO OTHER PURPOSE.
4. CURRENT ZONING: GATEWAY BUSINESS (GB) MINIMUM LOT SIZE: 43,560 S.F./1 ACRE (SUBJECT TO PLANNING BOARD APPROVAL) MINIMUM LOT FRONTAGE: 150 FEET MAXIMUM BUILDING HEIGHT: 50 FEET MINIMUM GREEN SPACE: 25 PERCENT MINIMUM BUILDING SETBACKS: FRONT 30 FEET, SIDE & REAR 20 FEET. AGRICULTURAL/RESIDENTIAL (AR-1) MINIMUM LOT SIZE: (MINIMUM WATER & SEWER) SINGLE FAMILY (1-2 BEDROOMS): 35,000 S.F. SINGLE FAMILY (3 OR MORE BEDROOMS): 40,000 S.F. DUPLEX (2-4 BEDROOMS)(BOTH DWELLINGS): 52,000 S.F. (NO MINIMUM SETBACK) SINGLE OR TWO FAMILY RESIDENCE: 43,560 S.F./1 ACRE MINIMUM LOT FRONTAGE (CLASS V OR BETTER): SINGLE FAMILY: 150 FEET TWO FAMILY: 200 FEET MAXIMUM BUILDING HEIGHT: 35 FEET MINIMUM BUILDING SETBACKS: FRONT 40 FEET, SIDE & REAR 15 FEET. INDUSTRIAL (IND-1) MINIMUM LOT SIZE: 43,560 S.F. (SUBJECT TO PLANNING BOARD APPROVAL) MINIMUM LOT FRONTAGE (CLASS V OR BETTER): 150 FEET MAXIMUM BUILDING HEIGHT: 50 FEET MINIMUM BUILDING SETBACKS: FRONT 30 FEET, SIDE & REAR 20 FEET.
5. EXAMINATION OF THE FLOOD INSURANCE RATE MAP FOR ROCKINGHAM COUNTY, NEW HAMPSHIRE (ALL JURISDICTIONS), MAP NUMBER: 3301503101E, EFFECTIVE DATE: MAY 17, 2005, INDICATES THAT THE SUBJECT PARCEL IS NOT LOCATED WITHIN A FLOOD HAZARD AREA.
6. HORIZONTAL DATUM: NAD 83/86. VERTICAL DATUM: NAVD 29. BENCHMARKS SET: AS NOTED
7. EASEMENTS, RIGHTS, AND RESTRICTIONS SHOWN OR IDENTIFIED ARE THOSE WHICH WERE FOUND DURING RESEARCH PERFORMED AT THIS OFFICE IN ACCORDANCE WITH THE STANDARD PRACTICES, EASEMENTS, OR RESTRICTIONS MAY EXIST WHICH A TITLE EXAMINATION OF SUBJECT PARCEL MAY DETECT.
8. THE LOCATION OF ANY UNDERGROUND UTILITY INFORMATION SHOWN ON THIS PLAN IS APPROXIMATE. TFMOR, INC. MAKES NO CLAIM TO THE ACCURACY OR COMPLETENESS OF UNDERGROUND UTILITY SHOWN, PRIOR TO ANY EXCAVATION ON SITE THE CONTRACTOR SHALL CONTACT 800-SAFE AT 811.
9. SEE SHEETS S-03 THROUGH S-09 FOR BENCHMARK INFORMATION.
10. SEE SHEETS S-03 THROUGH S-09 FOR DETAILED UTILITY INFORMATION.



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 This plan is not effective unless signed by a duly authorized officer of TFMOR, Inc.



WETLAND SCIENTIST CERTIFICATION
 JURISDICTIONAL WETLANDS SHOWN ON THIS PLAN WERE DELINEATED ON AUGUST 16, 2024 BY CHRISTOPHER K. DAWORTH, CWS #077. THE WETLANDS WERE DELINEATED ACCORDING TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL (1987) AND THE REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST REGIONS, VERSION 3, JANUARY 2012. DOMINANT HYDRIC SOILS WITHIN THE WETLAND(S) WERE IDENTIFIED USING FIELD INDICATORS OF HYDRIC SOILS OF THE UNITED STATES' A GUIDE FOR IDENTIFYING AND DELINEATING HYDRIC SOILS, NRCIS, VERSION 8.1, 2017. DOMINANCE OF HYDROPHYTIC VEGETATION WAS DETERMINED USING THE USACE NATIONAL WETLAND PLANT LIST, NWPL 2016 VERSION 3.3. HTTP://WETLAND_PLANTS.USACE.ARMY.MIL.



OWNER'S SIGNATURE
 [Signature]
 OWNER OR AUTHORIZED AGENT
 12/22/2025 DATE

SURVEYOR'S CERTIFICATION
 I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION. FURTHER, THIS PLAN IS BASED ON AN ACTUAL FIELD SURVEY MADE BY THIS OFFICE IN MAY OF 2024. SAID SURVEY HAS AN ERROR OF CLOSURE OF NOT LESS ACCURACY THAN ONE PART IN TEN THOUSAND (1:10,000).
 I CERTIFY THAT THIS SURVEY PLAT IS NOT A SUBDIVISION PURSUANT TO THIS TITLE AND THAT THE LINES OF STREETS AND WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS OR WAYS ALREADY ESTABLISHED AND THAT NO NEW WAYS ARE SHOWN. (RSA 678:18)



Michael E. Dalberg 12-22-25 DATE
 LICENSED LAND SURVEYOR

TAX MAP 14 LOT 39
EXISTING CONDITIONS PLAN
LAND OF CODNER
162 LITCHFIELD ROAD
LONDONDERRY, NEW HAMPSHIRE
 OWNED BY:
 CRAIG FOWLER (TRUSTEE)
 NICHOLAS F. CODNER TRUST OF 2012
 PREPARED FOR:
 ARCO/MURRAY
 113 NORTH MAY STREET, CHICAGO, IL 60607
SCALE: 1" = 100'
JUNE 12, 2024

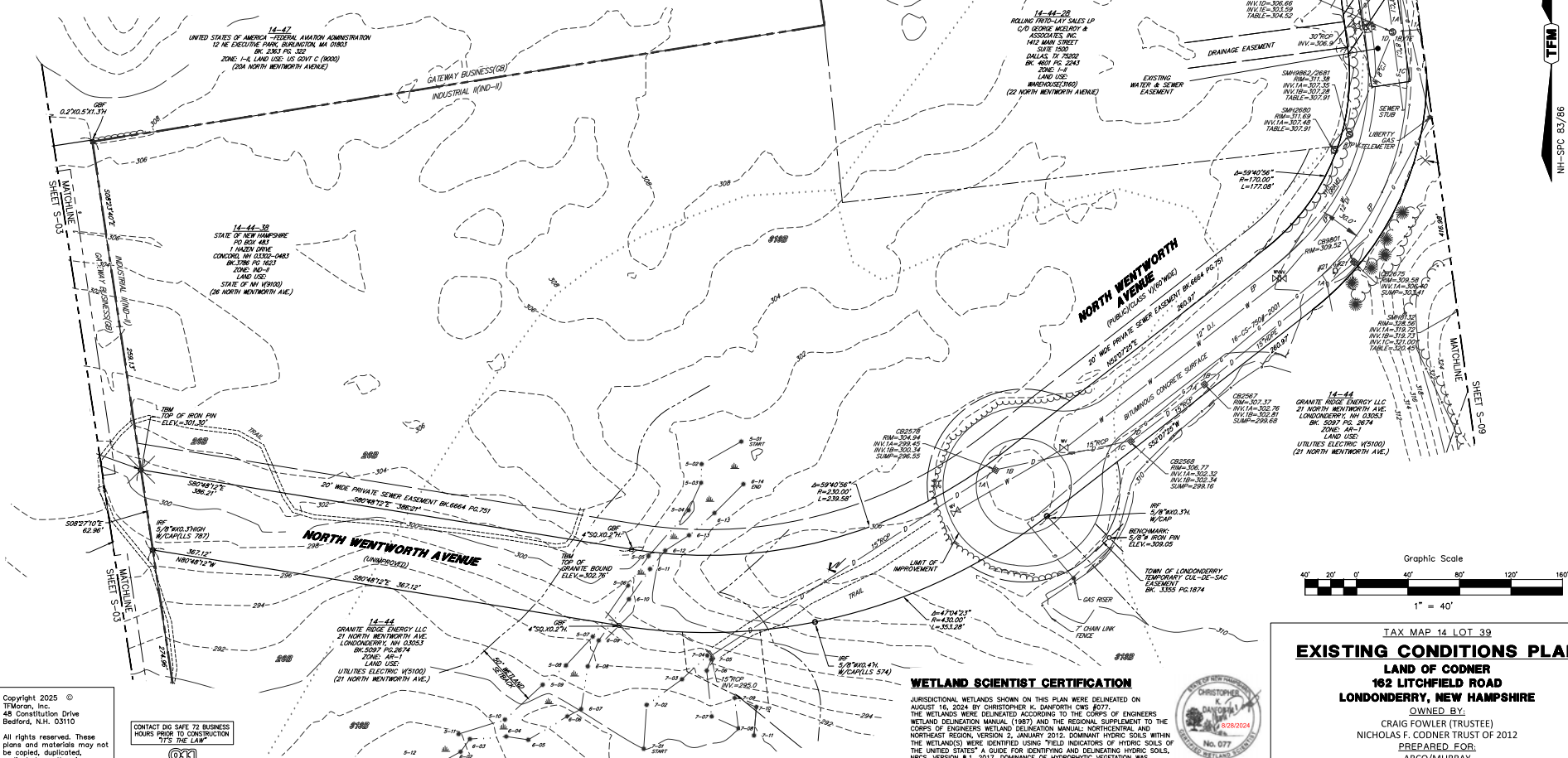
REV.	DATE	DESCRIPTION	DR	CK
2	12-18-25	PER REVIEW COMMENTS FROM TOWN	MRD	MRD
1	11-17-25	REVISE SEWER EASEMENT DEED REFERENCE	MRD	MRD

TFM Civil Engineers 48 Constitution Drive Bedford, NH 03110
 Structural Engineers Phone (603) 472-4488
 Traffic Engineers Phone (603) 472-9747
 Land Surveyors
 Landscape Architects
 Scientists www.tfmor.com

18252.01 DR TNB #B 2229/2230
 CR MDR CADP/E 18252-01 Survey S-01

LEGEND

- STONE BOUND (FOUND)
- IRON PIN (FOUND)
- ⊕ DRILL HOLE (FOUND)
- ⊕ UTILITY POLE
- ⊕ GUY WIRE
- ⊕ BENCHMARK
- ⊕ WATER VALVE
- ⊕ HYDRANT
- SAC — SLOPED ASPHALT CURB
- OWH — OVERHEAD WIRES
- STONEWALL
- 2" CONTOUR
- 10' CONTOUR
- CATCH BASIN
- SOLLS MAP UNIT SYMBOL
- BUILDING SETBACK
- ZONING DISTRICT BOUNDARY
- PROPERTY BOUNDARY
- EASEMENT LINE
- WATER LINE
- GAS LINE
- SOLLS BOUNDARY
- METLAND SETBACK
- EDGE OF PAVEMENT
- DRAIN LINE
- SEWER LINE
- ABUTTING PROPERTY LINE
- METLAND DELINEATION
- METLAND FLAG LOCATION



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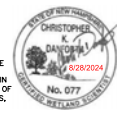
NRCS SOILS LEGEND

SOILS INFORMATION SHOWN HEREON IS GRAPHICALLY REPRODUCED FROM THE USDA NATURAL RESOURCES CONSERVATION SERVICE, NATIONAL COOPERATIVE SOIL SURVEY OF ROCKINGHAM COUNTY, NEW HAMPSHIRE.

- 26A WINDSOR LOAMY SAND, 0 TO 3 PERCENT SLOPES
- 26B WINDSOR LOAMY SAND, 3 TO 8 PERCENT SLOPES
- 26C WINDSOR LOAMY SAND, 8 TO 15 PERCENT SLOPES
- 26E WINDSOR LOAMY SAND, 15 TO 60 PERCENT SLOPES
- 45B MONTAUK FINE SANDY LOAM, 0 TO 8 PERCENT SLOPES, VERY STONY
- 115 SCARBOROUGH MUCK, COASTAL LOWLAND, 0 TO 3 PERCENT SLOPES
- 915B DEERFIELD LOAMY FINE SAND, 3 TO 8 PERCENT SLOPES

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Michael R. Dahlberg 12-22-25
LICENSED LAND SURVEYOR DATE

TAX MAP 14 LOT 39

EXISTING CONDITIONS PLAN

LAND OF CODNER
162 LITCHFIELD ROAD
LONDONDERRY, NEW HAMPSHIRE

OWNED BY:
CRAIG FOWLER (TRUSTEE)
NICHOLAS F. CODNER TRUST OF 2012

PREPARED FOR:
ARCO/MURRAY
113 NORTH MAY STREET, CHICAGO, IL 60607

SCALE: 1" = 40'

JUNE 12, 2024

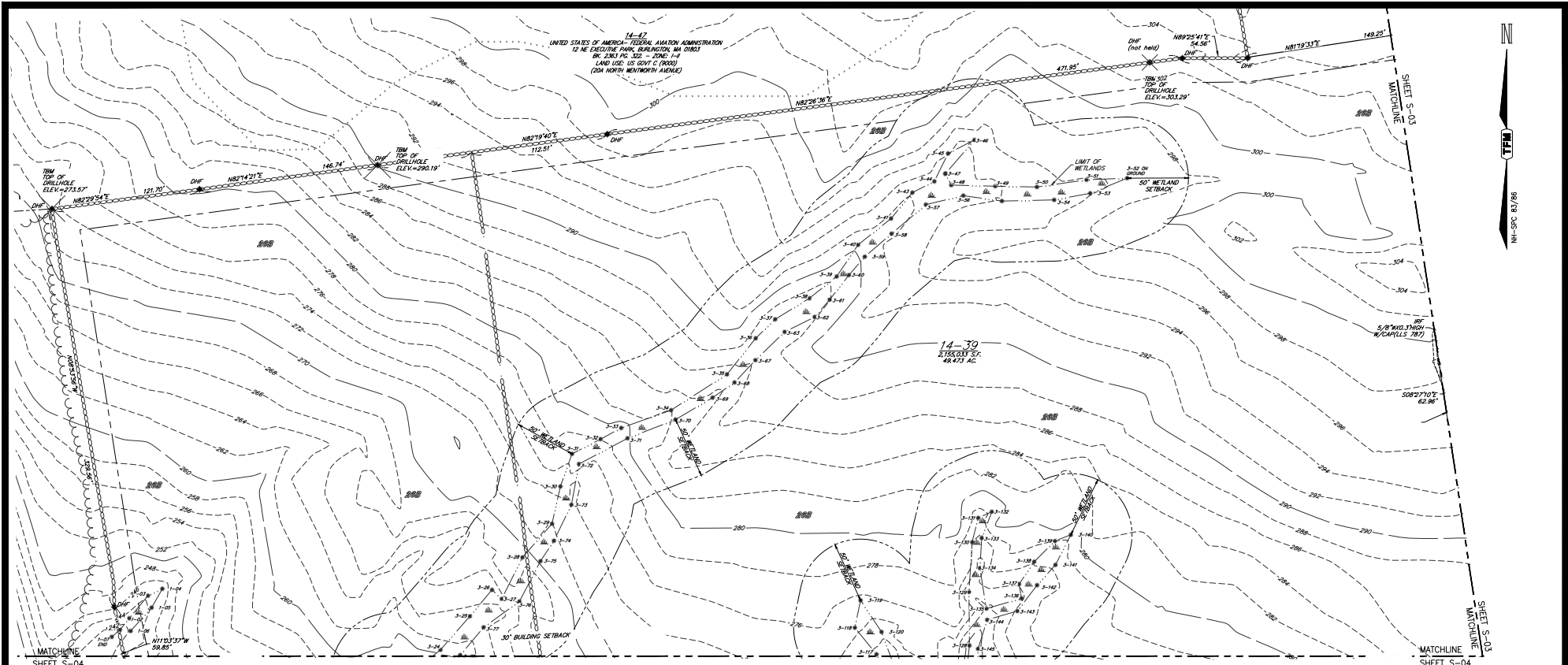
TFM

Civil Engineers
Structural Engineers
Traffic Engineers
Land Surveyors
Landscape Architects
Scientists

48 Constitution Drive
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Phone (603) 472-4488
Fax (603) 472-9747
www.tfmoran.com

18252.01 DR TNB FB 2229/2230
MRD CADFILE 18252-01 Survey S-02

REV.	DATE	DESCRIPTION	MRD	MRD
2	12-18-25	PER REVIEW COMMENTS FROM TOWN	MRD	MRD
1	11-17-25	REVISE SEWER EASEMENT DEED REFERENCE	MRD	MRD
		DESCRIPTION	DR	OK



LEGEND

- | | | | | | |
|---|---------------------|---------|----------------------------|-----|--------------------------|
| □ | STONE BOUND (FOUND) | — SAC — | SLOPED ASPHALT CURB | --- | BUILDING SETBACK |
| ○ | IRON PIN (FOUND) | — CHW — | OVERHEAD WIRES | --- | ZONING DISTRICT BOUNDARY |
| ● | DRILL HOLE (FOUND) | — | STONEWALL | --- | PROPERTY BOUNDARY |
| ⊕ | UTILITY POLE | — | 10' CONTOUR | --- | EASEMENT LINE |
| ⊖ | GUY WIRE | — | 2' CONTOUR | --- | WATER LINE |
| ⊗ | BENCHMARK | — | 10' CONTOUR | --- | GAS LINE |
| ⊙ | WATER VALVE | — | SOLS MAP UNIT SYMBOL | --- | DRAIN LINE |
| ⊕ | HYDRANT | — | WETLAND DELINEATION | --- | SEWER LINE |
| ⊖ | CATCH BASIN | — | WETLAND FLAG LOCATION | --- | ABUTTING PROPERTY LINE |
| □ | MAILBOX | — | WETLAND SETBACK | --- | |
| — | EDGE OF PAVEMENT | — | DIRECTION OF DRAINAGE FLOW | --- | |

NRCS SOLS LEGEND

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 - 30B WINDSOR LOAMY SAND, 3 TO 8 PERCENT SLOPES
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 - 11B SCARBORO MUCK, COASTAL LOWLAND, 0 TO 3 PERCENT SLOPES
 - 313B DEERFIELD LOAMY FINE SAND, 3 TO 6 PERCENT SLOPES

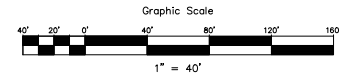
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Michael R. Dahlberg 12-22-25
LICENSED LAND SURVEYOR DATE



Graphic Scale
0' 40' 80' 120' 160'
1" = 40'

TAX MAP 14 LOT 39
EXISTING CONDITIONS PLAN
LAND OF CODNER
162 LITCHFIELD ROAD
LONDONDERRY, NEW HAMPSHIRE
OWNED BY:
CRAIG FOWLER (TRUSTEE)
NICHOLAS F. CODNER TRUST OF 2012
PREPARED FOR:
ARCO/MURRAY
113 NORTH MAY STREET, CHICAGO, IL 60607
SCALE: 1" = 40' **JUNE 12, 2024**

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Bedford, NH, 03110

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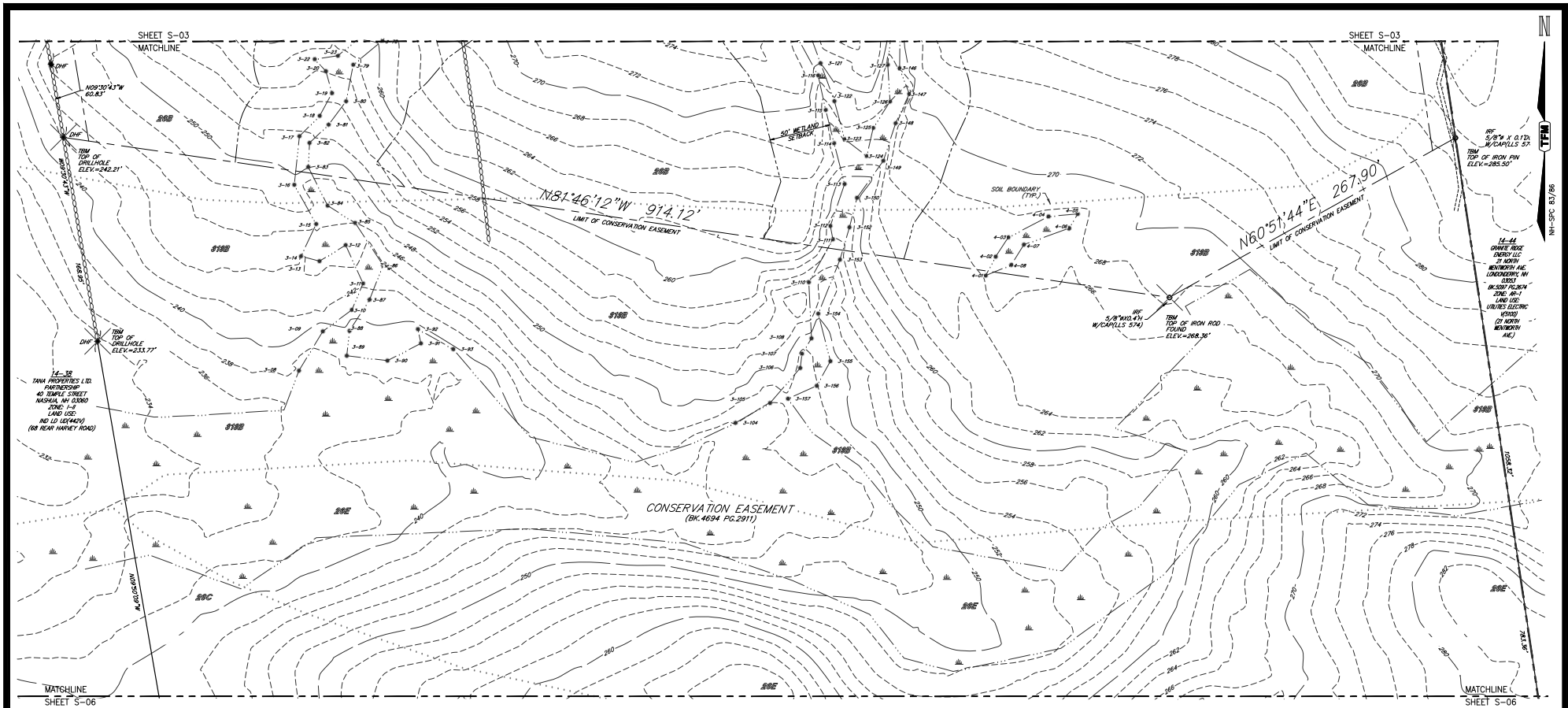
This plan is not effective unless signed by a duly authorized officer of TFMoran, Inc.



2	12-18-25	PER REVIEW COMMENTS FROM TOWN	MRD	MRD
1	11-17-25	REVISE SEWER EASEMENT DEED REFERENCE	MRD	MRD
REV.	DATE	DESCRIPTION	DR	CK

TFM	Civil Engineers	48 Constitution Drive
	Structural Engineers	Bedford, NH 03110
	Traffic Engineers	Phone (603) 472-4488
	Land Surveyors	Fax (603) 472-9747
	Landscape Architects	www.tfmoran.com
	Scientists	

18252.01	DR TNB	FR 2229/2230	
	CK MRD	CADFILE 18252-01	Survey
			S-03

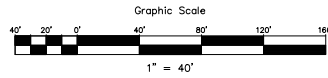


LEGEND

- STONE BOUND (FOUND)
- IRON PIN (FOUND)
- ◆ DRILL HOLE (FOUND)
- UTILITY POLE
- ⊗ GUY WIRE
- ⊗ BENCHMARK
- ⊗ WATER VALVE
- ⊗ HYDRANT
- ⊗ CATCH BASIN
- MAILBOX
- ⊗ EDGE OF PAVEMENT
- SLOPED ASPHALT CURB
- OVERHEAD WIRES
- STONEWALL
- 2' CONTOUR
- 10' CONTOUR
- SOILS MAP UNIT SYMBOL
- WETLAND DESIGNATION
- WETLAND FLAG LOCATION
- MAILBOX
- DIRECTION OF DRAINAGE FLOW
- BUILDING SETBACK
- ZONING DISTRICT BOUNDARY
- PROPERTY BOUNDARY
- EASEMENT LINE
- WATER LINE
- GAS LINE
- DRAIN LINE
- SEWER LINE
- ABUTTING PROPERTY LINE

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- SOILS INFORMATION SHOWN HEREON IS GRAPHICALLY REPRODUCED FROM THE USDA NATURAL RESOURCES CONSERVATION SERVICE, NATIONAL COOPERATIVE SOIL SURVEY OF ROCKINGHAM COUNTY, NEW HAMPSHIRE.
- 26A WINDSOR LOAMY SAND, 0 TO 3 PERCENT SLOPES
 - 26B WINDSOR LOAMY SAND, 3 TO 8 PERCENT SLOPES
 - 26C WINDSOR LOAMY SAND, 8 TO 15 PERCENT SLOPES
 - 26E WINDSOR LOAMY SAND, 15 TO 60 PERCENT SLOPES
 - 46B MONTAUK FINE SANDY LOAM, 0 TO 8 PERCENT SLOPES, VERY STONY
 - 116 SCARBORO MUCK, COASTAL LOWLAND, 0 TO 3 PERCENT SLOPES
 - 313B DEERFIELD LOAMY FINE SAND, 3 TO 8 PERCENT SLOPES



WETLAND NOTE

THE WETLANDS DEPICTED ON THIS SHEET AND THOSE LOCATED WITHIN THE EXISTING CONSERVATION EASEMENT WERE DIGITIZED FROM PLANS OF RECORD PREPARED FOR THE STATE OF NEW HAMPSHIRE AND RECORDED AT THE ROCKINGHAM COUNTY REGISTRY OF DEEDS AS PLAN #

WETLAND SCIENTIST CERTIFICATION

JURISDICTIONAL WETLANDS SHOWN ON THIS PLAN WERE DELINEATED ON AUGUST 16, 2024 BY CHRISTOPHER K. DANFORTH, CWS #077. THE WETLANDS WERE DELINEATED ACCORDING TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL (1987) AND THE REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL-NORTHCENTRAL AND NORTHEAST REGION, VERSION 2, JANUARY 2012. DOMINANT HYDRIC SOILS WITHIN THE WETLAND(S) WERE IDENTIFIED USING FIELD INDICATORS OF HYDRIC SOILS OF THE UNITED STATES' A GUIDE FOR IDENTIFYING AND DELINEATING HYDRIC SOILS, NRCS, VERSION 8.1, 2017. DOMINANCE OF HYDROPHYTIC VEGETATION WAS DETERMINED USING THE USGS NATIONAL WETLAND PLANT LIST, NWRP, 2016 VERSION 3.3 HTTP://WETLAND_PLANTS.USACE.ARMY.MIL.

SURVEYOR'S CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR THOSE UNDER MY DIRECT SUPERVISION. FURTHER, THIS PLAN IS BASED ON AN ACTUAL FIELD SURVEY MADE BY THIS OFFICE IN MAY OF 2024 THAT HAS AN ERROR OF CLOSURE OF NOT LESS ACCURACY THAN ONE PART IN TEN THOUSAND (1:10,000).

I CERTIFY THAT THIS SURVEY PLAT IS NOT A SUBDIVISION PURSUANT TO THIS TITLE AND THAT THE LINES OF STREETS AND WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS OR WAYS ALREADY ESTABLISHED AND THAT NO NEW WAYS ARE SHOWN. (RSA 676:18)

Michael E. Dalberg 12-22-25
LICENSED LAND SURVEYOR DATE



TAX MAP 14 LOT 39

EXISTING CONDITIONS PLAN

LAND OF CODNER
162 LITCHFIELD ROAD
LONDONDERRY, NEW HAMPSHIRE

OWNED BY:
CRAIG FOWLER (TRUSTEE)
NICHOLAS F. CODNER TRUST OF 2012

PREPARED FOR:
ARCO/MURRAY
113 NORTH MAY STREET, CHICAGO, IL 60607

SCALE: 1" = 40'

JUNE 12, 2024

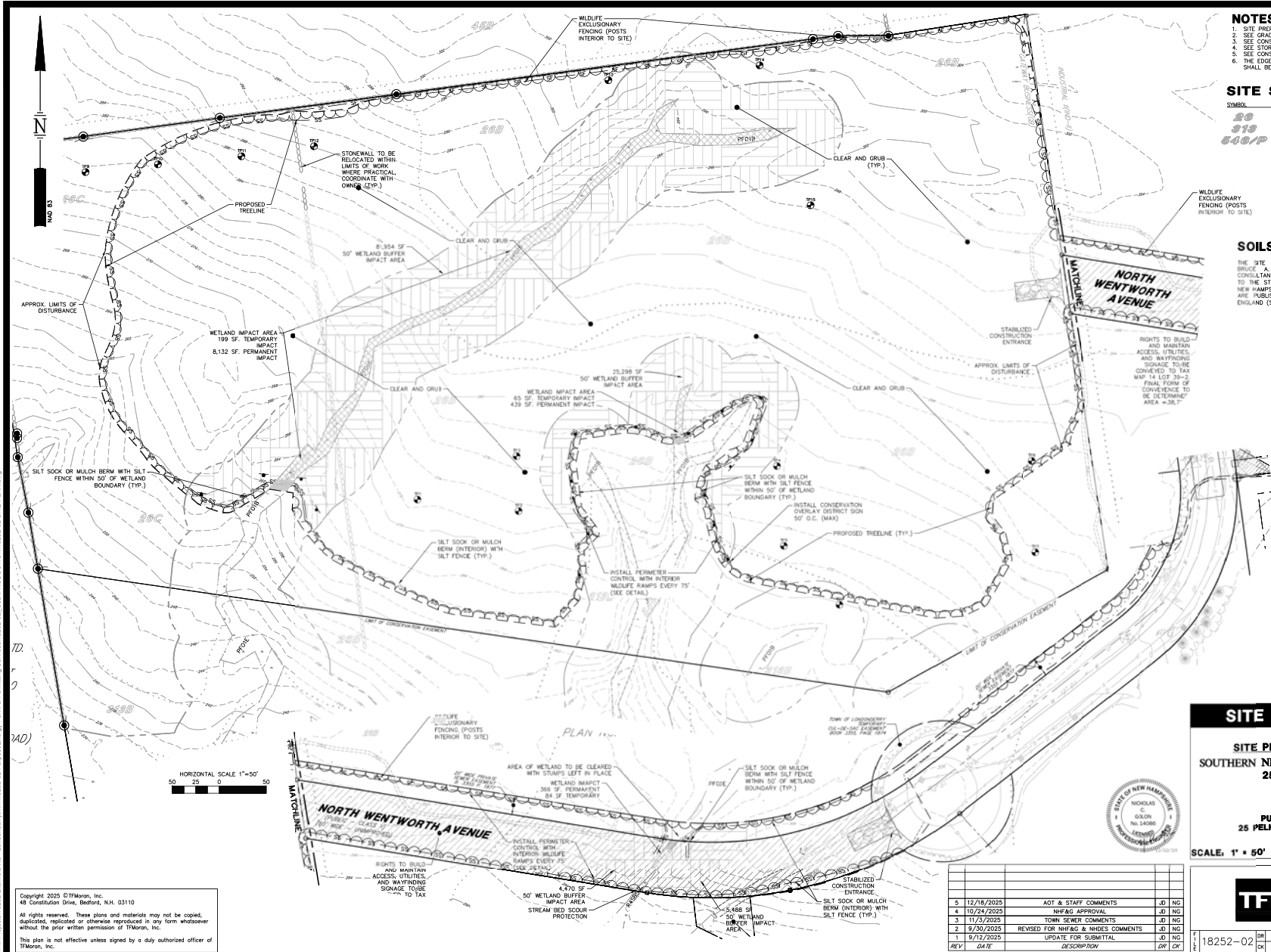
2	12-18-25	PER REVIEW COMMENTS FROM TOWN	MRD	MRD
1	11-17-25	REVISE SEWER EASEMENT DEED REFERENCE	MRD	MRD
REV.	DATE	DESCRIPTION	DR	CK

TFM

Civil Engineers
Structural Engineers
Traffic Engineers
Land Surveyors
Landscape Architects
Scientists

48 Constitution Drive
Bedford, NH 03110
Phone (603) 472-4488
Fax (603) 472-9747
www.tfmoran.com

18252.01	DR TMB	FR 2229/2230	S-04
	CK MRD	DATE 18252-01 Survey	



- NOTES**
1. SITE PREP. NOTES ON SHEET C-03.
 2. SEE GRADING AND DRAINAGE NOTES ON SHEET C-03.
 3. SEE CONSTRUCTION SEQUENCING AND EROSION CONTROL NOTES ON SHEET C-03.
 4. SEE STORMWATER MANAGEMENT NOTES ON C-12.
 5. SEE CONSTRUCTION PHASING NOTES ON SHEET PH-1.
 6. THE EDGE OF THE CONSERVATION OVERLAY AND NON-DISTURBANCE (NO-CUT) ZONES SHALL BE APPROPRIATELY DELINEATED IN THE FIELD PRIOR TO CONSTRUCTION.

SITE SPECIFIC SOILS LEGEND

SYMBOL	MAP UNIT	DRAINAGE	WELL
20	WINDSOR		A
319	DEERFIELD		B
546/P	WALPOLE		C

SLOPE DESIGNATION PERCENT SLOPE

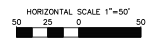
SLOPE DESIGNATION	PERCENT SLOPE
B	0 TO 8%
C	8 TO 15%
D	15 TO 25%
E	>25%



SOILS CERTIFICATION

THE SITE SPECIFIC SOIL MAPPING WAS PERFORMED DECEMBER 2024 BY BRUCE A. GILDAY, CERTIFIED SOIL SCIENTIST #012, OF BAG LAND CONSULTANTS IN CONCORD, NH. THIS MAPPING WAS PERFORMED ACCORDING TO THE STANDARDS OF THE "SITE-SPECIFIC SOIL MAPPING STANDARDS FOR NEW HAMPSHIRE AND VERMONT" VERSION 7.0, JULY 2021. THESE STANDARDS ARE PUBLISHED BY THE SOCIETY OF SOIL SCIENTISTS OF NORTHERN NEW ENGLAND (SSSNE).

RIGHTS TO BUILD AND MAINTAIN ACCESS, UTILITIES, AND WAYFINDING SIGNAGE TO BE CONVEYED TO TAX MAP 14 LOT 39-2. FINAL FORM OF CONVEYANCE TO BE DETERMINED AREA = 36.7'



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SITE DEVELOPMENT PLANS

TAX MAP 14 LOT 39-2

SITE PREPARATION & DEMOLITION PLAN

SOUTHERN NEW HAMPSHIRE GREEN ENERGY CAMPUS
25 NORTH WENTWORTH AVE.
LONDONDERRY, NH 03053

OWNED BY
PURPOSEENERGY-LONDONDERRY, LLC
25 PELHAM ROAD SUITE 102, SALEM, NH 03079

SCALE: 1" = 60' SEPTEMBER 8, 2025

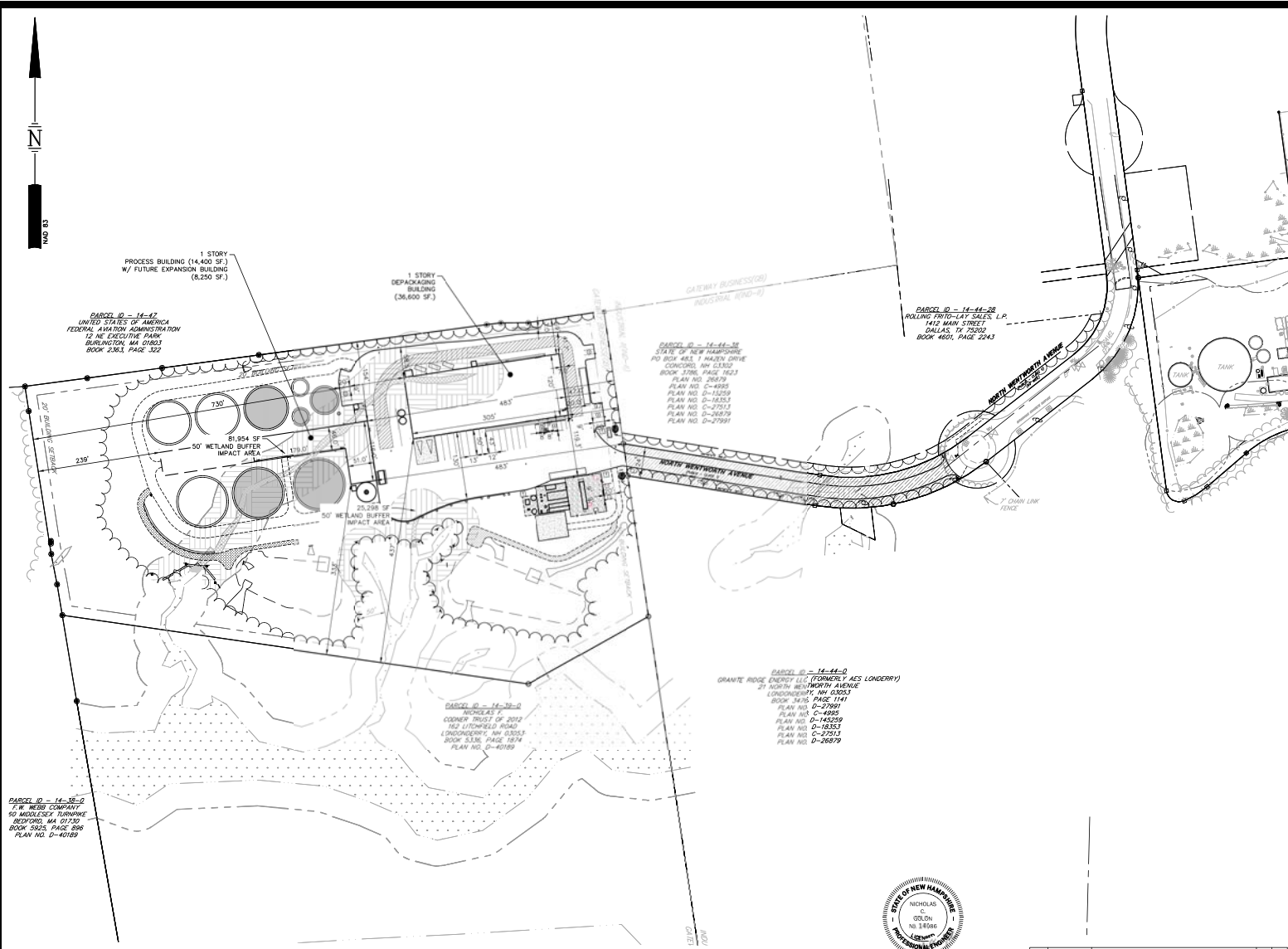
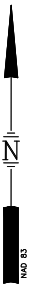


NO.	DATE	DESCRIPTION	BY	CHK
5	12/19/2025	ADT & STAFF COMMENTS	JD	NG
4	10/24/2025	NH&G APPROVAL	JD	NG
3	11/3/2025	TOWN SEWER COMMENTS	JD	NG
2	9/30/2025	REVISED FOR NH&G & NH&S COMMENTS	JD	NG
1	9/12/2025	UPDATE FOR SUBMITTAL	JD	NG
REV	04/7	DESCRIPTION	DR	CK

TFM Civil Engineers
Structural Engineers
Traffic Engineers
Land Surveys
Landscape Architects
Scientists

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Fax (603) 472-9747
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18252-02 DR FB
CK CADFILE 18252-02 SITE PLAN C-04



SITE DATA

- OWNER OF RECORD OF MAP 14 LOT 39:
CRAIG FOWLER (TRUSTEE) NICHOLAS F. COONER TRUST 2012, 162 LITCHFIELD ROAD
DEED REFERENCE TO PARCEL IS BK 5336 PG 1874
AREA OF PARCEL = 2150.0364 SF OR 48.4738 ACRES
 - ZONED: GATEWAY BUSINESS (GB)
EXISTING USE: UNDEVELOPED
PROPOSED USE: ORGANIC WASTE PROCESSING FACILITY
 - THE PURPOSE OF THIS PLAN IS TO CONSTRUCT A RESOURCE RECOVERY CENTER, ASSOCIATED IMPROVEMENTS INCLUDE AND ARE NOT LIMITED TO ACCESS, GRADING, STORMWATER MANAGEMENT SYSTEMS, UTILITIES, LIGHTING, AND LANDSCAPING.
 - TYPICAL HOURS OF OPERATION (OFFICE): 7 AM TO 4 PM MONDAY TO FRIDAY. FACILITY RUNS 24-7 YEAR ROUND WITH EXCEPTIONS FOR MAINTENANCE.
 - DIMENSIONAL REQUIREMENTS (CURRENT ZONING)
- | | REQUIRED: | PROVIDED: |
|-------------------------------|----------------------|----------------------------|
| MINIMUM LOT DIMENSIONS: | 43,560 SF (1.00± AC) | 667,167.7 SF* (15.316± AC) |
| LOT FRONTAGE: | 150 FT | 60 FT |
| MAXIMUM STRUCTURE DIMENSIONS: | | |
| STRUCTURE HEIGHT: | 50 FT | 39.5 FT |
| MINIMUM SETBACKS/BUFFER: | | |
| BUILDING FRONT: | 30 FT | 96.6 FT |
| BUILDING SIDE: | 20 FT | 69.4 FT |
| BUILDING REAR: | 20 FT | 351.9 FT |
| MINIMUM GREEN SPACE: | 25% | 64% |
| BUILDING COVERAGE: | N/A | |
- * UPON FINALIZATION AND RECORDING OF LOT SUBDIVISION
- PARKING REQUIREMENTS
- | | REQUIRED (SEE CALCULATION) | PROVIDED |
|----------------------------------|----------------------------|--------------|
| PARKING SPACES (SEE CALCULATION) | 1 PER 800 SF FA | 64 SPACES |
| ACCESSIBLE SPACES (REQ'D BY ADA) | 3 FOR 51-75 SPACES | 3 SPACES |
| PARKING SPACE SIZE | 9 FT X 20 FT | 9 FT X 20 FT |
| ASLE WIDTH | 22 FT | 22 FT |
- PARKING CALCULATIONS
- | | REQUIRED | PROVIDED |
|-------------------------|---|-----------|
| REQUIRED PARKING RATIO: | RESOURCE RECOVERY CENTER: 1 SPACE PER 800 SF FLOOR AREA | |
| TOTAL REQUIRED = | 50,700 SF FA/800 SF | 64 SPACES |
| TOTAL | | 64 SPACES |
- PARKING PROVIDED PER ITE:
- LAND USE CODE (LUC) 110 - GENERAL LIGHT INDUSTRIAL
AVG. RATE = 0.76 SPACES/EMPLOYEE
30 EMPLOYEES x 0.76 SPACES/EMPLOYEE = 23 SPACES
THE SITE PROVIDES 23 CAR PARKING SPACES AND 6 TRUCK PARKING SPACES.
- THIS PLANSET IS ON FILE AT THE TOWN OF LONDONDERRY PLANNING DEPARTMENT
 - THE SITE WILL BE SERVICED BY MUNICIPAL SEWER AND WATER.
 - EXAMINATION OF THE FLOOD INSURANCE RATE MAP FOR ROCKINGHAM COUNTY, NEW HAMPSHIRE (ALL JURISDICTIONS), MAP NUMBER 330500318C, EFFECTIVE DATE OF MAY 17, 2005, INDICATES THAT THE SUBJECT PARCEL IS NOT LOCATED WITHIN A FLOOD HAZARD AREA.
 - ALL BUILDINGS ON SITE SHALL BE 1 STORY.
 - IF, DURING CONSTRUCTION, IT BECOMES APPARENT THAT ADDITIONAL EROSION CONTROL MEASURES ARE REQUIRED TO STOP ANY EROSION ON THE CONSTRUCTION SITE DUE TO ACTUAL SITE CONDITIONS, THE OWNER SHALL BE REQUIRED TO INSTALL THE NECESSARY EROSION PROTECTION AT NO EXPENSE TO THE TOWN.
 - ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO TOWN OF LONDONDERRY SUBDIVISION REGULATIONS AND THE LATEST EDITION OF THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION.
 - IN ACCORDANCE WITH SECTION 6.01 OF THE LONDONDERRY SITE PLAN REGULATIONS AND RSA 676:13, ALL IMPROVEMENTS SPECIFIED ON THESE SITE PLAN SHALL BE CONSTRUCTED, COMPLETED, INSPECTED AND APPROVED BY THE TOWN OF LONDONDERRY PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
 - IN ACCORDANCE WITH SECTION 6.01 OF THE LONDONDERRY SITE PLAN REGULATIONS AND RSA 676:12, ALL OFF-SITE IMPROVEMENTS SPECIFIED ON THESE SITE PLAN SHALL BE CONSTRUCTED, COMPLETED, INSPECTED AND APPROVED BY THE TOWN OF LONDONDERRY (LAND/OR THE WOOD) IF APPLICABLE PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
 - APPLICANT SHALL COORDINATE TRAINING MEETING WITH LONDONDERRY POLICE & FIRE DEPARTMENTS.
 - IF, DURING CONSTRUCTION, IT BECOMES APPARENT THAT DEFICIENCIES EXIST IN THE APPROVED DESIGN DRAWINGS, THE OWNER SHALL BE REQUIRED TO CORRECT THE DEFICIENCIES TO MEET THE REGULATIONS AT NO EXPENSE TO THE TOWN.
 - THIS PLAN SET HAS BEEN PREPARED FOR THE FULL BUILDOUT OF THE FACILITY NOTING A PHASED CONSTRUCTION SCHEDULE.

SITE DEVELOPMENT PLANS

TAX MAP 14 LOT 39-2
OVERALL SITE PLAN
SOUTHERN NEW HAMPSHIRE GREEN ENERGY CAMPUS
25 NORTH WENTWORTH AVE.
LONDONDERRY, NH 03053

OWNED BY
PURPOSEENERGY-LONDONDERRY, LLC
25 PELHAM ROAD SUITE 102, SALEM, NH 03079

SCALE: 1" = 100' SEPTEMBER 8, 2025



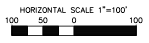
Approved by the Londonderry, NH Planning Board for Phase _____
 on Date: _____
 Certified by: _____

OWNER'S SIGNATURE

 OWNER OR AUTHORIZED AGENT
 DATE: 12/22/2025

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REV	DATE	DESCRIPTION	DR	CHK
5	12/18/2025	AOT & STAFF COMMENTS	JD	NG
4	10/24/2025	NHF&G APPROVAL	JD	NG
3	11/3/2025	TOWN SENIOR COMMENTS	JD	NG
2	9/30/2025	REVISED FOR NHF&G & WIDES COMMENTS	JD	NG
1	9/12/2025	UPDATE FOR SUBMITTAL	JD	NG
			DR	CHK

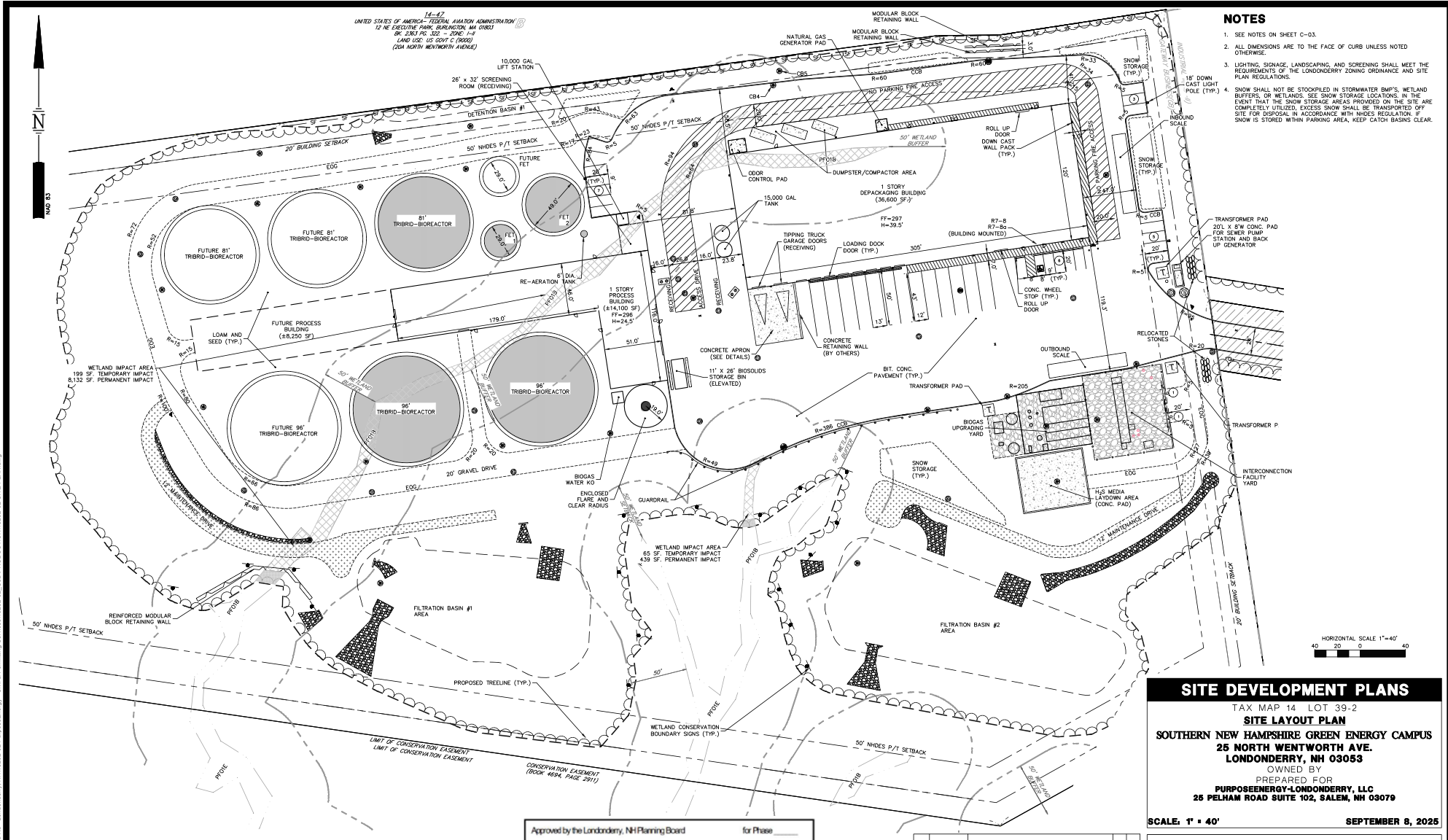


	Civil Engineers Structural Engineers Traffic Engineers Land Surveyors Landscape Architects Scientists	48 Constitution Drive Bedford, NH 03110 Phone (603) 472-4488 Fax (603) 472-9747 www.tfmoran.com
	18252-02 DR CK CADFILE	18252-02 SITE PLAN

Date: 22, 2025 - 2:15pm
 F:\TFM\Projects\18252-02_PurposeEnergy_Camp & Permitted_Servicing\18252-02_CADD\PRODUCTION\18252-02_SITE_PLAN.dwg

14-47
 UNITED STATES OF AMERICA - FEDERAL AVIATION ADMINISTRATION
 12 NE EXECUTIVE PARK, BURLINGTON, MA 01803
 OR 2383 PLS 150' - 200' - 100'
 LAND USE: US DOT C (1000)
 (20A NORTH WENTWORTH AVENUE)

- NOTES**
1. SEE NOTES ON SHEET C-03.
 2. ALL DIMENSIONS ARE TO THE FACE OF CURB UNLESS NOTED OTHERWISE.
 3. LIGHTING, SIGNAGE, LANDSCAPING, AND SCREENING SHALL MEET THE REQUIREMENTS OF THE LONDONDERRY ZONING ORDINANCE AND SITE PLAN REGULATIONS.
 4. SNOW SHALL NOT BE STOCKPILED IN STORMWATER BMP'S, WETLAND BUFFERS, OR WETLANDS. SEE SNOW STORAGE LOCATIONS IN THE EVENT THAT THE SNOW STORAGE AREAS PROVIDED ON THE SITE ARE COMPLETELY UTILIZED, EXCESS SNOW SHALL BE TRANSPORTED OFF SITE FOR DISPOSAL IN ACCORDANCE WITH NHDES REGULATION. IF SNOW IS STORED WITHIN PARKING AREA, KEEP CATCH BASINS CLEAR.



HORIZONTAL SCALE 1" = 40'

SITE DEVELOPMENT PLANS
 TAX MAP 14 LOT 39-2
SITE LAYOUT PLAN
 SOUTHERN NEW HAMPSHIRE GREEN ENERGY CAMPUS
 25 NORTH WENTWORTH AVE.
 LONDONDERRY, NH 03053
 OWNED BY
 PURPOSEENERGY-LONDONDERRY, LLC
 25 PELHAM ROAD SUITE 102, SALEM, NH 03079
 SCALE: 1" = 40' SEPTEMBER 8, 2025

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OWNER'S SIGNATURE

 OWNER OR AUTHORIZED AGENT
 12/22/2025
 DATE

Approved by the Londonderry, NH Planning Board for Phase _____
 on Date: _____
 Certified by: _____



NO.	DATE	DESCRIPTION	BY	CHK
5	12/18/2025	ADT & STAFF COMMENTS	JD	NG
4	10/24/2025	NH&S APPROVAL	JD	NG
3	11/3/2025	TOWN SEWER COMMENTS	JD	NG
2	9/30/2025	REVISED FOR NH&S & NHDES COMMENTS	JD	NG
1	9/12/2025	UPDATE FOR SUBMITTAL	JD	NG
REV	DATE	DESCRIPTION	BY	CHK

TFM
 Civil Engineers
 Structural Engineers
 Traffic Engineers
 Land Surveyors
 Landscape Architects
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 Fax (603) 472-9747
 www.tfmoran.com

18252-02 DR FB
 CK CADFILE 18252-02 SITE PLAN C-06

Date: 2/20/2025 2:16pm
 F:\TFM Projects\18252-02 PurposeEnergy - Civil & Permitting Services\18252-02_CDD\PRODUCTION\18252-02 SITE PLAN.dwg

Dec 29, 2025 - 2:30pm
 F:\TM\Projects\18252-02_Londonderry, NH\18252-02_PurposesEnergy_Civil & Permitting Services\18252-02_CADD\PRODUCT\TOWN\18252-02_SITE_PLAN.dwg

Pipe Table				
Pipe Name	SIZE	MATERIAL	Length	Slope
CB10-CB12	15"	HDPE PIPE	169 LF	0.010
DMH1-CB12	15"	HDPE PIPE	65 LF	0.010
CB14-DMH9	24"	HDPE PIPE	81 LF	0.010
CB13-CB14	15"	HDPE PIPE	71 LF	0.012
CB1-CB2	15"	HDPE PIPE	22 LF	0.010
CB2-DMH1	15"	HDPE PIPE	156 LF	0.010
CB12-CB18	15"	HDPE PIPE	60 LF	0.010
CB6-CB8A	24"	HDPE PIPE	153 LF	0.008
CB8A-CB14	18"	HDPE PIPE	131 LF	0.010
DMH9-POND2	30"	HDPE PIPE	24 LF	0.005
CB30-DMH11	24"	HDPE PIPE	92 LF	0.010
DMH11-POND1	24"	HDPE PIPE	46 LF	0.005
CB28-DMH11	15"	HDPE PIPE	25 LF	0.008
CB27-DMH26	15"	HDPE PIPE	28 LF	0.010
CB20-CB21	15"	HDPE PIPE	94 LF	0.025
CB21-CB22	15"	HDPE PIPE	44 LF	0.009
CB22-DMH23	15"	HDPE PIPE	73 LF	0.010
DMH23-DMH24	15"	HDPE PIPE	58 LF	0.010
CB24-DMH25	15"	HDPE PIPE	82 LF	0.011
DMH25-DMH26	15"	HDPE PIPE	113 LF	0.009
DMH26-DMH11	18"	HDPE PIPE	126 LF	0.010
DMH6-CB8A	24"	HDPE PIPE	80 LF	0.010
DMH24-CB23	15"	HDPE PIPE	37 LF	0.009
OS3-DMH5	18"	HDPE PIPE	199 LF	0.010
DMH5-DMH5A	24"	HDPE PIPE	132 LF	0.010

Pipe Table				
Pipe Name	SIZE	MATERIAL	Length	Slope
CB4-DMH5	18"	HDPE PIPE	191 LF	0.010
CB23-CB24	15"	HDPE PIPE	110 LF	0.010
CB13A-CB13	15"	HDPE PIPE	102 LF	0.010
CB17-DMH9	18"	HDPE PIPE	108 LF	0.015
CB5-CB4	15"	HDPE PIPE	14 LF	0.007
TD-CB13A	24"	HDPE PIPE	56 LF	0.010
CB18-CB17	18"	HDPE PIPE	45 LF	0.010
CB19-CB17	15"	HDPE PIPE	50 LF	0.010
CB3-DMH3	15"	HDPE PIPE	90 LF	0.010
DMH3-CB10	15"	HDPE PIPE	82 LF	0.010
OS2-OUT	15"	HDPE PIPE	31 LF	0.016
OS1-OUT	15"	HDPE PIPE	60 LF	0.004
CB16-HW2	15"	HDPE PIPE	61 LF	0.030
CB15-OS3	15"	HDPE PIPE	38 LF	0.009
DMH RD-CB28	15"	HDPE PIPE	39 LF	0.005
PROCESS -DMH RD	15"	CORRUGATED HDPE PIPE	72 LF	0.005
DMH5A-DMH6	24"	CORRUGATED HDPE PIPE	114 LF	0.010

NOTES

- SEE NOTES ON SHEET C-02.
- SEE GRADING AND DRAINAGE PLAN ON SHEET C-07

STRUCTURE TABLE		
STRUCTURE NAME	STRUCTURE DETAILS	SUMP
CB1	RIM = 297.43 CB1-CB2 INV OUT = 293.18	0.0
CB2	RIM = 297.43 CB1-CB2 INV IN = 292.96 CB2-DMH1 INV OUT = 292.64	0.0
CB3 5'Ø	RIM = 296.74 CB4-DMH5 INV IN = 289.15 CB3-DMH3 INV OUT = 289.05	0.0
CB4	RIM = 297.46 CB5-CB4 INV IN = 291.16 CB4-DMH5 INV OUT = 291.06	0.0
CB5	RIM = 296.65 CB5-CB4 INV OUT = 291.26	0.0
CB6	RIM = 294.80 CB6-CB8A INV OUT = 288.00	0.0
CB8A 5'Ø	RIM = 293.10 CB6-CB8A INV IN = 286.82 CB8A-CB14 INV IN = 284.69	0.0
CB10	RIM = 296.00 DMH3-CB10 INV IN = 286.15 CB10-CB12 INV OUT = 285.94	0.0
CB12	RIM = 296.75 CB10-CB12 INV IN = 284.25 CB12-CB18 INV OUT = 284.15	0.0
CB13	RIM = 294.50 CB13A-CB13 INV IN = 289.66 CB13-CB14 INV OUT = 288.00	0.0
CB13A 5'Ø	RIM = 294.95 TD-CB13A INV IN = 286.94 CB13A-CB13 INV OUT = 290.70	0.0
CB14 5'Ø	RIM = 293.10 CB13-CB14 INV IN = 287.13 CB8A-CB14 INV OUT = 286.00 CB14-DMH9 INV OUT = 280.06	0.0
CB15	RIM = 296.08 CB15-OS3 INV OUT = 291.94	0.0
CB16	RIM = 281.80 CB16-HW2 INV OUT = 277.55	0.0
CB17 5'Ø	RIM = 298.57 CB18-CB17 INV OUT = 282.45 CB17-DMH9 INV OUT = 279.72 CB19-CB17 INV OUT = 285.00	0.0
CB18	RIM = 298.57 CB18-CB17 INV IN = 282.00 CB12-CB18 INV IN = 283.55	0.0
CB19	RIM = 293.00 CB19-CB17 INV IN = 284.50	0.0
CB20	RIM = 293.44 CB20-CB21 INV OUT = 289.20	0.0
CB21	RIM = 291.69 CB20-CB21 INV IN = 286.90 CB21-CB22 INV OUT = 286.80	0.0
CB22	RIM = 293.45 CB21-CB22 INV IN = 286.41 CB22-DMH23 INV OUT = 286.31	0.0

STRUCTURE TABLE		
STRUCTURE NAME	STRUCTURE DETAILS	SUMP
CB23	RIM = 293.50 DMH24-CB23 INV IN = 284.46 CB23-CB24 INV OUT = 284.31	0.0
CB24	RIM = 293.40 CB23-CB24 INV IN = 283.20 CB24-DMH25 INV OUT = 283.10	0.0
CB27	RIM = 292.34 CB27-DMH26 INV OUT = 288.15	0.0
CB28	RIM = 293.39 DMH RD-CB28 INV IN = 286.85 CB28-DMH11 INV OUT = 286.75	0.0
CB30	RIM = 295.91 DMH6-CB8A INV IN = 285.92 CB30-DMH11 INV OUT = 285.80	0.0
DMH RD	RIM = 294.18 PROCESS -DMH RD INV IN = 289.15 DMH RD-CB28 INV OUT = 289.05	0.0
DMH1	RIM = 300.00 DMH1-CB12 INV IN = 289.30 CB2-DMH1 INV IN = 291.08	0.0
DMH3	RIM = 296.65 CB3-DMH3 INV IN = 288.15 DMH3-CB10 INV OUT = 286.97	0.0
DMH5	RIM = 296.65 OS3-DMH5 INV IN = 289.51 DMH5-DMH5A INV OUT = 289.40	0.0
DMH5A	RIM = 293.04 DMH5-DMH5A INV IN = 288.13 DMH5A-DMH6 INV OUT = 288.00	0.0
DMH6	RIM = 294.50 DMH5A-DMH6 INV IN = 286.82 DMH6-CB8A INV OUT = 286.72	0.0
DMH9 5'Ø	RIM = 292.03 CB17-DMH9 INV IN = 278.10 CB14-DMH9 INV IN = 279.25 DMH9-POND2 INV OUT = 278.12	0.0
DMH11 5'Ø	RIM = 292.73 CB30-DMH11 INV IN = 284.88 CB28-DMH11 INV IN = 286.54 DMH26-DMH11 INV IN = 279.54 DMH11-POND1 INV OUT = 277.23	0.0
DMH23	RIM = 293.73 CB22-DMH23 INV IN = 285.59 DMH23-DMH24 INV OUT = 285.49	0.0
DMH24	RIM = 293.70 DMH23-DMH24 INV IN = 284.91 DMH24-CB23 INV OUT = 284.81	0.0
DMH25	RIM = 293.90 CB24-DMH25 INV IN = 282.23 DMH25-DMH26 INV OUT = 282.10	0.0
DMH26	RIM = 293.70 DMH25-DMH26 INV IN = 281.05 CB27-DMH26 INV IN = 287.87 DMH26-DMH11 INV OUT = 280.80	0.0
OS1	RIM = 277.30 OS1-OUT INV OUT = 266.00	0.0
OS2	RIM = 279.00 OS2-OUT INV OUT = 272.00	0.0
OS3	RIM = 295.90 CB15-OS3 INV IN = 291.60 OS3-DMH5 INV OUT = 291.50	0.0

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REV	DATE	DESCRIPTION	DR	CHK
5	12/19/2025	AOT & STAFF COMMENTS	JD	NG
4	10/24/2025	INP&S APPROVAL	JD	NG
3	11/3/2025	TOWN SEWER COMMENTS	JD	NG
2	9/30/2025	REVISED FOR INP&S & INP&S COMMENTS	JD	NG
1	9/12/2025	UPDATE FOR SUBMITTAL	JD	NG

SITE DEVELOPMENT PLANS

TAX MAP 14 LOT 39-2
DRAINAGE STRUCTURE TABLES
 SOUTHERN NEW HAMPSHIRE GREEN ENERGY CAMPUS
 25 NORTH WENTWORTH AVE.
 LONDONDERRY, NH 03053

OWNED BY
 PREPARED FOR
PURPOSEENERGY-LONDONDERRY, LLC
 25 PELHAM ROAD SUITE 102, SALEM, NH 03079

SCALE: NONE SEPTEMBER 8, 2025

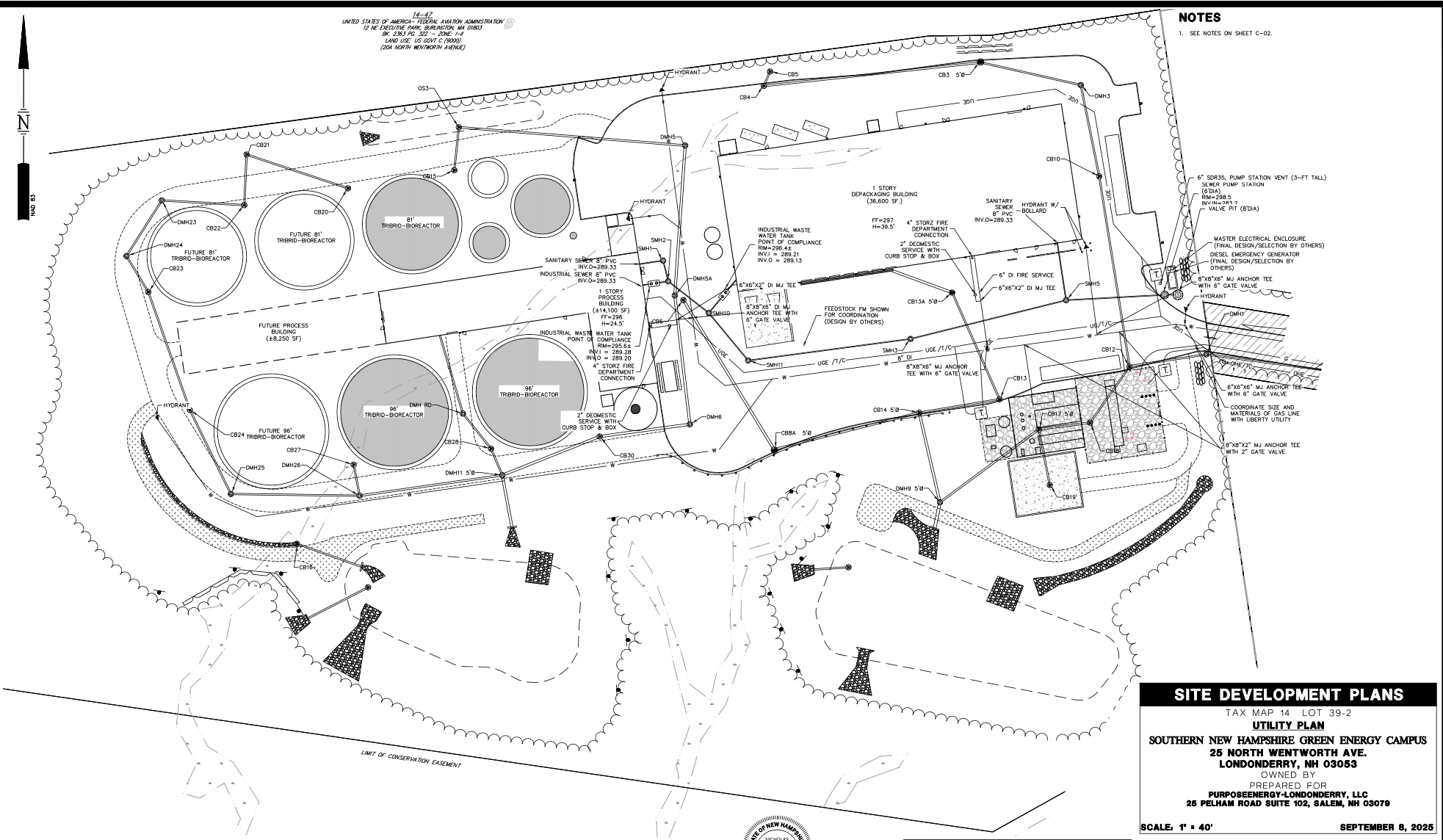
	Civil Engineers Structural Engineers Traffic Engineers Land Surveyors Landscape Architects Scientists	48 Constitution Drive Bedford, NH 03110 Phone (603) 472-4488 Fax (603) 472-9747 www.tfmoran.com
--	--	---

18252-02	DR	FB	CADFILE	18252-02 SITE PLAN	C-08
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14-47
 UNITED STATES OF AMERICA - FEDERAL AVIATION ADMINISTRATION
 12 NE EXECUTIVE PARK, BURLINGTON, MA 01803
 DR 2352.P1.325 - ZONE 140
 LAND USE: US GOVT C (R000)
 (20A NORTH WENTWORTH AVENUE)

NOTES

1. SEE NOTES ON SHEET C-02.



SITE DEVELOPMENT PLANS

TAX MAP 14 LOT 39-2
UTILITY PLAN
 SOUTHERN NEW HAMPSHIRE GREEN ENERGY CAMPUS
 25 NORTH WENTWORTH AVE.
 LONDONDERRY, NH 03053

PREPARED FOR
PURPOSEENERGY-LONDONDERRY, LLC
 25 PELHAM ROAD SUITE 102, SALEM, NH 03079

SCALE: 1" = 40' SEPTEMBER 8, 2025



HORIZONTAL SCALE 1"=40'
 40 20 0 40

REV	DATE	DESCRIPTION	JD	NG
5	12/18/2025	ADT & STAFF COMMENTS	JD	NG
4	10/24/2025	NHF&G APPROVAL	JD	NG
3	11/3/2025	TOWN SEWER COMMENTS	JD	NG
2	12/30/2025	REVISED FOR NHF&G INQUIRY COMMENTS	JD	NG
1	9/12/2025	UPDATE FOR SUBMITTAL	JD	NG



Civil Engineers
 Structural Engineers
 Traffic Engineers
 Land Surveyors
 Landscape Architects
 Scientists

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 Bedford, NH 03110
 Phone (603) 472-4488
 Fax (603) 472-9747
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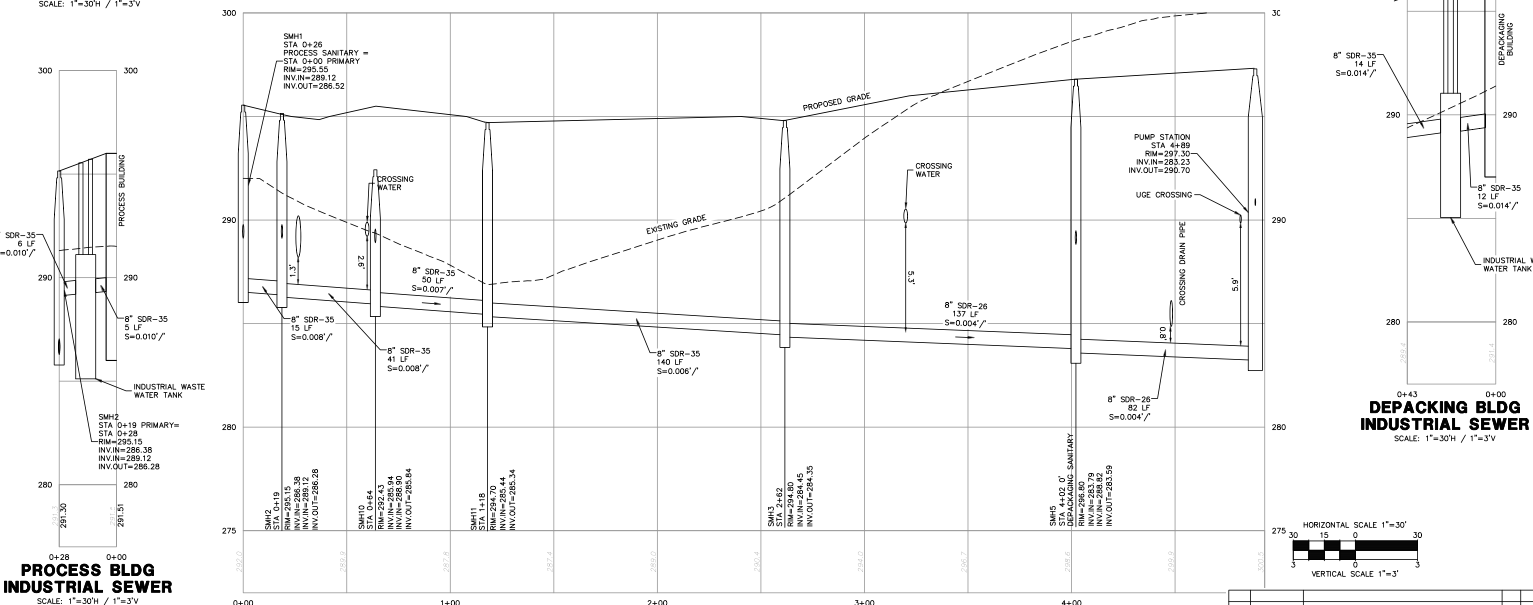
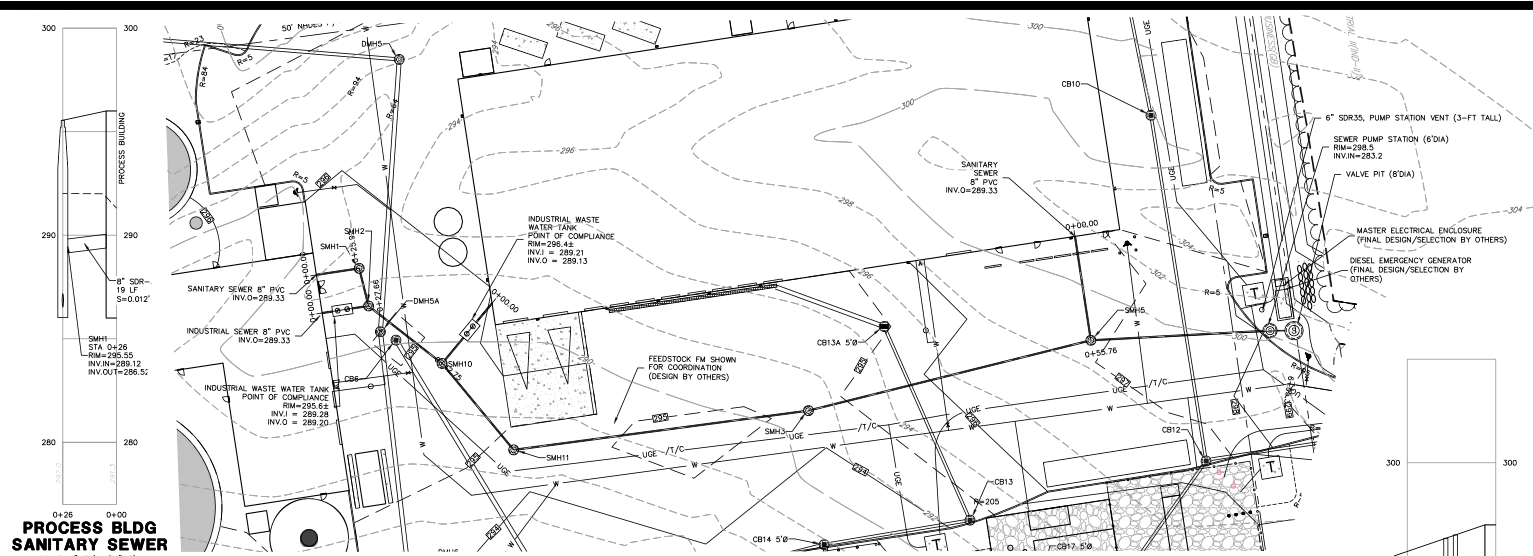
18252-02	DR	FB	18252-02 SITE PLAN	C-09
	CK	CADFILE		

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Date: 2/20/2025 - 2:17pm
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Dec 29, 2025 - 2:16pm
 T:\M\Projects\18252-02_PurposeEnergy_Civil & Permitting Services\18252-02_CDD\PRODUCTION\18252-02_SITE PLAN.dwg

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NOTES

1. SEE NOTES ON SHEET C-02.

SITE DEVELOPMENT PLANS

TAX MAP 14 LOT 39-2
SITE SEWERS PLAN AND PROFILE
 SOUTHERN NEW HAMPSHIRE GREEN ENERGY CAMPUS
 25 NORTH WENTWORTH AVE.
 LONDONDERRY, NH 03053

PREPARED FOR
PURPOSEENERGY-LONDONDERRY, LLC
 25 PELHAM ROAD SUITE 102, SALEM, NH 03079

SCALE: 1" = 30' H / 1" = 3' V SEPTEMBER 8, 2025

5	12/16/2025	AOT & STAFF COMMENTS	JD	NG	
4	10/24/2025	NHF&Q APPROVAL	JD	NG	
3	11/3/2025	TOWN SEWER COMMENTS	JD	NG	
2	5/25/2025	REVISED FOR NHF&Q & NHDES COMMENTS	JD	NG	
1	9/12/2025	UPDATE FOR SUBMITTAL	JD	NG	
REV	DATE	DESCRIPTION	DR	CHK	

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18252-02	DR CK	FB CADFILE	18252-02 SITE PLAN
			C-10

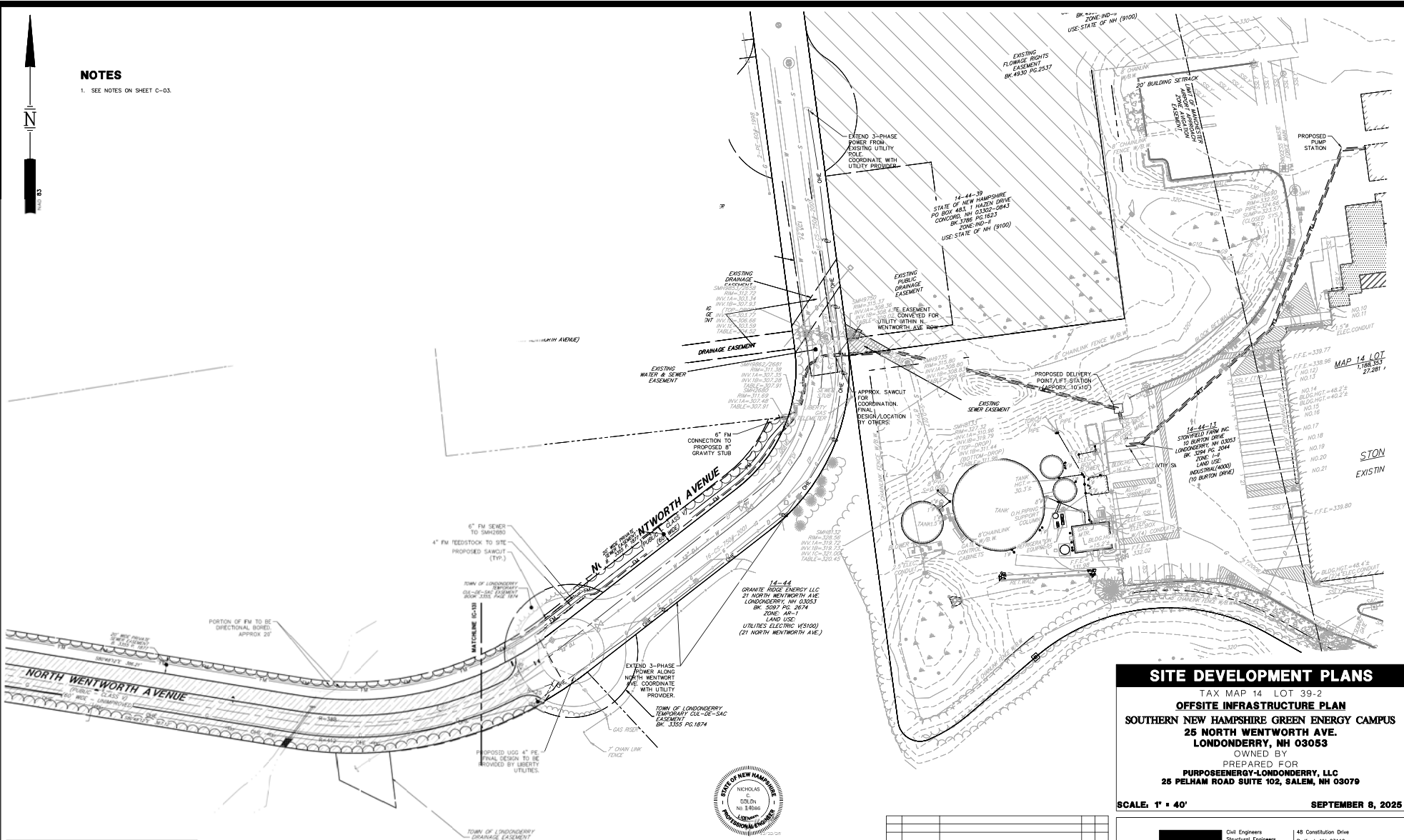


PRIMARY SITE SEWER
 SCALE: 1"=30'H / 1"=3'V



NOTES

1. SEE NOTES ON SHEET C-03.



HORIZONTAL SCALE 1"=50'
50 25 0 50

REV	DATE	DESCRIPTION	BY	CHK
5	12/16/2025	AOT & STAFF COMMENTS	JD	NG
4	10/24/2025	NHF&G APPROVAL	JD	NG
3	11/3/2025	TOWN SENIOR COMMENTS	JD	NG
2	9/30/2025	REVISED FOR NHF&G COMMENTS	JD	NG
1	9/12/2025	UPDATE FOR SUBMITTAL	JD	NG
			DR	CK

SITE DEVELOPMENT PLANS
 TAX MAP 14 LOT 39-2
OFFSITE INFRASTRUCTURE PLAN
SOUTHERN NEW HAMPSHIRE GREEN ENERGY CAMPUS
25 NORTH WENTWORTH AVE.
LONDONDERRY, NH 03053
 OWNED BY
PURPOSEENERGY-LONDONDERRY, LLC
25 PELHAM ROAD SUITE 102, SALEM, NH 03079
 PREPARED FOR
PURPOSEENERGY-LONDONDERRY, LLC
25 PELHAM ROAD SUITE 102, SALEM, NH 03079
 SCALE: 1" = 40' SEPTEMBER 8, 2025



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 Landscape Architects
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 Fax (603) 472-9747
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18252-02	DR	FB		
CK	CADFILE		18252-02 SITE PLAN	C-11

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Date: 23, 2025 - 2:10pm
 TFM Project: 18252 - Londonderry, NH 03053 - PurposeEnergy Green Energy Camp - 25 North Wentworth Ave. - 18252-02 - OFFSITE INFRASTRUCTURE PLAN

Date: 2/23/2025 - 2:16pm
 T:\M\Projects\18252-02_SitePlan\18252-02_SitePlan.dwg
 User: jmoran
 Plot: 18252-02_SitePlan.dwg
 Plot Date: 2/23/2025 2:16:00 PM
 Plot Scale: 1"=40'
 Plot Size: 24.00 x 36.00
 Plot Orientation: Landscape
 Plot Color: Black
 Plot Lineweight: 0.20
 Plot Linetype: Solid
 Plot Font: Arial, 10
 Plot Title: 18252-02 SITE PLAN.dwg

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HORIZONTAL SCALE 1"=40'
 40 20 0 40

REV	DATE	DESCRIPTION	BY	CHK
5	12/18/2025	ADT & STAFF COMMENTS	JD	NG
4	10/24/2025	INR&S APPROVAL	JD	NG
3	11/3/2025	TOWN SEWER COMMENTS	JD	NG
2	9/30/2025	REVISED FOR INR&S & INR&S COMMENTS	JD	NG
1	9/12/2025	UPDATE FOR SUBMITTAL	JD	NG

SITE DEVELOPMENT PLANS

TAX MAP 14 LOT 39-2
STORMWATER MANAGEMENT PLAN
 SOUTHERN NEW HAMPSHIRE GREEN ENERGY CAMPUS
 25 NORTH WENTWORTH AVE.
 LONDONDERRY, NH 03053

PREPARED FOR
PURPOSEENERGY-LONDONDERRY, LLC
 25 PELHAM ROAD SUITE 102, SALEM, NH 03079

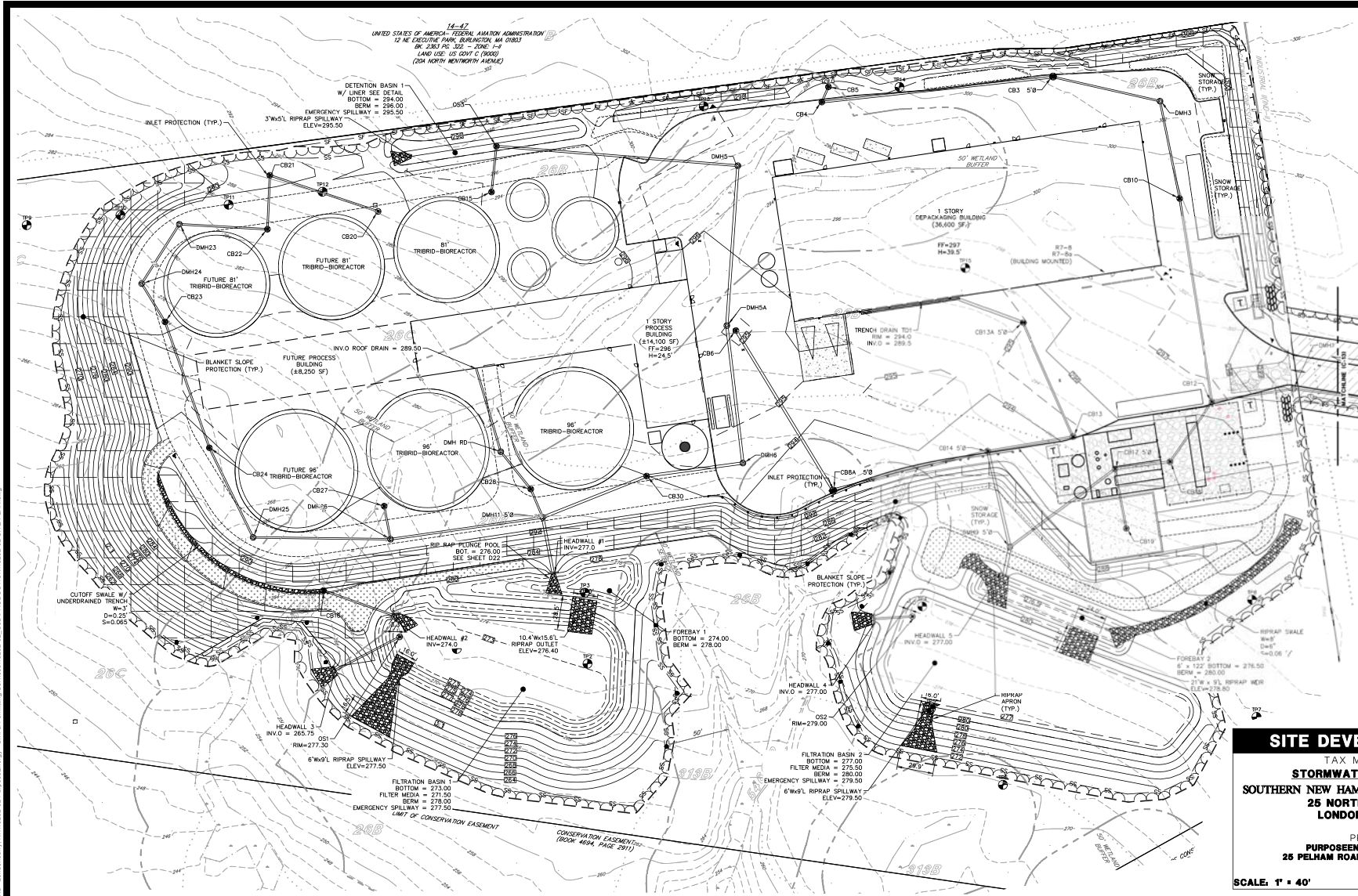
SCALE: 1" = 40' SEPTEMBER 8, 2025

TFM

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 Traffic Engineers
 Land Surveyors
 Landscape Architects
 Scientists

48 Constitution Drive
 Bedford, NH 03110
 Phone (603) 472-4488
 Fax (603) 472-9747
 www.tfmoran.com

18252-02	DR	FB	CADFILE	18252-02 SITE PLAN	C-12
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14-47
 UNITED STATES OF AMERICA - FEDERAL AVIATION ADMINISTRATION
 12 NE EXECUTIVE PARK, BURLINGTON, MA 01803
 RW 2383 FC 352 - 200C - 1-4
 LAND USE: US GOVT C (P000)
 (204 NORTH WENTWORTH AVENUE)

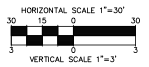
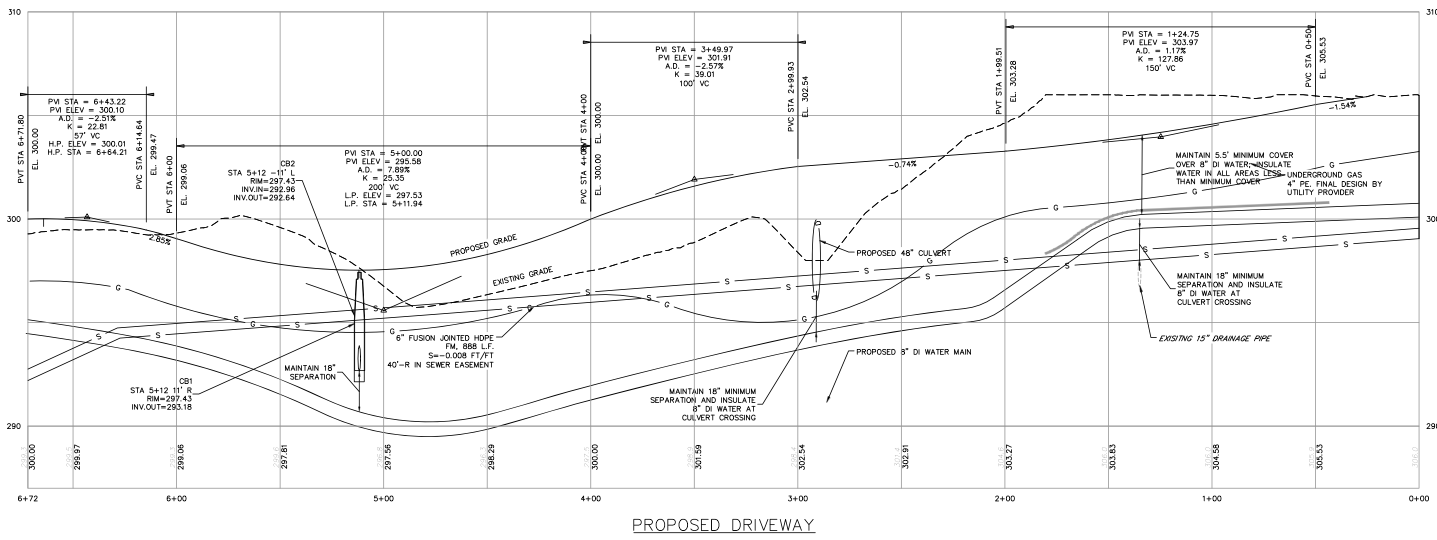
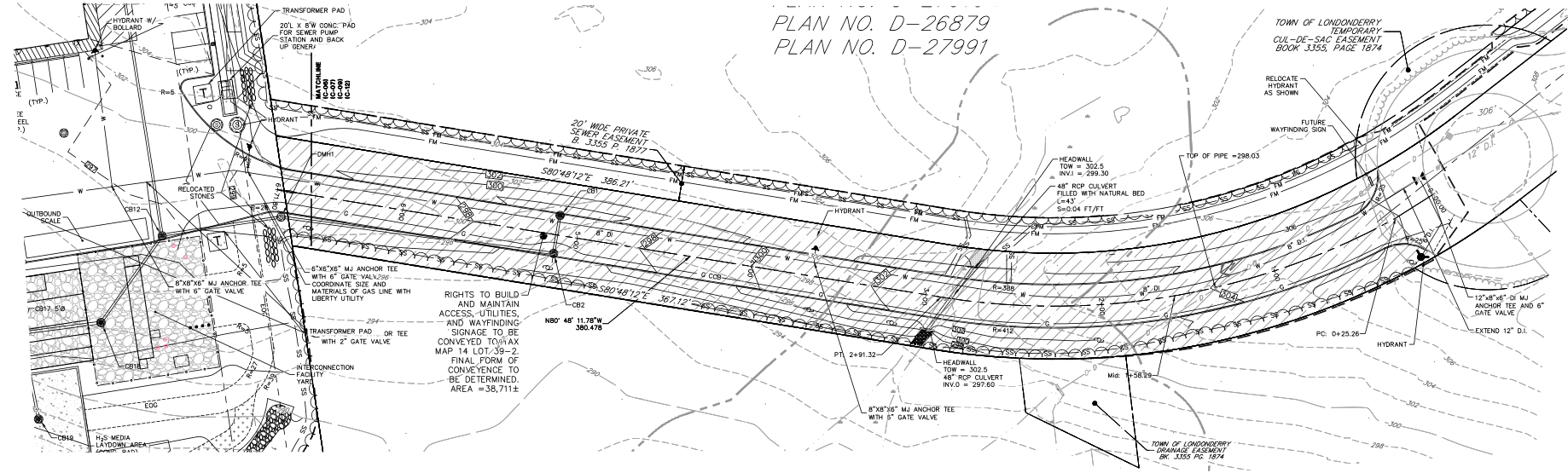
NOTES

1. SEE SHEET D-01 FOR STORMWATER MANAGEMENT AND CONSTRUCTION GENERAL PERMIT NOTES.

PLAN NO. D-26879
PLAN NO. D-27991

TOWN OF LONDONDERRY
TEMPORARY
CUL-DE-SAC EASEMENT
BOOK 3355, PAGE 1874

RIGHTS TO BUILD
AND MAINTAIN
ACCESS, UTILITIES,
AND WAYFINDING
SIGNAGE TO BE
CONVEYED TO AS X
MAP 14 LOT 39-2.
FINAL FORM OF
CONVEYANCE TO BE
DETERMINED.
AREA = 38,711±



SITE DEVELOPMENT PLANS
TAX MAP 14 LOT 39-2
DRIVEWAY PLAN & PROFILE
SOUTHERN NEW HAMPSHIRE GREEN ENERGY CAMPUS
25 NORTH WENTWORTH AVE.
LONDONDERRY, NH 03053
PREPARED BY
PURPOSEENERGY-LONDONDERRY, LLC
25 PELHAM ROAD SUITE 102, SALEM, NH 03079
SCALE: 1" = 30' H / 1" = 3' V SEPTEMBER 8, 2025

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REV	DATE	DESCRIPTION	BY	CHK
5	12/18/2024	AOT & STAFF COMMENTS	JD	NC
4	10/24/2025	TOWN & APPROVAL	JD	NC
3	11/3/2024	TOWN SEWER COMMENTS	JD	NC
2	9/30/2025	REVISED FOR NH FAC & INDEXES COMMENTS	JD	NC
1	8/12/2025	UPDATE FOR SUBMITTAL	JD	NC

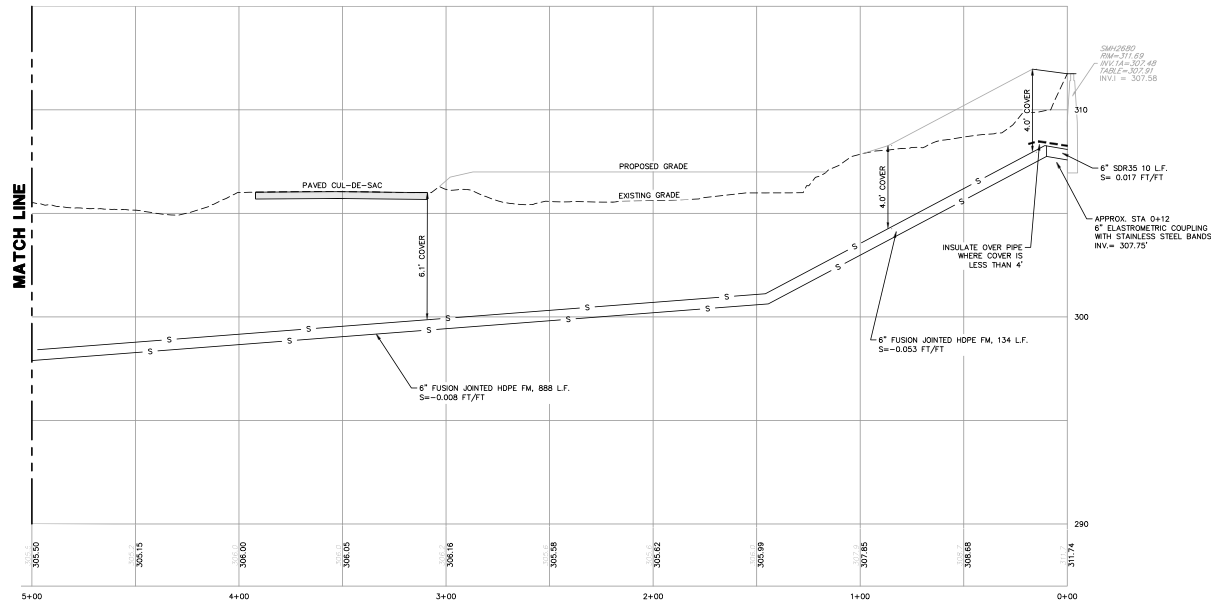
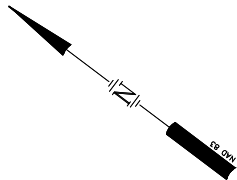
TFM Civil Engineers
Structural Engineers
Traffic Engineers
Land Surveyors
Landscape Architects
Scientists

48 Constitution Drive
Bedford, NH 03110
Phone (603) 472-4488
Fax (603) 472-9747
www.tfmoran.com

18252-02 DR CK FB CADFILE 18252-02 SITE PLAN C-13

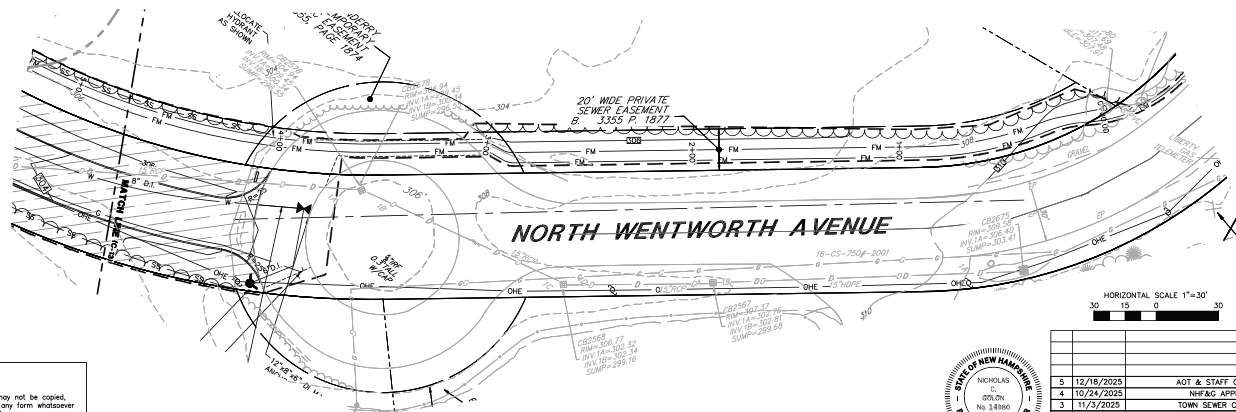
NOTES

1. SEE NOTES ON SHEET C-03.



SEWER FORCEMAIN TO MUNICIPAL SYSTEM

SCALE: 1" = 30' H/1" = 3' V



HORIZONTAL SCALE 1" = 30'



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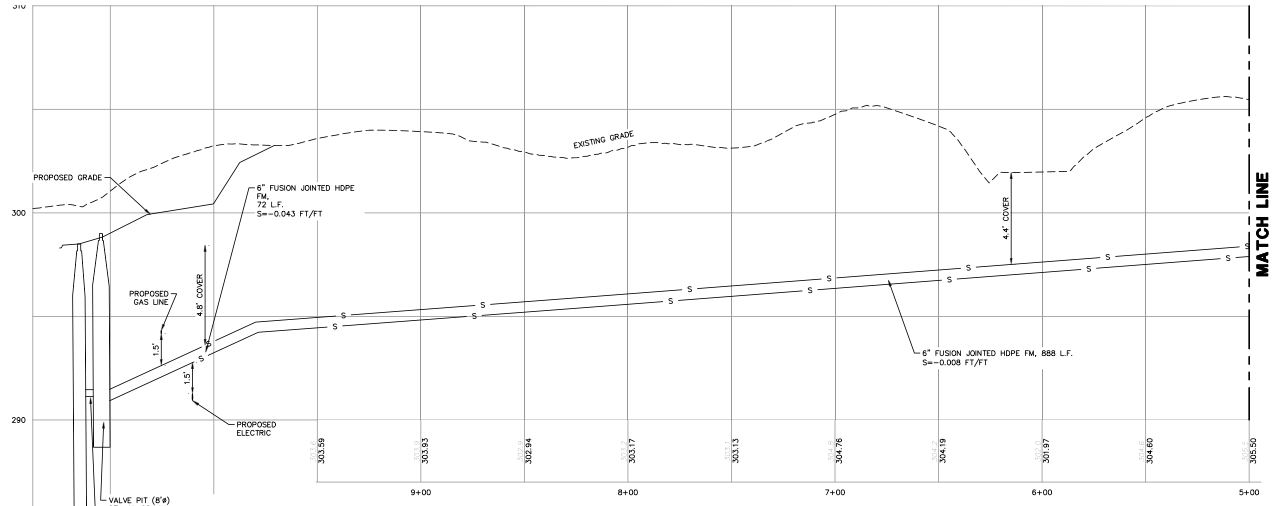
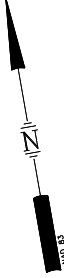


REV	DATE	DESCRIPTION	BY	CHK
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4	10/24/2025	NHF&G APPROVAL	JD	NG
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2	12/30/2025	REVISED FOR NHF&G & TOWN COMMENTS	JD	NG
1	9/12/2025	UPDATE FOR SUBMITTAL	JD	NG
			DP	CK

SITE DEVELOPMENT PLANS
TAX MAP 14 LOT 39-2
FORCEMAIN PLAN AND PROFILE
SOUTHERN NEW HAMPSHIRE GREEN ENERGY CAMPUS
25 NORTH WENTWORTH AVE.
LONDONDERRY, NH 03053
OWNED BY
PREPARED FOR
PURPOSEENERGY-LONDONDERRY, LLC
25 PELHAM ROAD SUITE 102, SALEM, NH 03079
SCALE: 1" = 30' H / 1" = 3' V
SEPTEMBER 8, 2025

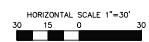
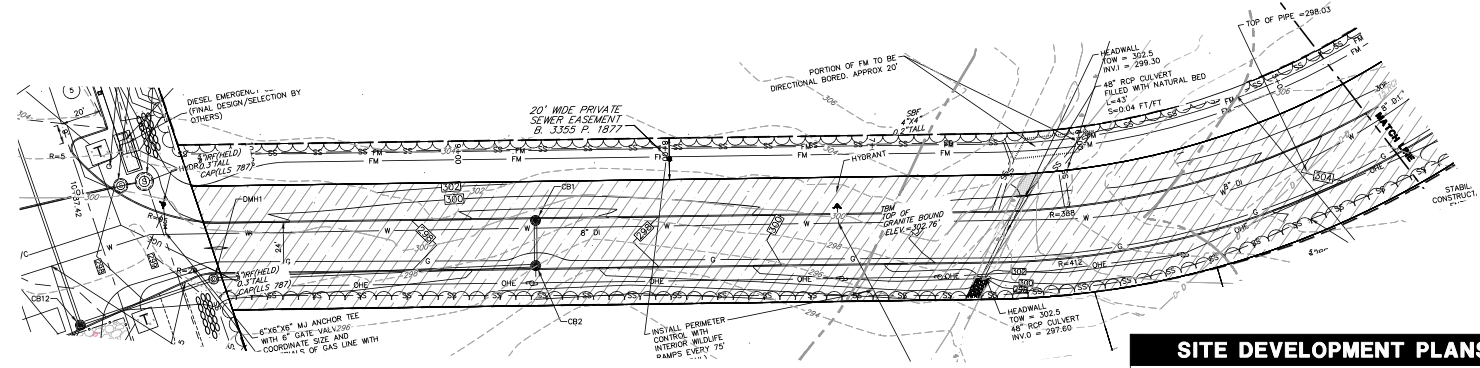
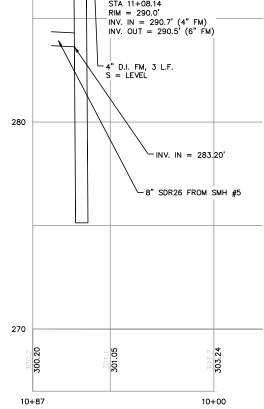
	Civil Engineers Structural Engineers Traffic Engineers Land Surveyors Landscape Architects Scientists		48 Constitution Drive Bedford, NH 03110 Phone (603) 472-4488 Fax (603) 472-9747 www.tfmoran.com	
	18252-02	DR CK	FB CADPLE	18252-02 SITE PLAN
				C-14

Date: 2/20/2025 2:29pm
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SEWER FORCEMAIN TO MUNICIPAL SYSTEM

SCALE: 1" = 30' H, 1" = 3' V



NOTES
1. SEE NOTES ON SHEET C-03.

SITE DEVELOPMENT PLANS
TAX MAP 14 LOT 39-2
FORCEMAIN PLAN AND PROFILE
SOUTHERN NEW HAMPSHIRE GREEN ENERGY CAMPUS
25 NORTH WENTWORTH AVE.
LONDONDERRY, NH 03053
OWNED BY
PREPARED FOR
PURPOSEENERGY-LONDONDERRY, LLC
25 PELHAM ROAD SUITE 102, SALEM, NH 03079
SCALE: 1" = 30' H / 1" = 3' V **SEPTEMBER 8, 2025**

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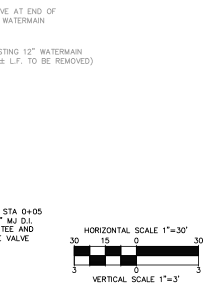
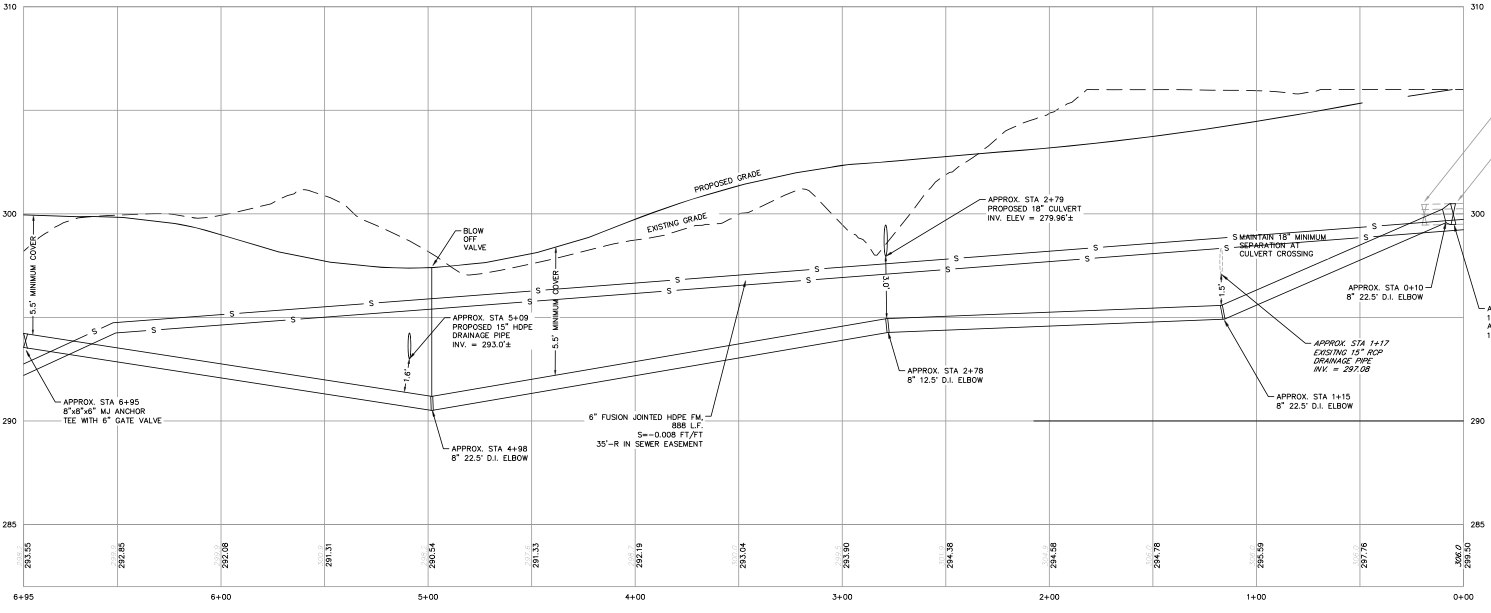
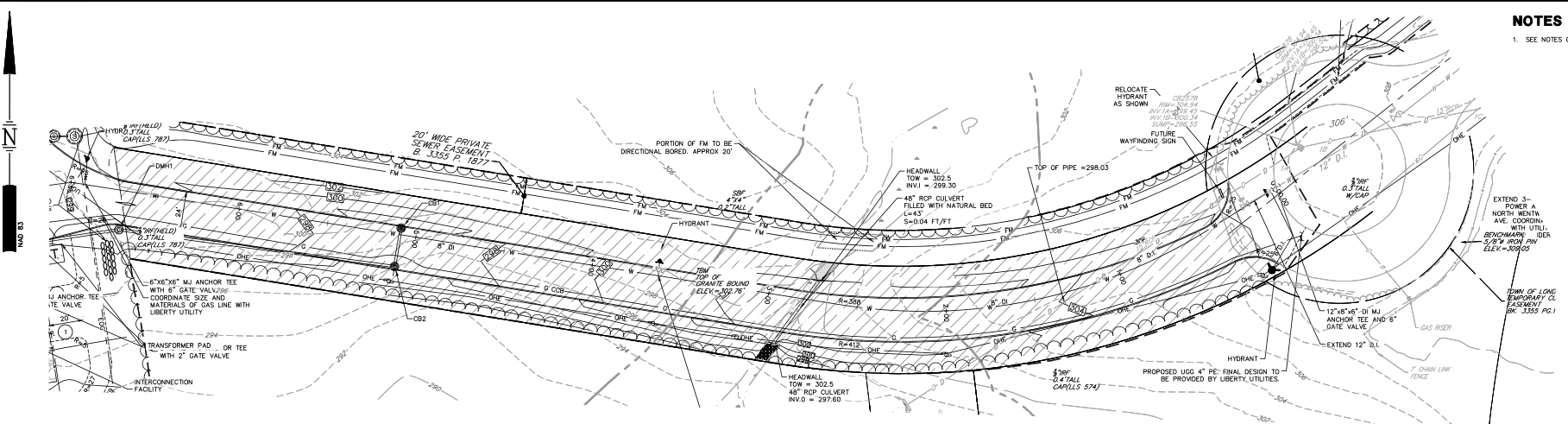
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5	12/18/2025	ADT & STAFF COMMENTS	JD	NG
4	10/24/2025	INFR&D APPROVAL	JD	NG
3	11/3/2025	TOWN SEWER COMMENTS	JD	NG
2	9/30/2025	REVISED FOR INFR&D & INHES COMMENTS	JD	NG
1	9/12/2025	UPDATE FOR SUBMITTAL	JD	NG

TFM	Civil Engineers	48 Constitution Drive
	Structural Engineers	Bedford, NH 03110
	Traffic Engineers	Phone (603) 472-4488
	Land Surveyors	Fax (603) 472-9747
	Landscape Architects	www.tfmoran.com
	Scientists	

18252-02	DR	FB		
	CK	CADFILE	18252-02 SITE PLAN	C-15

Date: 23, 2025 - 2:27pm
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NOTES
1. SEE NOTES ON SHEET C-03.



SITE DEVELOPMENT PLANS
TAX MAP 14 LOT 39-2
WATER PLAN & PROFILE
SOUTHERN NEW HAMPSHIRE GREEN ENERGY CAMPUS
25 NORTH WENTWORTH AVE.
LONDONDERRY, NH 03053
PREPARED FOR
PURPOSEENERGY-LONDONDERRY, LLC
25 PELHAM ROAD SUITE 102, SALEM, NH 03079
SCALE: 1" = 30' H / 1" = 3' V **SEPTEMBER 8, 2025**

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REV	DATE	DESCRIPTION	DR	CHK
5	12/18/2025	AOT & STAFF COMMENTS	JD	ING
4	10/24/2025	NHF&G APPROVAL	JD	ING
3	11/23/2025	TOWN SEWER COMMENTS	JD	ING
2	12/30/2024	REVISED FOR NHF&G & INHSES COMMENTS	JD	ING
1	9/12/2025	UPDATE FOR SUBMITTAL	JD	ING
			DR	CHK

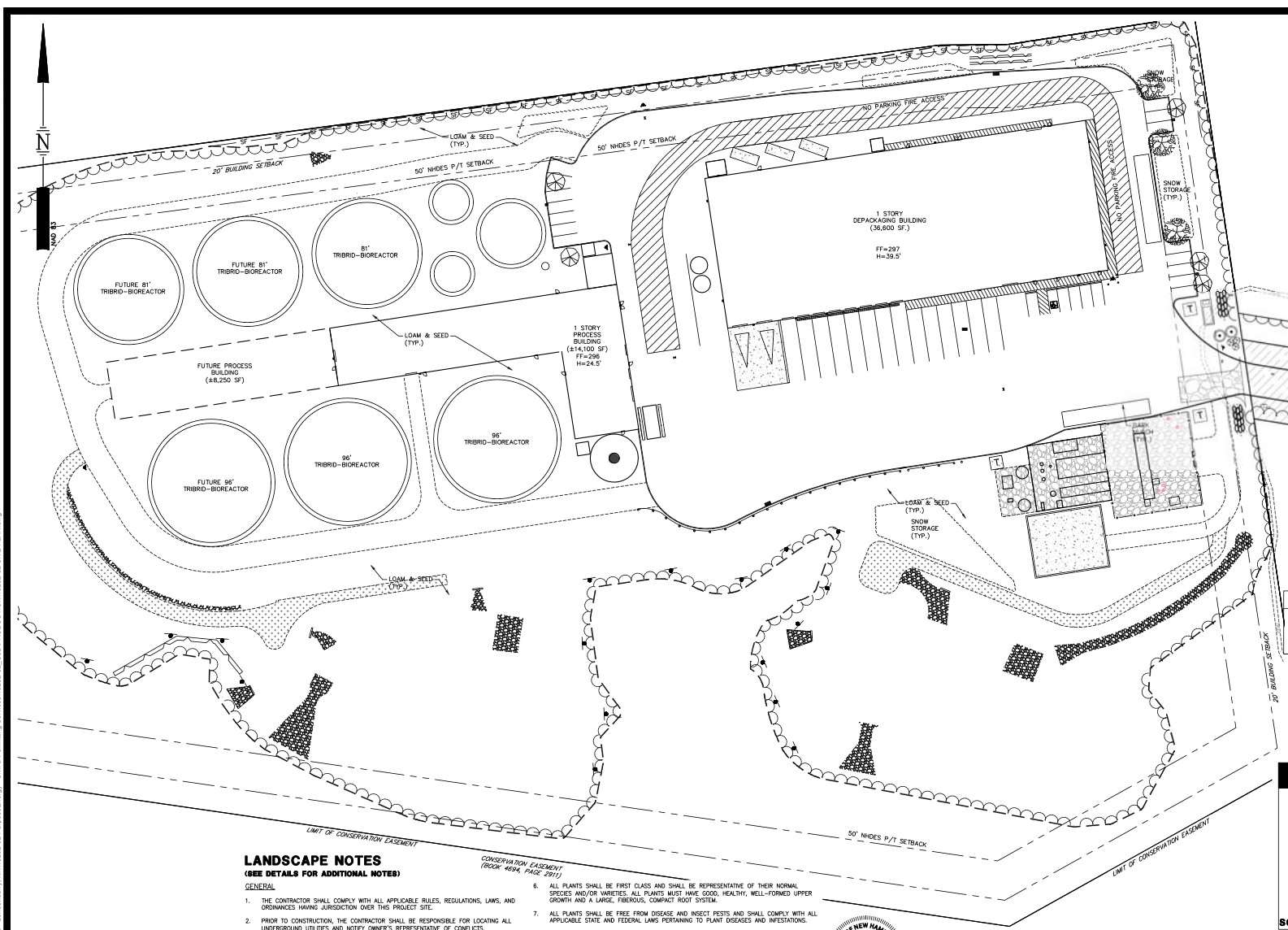
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Bedford, NH 03110
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18252-02 DR
CK CADFILE 18252-02 SITE PLAN C-16

Date: 2/20/2025 2:22:10pm
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Date: 2/23/2025 2:22pm
 T:\M\Projects\18252-02_PurposeEnergy_Camp & Permitted_Services\18252-02_CAD\PRODUCTION\18252-02_SITE_PLAN.dwg



LANDSCAPE LEGEND

SYMBOL	QTY	BOTANICAL NAME COMMON NAME	SIZE	REMARKS
	3	QUERCUS RUBRA RED OAK	2 1/2" TO 3" CAL.	B&B
	5	QUERCUS P. "GREEN PILLAR" GREEN PILLAR PIN OAK	2 1/2" TO 3" CAL.	B&B
	3	JUNIPERUS VIRGINIANA HILLSPIRE" HILLSPIRE EASTERN RED CEDAR	6" TO 7"	B&B
	3	SYRINKA VALLDARIS "NEW AGE LAVENDER" NEW AGE LAVENDER LILAC	5 GAL.	CONT.

LANDSCAPE REQUIREMENTS

GREEN SPACE REQUIREMENT:
 REQUIRED: 25%
 PROVIDED: 64%

INTERIOR PARKING LANDSCAPE AREA REQUIREMENTS:
 (3.10g) OF SITE PLAN REG. 5) *WAIVER REQUIRED

INTERNAL PARKING LOT LANDSCAPING:
 (3.10g) OF SITE PLAN REG. 5)
 1 SHADE TREE/15 PARKING SPACES (19 SPACES/15) = 1.2 TREES
 TOTAL TREES REQUIRED = 1
 TREES PROVIDED = 2 TREES

PARKING LOT PERIMETER LANDSCAPING:
 (3.10g) OF SITE PLAN REG. 5)
 1 SHADE TREE/20' OF PARKING PERIMETER = 117 SF/20' = 5.8 SHADE TREES
 TOTAL TREES REQUIRED = 6
 TREES PROVIDED = 8 TREES

SCREENING FROM PUBLIC RIGHT-OF-WAY:
 (3.10g) OF SITE PLAN REG. 5)
 EXISTING VEGETATION TO SATISFY REQUIREMENT.

ACCORDING TO THE USDA PLANT HARDINESS ZONE MAP THE ANNUAL MINIMUM TEMPERATURE ZONES FOR SOUTHERN NH ARE BETWEEN ZONE 4 (-30 TO -20 DEGREES) AND ZONE 5 (-20 TO -10 DEGREES). THE PLANT MATERIALS SHOWN ON THIS PLAN HAVE A HARDINESS ZONE TO MEET THAT OF SOUTHERN NH.

THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION AND MAINTENANCE THROUGHOUT CONSTRUCTION OF PROTECTIVE TREE FENCING LOCATED 12" INCHES OFF THE THE DAPLINE OF ALL TREES TO BE PROTECTED. PRIOR TO CONSTRUCTION THE CONTRACTOR IS REQUIRED TO HAVE ALL NO-CUT ZONES DELINEATED IN THE FIELD.

THE CONTRACTOR/APPLICANT IS RESPONSIBLE FOR REPLACEMENT OF "ANY TREES DESIGNATED TO REMAIN, WHICH HAVE BEEN DAMAGED, KILLED OR REMOVED AS A RESULT OF CONSTRUCTION ACTIVITIES". SEE TOWN OF LONDONDERRY "LANDSCAPE DESIGN STANDARDS" SECTION 3.10.D OF THE SITE PLAN REGULATIONS.

THE OWNER IS RESPONSIBLE FOR MAINTENANCE OF ALL LANDSCAPE AREAS ONCE CONSTRUCTION IS COMPLETED AS OUTLINED IN THE TOWN OF LONDONDERRY "LANDSCAPE DESIGN STANDARDS" SECTION 3.10.F OF THE SITE PLAN REGULATIONS.

APPROVED BY THE TOWN OF LONDONDERRY PLANNING BOARD

ON _____ AND
 BOARD MEMBER _____
 BOARD MEMBER _____

LANDSCAPE NOTES (SEE DETAILS FOR ADDITIONAL NOTES)

- GENERAL**
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE RULES, REGULATIONS, LAWS, AND ORDINANCES HAVING JURISDICTION OVER THIS PROJECT SITE.
 - PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND NOTIFY OWNER'S REPRESENTATIVE OF CONFLICTS.
 - THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON PLANS BEFORE PROING THE WORK. ANY DIFFERENCE IN QUANTITIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR CLARIFICATION. LANDSCAPE QUANTITIES SHOWN ON THE PLAN SHALL SUPERCEDE QUANTITIES LISTED IN LANDSCAPE LEGEND.
 - THE CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT PRIOR TO STARTING WORK AND VERIFY THAT THE PLANS IN THE CONTRACTOR'S POSSESSION ARE THE MOST CURRENT PLANS AVAILABLE AND ARE THE APPROVED PLAN SET FOR USE IN CONSTRUCTION.
 - ALL PLANT MATERIALS INSTALLED SHALL MEET OR EXCEED THE SPECIFICATIONS OF THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION (ANLA) (FORMERLY THE AMERICAN ASSOCIATION OF NURSERMEN) IN THE AMERICAN STANDARD FOR NURSERY STOCK (AS AMENDED) (ANSI Z60.1-1995).
 - ALL PLANTS SHALL BE FIRST CLASS AND SHALL BE REPRESENTATIVE OF THEIR NORMAL SPECIES AND/OR VARIETIES. ALL PLANTS MUST HAVE GOOD, HEALTHY, WELL-FORMED UPPER GROWTH AND A LARGE, FIBROUS, COMPACT ROOT SYSTEM.
 - ALL PLANTS SHALL BE FREE FROM DISEASE AND INSECT PESTS AND SHALL COMPLY WITH ALL APPLICABLE STATE AND FEDERAL LAWS PERTAINING TO PLANT DISEASES AND INFESTATIONS.
 - ALL TREES SHALL BE BALLED AND BURLAPPED (B & B) UNLESS OTHERWISE NOTED OR APPROVED BY LANDSCAPE ARCHITECT.
 - IF APPLICABLE, THE CONTRACTOR SHALL HAVE ALL FALL TRANSPORTING HAZARD PLANTS DUG IN THE SPRING AND STORED FOR FALL PLANTING.
 - ALL INVASIVE PLANT SPECIES FROM THE "NEW HAMPSHIRE PROHIBITED INVASIVE PLANT SPECIES LIST" TO BE REMOVED SHALL BE DONE SO IN ACCORDANCE WITH THE "INVASIVE SPECIES ACT, HB 1058-PL".
 - LANDSCAPING SHALL NOT CONFLICT WITH SNOW STORAGE, LIGHT FIXTURES, OR SIGHT DISTANCE.
- GUARANTEE**
- THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL LANDSCAPE WORK FOR A PERIOD OF ONE



HORIZONTAL SCALE 1"=40'
 40 20 0 40

REV	DATE	DESCRIPTION	BY	CHK
5	12/18/2024	AOT & STAFF COMMENTS	JD	NG
4	10/24/2025	NIN&S APPROVAL	JD	NG
3	11/3/2025	TOWN SEWER COMMENTS	JD	NG
2	9/30/2025	REVISED FOR NIN&S & INHES COMMENTS	JD	NG
1	9/12/2025	UPDATE FOR SUBMITTAL	JD	NG
			DR	CK

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SITE DEVELOPMENT PLANS

TAX MAP 14 LOT 39-2
LANDSCAPE PLAN
SOUTHERN NEW HAMPSHIRE GREEN ENERGY CAMPUS
25 NORTH WENTWORTH AVE.
LONDONDERRY, NH 03053
 OWNED BY
PURPOSEENERGY-LONDONDERRY, LLC
 25 PELHAM ROAD SUITE 102, SALEM, NH 03079

SCALE: 1" = 40' **SEPTEMBER 8, 2025**

TFM Civil Engineers
 Structural Engineers
 Traffic Engineers
 Land Surveyors
 Landscape Architects
 Scientists

48 Constitution Drive
 Bedford, NH 03110
 Phone (603) 472-4488
 Fax (603) 472-9747
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18252-02	DR	FB	18252-02 SITE PLAN	C-17
	CK	CADFILE		

CONSTRUCTION SEQUENCE NOTES

1. TO MINIMIZE EROSION AND SEDIMENTATION DUE TO CONSTRUCTION, CONSTRUCTION SHALL FOLLOW THIS GENERAL CONSTRUCTION SEQUENCE.
2. MODIFICATIONS TO THE SEQUENCE NECESSARY DUE TO THE CONTRACTOR'S SCHEDULE SHALL INCLUDE APPROPRIATE TEMPORARY AND PERMANENT EROSION AND SEDIMENTATION CONTROL MEASURES.
3. THE CONTRACTOR SHALL SCHEDULE WORK SUCH THAT ANY CONSTRUCTION AREA IS STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE EXCEPT AS NOTED BELOW. NO MORE THAN 5 ACRES OF DISTURBED LAND SHALL BE UNSTABILIZED AT ANY ONE TIME.
4. THE PROJECT SHALL BE MANAGED SO THAT IT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER ARG 3900 RELATIVE TO INVASIVE SPECIES.
5. DO NOT TRAFFIC EXPOSED SOIL SURFACE OF INFILTRATION SYSTEMS WITH CONSTRUCTION EQUIPMENT. IF FEASIBLE, PERFORM EXCAVATIONS WITH EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE INFILTRATION COMPONENTS OF THE SYSTEM.
6. DO NOT DISCHARGE SEDIMENT-LADEN WATERS FROM CONSTRUCTION ACTIVITIES (RUNOFF, WATER FROM EXCAVATIONS) TO STORMWATER BMP'S. STORMWATER RUNOFF MUST BE DIRECTED TO TEMPORARY PRACTICES UNTIL STORMWATER BMP'S ARE STABILIZED.
7. DO NOT PLACE STORMWATER BMP'S INTO SERVICE UNTIL THE CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED.

8. AFTER THE INFILTRATION SYSTEM IS EXCAVATED TO THE FINAL DESIGN ELEVATION, THE FLOOR SHOULD BE DEEPLY TILLED WITH A ROTARY TILLER OR DISC HARROW TO RESTORE THE INFILTRATION RATES, FOLLOWED BY A PASS WITH A LEVELING DRAG.
9. NOTIFY EASEMENT OWNERS PRIOR TO COMMENCEMENT OF WORK.
10. INSTALL ALL PERIMETER EROSION PROTECTION MEASURES AS INDICATED ON THE PLANS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
11. STORMWATER TREATMENT POND'S AND SWALES SHALL BE INSTALLED BEFORE ROUGH GRADING OF THE SITE.
12. DURING CONSTRUCTION EVERY EFFORT SHALL BE MADE TO MAINTAIN SURFACE RUNOFF QUALITY.
13. DAILY OR AS REQUIRED, CONSTRUCT TEMPORARY BERMS, DRAINS, DITCHES, SILT BARRIERS, SEDIMENT TRAPS, ETC. MULCH AND SEED AS REQUIRED. (TEMPORARY SEED MIXTURE OF WATER PINE APPLIED AT A RATE OF 2.5 LBS/1000 SF SHALL BE USED).
14. CONDUCT MAJOR EARTHWORK, INCLUDING CLEARING AND GRUBBING, WITHIN THE LIMITS OF WORK. ALL CUT AND FILL SLOPES SHALL BE SEED WITHIN 72 HOURS AFTER GRADING.
15. ALL STRIPPED TOPSOIL AND OTHER EARTH MATERIALS SHALL BE STOCKPILED OUTSIDE THE IMMEDIATE WORK AND WETLAND AREAS. A SILT BARRIER SHALL BE CONSTRUCTED AROUND THESE PILES IN A MANNER TO PROVIDE ACCESS AND AVOID SEDIMENT OUTSIDE OF THE WORK AREA.
16. CONSTRUCT BUILDING PAD AND COMMENCE NEW BUILDING CONSTRUCTION.
17. CONSTRUCT TEMPORARY CULVERTS AND DIVERSIONS AS REQUIRED.
18. BEGN PERMANENT AND TEMPORARY INSTALLATION OF SEED AND MULCH.
19. PERFORM EARTHWORK NECESSARY TO ESTABLISH ROUGH GRADING AROUND PARKING FIELDS AND ACCESS DRIVES. MANAGE EXPOSED SOIL SURFACES TO AVOID TRANSPORTING SEDIMENTS INTO WETLANDS. PARKING LOTS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
20. INSTALL SUBSURFACE UTILITIES (WATER, SEWER, GAS, ELECTRIC, COMMUNICATIONS, DRAINAGE, DRAINAGE FACILITIES, ETC.).
21. CONSTRUCT PROPOSED ROADWAY, RAIN GARDENS, GRAVEL WETLANDS AND DRAINAGE SWALES. ALL DITCHES, SWALES, AND GRAVEL WETLANDS SHALL BE FULLY STABILIZED PRIOR TO DIRECTING FLOW TO THEM.
22. COMPLETE BUILDING AND ALL OFF-SITE IMPROVEMENTS.
23. COMPLETE SEEDING AND MULCHING. SEED TO BE APPLIED WITH BROADCAST SPREADER OR BY HYDRO-SEEDING, THEN ROLLED, RAKED, OR DRAGGED TO ASSURE SEED/SOIL CONTACT.
24. REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER SEEDING AREAS HAVE BECOME FIRMLY ESTABLISHED AND SITE IMPROVEMENTS ARE COMPLETE.
25. DURING THE COURSE OF THE WORK AND UPON COMPLETION, THE CONTRACTOR SHALL REMOVE ALL SEDIMENT DEPOSITS, EITHER ON OR OFF SITE, INCLUDING CATCH BASINS, AND TANKS, DRAIN PIPES AND DITCHES, CURB LINES, ALONG SILT BARRIERS, ETC. RESULTING FROM SOIL AND/OR CONSTRUCTION OPERATIONS.
26. SEE WATER CONSTRUCTION SEQUENCE FOR WORK CONDUCTED AFTER OCTOBER 15TH.
27. EACH PHASE MUST BE STABILIZED TO 85% PRIOR TO THE DISTURBANCE OF THE SUBSEQUENT PHASE.
28. STRUCTURES (SOIL, CURB, DITCH, SWALE, DRAIN, DRAIN AREA, AND DRAIN) SHALL BE CONSTRUCTED AS PART OF PHASE 5.
29. AN ENVIRONMENTAL MONITOR SHALL BE REQUIRED ON SITE. THE ENVIRONMENTAL MONITOR SHALL:
 - (1) INSPECT THE PROJECT SITE AT LEAST ONCE EACH WEEK FROM THE START OF TERRAIN ALLOCATION ACTIVITIES UNTIL ALL TERRAIN ALLOCATION ACTIVITIES ARE COMPLETED AND THE SITE IS STABILIZED.
 - (2) IN ADDITION TO REGULAR WEEKLY INSPECTIONS, INSPECT THE PROJECT SITE DURING ANY RAIN EVENT IN WHICH 0.5 INCH OF RAIN PRECIPITATION OR MORE FALLS WITHIN A 24 HOUR PERIOD, PROVIDED THAT IF THE ENVIRONMENTAL MONITOR IS UNABLE TO BE PRESENT DURING SUCH A STORM, THE MONITOR SHALL INSPECT THE SITE WITHIN 24 HOURS OF THE RAIN EVENT.
 - (3) SUBMIT A WRITTEN REPORT, STAMPED BY A QUALIFIED ENGINEER OR A PE/SC SPECIALIST, TO THE DEPARTMENT WITHIN 24 HOURS OF EACH INSPECTION THAT:
 - A. DESCRIBES THE PROGRESS OF THE PROJECT, INCLUDING WHETHER ALL CONDITIONS OF THE PERMIT ARE BEING MET AND, IF NOT, WHICH REQUIREMENTS ARE NOT BEING MET;
 - B. IF ANY REQUIREMENTS ARE NOT BEING MET, AN EXPLANATION OF THE CORRECTIVE ACTION(S) THAT WILL BE OR ARE BEING TAKEN TO BRING THE PROJECT INTO COMPLIANCE WITH APPLICABLE REQUIREMENTS AND THE DEADLINE BY WHICH SUCH ACTIONS WILL BE COMPLETED; AND
 - C. INCLUDES PHOTOGRAPHS OF THE SITE THAT ARE REPRESENTATIVE OF THE PROJECT.
 - (4) RETAIN A COPY OF THE PROJECT REPORT PREPARED PURSUANT TO (3), ABOVE, ON-SITE FOR REVIEW DURING SITE INSPECTIONS BY FEDERAL, STATE, AND LOCAL OFFICIALS.

14-47
 UNITED STATES OF AMERICA - FEDERAL AERONAUTICS ADMINISTRATION
 14 CFR REGULATIONS PART 47
 SR 2361 P/L 202 - 2046 P/L
 LAND USE: 107-0000-0-00000
 (20A NORTH WENTWORTH AVENUE)

PHASE 2 & 3
 OVERLAP AREA
 APPROXIMATELY
 0.87 AC

PHASE 2
 APPROXIMATELY
 9.79 AC

PHASE 1
 APPROXIMATELY
 1.7 AC


PHASE 3
 APPROXIMATELY
 1.3 AC

SITE DEVELOPMENT PLANS

TAX MAP 14 LOT 39-2
AOT PHASING PLAN
 SOUTHERN NEW HAMPSHIRE GREEN ENERGY CAMPUS
 25 NORTH WENTWORTH AVE.
 LONDONDERRY, NH 03053

PREPARED FOR
PURPOSEENERGY-LONDONDERRY, LLC
 25 PELHAM ROAD SUITE 102, SALEM, NH 03079

SCALE: 1" = 60' SEPTEMBER 8, 2025



TFM

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 Structural Engineers
 Traffic Engineers
 Land Surveyors
 Landscape Architects
 Scientists

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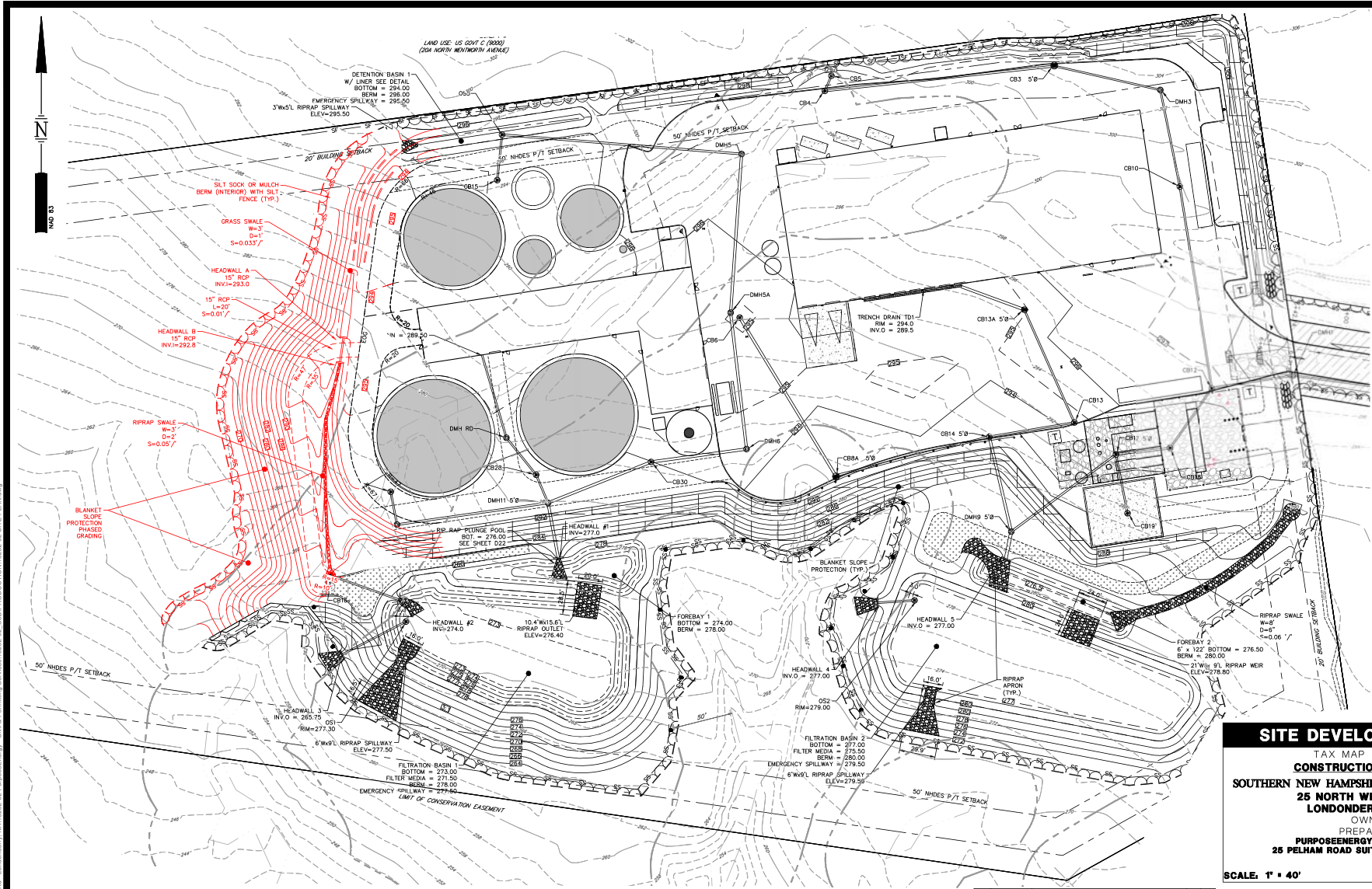
18252-02	DR	FB	CADFILE	18252-02 SITE PLAN	PH-1
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REV	DATE	DESCRIPTION	DR	CHK
5	12/18/2024	AOT & STAFF COMMENTS	JD	NG
4	10/24/2025	NEPMS APPROVAL	JD	NG
3	11/3/2025	TOWN SEWER COMMENTS	JD	NG
2	9/30/2025	REVISED FOR NHPRG & INPDES COMMENTS	JD	NG
1	9/12/2025	UPDATE FOR SUBMITTAL	JD	NG



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Date: 09/23/2025 - 2:20pm
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SITE DEVELOPMENT PLANS
 TAX MAP 14 LOT 39-2
CONSTRUCTION PHASING PLAN
SOUTHERN NEW HAMPSHIRE GREEN ENERGY CAMPUS
25 NORTH WENTWORTH AVE.
LONDONDERRY, NH 03053
 OWNED BY
PURPOSEENERGY-LONDONDERRY, LLC
25 PELHAM ROAD SUITE 102, SALEM, NH 03079
 SCALE: 1" = 40' SEPTEMBER 8, 2025

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HORIZONTAL SCALE 1" = 40'
 40 20 0 40

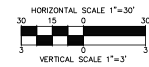
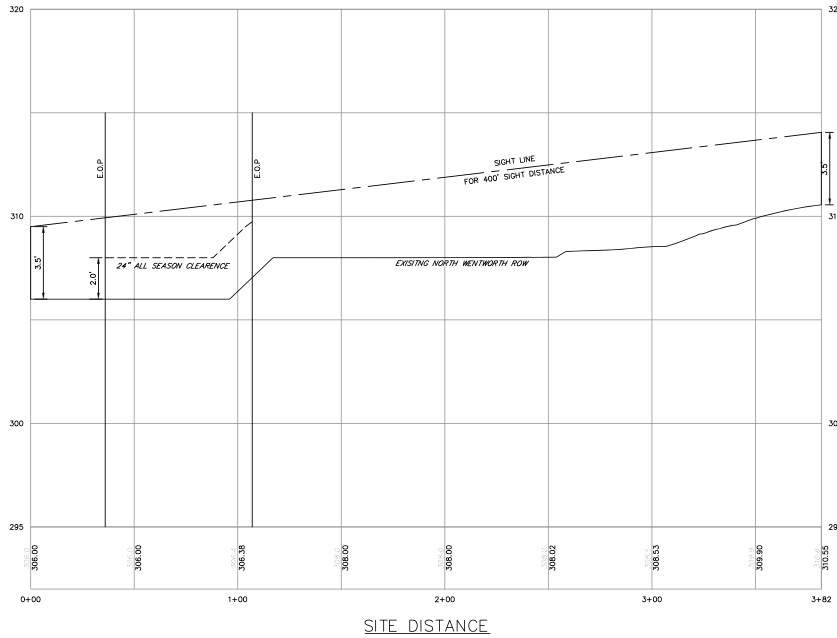
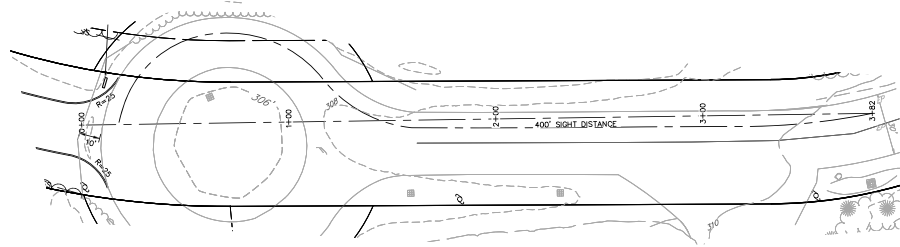
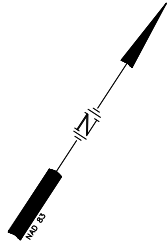
NO.	DATE	DESCRIPTION	BY	CHK
5	12/18/2025	ADT & STAFF COMMENTS	JD	NG
4	10/24/2025	NHF&G APPROVAL	JD	NG
3	11/3/2025	TOWN SEWER COMMENTS	JD	NG
2	5/30/2025	REVISED FOR NH&G & INHES COMMENTS	JD	NG
1	9/12/2025	UPDATE FOR SUBMITTAL	JD	NG
REV	04/E		DP	CK

TFM	Civil Engineers Structural Engineers Traffic Engineers Land Surveyors Landscape Architects Scientists		48 Constitution Drive Bedford, NH 03110 Phone (603) 472-4488 Fax (603) 472-9747 www.tfmoran.com	
	18252-02	DR CK	FB CADFILE	18252-02 SITE PLAN
				PH-2

Date: 25, 2025 - 2:29pm
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NOTES

1. POSTED SPEED LIMIT ON NORTH WENTWORTH AVE. IS 30 MPH.
2. TOWN OF LONDONDERRY SIGHT DISTANCE CALCULATIONS:
SUBDIVISION REGULATIONS SECTION 3.09 F.2 & EXHIBIT D3
MINIMUM ALL SEASON SIGHT DISTANCE = 365- FEET (NON-RESIDENTIAL) WHICH IS EXCEEDED.



SITE DEVELOPMENT PLANS
 TAX MAP 14 LOT 39-2
SIGHT DISTANCE
 SOUTHERN NEW HAMPSHIRE GREEN ENERGY CAMPUS
 25 NORTH WENTWORTH AVE.
 LONDONDERRY, NH 03053
 OWNED BY
 PREPARED FOR
 PURPOSEENERGY-LONDONDERRY, LLC
 25 PELHAM ROAD SUITE 102, SALEM, NH 03079
SCALE: 1" = 30' H / 1" = 3' V **SEPTEMBER 8, 2025**

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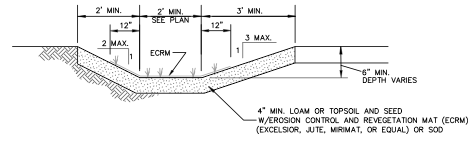
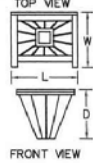


REV	DATE	DESCRIPTION	JD	NG
5	12/18/2025	AOT & STAFF COMMENTS	JD	NG
4	10/24/2025	NHF&G APPROVAL	JD	NG
3	11/3/2025	TOWN SEWER COMMENTS	JD	NG
2	9/30/2025	REVISED FOR NHF&G & WISES COMMENTS	JD	NG
1	9/12/2025	UPDATE FOR SUBMITTAL	JD	NG
			DZ	CK

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	18252-02	DR CK	FB CADFILE
			SD-1

Date: 09/23/2025, 2:29pm
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SQUARE OR RECTANGULAR



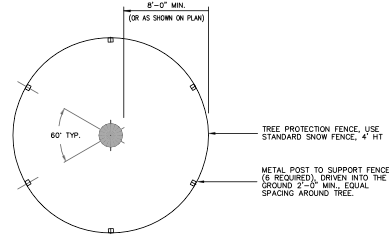
GRASS LINED SWALE
FOR USE WHERE VELOCITIES ARE 3 FPS OR LESS NOT TO SCALE

FILTER BASKET NOTES:

1. INLET BASKETS SHALL BE USED ON ALL CATCH BASINS WITHIN THE PROJECT LIMITS WITHIN PAVED AREAS. INLET FILTER BASKETS SHALL BE "SILT SACK®" OR APPROVED EQUAL.
2. FILTER FABRIC SHALL BE PUSHED DOWN AND FORMED TO THE SHAPE OF THE BASKET. THE SHEET OF FABRIC SHALL BE LARGE ENOUGH TO BE SUPPORTED BY THE BASKET FRAME WHEN HOLDING SEDIMENT AND EXTEND AT LEAST 6 INCHES PAST THE FRAME. THE INLET GRATE SHALL BE PLACED OVER THE BASKET/FRAME AND WILL SERVE AS THE FABRIC ANCHOR.
3. THE FILTER FABRIC SHALL BE A GEO-TEXTILE FABRIC: POLYESTER, POLYPROPYLENE, STABILIZED NYLON, POLYETHYLENE OR POLYVINYLIDENE CHLORIDE MEETING THE FOLLOWING SPECIFICATIONS:
GRAB STRENGTH: 300 lb. MINIMUM IN ANY PRINCIPAL DIRECTION (ASTM D-4632).
MULLEN BURST STRENGTH: MINIMUM 800 psi (ASTM D-3786).
4. THE FABRIC SHALL HAVE AN OPENING NO GREATER THAN A NUMBER 40 U.S. STANDARD SIEVE AND MINIMUM PERMEABILITY OF 40 gpm/sq. ft.
5. THE INLET BASKET SHALL BE INSPECTED WITHIN 24 HOURS AFTER EACH RAINFALL OR DAILY DURING EXTENDED PERIODS OF PRECIPITATION. REPAIRS SHALL BE MADE IMMEDIATELY, AS NECESSARY, TO PREVENT PARTICLES FROM ENTERING THE DRAINAGE PIPING SYSTEM AND/OR CAUSING SURFACE FLOODING.
6. INLET BASKETS SHALL BE MAINTAINED IN PLACE UNTIL ALL PAVING IS COMPLETED AND ALL UNPAVED AREAS HAVE BEEN STABILIZED WITH VEGETATION.

INLET FILTER BASKET

NOT TO SCALE

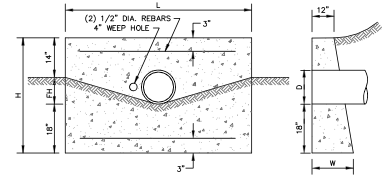


NOTES:
EXCAVATING WITHIN 10 FEET OF EXISTING TREES SHALL BE PERFORMED BY HAND DIGGING, HYDRAULIC, OR PNEUMATIC TOOLS METHODS. THE USE OF HEAVY EQUIPMENT SHALL BE AVOIDED. NO ROOTS GREATER THAN 2 INCHES IN DIAMETER SHALL BE CUT WITHOUT APPROVAL OF AN ARBORIST. WHEN ROOTS MUST BE CUT, THEY SHALL BE CUT CLEANLY WITH A SHARP SAW TO SOUND WOOD AND FLUSH WITH THE TRENCH SITE. AVOID EXPOSING ROOTS DURING HOT, DRY WEATHER. BACKFILL TRENCHES AS SOON AS POSSIBLE WITH SOIL AND SOAK WITH WATER THE SAME DAY. IF THE TRENCH MUST BE LEFT OPEN FOR AN EXTENDED AMOUNT OF TIME, ALL ROOTS MUST BE KEPT MOIST BY WRAPPING THEM IN PEAT MOSS AND BURLAP.

TREE PROTECTION

NOT TO SCALE

NOMINAL PIPE SIZE D	LENGTH OF BARS L	H	FH	W
12	3'-2"	3'-6"	0'-10"	1'-10.5"
15	4'-2"	4'-6"	1'-1"	1'-11.75"
18	5'-2"	5'-6"	1'-4"	2'-0"
24	7'-2"	7'-6"	1'-10"	2'-5.5"
30	9'-2"	9'-6"	2'-4"	2'-9"
36	11'-2"	11'-6"	2'-10"	2'-6.5"
42	13'-2"	13'-6"	3'-4"	2'-8"
48	15'-2"	15'-6"	3'-10"	2'-7.5"



CONCRETE HEADWALL

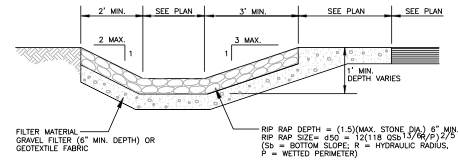
SINGLE PIPE SYSTEM NOT TO SCALE

RIP-RAP GRADATION

STONE SIZE	% FINER BY WEIGHT			
	D50 = 6"	D50 = 9"	D50 = 12"	D50 = 18"
2"	0-15%	0%	0-10%	-
4"	20-35%	10-20%	0-10%	-
6"	35-50%	25-35%	10-25%	0-10%
8"	50-65%	30-50%	20-30%	10-20%
10"	60-80%	40-60%	30-40%	15-30%
12"	75-100%	-	-	5-15%
15"	-	70-100%	45-60%	25-40%
20"	-	-	70-100%	40-60%
30"	-	-	-	70-100%
40"	-	-	-	70-100%

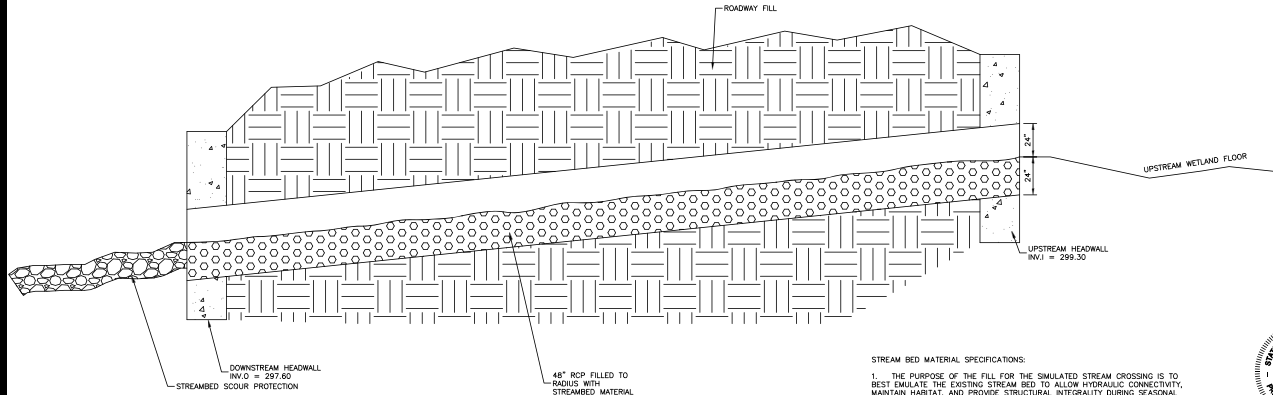
GRAVEL FILTER GRADATION

SIEVE SIZE	% PASSING BY WEIGHT
3/8"	100
1/2"	85-100
3/4"	60-90
1"	40-70
1 1/4"	20-50
1 1/2"	10-40
NO. 200	0-8



RIP RAP SWALE

FOR USE WHERE VELOCITIES EXCEED 3 FPS NOT TO SCALE



STREAM BED MATERIAL SPECIFICATIONS:

1. THE PURPOSE OF THE FILL FOR THE SIMULATED STREAM CROSSING IS TO BEST EMULATE THE EXISTING STREAM BED TO ALLOW HYDRAULIC CONNECTIVITY, MAINTAIN HABITAT, AND PROVIDE STRUCTURAL INTEGRITY DURING SEASONAL RUNOFF EVENTS.
2. THE STREAMBED MATERIAL SHALL CONSIST OF WELL GRADED, ROUNDED, FLAT BOTTOM, NATURAL, RIVER BED MATERIAL, NO ANGULAR ROCK TO BE USED.
3. COBBLES, STONES, AND GRAVELS:

STONE SIZE	PERCENT PASSING BY WEIGHT
6"	50%
4"	40%
2"	10%



SITE DEVELOPMENT PLANS

TAX MAP 14 LOT 39-2
DETAILS
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SCALE: NOT TO SCALE SEPTEMBER 8, 2025



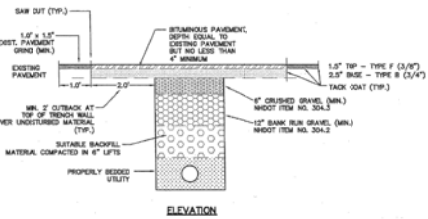
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CROSS CULVERT SECTION

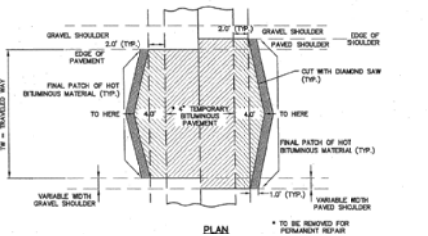
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2	9/30/2025	REVISED FOR INFR&G & INHES COMMENTS	JD	NG
1	9/12/2025	UPDATE FOR SUBMITTAL	JD	NG
REV	DATE	DESCRIPTION	DR	CK

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	CK	CADP/LE	18252-02 COVER & DETAILS	



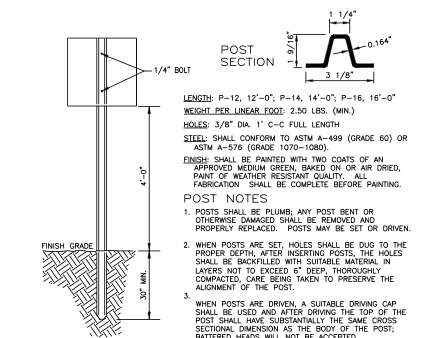
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NOT TO SCALE



PAVEMENT TRENCH PATCH

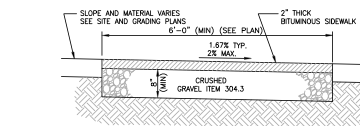
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PROTECTED CONSERVATION AREA
DO NOT DISTURB SOILS OR VEGETATION
VIOLATORS WILL BE PROSECUTED
For Information or To Report A Violation Call The Code Enforcement Officer At 432-1100 Ext. 125

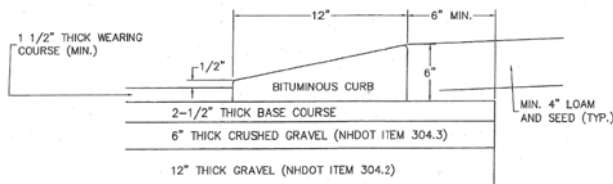
CONSERVATION OVERLAY DISTRICT SIGN

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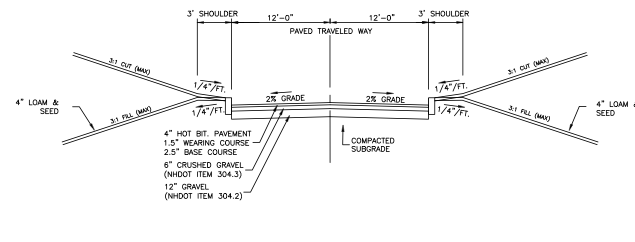
BITUMINOUS SIDEWALK

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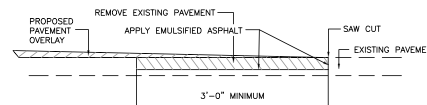
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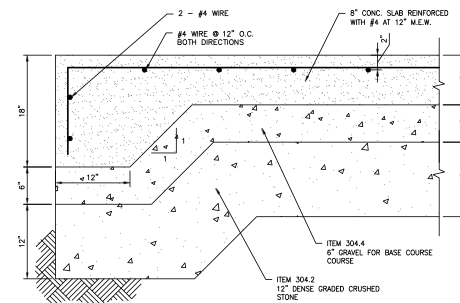
DRIVEWAY SECTION

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PAVEMENT SAWCUT

NOT TO SCALE



CONCRETE PAD DETAIL

NOT TO SCALE

SITE DEVELOPMENT PLANS

TAX MAP 14 LOT 39-2

DETAILS

SOUTHERN NEW HAMPSHIRE GREEN ENERGY CAMPUS
25 NORTH WENTWORTH AVE.
LONDONDERRY, NH 03053

OWNED BY

PREPARED FOR
PURPOSEENERGY-LONDONDERRY, LLC
25 PELHAM ROAD SUITE 102, SALEM, NH 03079

SCALE: NOT TO SCALE

SEPTEMBER 8, 2025



Civil Engineers
Structural Engineers
Traffic Engineers
Land Surveyors
Landscape Architects
Scientists

48 Constitution Drive
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www.tfm.com

18252-02 DR FB
CK CADFILE 18252-02 COVER & DETAILS D-03

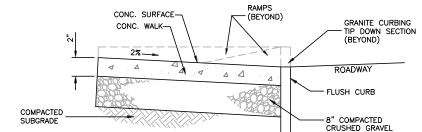
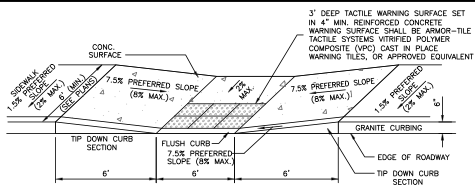
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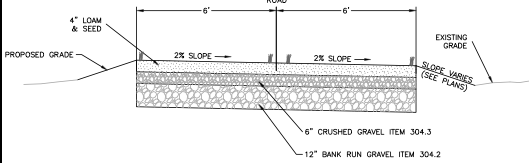
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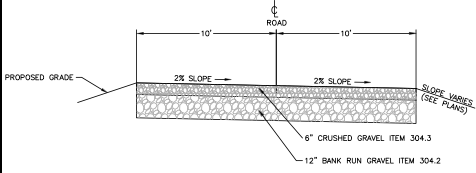
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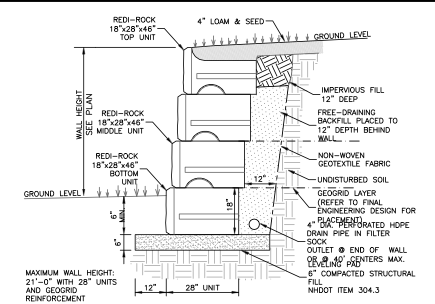
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WITH DETECTABLE WARNING SURFACE (VPC) NOT TO SCALE



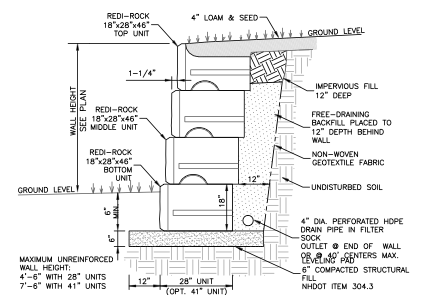
MAINTENANCE DRIVE
STORMWATER MANAGEMENT AREAS NOT TO SCALE



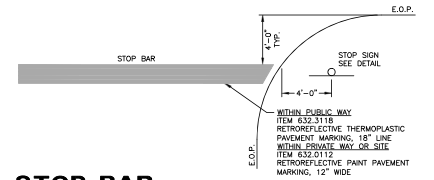
GRAVEL MAINTENANCE DRIVE
PROCESS BUILDING NOT TO SCALE



REDI-ROCK RETAINING WALL
REINFORCED WITH GEOGRID SCALE: 1/2"=1'-0"



REDI-ROCK RETAINING WALL
UNREINFORCED SCALE: 1/2"=1'-0"



STOP BAR NOT TO SCALE

SITE DEVELOPMENT PLANS
TAX MAP 14 LOT 39-2
DETAILS
SOUTHERN NEW HAMPSHIRE GREEN ENERGY CAMPUS
25 NORTH WENTWORTH AVE.
LONDONDERRY, NH 03053
OWNED BY
PREPARED FOR
PURPOSEENERGY-LONDONDERRY, LLC
25 PELHAM ROAD SUITE 102, SALEM, NH 03079
SCALE: NOT TO SCALE SEPTEMBER 8, 2025

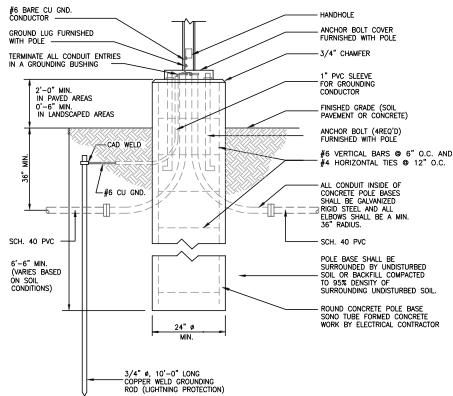
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5	12/19/2025	ADT & STAFF COMMENTS	JD	NG
4	10/24/2025	NHF&G APPROVAL	JD	NG
3	11/3/2025	TOWN SEWER COMMENTS	JD	NG
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		DESCRIPTION	BY	CHK

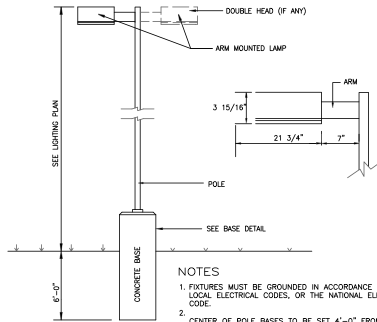
TFM	Civil Engineers Structural Engineers Traffic Engineers Land Surveyors Landscape Architects Scientists	48 Constitution Drive Bedford, NH 03110 Phone (603) 472-4488 Fax (603) 472-9747 www.tfmoran.com
	18252-02 DR CK	FB CADPLE

Date: 2/26/2025 2:22pm
F:\ITEM Projects\18252_Londonderry_NH\18252-02_PurposeEnergy_Cover & Details.dwg



LIGHT POLE BASE

NOT TO SCALE



LIGHT POLE

NOT TO SCALE

- NOTES**
1. FIXTURES MUST BE GROUNDED IN ACCORDANCE WITH LOCAL ELECTRICAL CODES, OR THE NATIONAL ELECTRICAL CODE.
 2. CENTER OF POLE BASES TO BE SET 4'-0" FROM EDGE OF PAVEMENT, EXCEPT WHERE OTHERWISE INDICATED ON 3. DRAWING.
 3. LIGHTING SHOWN HERE IS AREA LIGHTING, SUPPLEMENTAL BUILDING-MOUNTED FIXTURES AT DOORWAYS, ETC. MAY 4. BE REQUIRED.
- SEE LIGHTING PLAN FOR FIXTURE SCHEDULE.

Date: 2/23/2025 - 2:24pm
F:\TFM Projects\18252_Libelsiefel_Rd - Londonderry, NH\18252-02 PurposeEnergy - Civil & Permitting Services\18252-02_CADD\PRODUCTION\18252-02_Cover & Details.dwg

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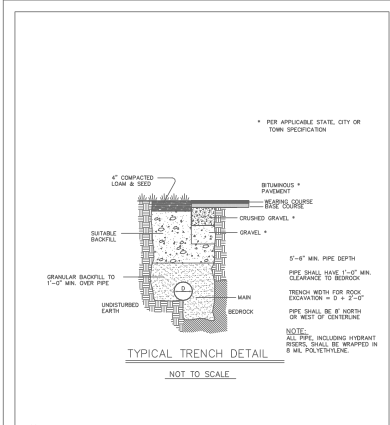


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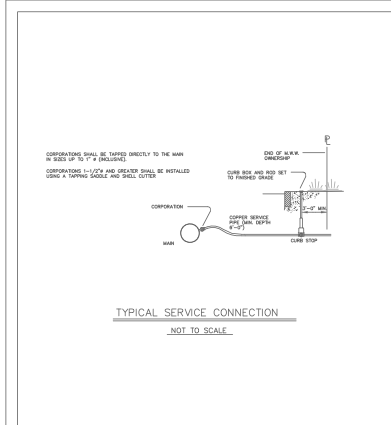
SITE DEVELOPMENT PLANS
TAX MAP 14 LOT 39-2
DETAILS
SOUTHERN NEW HAMPSHIRE GREEN ENERGY CAMPUS
25 NORTH WENTWORTH AVE.
LONDONDERRY, NH 03053
OWNED BY
PREPARED FOR
PURPOSEENERGY-LONDONDERRY, LLC
25 PELHAM ROAD SUITE 102, SALEM, NH 03079
SCALE: NOT TO SCALE **SEPTEMBER 8, 2025**

TFM	Civil Engineers	48 Constitution Drive
	Structural Engineers	Bedford, NH 03110
	Traffic Engineers	Phone (603) 472-4488
	Land Surveyors	Fax (603) 472-9747
	Landscape Architects	www.tfmoran.com
	Scientists	

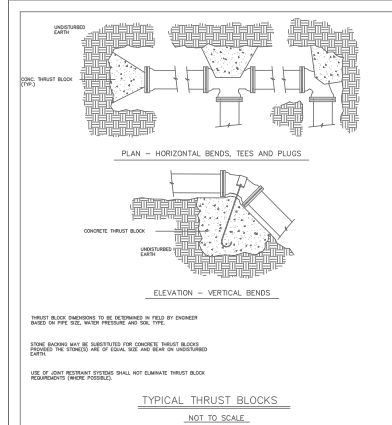
18252-02	DR	FB	-	D-06
	CK	CADFILE	18252-02 COVER & DETAILS	



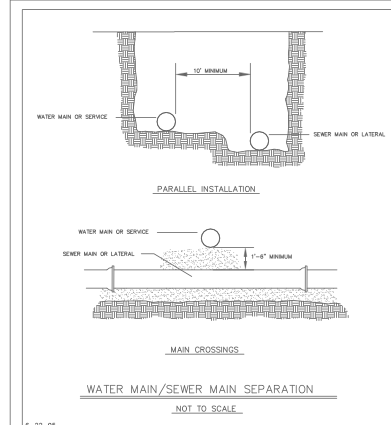
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	STANDARD DETAIL	
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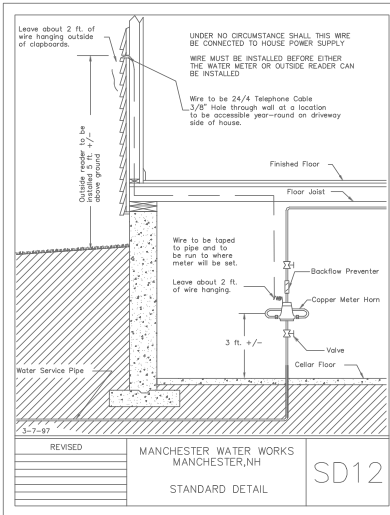
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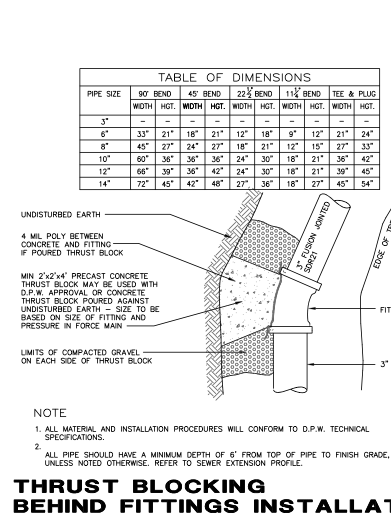
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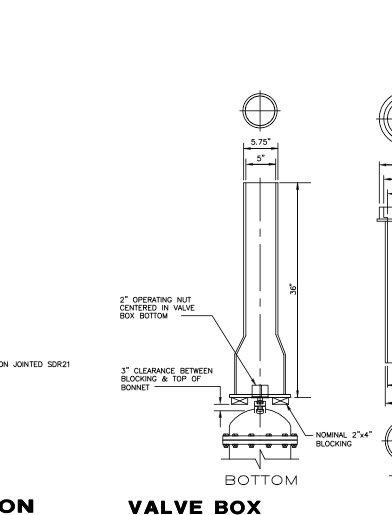
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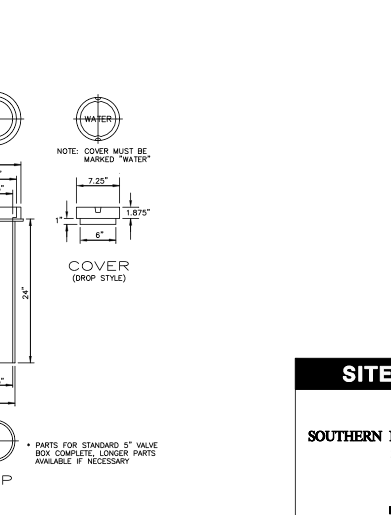
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	STANDARD DETAIL	



REVISIONS	MANCHESTER WATER WORKS MANCHESTER, NH	SD12
	STANDARD DETAIL	



REVISIONS	MANCHESTER WATER WORKS MANCHESTER, NH	SD4
	STANDARD DETAIL	



REVISIONS	MANCHESTER WATER WORKS MANCHESTER, NH	SD6
	STANDARD DETAIL	

SITE DEVELOPMENT PLANS
TAX MAP 14 LOT 39-2
DETAILS
SOUTHERN NEW HAMPSHIRE GREEN ENERGY CAMPUS
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LONDONDERRY, NH 03053
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25 PELHAM ROAD SUITE 102, SALEM, NH 03079

SCALE: NOT TO SCALE SEPTEMBER 8, 2025

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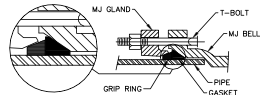
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2	9/30/2025	REVISED FOR THF&G & THISES COMMENTS	JD	NG
1	9/12/2025	UPDATE FOR SUBMITTAL	JD	NG
REV	DATE	DESCRIPTION	DR	CK

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Structural Engineers
Traffic Engineers
Land Surveyors
Landscape Architects
Scientists

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Phone (603) 472-4488
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18252-02 DR CK FB CADPLE 18252-02 COVER & DETAILS D-07

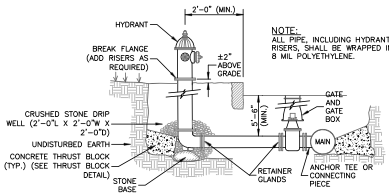
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NOTE:
 1. ALL WATER MAINS (DUCTILE IRON) AND SERVICES SHALL BE POLYETHYLENE WRAP. ALL GASKETS SHALL BE NITRILE.
 GRIP RING JOINT RESTRAINT OR EQUAL SHALL BE UTILIZED AT ALL BENDS AND AT ALL CHANGES IN DIRECTION OF WATER MAINS WHERE A RESTRAINED JOINT IS NEEDED.

GRIP RING JOINT RESTRAINT

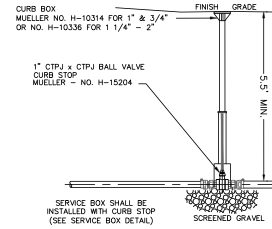
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NOTE:
 ALL PIPE, INCLUDING HYDRANT RISERS, SHALL BE WRAPPED IN 8 MIL POLYETHYLENE.

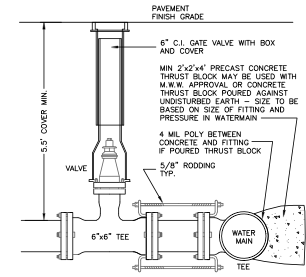
TYPICAL HYDRANT INSTALLATION

MANCHESTER WATER WORKS NOT TO SCALE



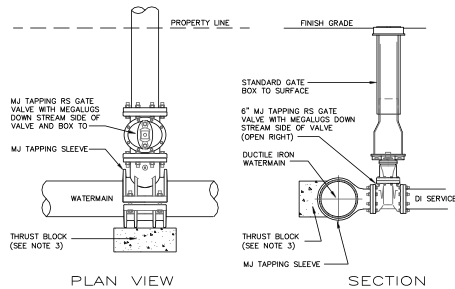
CURB STOP

NOT TO SCALE



BURIED GATE VALVE

NOT TO SCALE



NOTE

1. ALL MATERIAL AND INSTALLATION PROCEDURES WILL CONFORM TO M.W.W. TECHNICAL SPECIFICATIONS.
2. ALL PIPE SHOULD HAVE A MINIMUM DEPTHS OF 5'-6" FROM TOP OF PIPE TO FINISH GRADE.
3. MIN 2'x2'x4" PRECAST CONCRETE THRUST BLOCK MAY BE USED WITH M.W.W. APPROVAL OR CONCRETE THRUST BLOCK POURED AGAINST UNDISTURBED EARTH - SIZE TO BE BASED ON SIZE OF FITTING AND PRESSURE IN WATERMAIN.

WET TAP TEE INSTALLATION

NOT TO SCALE

SITE DEVELOPMENT PLANS

TAX MAP 14 LOT 39-2

DETAILS

**SOUTHERN NEW HAMPSHIRE GREEN ENERGY CAMPUS
 25 NORTH WENTWORTH AVE.
 LONDONDERRY, NH 03053**

OWNED BY

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 25 PELHAM ROAD SUITE 102, SALEM, NH 03079

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SEPTEMBER 8, 2025

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3	11/3/2023	TOWN SEWER COMMENTS	JD	NG
2	5/30/2023	REVISED FOR INF&G & WISES COMMENTS	JD	NG
1	9/12/2023	UPDATE FOR SUBMITTAL	JD	NG
			DP	CK

18252-02	DR	FB		D-08
	CK	CADFILE	18252-02 COVER & DETAILS	



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 Traffic Engineers
 Land Surveyors
 Landscape Architects
 Scientists
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 Fax (603) 472-9747
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SEWER SERVICE NOTES

- MINIMUM SIZE PIPE FOR SEWER SERVICE SHALL BE FOUR INCHES.
- PIPE AND JOINT MATERIALS:
 - PLASTIC SEWER PIPE
 - PIPE AND FITTINGS SHALL CONFORM TO THE FOLLOWING ASTM STANDARDS:

ASTM STANDARDS	GENERIC PIPE MATERIAL	SIZES APPROVED
D3034	*PVC (SOLID WALL)	8" THROUGH 15" (SDR 35)
F679	PVC (SOLID WALL)	18" THROUGH 27" (T-1 & T-2)
F789	PVC (RIBBED WALL)	4" THROUGH 18" (T-1 TO T-3)
F794	PVC (RIBBED WALL)	8" THROUGH 36"
D2685	*ABS (COMPOSITES WALL)	8" THROUGH 15"

*PVC: POLY VINYL CHLORIDE
*ABS: ACRYLONITRILE-BUTADIENE-STYRENE

- JOINTS SEALS FOR PVC PIPE SHALL BE OIL RESISTANT COMPRESSION RINGS OF ELASTOMERIC MATERIAL CONFORMING TO ASTM D-3212 AND SHALL BE PUSH-ON, BELL AND SPOUT TYPE.
- ABS TRUSS PIPE AND FITTINGS SHALL CONFORM TO ASTM D-2680, POLYMER COMPOUNDING SHALL BE TO ASTM D-1788 (CLASS 32).
- JOINTS FOR ABS TRUSS PIPE SHALL BE CHEMICAL WELDED COUPLINGS TYPE SC IN ACCORDANCE WITH ASTM D-2680, FORMING A CHEMICAL WELDED JOINT.

- DUCTILE-IRON PIPE, FITTINGS AND JOINTS.
 - DUCTILE IRON PIPE AND FITTINGS SHALL CONFORM TO THE FOLLOWING STANDARDS OF THE UNITED STATES OF AMERICA STANDARDS INSTITUTE:
 - A21.50 THICKNESS DESIGN OF DUCTILE IRON PIPE AND WITH ASTM A-536 DUCTILE IRON CASTINGS.
 - A21.51 DUCTILE IRON PIPE, CENTRICALLY CAST IN METAL MOLDS OR SAND-LINED MOLDS FOR WATER OR OTHER LIQUIDS.
 - JOINTS SHALL BE OF THE MECHANICAL OR PUSH-ON TYPE. JOINTS AND GASKETS SHALL CONFORM TO:
 - A21.11 RUBBER GASKETS JOINTS FOR CAST IRON PRESSURE PIPE & FITTINGS

- DAMAGED PIPE SHALL BE REJECTED AND REMOVED FROM THE JOB SITE.
- JOINTS SHALL BE DEPENDENT UPON A NEOPRENE OR ELASTOMERIC GASKET FOR WATER-TIGHTNESS. ALL JOINTS SHALL BE PROPERLY MATCHED WITH THE PIPE MATERIALS USED, WHERE DIFFERENT MATERIALS ARE TO BE CONNECTED, AS AT THE STREET SEWER WYE OR AT THE FOUNDATION WALL, APPROPRIATE MANUFACTURED ADAPTERS SHALL BE USED.
- TEES AND WYES: WHERE A TEE OR WYE IS NOT AVAILABLE IN THE EXISTING STREET SEWER, AN APPROPRIATE CONNECTION SHALL BE MADE, FOLLOWING MANUFACTURERS' INSTRUCTIONS USING A BOLTED, CLAMPED OR EPOXY-CEMENTED SADDLE TAPPED INTO A SMOOTHLY DRILLED OR SAWN OPENING IN THE EXISTING PIPE. JOINTS SHALL BE MADE IN A SLOTTED MANNER, STOPPING CLOTH OR OTHER SUCH MATERIAL AROUND THE JOINT, OR APPLYING MORTAR TO HOLD THE CONNECTION, AND ANY OTHER SIMILAR CRUDE PRACTICES OR REPT OR HASTY IMPROVISATIONS WILL NOT BE PERMITTED. THE CONNECTION SHALL BE CONCRETE ENCASED AS SHOWN IN THE DETAIL UP TO AND INCLUDING 15" DIAMETER.

- SEWER SERVICE INSTALLATION: THE PIPE SHALL BE HANDLED, PLACED AND JOINTED IN ACCORDANCE WITH INSTALLATION GUIDES OF THE APPROPRIATE MANUFACTURER. IT SHALL BE CAREFULLY BEDDED ON A 6 INCH LAYER OF CRUSHED STONE AND/OR GRAVEL AS SPECIFIED IN NOTE 10, BEDDING AND RE-FILL FOR DEPTH OF 12 INCHES ABOVE THE TOP OF THE PIPE SHALL BE CAREFULLY AND THOROUGHLY TAMPED BY HAND OR WITH APPROPRIATE MECHANICAL DEVICES. THE PIPE SHALL BE LAID AT A CONTINUOUS AND CONSTANT GRADE FROM THE STREET SEWER CONNECTION TO THE FOUNDATION AT A GRADE OF NOT LESS THAN 1/4" INCH PER FOOT. PIPE JOINTS MUST BE MADE UNDER DRY CONDITIONS. IF WATER IS PRESENT, ALL NECESSARY STEPS SHALL BE TAKEN TO DRY THE TRENCH.

- TESTING: THE COMPLETED SEWER SERVICE SHALL BE SUBJECTED TO A THIRD PARTY LEAKAGE TEST IN ANY OF THE FOLLOWING MANNERS: (PRIOR TO BACKFILLING)
 - ALL NEW GRABBY SEWERS SHALL BE TESTED FOR WATER TIGHTNESS BY THE USE OF LOW-PRESSURE AIR TESTS.
 - LOW PRESSURE AIR TESTING SHALL BE IN CONFORMANCE WITH:

ASTM F1417-92(2005) "STANDARD TEST METHOD FOR INSTALLATION ACCEPTANCE OF PLASTIC GRAVITY SEWER LINES USING LOW PRESSURE AIR"

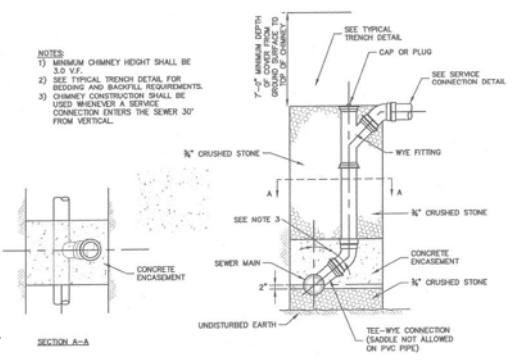
 UNI-BELL PVC PIPE ASSOCIATION UNI-B-6, "LOW PRESSURE AIR TESTING OF INSTALLED SEWER PIPE"
 - LEAKAGE OBSERVED IN ANY ONE OF THE ABOVE ALTERNATE TESTS SHALL BE CAUSE FOR NON-ACCEPTANCE AND THE PIPE SHALL BE DUG-UP IF NECESSARY AND RE-LAID 50 AS TO ASSURE WATER TIGHTNESS.

- ILLEGAL CONNECTIONS: NOTHING BUT SANITARY WASTE FLOW FROM TOILETS, SINKS, LAUNDRY ETC. SHALL BE PERMITTED. ROOF LEADERS, FOOTING DRAINS, SWAMP PUMPS OR OTHER SIMILAR CONNECTIONS CARRYING RAIN WATER, DRAINAGE OR GROUND WATER SHALL NOT BE PERMITTED.
- WATER SERVICE SHALL NOT BE LAID IN SAME TRENCH AS SEWER SERVICE.
- BEDDING: CRUSHED STONE FREE FROM CLAY, LOAM, ORGANIC MATERIAL AND MEETING ASTM C33-87.

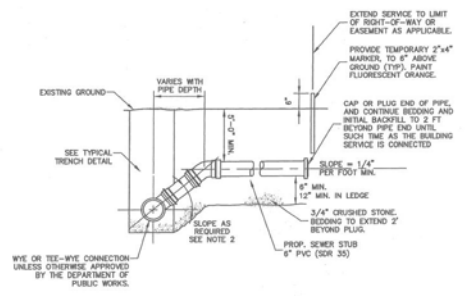
100% PASSING	1 INCH SCREEN
90%-100% PASSING	3/4 INCH SCREEN
20%-55% PASSING	3/8 INCH SCREEN
0%-10% PASSING	#4 SIEVE
0%-5% PASSING	#6 SIEVE

- WHERE ORDERED BY THE ENGINEER TO STABILIZE THE TRENCH BASE, CRUSHED STONE 1/2 INCH TO 1 1/2 INCH SHALL BE USED.
- LOCATION: THE LOCATION OF THE TEE OR WYE SHALL BE RECORDED AND PLOTTED IN THE MUNICIPAL RECORDS. IN ADDITION, A FERROUS METAL ROD OR PIPE SHALL BE PLACED OVER THE TEE OR WYE AS DESCRIBED IN THE TYPICAL "CHIMNEY" DETAIL, TO AID IN LOCATING THE BURIED PIPE WITH A DIP NEEDLE OR PIPEFINDER.
- CHIMNEYS: IF VERTICAL DROP INTO SEWER IS GREATER THAN 4 FEET, A CHIMNEY SHALL BE CONSTRUCTED FOR THE SEWER CONNECTION. CHIMNEY INSTALLATION AS RECOMMENDED BY THE PIPE MANUFACTURER MAY BE USED IF APPROVED BY THE ENGINEER.

SEWER SERVICE DETAILS



CHIMNEY (SEE NOTE 12)



- ALL SERVICE CONNECTIONS TO BE 6" MINIMUM UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
- USE CHIMNEY DETAIL WHERE SERVICE CONNECTION ENTERS SEWER AT GREATER THAN 60" TO THE HORIZONTAL.

SEWER SERVICE

NOT TO SCALE

GRAVITY SEWER NOTES

- MINIMUM SIZE PIPE FOR GRAVITY SEWER SHALL BE 8-INCHES.
- PIPE AND JOINT MATERIALS FOR PLASTIC SEWER PIPE SHALL CONFORM TO THE FOLLOWING ASTM STANDARDS:

ASTM STANDARDS	GENERIC PIPE MATERIAL	SIZES APPROVED
D3034-04a	* PVC (SOLID WALL)	8" THROUGH 15" (SDR 35)
F679-03	PVC (SOLID WALL)	18" THROUGH 27" (T-1 & T-2)
F794-03	PVC (RIBBED WALL)	8" THROUGH 36"
F1760-01(2005)1	PVC, RECYCLED	ALL DIAMETERS

*PVC: POLY VINYL CHLORIDE

- PLASTIC SEWER PIPE SHALL HAVE A PIPE STIFFNESS RATING OF AT LEAST 46 POUNDS PER SQUARE INCH AT 5 PERCENT PIPE DIAMETER DEFLECTION, AS MEASURED IN ACCORDANCE WITH ASTM D9412-02 DURING MANUFACTURE.
- JOINTS SEALS FOR PVC PIPE SHALL BE OIL RESISTANT COMPRESSION RINGS OF ELASTOMERIC MATERIAL CONFORMING TO ASTM D-3212-92(2003)1 AND SHALL BE PUSH-ON, BELL AND SPOUT TYPE.
- DUCTILE-IRON PIPE, FITTINGS AND JOINTS SHALL CONFORM TO THE FOLLOWING STANDARDS OF THE AMERICAN WATER WORKS ASSOCIATION (AWWA).
 - AWWA C150/A21.50 FOR THICKNESS DESIGN OF DUCTILE IRON PIPE AND WITH ASTM A536 FOR DUCTILE IRON CASTINGS.
 - AWWA C151/A21.51 FOR DUCTILE IRON PIPE, CENTRICALLY CAST IN METAL- OR SAND-LINED MOLDS FOR WATER, WASTEWATER, AND RECLAIMED WATER SYSTEMS.

- JOINTS SHALL BE OF THE MECHANICAL TYPE, PUSH-ON TYPE, OR BALL- AND SOCKET TYPE AS APPROPRIATE FOR THE SPECIFIC APPLICATION. JOINTS AND GASKETS SHALL CONFORM TO AWWA C151/A21.11 RUBBER GASKETS JOINTS FOR CAST IRON PRESSURE PIPE & FITTINGS.
- CONCRETE PIPE SHALL CONFORM TO AWWA C302-04.
- PRESTRESSED CONCRETE CYLINDER PIPE AND FITTINGS SHALL CONFORM TO AWWA C301-99.
- JOINTS SEALS FOR CONCRETE CYLINDER PIPE SHALL BE OIL RESISTANT ELASTOMERIC MATERIAL CONFORMING TO AWWA C301-99 SPECIFICATIONS.
- DAMAGED PIPE SHALL BE REJECTED AND REMOVED FROM THE JOB SITE.

- GRAVITY SEWER PIPE TESTING SHALL BE AS FOLLOWS:
 - ALL NEW GRAVITY SEWERS SHALL BE TESTED FOR WATER TIGHTNESS BY THE USE OF LOW-PRESSURE AIR TESTS.
 - LOW PRESSURE AIR TESTING SHALL BE IN CONFORMANCE WITH:

ASTM F1417-92(2005) "STANDARD TEST METHOD FOR INSTALLATION ACCEPTANCE OF PLASTIC GRAVITY SEWER LINES USING LOW PRESSURE AIR"

 UNI-BELL PVC PIPE ASSOCIATION UNI-B-6, "LOW PRESSURE AIR TESTING OF INSTALLED SEWER PIPE"

- ALL NEW GRAVITY SEWERS SHALL BE CLEANED AND VISUALLY INSPECTED AND SHALL BE TRUE TO LINE AND GRADE FOLLOWING INSTALLATION AND PRIOR TO USE.
- ALL PLASTIC SEWER PIPE SHALL BE DEFLECTION TESTED NOT LESS THAN 30 DAYS FOLLOWING INSTALLATION.
- THE MAXIMUM ALLOWABLE DEFLECTION OF FLEXIBLE SEWER PIPE SHALL BE 5 PERCENT OF THE AVERAGE INSIDE DIAMETER.
- TRENCH CONSTRUCTION SHALL CONFORM TO THE FOLLOWING:
 - SEWERS SHALL BE BURIED TO A MINIMUM DEPTH OF 6" BELOW GRADE IN ALL ROADWAY LOCATIONS AND TO A MINIMUM DEPTH OF 4 FEET BELOW GRADE IN ALL CROSS COUNTRY LOCATIONS.

- WHERE SEWER LINES CROSS WATER PIPES, A MINIMUM OF 18" VERTICAL SEPARATION BETWEEN THE TWO OUTSIDE PIPE WALLS SHALL BE OBSERVED. AT SEWER/WATER INTERSECTIONS, A MINIMUM OF 6 FEET SHALL BE PROVIDED FROM THE WATER LINE TO THE SEWER PIPE JOINT. 12" SEPARATION BETWEEN THE TWO OUTSIDE PIPE WALLS SHALL BE REQUIRED BETWEEN SEWER LINES AND ALL OTHER PIPES.
- TRENCH DIMENSIONS FOR SEWER PIPE LESS THAN 15 INCHES IN DIAMETER, THE ALLOWABLE TRENCH WIDTH AT A PLANE 12 INCHES ABOVE THE PIPE SHALL BE NO MORE THAN 36 INCHES AND FOR PIPE 15 INCHES AND LARGER, THE ALLOWABLE WIDTH SHALL BE EQUAL TO THE PIPES OUTSIDE DIAMETER PLUS 24 INCHES.

- PIPE TRENCH BEDDING MATERIAL AND FILL MATERIAL FOR EXCAVATION BELOW GRADE SHALL BE CRUSHED STONE TO ASTM C33-03 STONE SIZE NO. 87, THE PIPE SAND BLANKET MATERIAL SHALL BE GRADED SAND FREE FROM ANY ORGANIC MATERIALS, GRADED SUCH THAT 100 PERCENT PASSED THE 1/2-INCH SIEVE AND A MAXIMUM OF 15 PERCENT PASSES A #200 SIEVE. IN LIEU OF A SAND BLANKET, A STONE ENVELOPE 6 INCHES THICK COMPLETELY AROUND THE PIPE USING 3/4-INCH STONE MAY BE USED.
- PIPE BEDDING MATERIAL SHALL EXTEND FROM A HORIZONTAL PLANE THROUGH THE PIPE AXIS TO 6-INCHES BELOW THE BOTTOM OF THE OUTSIDE SURFACE OF THE PIPE.
- PIPE SAND BLANKET MATERIAL SHALL COVER THE PIPE A MINIMUM OF 12 INCHES ABOVE THE CROWN OF THE OUTSIDE SURFACE.

- COMPACTION SHALL BE IN 12-INCH LAYERS FOR BEDDING AND BLANKET MATERIALS.
- BACKFILL MATERIAL SHALL BE IN 3-FOOT LAYERS TO THE GROUND SURFACE EXCEPT FOR ROAD CONSTRUCTION WHERE THE FINAL 3-FEET SHALL BE COMPACTED IN 12-INCH LAYERS TO THE ROAD BASE SURFACE.
- TRENCH BACKFILL MATERIAL IN ROADWAY LOCATIONS SHALL BE NATURAL MATERIALS EXCAVATED FROM THE TRENCH DURING CONSTRUCTION, EXCLUDING DEBRIS, PAVED MATERIAL, TOP SOIL, WEI OR SOFT MUCK, PEAT, CLAY, EXCAVATED LEDGE, ROCKS OVER 6 INCHES IN THE LARGEST DIMENSION, OR ANY OTHER UNSUITABLE MATERIAL NOT APPROVED BY THE ENGINEER.

- TRENCH BACKFILL AT CROSS-COUNTRY LOCATIONS SHALL BE AS DESCRIBED ABOVE EXCEPT THAT THE ENGINEER MAY PERMIT THE USE OF TOP SOIL, LOAM, MUCK OR PEAT, IF HE IS SATISFIED THAT THE COMPLETED CONSTRUCTION WILL BE ENTIRELY STABLE AND PROVIDED THAT EASY ACCESS TO THE SEWER FOR MAINTENANCE AND POSSIBLE RECONSTRUCTION, WHEN NECESSARY WILL BE PRESERVED. BACKFILL SHALL BE MOISTURED 6-INCHES ABOVE ORIGINAL GROUND.
- BASE COURSE MATERIALS FOR TRENCH REPAIRS SHALL MEET THE REQUIREMENTS OF DIVISION 300 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION.

- WHERE SHEETING IS PLACED ALONG SIDE OF THE PIPE AND EXTENDS BELOW MID-DIAMETER, THE SHEETING SHALL BE CUT OFF AND LEFT IN PLACE TO AN ELEVATION NOT LESS THAN ONE FOOT ABOVE THE TOP OF THE PIPE AND AT LEAST 3 FEET BELOW FINISH GRADE.
- TRENCHES FOR SEWER PIPES WITH SLOPES OVER 0.08 FEET PER FOOT AND TRENCHES FOR SEWER PIPES BELOW THE SEASONAL HIGH GROUND WATER LEVEL SHALL HAVE IMPROVED TRENCH DAMS CONSTRUCTED EVERY 300 FEET TO PREVENT POTENTIAL DISTURBANCE TO PIPE BEDDING AND BLANKET MATERIALS.

SITE DEVELOPMENT PLANS

TAX MAP 14 LOT 39-2
DETAILS
SOUTHERN NEW HAMPSHIRE GREEN ENERGY CAMPUS
25 NORTH WENTWORTH AVE.
LONDONDERRY, NH 03053
 OWNED BY
PURPOSEENERGY-LONDONDERRY, LLC
25 PELHAM ROAD SUITE 102, SALEM, NH 03079

SCALE: NOT TO SCALE SEPTEMBER 8, 2025

	Civil Engineers Structural Engineers Traffic Engineers Land Surveyors Landscape Architects Scientists	48 Constitution Drive Bedford, NH 03110 Phone (603) 472-4488 Fax (603) 472-9747 www.tfmoran.com
	18252-02	FB CAPFILE

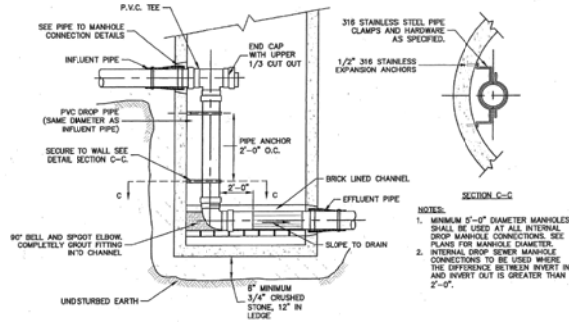


NO.	DATE	DESCRIPTION	BY	CHK	APP
5	12/18/2025	AOT & STAFF COMMENTS	JD	NG	
4	10/24/2025	INP&G APPROVAL	JD	NG	
3	11/3/2025	TOWN SEWER COMMENTS	JD	NG	
2	9/30/2025	REVISED FOR INP&G INCHES COMMENTS	JD	NG	
1	9/12/2025	UPDATE FOR SUBMITTAL	JD	NG	
REV	GAZ	DESCRIPTION	DP	CK	

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Date: 25, 2025 - 2:24pm
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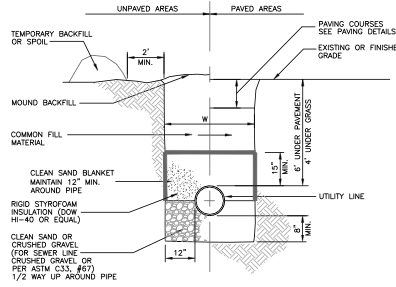
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TYPICAL SEWER MANHOLE WITH INTERNAL DROP CONNECTION

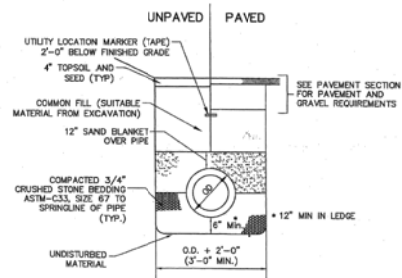
NOT TO SCALE

- NOTES:
1. MINIMUM 5'-0" DIAMETER MANHOLES SHALL BE USED AT ALL INTERNAL DROP MANHOLE CONNECTIONS. SEE PLANS FOR MANHOLE DIAMETER.
 2. INTERNAL DROP SEWER MANHOLE CONNECTIONS TO BE USED WHERE THE DIFFERENCE BETWEEN INVERT IN AND INVERT OUT IS GREATER THAN 2'-0".



PIPE INSULATION

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TYPICAL SEWER PIPE TRENCH

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2	9/30/2025	REVISED FOR NHF&D INQUIRY COMMENTS	JD	NG
1	9/12/2025	UPDATE FOR SUBMITTAL	JD	NG

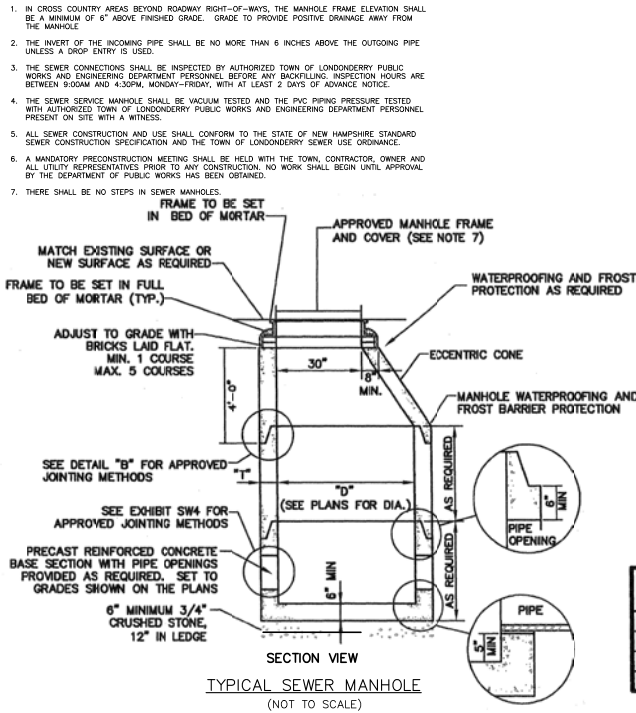
SITE DEVELOPMENT PLANS
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TFM	Civil Engineers Structural Engineers Traffic Engineers Land Surveyors Landscape Architects Scientists		48 Constitution Drive Bedford, NH 03110 Phone (603) 472-4488 Fax (603) 472-9747 www.tfmoran.com	
	18252-02	DR	FB	-
	CK	CADPLE	18252-02 COVER & DETAILS	D-10

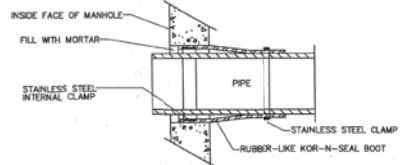
GENERAL NOTES

- ALL SEWER CONSTRUCTION STANDARDS AND DETAILS SHALL ADHERE TO ENV-WO 700, EFFECTIVE DATE JULY 1, 2025.
- IT IS THE INTENTION THAT THE MANHOLE, INCLUDING ALL COMPONENT PARTS, HAVE ADEQUATE SPACE, STRENGTH AND LEAKPROOF QUALITIES CONSIDERED NECESSARY FOR THE INTENDED SERVICE. SPACE REQUIREMENTS AND CONFIGURATIONS SHALL BE AS SHOWN ON THE DRAWING. MANHOLES SHALL BE AN ASSEMBLY OF PRECAST REINFORCED CONCRETE AND ADEQUATE JOINTING. THE COMPLETE STRUCTURE SHALL BE OF SUCH MATERIAL AND QUALITY AS TO WITHSTAND HS-20-44 LOADING INCLUDING THE FRAME AND COVERS.
- SEWER MANHOLE DIAMETER SHALL BE AS INDICATED ON THE PLANS.
- LEAKAGE TEST SHALL BE PERFORMED IN ACCORDANCE WITH THE TOWN OF LONDONDERRY AND NHDES REQUIREMENTS. INVERT AND SHELF TO BE PLACED AFTER PASSING THE LEAKAGE TEST.
 - ALL MANHOLES SHALL BE TESTED FOR LEAKAGE USING A VACUUM TEST IN ACCORDANCE WITH THE ASTM C1244 STANDARD IN EFFECT WHEN THE TESTING IS PERFORMED.
 - THE MANHOLE VACUUM TEST SHALL CONFORM TO THE FOLLOWING:
 - THE INITIAL VACUUM GAUGE TEST PRESSURE SHALL BE 10 INCHES HG.
 - THE MINIMUM ACCEPTABLE TEST HOLD TIME FOR 1-INCH HG PRESSURE DROP TO 9 INCHES SHALL BE:
 - NOT LESS THAN 2 MINUTES FOR MANHOLES LESS THAN 10 FEET DEEP.
 - NOT LESS THAN 2.5 MINUTES FOR MANHOLES 10 TO 15 FEET DEEP.
 - NOT LESS THAN 3 MINUTES FOR MANHOLES MORE THAN 15 FEET DEEP.
 - THE MANHOLE SHALL BE REPAIRED AND RETESTED IF THE TEST HOLD TIMES FAIL TO ACHIEVE THE ACCEPTANCE LIMITS SPECIFIED IN (b) ABOVE.
 - INVERTS AND SHELVES SHALL NOT BE INSTALLED UNTIL AFTER SUCCESSFUL TESTING IS COMPLETE.
 - AFTER COMPLETION OF THE LEAKAGE TEST, THE FRAME AND COVER SHALL BE PLACED ON TOP OF THE MANHOLE OR SOME OTHER MEANS USED TO PREVENT ACCIDENTAL ENTRY BY UNAUTHORIZED PERSONS, CHILDREN OR ANIMALS, UNTIL THE CONTRACTOR IS READY TO MAKE FINAL ADJUSTMENT TO GRADE.
- CARE SHALL BE TAKEN TO ENSURE THAT THE BRICK INVERT IS A SMOOTH CONTINUATION OF THE SEWER INVERT. INVERT BRICKS SHALL BE LAID ON EDGE. BASE SECTION TO BE FULL.
- MANHOLE CHANNELS REQUIRING CHANGE IN ALIGNMENT ARE TO BE BUILT ON A SMOOTH RADIUS.
- IN CROSS COUNTRY AREAS BEYOND ROADWAY RIGHT-OF-WAYS, THE MANHOLE FRAME ELEVATION SHALL BE A MINIMUM OF 6" ABOVE FINISHED GRADE. GRADE TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE MANHOLE.
- FRAMES AND COVERS: MANHOLES FRAMES AND COVERS SHALL BE OF HEAVY DUTY DESIGN AND PROVIDE A 30-INCH CLEAR OPENING (MINIMUM HEIGHT). LETTERS WITH THE WORD "SEWER" SHALL BE PLAINLY CAST INTO THE CENTER OF EACH MANHOLE COVER.
- BARRELS, CONE SECTIONS AND CONCRETE GRADE RINGS SHALL BE PRECAST REINFORCED CONCRETE AND SHALL CONFORM ENV-WO 704.12 & 704.13.
- PRECAST CONCRETE BARREL SECTIONS, CONES AND BASES SHALL CONFORM TO ASTM C478-06.
- BASE SECTIONS SHALL BE OF MONOLITHIC CONSTRUCTION TO A POINT AT LEAST 6 INCHES ABOVE THE CROWN OF THE INCOMING PIPE.
- MANHOLE CONE SECTIONS SHALL BE ECCENTRIC IN SHAPE.
- ALL PRECAST SECTIONS AND BASES SHALL HAVE THE DATE OF MANUFACTURE AND THE NAME OR TRADEMARK OF THE MANUFACTURER IMPRESSED OR INDELIBLY MARKED ON THE INSIDE WALL.
- ALL PRECAST SECTIONS AND BASES SHALL BE COATED ON THE EXTERIOR WITH A BITUMINOUS DAMP-PROOFING COATING.
- SHALLOW MANHOLES: IN LIEU OF A CONE SECTION, WHEN MANHOLE DEPTH IS LESS THAN 6 FEET, A REINFORCED CONCRETE SLAB COVER MAY BE USED HAVING AN ECCENTRIC ENTRANCE OPENING AND CAPABLE OF SUPPORTING 14-20 LOADS.
- HORIZONTAL JOINTS BETWEEN SECTIONS OF PRECAST CONCRETE BARRELS SHALL BE OF AN OVERLAPPING TYPE, SEALED FOR WATER-TIGHTNESS USING A DOUBLE ROW OF AN ELASTOMERIC OR RUBBER-LIKE SEALANT. APPROVED ELASTOMERIC SEALANTS ARE:
 - SKAFLEX-12-SL OR
 - SOMNEBORN BUILDING PRODUCTS--SONOLASTIC SL-1
- THE MINIMUM INTERNAL DIAMETER OF MANHOLES SHALL BE 48 INCHES FOR SEWERS LARGER THAN 24-INCH DIAMETER. MANHOLE DIAMETERS SHALL BE INCREASED SO AS TO PROVIDE AT LEAST 12-INCHES OF SHELF ON EACH SIDE OF THE SEWER.
- LEAKAGE TEST SHALL BE PERFORMED IN ACCORDANCE TO ENV-WO 704.17.
- BRICK MASONRY FOR SHELF, INVERT AND GRADE ADJUSTMENT SHALL COMPLY WITH ASTM C32-05, CLAY OR SHALE FOR GRADE 5S HAND BRICK.
- MORTAR SHALL BE COMPOSED OF PORTLAND CEMENT AND SAND WITH OR WITHOUT HYDRATED LIME ADDITION. PROPORTIONS IN MORTAR OF PARTS BY VOLUMES SHALL BE:
 - 4.5 PARTS SAND AND 1.5 PARTS CEMENT; OR
 - 4.5 PARTS SAND, 1 PART CEMENT AND 0.5 PART HYDRATED LIME
- CEMENT SHALL BE TYPE II PORTLAND CEMENT CONFORMING TO ASTM C150-05. HYDRATED LIME SHALL BE TYPE S CONFORMING TO ASTM C207-06 "STANDARD SPECIFICATIONS FOR HYDRATED LIME FOR MASONRY PURPOSES". SAND SHALL CONSIST OF INERT NATURAL SAND CONFORMING TO ASTM C33-03 "STANDARD SPECIFICATIONS FOR CONCRETE, FINE AGGREGATES".
- INVERTS AND SHELVES: MANHOLES SHALL HAVE A BRICK PAVED OR PRECAST CONCRETE SHELF AND INVERT, CONSTRUCTED TO CONFORM TO THE SIZE OF THE PIPE AND FLOW AT CHANGES IN DIRECTIONS. THE INVERTS SHALL BE LAID OUT IN CURVES OF THE LONGEST RADIUS POSSIBLE. TANGENT TO THE CENTER LINE OF THE SEWER PIPES. SHELVES SHALL BE CONSTRUCTED TO THE ELEVATION OF THE HIGHEST PIPE CROWN AND SLOPE TO DRAIN TOWARD THE FLOWING THROUGH CHANNEL. UNDERLAYMENT OF INVERT AND SHELF SHALL CONSIST OF BRICK MASONRY.
- FRAMES AND COVERS: MANHOLES FRAMES AND COVERS SHALL BE OF HEAVY DUTY DESIGN, CLASS 30 CONFORMING TO ASTM A48/AS48 AND PROVIDE A 30-INCH CLEAR OPENING, 3-INCH WORD (MINIMUM HEIGHT) LETTERS "SEWER" SHALL BE PLAINLY CAST INTO THE TOP SURFACE. THE CASTING SHALL BE OF EVEN GRAINED CAST IRON, SMOOTH, AND FREE FROM SCALE, LUMPS, BUSTERS, SAND HOLES AND DEFECTS. CONTACT SURFACES OF COVERS AND FRAMES SHALL BE MACHINED AT THE FOUNDRY TO PREVENT ROUNDOFF OF COVERS IN ANY ORIENTATION.
- BEDDING: PRECAST BASES SHALL BE PLACED ON A 6-INCH (12-INCH IN LEDGE) LAYER OF COMPACTED BEDDING MATERIAL THAT CONFORMS TO ASTM C33-03 NO. 67 STONE AND FREE FROM CLAY, LOAM AND ORGANIC MATTER. THE ELEVATION SHALL BE PROPERLY DEMONSTRATED WHILE PLACING BEDDING MATERIAL AND SETTING OF THE BASE OR POURING CONCRETE. WATER-STOPS SHALL BE USED AT THE HORIZONTAL JOINT OF THE CAST-IN-PLACE MANHOLES.

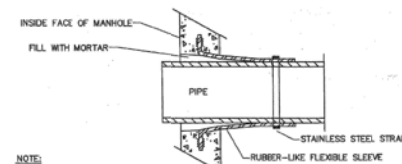
90-100% PASSING	1" SCREEN
100% PASSING	3/4" SCREEN
20-55% PASSING	3/8" SCREEN
0-10% PASSING	#4 SEIVE
0-5% PASSING	#8 SEIVE
- FLEXIBLE JOINT: A FLEXIBLE JOINT SHALL BE PROVIDED WITHIN THE FOLLOWING DISTANCES FROM ANY MANHOLE CONNECTION: (a) WITHIN 48 INCHES FOR REINFORCED CONCRETE PIPE (RCP), (b) WITHIN 60 INCHES FOR 12" PVC PIPE LARGER THAN 12" DIAMETER.
- NO FLEXIBLE JOINT SHALL BE REQUIRED FOR DUCTILE IRON PIPE OR PVC PIPE UP THROUGH 15-INCH DIAMETER.
- PIPE TO MANHOLE JOINTS SHALL BE ONLY AS FOLLOWS:
 - ELASTOMERIC, RUBBER SLEEVE WITH WATER-TIGHT JOINTS AT THE MANHOLE OPENING AND PIPE SURFACES.
 - CAST IRON WALL OR SECURED WITH STAINLESS STEEL CLAMP.
 - ELASTOMERIC SEALING RING CAST IN THE MANHOLE OPENING WITH THE SEAL FORMED ON THE SURFACE OF THE PIPE BY COMPRESSION OF THE RING.



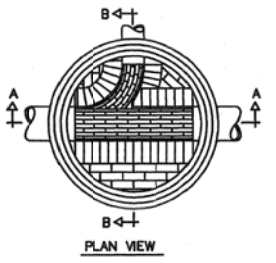
MANHOLE DIAMETER	MAX. PIPE DIAMETER STRAIGHT THROUGH TO 45' DEFLECTION	T" (WALL THICKNESS)
48" (MIN.)	30" OD MAX.	5" (MIN.)
60"	44" OD MAX.	6"
72"	51" OD MAX.	7"
96"	72" OD MAX.	9"



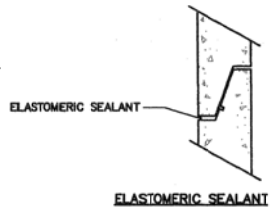
KOR-N-SEAL JOINT SLEEVE (OR ACCEPTABLE SUBSTITUTE)



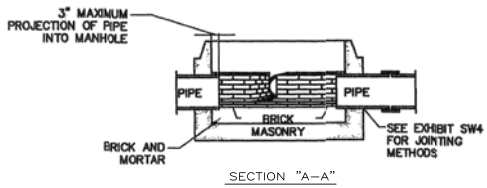
LOCK-JOINT FLEXIBLE MANHOLE SLEEVE (OR ACCEPTABLE SUBSTITUTE)



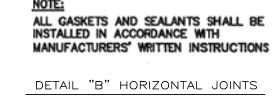
TYPICAL MANHOLE - PLAN VIEW



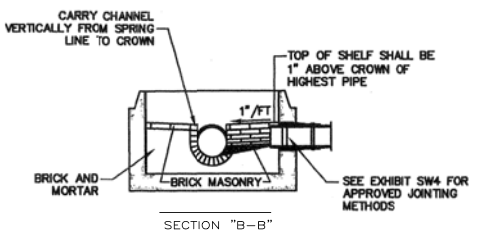
ELASTOMERIC SEALANT



SECTION "A-A"



DETAIL "B" HORIZONTAL JOINTS



SECTION "B-B"



SITE DEVELOPMENT PLANS
 TAX MAP 14 LOT 39-2
DETAILS
 SOUTHERN NEW HAMPSHIRE GREEN ENERGY CAMPUS
 25 NORTH WENTWORTH AVE.
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SCALE: NOT TO SCALE SEPTEMBER 8, 2025

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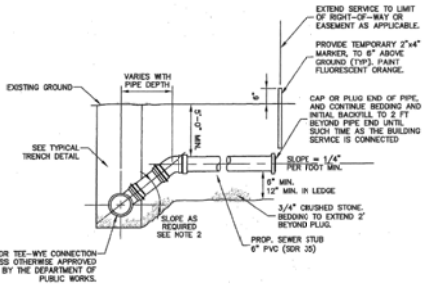
TFM Civil Engineers
 Structural Engineers
 Traffic Engineers
 Land Surveyors
 Landscape Architects
 Scientists

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18252-02 FB CAPLPE 18252-02 COVER & DETAILS D-11

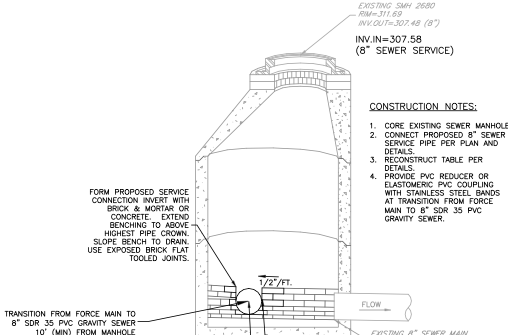
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Date: 20, 2025 - 2:24pm
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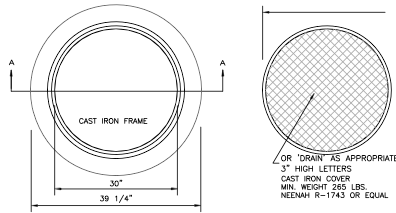
- NOTES:
1. ALL SERVICE CONNECTIONS TO BE 6" MINIMUM UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
 2. USE CHIMNEY DETAIL WHERE SERVICE CONNECTION ENTERS SEWER AT GREATER THAN 60° TO THE HORIZONTAL.

SEWER SERVICE CONNECTION

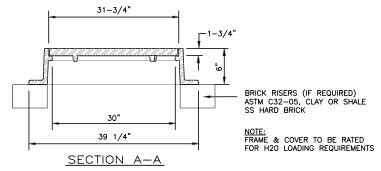


SEWER SERVICE CONNECTION

EX. SMH2680 NOT TO SCALE



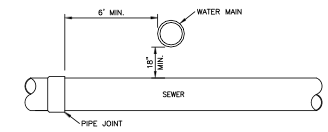
PLAN VIEW



SECTION A-A

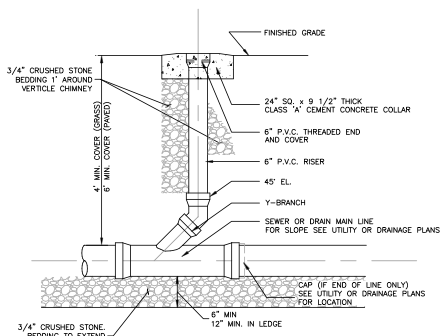
MANHOLE FRAME & COVER

HEAVY DUTY

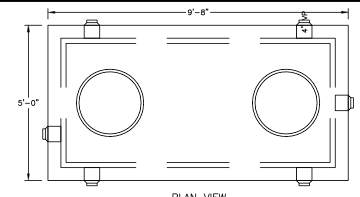


SEWER / WATER INTERSECTIONS

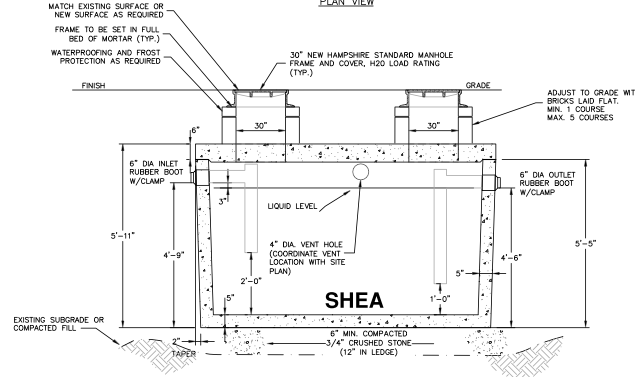
ELEVATION VIEW NOT TO SCALE



SEWER CLEAN OUT



- NOTES
1. TANK, WHETHER A SINGLE UNIT OR MULTIPLE SECTIONS, SHALL BE SEALED SO AS TO MEET N.H.D.E.S. WATER TIGHT SPECIFICATIONS.
 2. SEE TYPICAL SEWER MANHOLE DETAIL AND JOINT DETAILS FOR ADDITIONAL DETAILS.



ITEM NO. M1000H	H=20 (6" TOP)
M1000H10	H=20 (10" TOP)
WEIGHT:	
BOTTOM	= 11,250#
10" TOP	= 5,960#
6" TOP	= 3,975#

- NOTES:
1. CONCRETE: 4,000 PSI MINIMUM AFTER 28 DAYS.
 2. ALL REINFORCEMENT PER ASTM C1227.
 3. TEES AND BAFFLES SOLD SEPARATELY.
 4. TONGUE & GROOVE JOINT SEALED WITH BUTYL RESIN.
 5. DESIGNED FOR ASHTO HS-20 LOADING, 1 TO 5 FT COVER.

INDUSTRIAL TANK DETAIL

SHEA CONCRETE 1,000 GALLON SEPTIC TANK (OR APPROVED EQUAL) NOT TO SCALE

SITE DEVELOPMENT PLANS

TAX MAP 14 LOT 39-2

DETAILS

SOUTHERN NEW HAMPSHIRE GREEN ENERGY CAMPUS

25 NORTH WENTWORTH AVE.

LONDONDERRY, NH 03053

OWNED BY

PREPARED FOR

PURPOSEENERGY-LONDONDERRY, LLC

25 PELHAM ROAD SUITE 102, SALEM, NH 03079

SCALE: NOT TO SCALE SEPTEMBER 8, 2025



Civil Engineers
Structural Engineers
Traffic Engineers
Land Surveyors
Landscape Architects
Scientists

48 Constitution Drive
Bedford, NH 03110
Phone (603) 472-4488
Fax (603) 472-9747
www.tfmoran.com

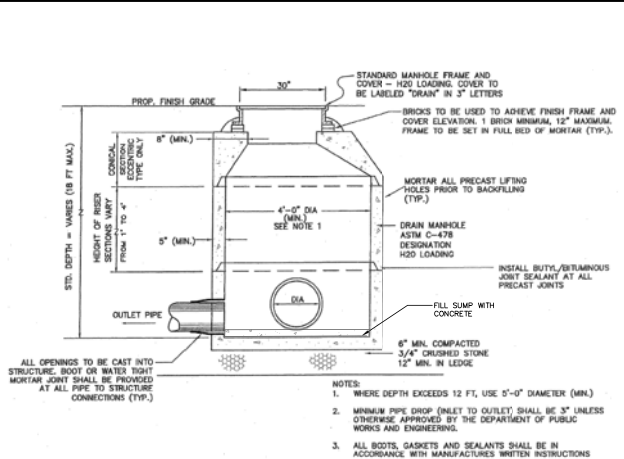
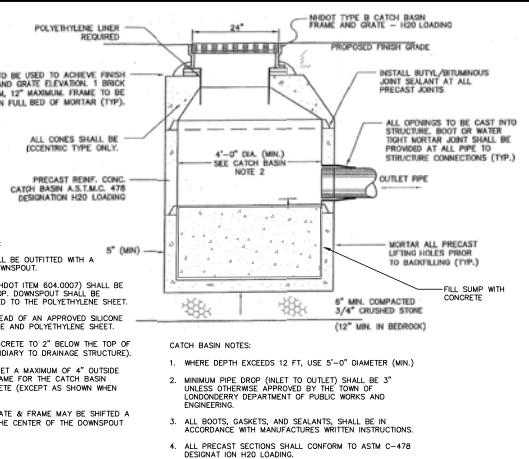
REV	DATE	DESCRIPTION	BY	CHK
3	12/18/2025	AOT & STAFF COMMENTS	JD	NG
2	10/22/2025	TOWN SEWER COMMENTS	JD	NG
1	9/12/2025	UPDATE FOR SUBMITTAL	JD	NG

18252-02	DR	FB	-	D-12
	CK	CADPFL	18252-02 COVER & DETAILS	

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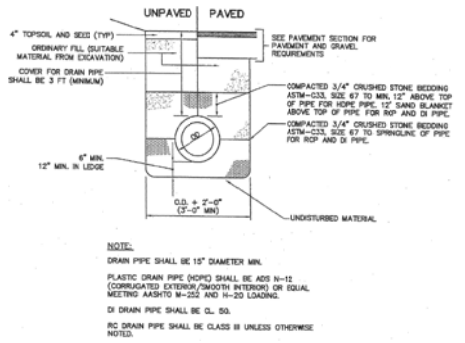
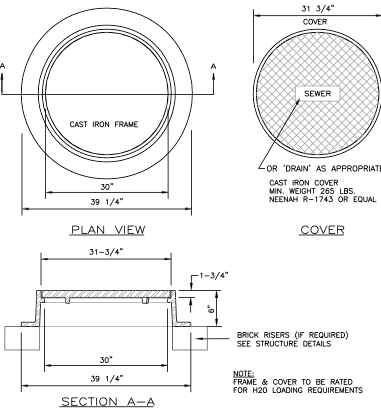
CATCH BASIN

NOT TO SCALE

DRAIN MANHOLE

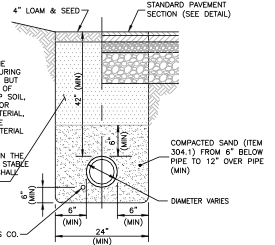
ECCENTRIC CONE

NOT TO SCALE



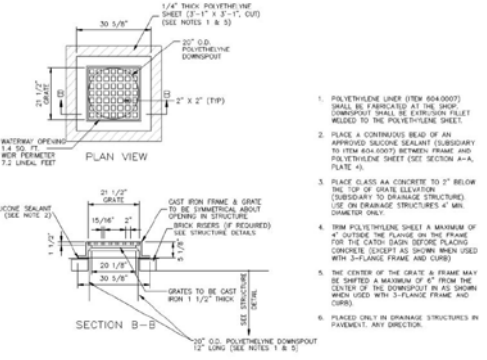
STORM DRAIN TRENCH

NOT TO SCALE



GAS MAIN TRENCH

NOT TO SCALE



CATCH BASIN FRAME AND GRATE

NEENAH R-3404 OR EQUIVALENT NOT TO SCALE

MANHOLE FRAME & COVER

HEAVY DUTY NOT TO SCALE

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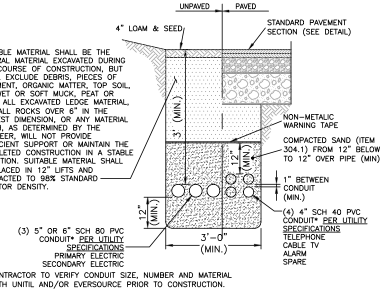


REV	DATE	DESCRIPTION	BY	CHK
5	12/18/2025	ADT & STAFF COMMENTS	JD	NG
4	10/24/2025	INF&S APPROVAL	JD	NG
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2	9/30/2025	REVISED FOR INF&S & INF&S COMMENTS	JD	NG
1	9/12/2025	UPDATE FOR SUBMITTAL	JD	NG

SITE DEVELOPMENT PLANS
TAX MAP 14 LOT 39-2
DETAILS
SOUTHERN NEW HAMPSHIRE GREEN ENERGY CAMPUS
25 NORTH WENTWORTH AVE.
LONDONDERRY, NH 03053
OWNED BY
PURPOSEENERGY-LONDONDERRY, LLC
25 PELHAM ROAD SUITE 102, SALEM, NH 03079
SCALE: NOT TO SCALE **SEPTEMBER 8, 2025**

TFM	Civil Engineers	48 Constitution Drive	D-13
	Structural Engineers	Bedford, NH 03110	
	Traffic Engineers	Phone (603) 472-4488	
	Land Surveyors	Fax (603) 472-9747	
	Landscape Architects	www.tfmoran.com	
	Scientists		

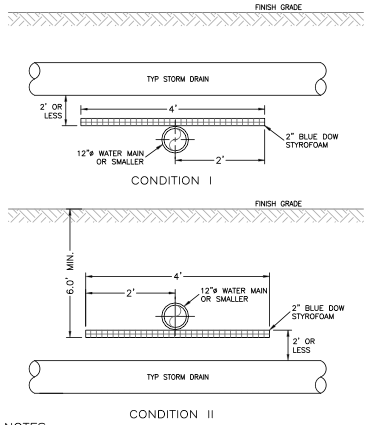
Date: 2/20/2025 - 2:24pm
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- NOTES**
- ALL CONDUITS SHALL BE 6" GRAY, ELECTRICAL GRADE, SCHEDULE 80 PVC CONDUIT WITH THE EXCEPTION OF THE SWEEPS AT RISER POLE AND THE FIRST HORIZONTAL AND VERTICAL CONDUIT SECTIONS AT EACH RISER POLE WHICH SHALL BE 6" HOT-DIPPED, GALVANIZED ROOD STEEL.
 - THE STEEL TO PVC CONDUIT TRANSITIONS SHALL BE MADE WITH PVC THREADED ADAPTERS.
 - CONDUITS SHALL BE INSTALLED IN STRAIGHT LINES.
 - NO SWEEPS SHALL BE USED IN THE CONDUIT SYSTEM EXCEPT AT RISER POLES AND EQUIPMENT PADS.
 - THE MAXIMUM CHANGE IN CONDUIT DIRECTION BETWEEN TO CONTIGUOUS LENGTH OF CONDUIT SHALL BE LIMITED TO 2.5 DEGREES.
 - ALL HORIZONTAL AND/OR VERTICAL CONDUIT BEND/CHANGES IN DIRECTION, NO MATTER HOW SMALL, SHALL BE REVIEWED AND APPROVED BY UNTIL.
 - ALL CONDUIT RUNS SHALL BE CLEANED BY PULLING A PLUG OR MANDREL (NO SMALLER THAN 1/4" LESS THAN THE CONDUIT) THROUGH EACH CONDUIT.
 - ALL CONDUITS SHALL HAVE A 2.500# FLAT, WOVEN, POLYESTER PULLING LINE INSTALLED.
 - TEMPORARY CAPS SHALL BE INSTALLED ON THE END OF CONDUITS UNTIL CABLES ARE INSTALLED.
 - THE CONDUIT DUCT BANK INSTALLATION SHALL BE INSPECTED AND ACCEPTED BY UNTIL PRIOR TO BACKFILL.

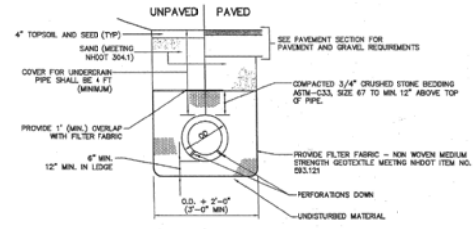
UTILITY TRENCH

NOT TO SCALE



- NOTES**
- INSULATION REQUIREMENTS MAY BE MODIFIED BY WATER DEPT. BASED ON FIELD CONDITIONS, ETC.
 - THE LENGTH OR WIDTH OF INSULATION SHALL EXTEND 1 STORM DRAIN PIPE DIAMETER BEYOND THE EDGE OF STORM DRAIN PIPE IN EACH DIRECTION OR A MINIMUM OF 2" BEYOND THE CENTERLINE OF THE STORM DRAIN PIPE, WHICHEVER IS GREATER.
 - ALL BUTT JOINT SEAMS TO BE OVERLAPPED WITH A 1" PIECE OF INSULATION CENTERED OVER SEAM.

STORM DRAIN / WATER MAIN INTERSECTING RUNS
 ELEVATION VIEW NOT TO SCALE



NOTE:
 PLASTIC UNDERDRAIN PIPE (HDPE) SHALL BE 6" DIAMETER (MIN.) 405-H-12 (CORRUGATED EXTERIOR/SMOOTH INTERIOR) OR EQUAL MEETING AASHTO M-252 AND H-20 LOADING.

UNDERDRAIN TRENCH

NOT TO SCALE

SITE DEVELOPMENT PLANS
 TAX MAP 14 LOT 39-2
DETAILS
SOUTHERN NEW HAMPSHIRE GREEN ENERGY CAMPUS
25 NORTH WENTWORTH AVE.
LONDONDERRY, NH 03053
 OWNED BY
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	Structural Engineers	Bedford, NH 03110	
	Traffic Engineers	Phone (603) 472-4488	
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	Landscape Architects	www.tfmoran.com	
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PUMP STATION DESIGN NOTES

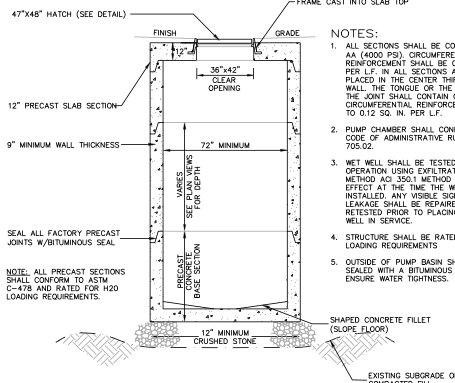
- Enr-Wq 704.07 FORCE MAINS:**
- FORCE MAINS FOR CONSTANT SPEED PUMPS SHALL BE SIZED TO YIELD A CLEANSING VELOCITY OF 3 FEET PER SECOND OR GREATER AT DESIGN PUMP CAPACITY.
 - FORCE MAINS FOR VARIABLE SPEED PUMPS SHALL BE SIZED TO YIELD A VELOCITY OF 2 FEET PER SECOND OR GREATER AT AVERAGE DAILY DESIGN FLOW.
 - SEWER FORCE MAIN SHALL BE 6" INCHES IN NOMINAL DIAMETER FOR THE SEWER FROM THE SITE.
 - FORCE MAINS SHALL BE PROVIDED WITH AUTOMATIC AIR RELIEF VALVE(S) AT HIGH POINTS TO PREVENT AIR LOCKING.
 - FORCE MAINS SHALL ENTER THE GRAVITY SEWER SYSTEM AT THE FLOW LINE OF THE RECEIVING MANHOLE.
 - FORCE MAINS SHALL BE PROVIDED WITH DRAINAGE BLOW-OFFS, PROPERLY VALVED, AT LOW POINTS. SPACE SHALL BE AVAILABLE AT SUCH LOCATIONS FOR HANDLING THE DISPLACED WASTE WITHOUT DANGER OF POLLUTION OR HEALTH HAZARD.
 - FORCE MAINS SHALL BE DESIGNED IN ACCORDANCE WITH Enr-Wq 704.07, CONSTRUCTED WITH MATERIALS AS SPECIFIED IN Enr-Wq 704.08, AND TESTED AS SPECIFIED IN Enr-Wq 704.09.
 - THRUST BLOCKS MADE FROM INORGANIC CORROSION-RESISTANT MATERIAL SHALL BE PLACED AT ALL BENDS, ELBOWS, TEES AND JUNCTIONS.
 - FORCE MAINS SHALL BE DESIGNED TO WITHSTAND HYDROSTATIC PRESSURES OF AT LEAST 2.5 TIMES THE DESIGN TOTAL DYNAMIC HEAD.
- Enr-Wq 704.09 FORCE MAIN AND PRESSURE SEWER TESTING:**
- FORCE MAINS AND PRESSURE SEWERS AND FORCE MAINS AND PRESSURE SEWERS SHALL BE TESTED IN ACCORDANCE WITH SECTION 5 OF THE AWWA C600, INSTALLATION OF CAST IRON WATER MAINS AND THEIR APPURTENANCES STANDARD IN EFFECT WHEN THE TEST IS CONDUCTED, AVAILABLE AS NOTED IN APPENDIX D, AT A PRESSURE EQUAL TO THE GREATER OF 150 PERCENT OF THE DESIGN OPERATING TOTAL DYNAMIC HEAD OR AT LEAST 100 PSI.
- Enr-Wq 705.04 PUMP STATION ACCESS:**
- DRY WELL SHALL PROVIDE ACCESSIBILITY FOR THE REPAIR AND REMOVAL OF PUMPS, MOTORS, AND OTHER ITEMS OF EQUIPMENT THAT ARE ESSENTIAL TO THE SEWAGE PUMPING PROCESS.
 - SEPARATE EXTERIOR ENTRANCES SHALL BE PROVIDED TO BOTH WET WELLS AND DRY WELLS OF SEWAGE PUMPING STATIONS. ACCESS TO LOWER LEVELS SHALL BE BY STAIRWAYS WITH HANDRAILS.
 - FOR BUILT-IN-PLACE SEWAGE PUMPING STATIONS, ACCESS TO LOWER LEVELS SHALL BE BY STAIRWAYS WITH HANDRAILS.
 - PREFABRICATED STATIONS MAY HAVE LADDERS WITH LESS THAN OR EQUAL TO A 75° SLOPE OR SPIRAL STAIRS.
 - VERTICAL DISTANCES BETWEEN FLOORS OR REST LANDINGS SHALL NOT EXCEED 12 FEET.
 - SAFETY BARRIERS TO PREVENT FALLING SHALL BE PROVIDED AT LANDINGS.
 - POWER ELEVATORS ALLOWED FOR ALL DEEP STATIONS SHALL HAVE A CAPACITY LIMIT OF NOT LESS THAN 600 POUNDS.
 - LIFTING EQUIPMENT SHALL BE PROVIDED FOR SUBMERSIBLE PUMP REMOVAL.
 - LIFTING CHAINS SHALL BE STAINLESS STEEL OR OTHER CORROSION RESISTANT MATERIAL.
- Enr-Wq 705.07 ELECTRICAL REQUIREMENTS:**
- SUBMERSIBLE PUMPS FOR SEWAGE PUMPING STATIONS SHALL CONFORM TO THE NEC REQUIREMENTS ADOPTED BY REFERENCE IN THE STATE BUILDING CODE PURSUANT TO RSA 155-A:1, IV, FOR INSTALLATION IN AREAS CLASSIFIED BY THE NEC AS CLASS 1, DIVISION 1.
 - ELECTRICAL SYSTEMS AND COMPONENTS INCLUDING MOTORS, LIGHTS, CABLE, CONDUITS, SWITCH DEVICES AND CONTROL CIRCUITS SHALL BE PROTECTED FROM FLOODING IN ACCORDANCE WITH Enr-Wq 705.01.
 - ELECTRICAL SYSTEMS AND COMPONENTS INCLUDING MOTORS, LIGHTS, CABLES, CONDUITS, SWITCH DEVICES AND CONTROL CIRCUITS IN ENCLOSED OR PARTIALLY ENCLOSED SPACES WHERE FLAMMABLE MIXTURES OCCASIONALLY MAY BE PRESENT, INCLUDING RAW SEWAGE WET WELLS SHALL BE COVERED BY THE MANUFACTURER AS:
 - COMPLYING WITH THE NEC REQUIREMENTS ADOPTED BY REFERENCE IN THE STATE BUILDING CODE PURSUANT TO RSA 155-A:1, IV, FOR CLASS 1, DIVISION 1 LOCATIONS; OR
 - BEING RATED FOR CLASS 1 DIVISION 2 REQUIREMENTS WHERE MECHANICAL VENTILATION IS PROVIDED IN ACCORDANCE WITH THE NFPA AS ADOPTED BY REFERENCE IN THE STATE FIRE CODE IN SAF-C 6000.
 - ALL ELECTRICAL EQUIPMENT AND WORK SHALL COMPLY WITH THE REQUIREMENTS OF NEC AS ADOPTED BY REFERENCE IN THE STATE BUILDING CODE PURSUANT TO RSA 155-A:1, IV, AND NFPA AS ADOPTED BY REFERENCE IN THE STATE FIRE CODE IN SAF-C 6000 IN EFFECT AT THE TIME OF INSTALLATION.
- Enr-Wq 705.08 VENTILATION REQUIREMENTS:**
- MECHANICAL VENTILATION FOR PERSONNEL AND EQUIPMENT SHALL BE PROVIDED FOR ALL OCCUPIED SPACES WITHIN SEWAGE PUMPING STATION IN ACCORDANCE WITH THE NFPA AS INCORPORATED BY REFERENCE IN THE STATE FIRE CODE IN SAF-C 6000.
 - MECHANICAL VENTILATION FOR BELOW-GRADE DRY WELLS SHALL BE PROVIDED, SO ARRANGED AS TO INDEPENDENTLY VENTILATE THE DRY WELL AND THE WET WELL.
 - THERE SHALL BE NO INTERCONNECTION BETWEEN THE WET WELL AND DRY WELL VENTILATION SYSTEMS.
 - SWITCHES FOR OPERATION OF VENTILATION EQUIPMENT SHALL BE MARKED AND LOCATED CONVENIENTLY.
 - DEHUMIDIFICATION SHALL BE PROVIDED IN BELOW-GROUND DRY WELLS.
 - VENTILATION OF WET WELLS SHALL PROVIDE AT LEAST 30 AIR CHANGES PER HOUR IF THE VENTILATION SYSTEM IS OPERATED INTERMITTENTLY OR AT LEAST 12 AIR CHANGES PER HOUR IF THE VENTILATION SYSTEM IS OPERATED CONTINUOUSLY.
 - FANS INSTALLED WITHIN THE WET WELL STRUCTURE SHALL BE SUITABLE FOR A CLASS 1, DIVISION 1, GROUP C OR D ENVIRONMENT.
 - VENTILATION OF SUBMERSIBLE PUMP CHAMBERS OR SUCTION LINE WET WELLS WHERE THERE IS NO OCCUPANCY FOR REGULAR MAINTENANCE PURPOSES MAY BE BY GRAVITY VENTILATION.
 - VENTILATION EXHAUST FROM WET WELLS SHALL NOT CAUSE AN ODOR NUISANCE TO THE PUBLIC OR SURROUNDING OCCUPIED BUILDINGS.
 - ACCESS DOORS TO WET WELLS SHALL HAVE WARNING SIGNS ON THE UNDERSIDE WHICH READ, "WARNING - HAZARDOUS AREA. ENTER ONLY WITH PROPER EQUIPMENT" OR "CONFINED SPACE. ENTRY BY PERMIT ONLY", AS APPROPRIATE.
 - THE ALARM SHALL INCLUDE A LOCAL AUDIBLE ENUNCIATOR AND LIGHT.

PUMP STATION OPERATIONAL INSTRUCTIONS

- THE FOLLOWING MAINTENANCE SHALL BE DONE ON A MONTHLY BASIS (AT A MINIMUM):
 - PUMP STATION SHALL BE VISUALLY INSPECTED TO ENSURE THAT PUMPS AND APPURTENANCES ARE FUNCTIONING, PIPE SUPPORTS ARE SECURELY FIXED TO THE MANHOLE, STAINLESS STEEL LIFTING CHAINS ARE SAFELY STORED WITHIN THE PUMP STATION, IF ANY OF THE ABOVE PARTS ARE NOT FUNCTIONING AS DESIGNED, THEY SHALL BE REPAIRED IMMEDIATELY.
 - PUMP STATION AND VALVE MANHOLE ACCESS HATCHES ARE WORKING PROPERLY, IF THE ACCESS HATCHES ARE NOT FUNCTIONING PER THE MANUFACTURER'S RECOMMENDATIONS, THEY SHALL BE REPAIRED IMMEDIATELY.
 - ELECTRIC CONTROL PANEL SHALL BE INSPECTED TO CONFIRM ELAPSED TIME, METER, HIGH WATER ALARM, LOW LEVEL ALARM, LOSS OF ONE OR MORE PHASES OF POWER SUPPLY OR VOLTAGE DROP ALARM, LOSS OF ALARM TRANSMISSION LINE, AND STANDBY GENERATOR APPLICATION ALARM. IF ANY OF THE ALARMS ARE NOT FUNCTIONING AS DESIGNED, THEY SHALL BE REPAIRED IMMEDIATELY.
 - THE BACK-UP GENERATOR SHALL BE INSPECTED ON A MONTHLY BASIS (AT A MINIMUM, UNLESS OTHERWISE NOTED):
 - ALL RECOMMENDATIONS FROM THE MANUFACTURER AND OPERATOR'S MANUAL SHALL BE STRICTLY FOLLOWED.
 - THE GENERATOR SHALL BE PRIMED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
 - ALL FLUIDS SHALL BE CHECKED ON A DAILY BASIS AND ADDED ON AS NEEDED BASIS AND IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
 - ALL PARTS SHALL BE CHECKED ON A DAILY BASIS AND SHALL BE FIXED IMMEDIATELY WHEN NOT FUNCTIONING PROPERLY.
 - PUMP STATION OPERATION & MAINTENANCE (O&M) MANUAL SHALL BE SUBMITTED TO NHDSS WITHIN 60 DAYS FOLLOWING COMPLETION OF PUMP STATION CONSTRUCTION.
- Enr-Wq 705.08 ALARM SYSTEMS:**
- ALARM SYSTEMS SHALL BE PROVIDED FOR ALL SEWAGE PUMPING STATIONS:
 - THE ALARM SIGNAL SHALL BE ACTIVATED IN ONE OF THE FOLLOWING CASES:
 - HIGH WATER IN THE WET WELL.
 - LOW WATER IN THE WET WELL.
 - LOSS OF ONE OR MORE PHASES OF POWER SUPPLY OR SEVERE VOLTAGE DROP.
 - HIGH WATER LEVEL IN THE PUMP ROOM SUMP.
 - LOSS OF ALARM TRANSMISSION CAPABILITY.
 - STANDBY GENERATOR APPLICATION.
 - PUMP MAINTENANCE INCLUDING SHAFT SEAL FAILURE.
 - LOSS OF AIR PRESSURE IN A BUBBLER TUBE SYSTEM.
 - LEVEL SENSING MALFUNCTION OR FAILURE.
 - LOSS OF VENTILATION IN AREAS CLASSIFIED AS CLASS 1 DIVISION 2 AND USING MECHANICAL VENTILATION PER THE NFPA AS INCORPORATED BY REFERENCE IN THE STATE FIRE CODE IN SAF-C 6000.
 - WTRISUAL.
 - TEMPERATURE OUTSIDE NORMAL OPERATING RANGES.
 - THE HIGH WATER ALARM AND LOW WATER ALARM TRIGGERS SHALL BE SEPARATE DEVICES, INDEPENDENT OF THE PUMP WET LEVEL CONTROL SYSTEM AND SET AT ELEVATIONS ABOVE AND BELOW THE LAG PUMP ON AND OFF ELEVATIONS.
 - SATISFACTORY OPERATION OF THE ALARM SYSTEM SHALL BE INDICATED ON A PANEL WITH A LIGHT WHICH LIGHTS UP UPON FAILURE OF THE ALARM SYSTEM.
 - THE POWER SOURCE FOR THE ALARM SYSTEM SHALL BE:
 - AN INDEPENDENT BATTERY WITH A CONTINUOUS CHARGE OR;
 - MAIN LINE POWER WITH A BACK-UP BATTERY SYSTEM, WHICH SHALL BE CONNECTED AUTOMATICALLY SHOULD MAIN POWER FAIL.
 - THE ALARM SIGNAL SHALL BE TRANSMITTED THROUGH A 24 HOUR PER DAY, 7 DAY PER WEEK NOTIFICATION SYSTEM TO THE APPROPRIATE UTILITY OPERATOR.
 - THE ALARM SHALL INCLUDE A LOCAL AUDIBLE ENUNCIATOR AND LIGHT.
 - THE ALARM SHALL BE MADE TO PERMIT SILENCING OF THE AUDIBLE ENUNCIATOR MANUALLY, AFTER THE ALARM HAS BEEN SOUNDED, BUT THE LIGHT SHALL CONTINUE UNTIL THE ALARM CONDITION HAS BEEN RECTIFIED.
 - ALARM SIGNALS FOR PRIVATELY-OPERATED SEWER PUMPING STATIONS SHALL BE TRANSMITTED TO THE RESPONSIBLE MAINTENANCE PERSON DIRECTLY OR VIA AN ANSWERING SERVICE.
 - IF A CENTRAL SUPERVISORY CONTROL AND DATA ACQUISITION (SCADA) SYSTEM EXISTS AT THE WWP, THE PUMPING STATION ALARMS SHALL BE CONNECTED TO THE SCADA SYSTEM USING PROGRAMMABLE LOGIC CONTROLLER (PLC) TECHNOLOGY.
- Enr-Wq 705.10 INSTRUCTION AND EQUIPMENT:**
- THE OWNER SHALL OBTAIN AN OPERATION AND MAINTENANCE MANUAL THAT PROVIDES INFORMATION AND GUIDANCE FOR DAY-TO-DAY OPERATION OF THE SEWAGE PUMPING STATION AND PROVIDE A COPY TO NHDSS.
- Enr-Wq 705.11 EMERGENCY OPERATION:**
- THE ENGINEER SHALL RECOMMEND EMERGENCY OPERATION PROCEDURES TO PREVENT THE BACK-UP, OVERFLOW, OR OTHER UNEXPECTED DISCHARGE OF WASTEWATER FROM THE SEWAGE PUMPING STATION.
 - AN INDEPENDENT ENGINE-GENERATOR TYPE SOURCE OF ELECTRIC POWER SHALL BE PROVIDED FOR ELECTRICALLY-DRIVEN PUMPS. THIS SOURCE SHALL BE AUTOMATICALLY ACTIVATED BY FAILURE OF ANY PHASE OF POWER SUPPLY OR UPON ANY FLUCTUATION IN VOLTAGE, THE AMOUNT OR DURATION OF WHICH WOULD CAUSE DAMAGE TO THE MOTORS. INSTALLATIONS SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE NATIONAL ELECTRIC CODE AND THE STATE FIRE CODE IN SAF-C 6000.
 - THE EMERGENCY POWER GENERATOR SHALL BE PERMANENTLY SECURED IN PLACE WITH PROVISIONS FOR REMOVAL TO FACILITATE GENERATOR REPAIR OR REPLACEMENT.
 - PROVISIONS SHALL BE MADE FOR AUTOMATIC AND MANUAL START-UP AND CUT-IN. THE CONTROLS SHALL BE SUCH THAT UPON AUTOMATIC START-UP UNDER EMERGENCY CONDITIONS, SHUT-DOWN SHALL BE ALLOWED ONLY AUTOMATICALLY ON RESTORATION OF UTILITY POWER WITH CONTROLLED SHUT-DOWN OF THE UNIT. MANUAL SHUT-DOWN SHALL ALSO BE PROVIDED. PROVISION SHALL BE MADE TO ALLOW PUMPS TO RUN DOWN BEFORE RE-EMERGENCY ON TRANSFER OF POWER.
 - THE EMERGENCY POWER GENERATOR SHALL BE SIZED TO SEQUENTIALLY START AND OPERATE ALL PUMPS NEEDED TO HANDLE DESIGN MAXIMUM WASTE FLOWS, PLUS LIGHTING, VENTILATION, CONTROLS, AND CONDENSING OR SENSING.
 - THE EMERGENCY POWER GENERATOR SHALL BE LOCATED ABOVE GRADE WITH VENTILATION OF EXHAUST GASES.
 - ALL EMERGENCY POWER GENERATION EQUIPMENT SHALL BE PROVIDED WITH INSTRUCTIONS FOR ROUTINE EXERCISING, LOAD TESTING AND MAINTENANCE.
 - THE GENERATOR ENGINE CONTROLS SHALL BE EQUIPPED WITH AN AUTOMATIC EXERCISER WHICH CAN BE SET ON ANY SELECTED SCHEDULE TO START THE GENERATOR, RUN THE GENERATOR UNDER NO LOAD OR LOAD CONDITIONS BY SELECTION AND SHUT THE GENERATOR OFF WITHOUT ACTUATING THE ALARM SYSTEM.
 - THE OWNER SHALL PROVIDE EACH EMERGENCY GENERATOR WITH ENOUGH FUEL FOR THE GENERATOR TO RUN UNDER FULL LOAD OR PEAK STATION FLOW FOR AT LEAST 48 HOURS OR UNDER NORMAL OPERATING CONDITIONS FOR AT LEAST 96 HOURS, WHICHEVER REPRESENTS THE GREATER AMOUNT OF FUEL.
 - NO SEWAGE PUMPING STATION BY-PASSES ALLOWING THE DISCHARGE OF RAW SEWAGE EITHER OVERLAND OR TO ANY WATER COURSE SHALL BE PERMITTED.

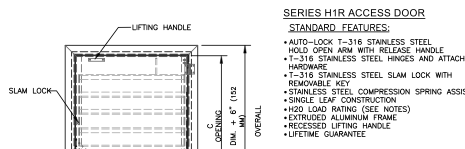
GENERATOR STANDARD SPECIFICATIONS

- GENERAC STANDBY GENERATOR, MODEL S6015T
 - 1.1. RATED MAXIMUM POWER CAPACITY: 15,000 WATTS
 - 1.2. RATED VOLTAGE: 240
 - 1.3. PHASE: 3
 - 1.4. TYPE OF ENGINE: FERROUS 2.2L
 - 1.5. OPERATING RPM: 1,800
 - 1.6. FUEL CONSUMPTION: HALF LOAD: 1.0 GAL/HR
FULL LOAD: 1.3 GAL/HR
- INSTALLATIONS SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE NEC AND THE STATE FIRE CODE IN SAF-C 6000.
- ELECTRIC CONTROL PANEL SHALL BE INSPECTED TO CONFIRM ELAPSED TIME, METER, HIGH WATER ALARM, LOW LEVEL ALARM, LOSS OF ONE OR MORE PHASES OF POWER SUPPLY OR VOLTAGE DROP ALARM, LOSS OF ALARM TRANSMISSION LINE, AND STANDBY GENERATOR APPLICATION ALARM. IF ANY OF THE ALARMS ARE NOT FUNCTIONING AS DESIGNED, THEY SHALL BE REPAIRED IMMEDIATELY.
- A 130-GALLON DIESEL FUEL TANK IS INCORPORATED INTO THE GENERATOR ASSEMBLY.
- SEE PLANS FOR GENERATOR, VENT PIPE, AND ENCLOSURE LOCATIONS.
- FINAL GENERATOR SELECTION SHALL CONFORM TO THESE MINIMUM STANDARDS. COORDINATE WITH OWNER, CONTRACTOR AND ELECTRICAL CONSULTANT.

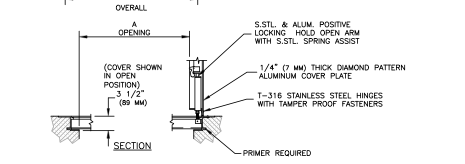


PUMP CHAMBER MANHOLE

SLAB TOP NOT TO SCALE



NOTES: 1) SUITABLE FOR USE IN OFF STREET LOCATION WHERE NOT SUBJECTED TO HIGH DENSITY TRAFFIC. 2) PROVIDE A FULL BED OF CLASS "A" CONCRETE UNDER FRAME AND SUPPORT ANOLES.



PUMP CHAMBER HATCH NOT TO SCALE

SITE DEVELOPMENT PLANS

TAX MAP 14 LOT 39-2
DETAILS

SOUTHERN NEW HAMPSHIRE GREEN ENERGY CAMPUS
25 NORTH WENTWORTH AVE.
LONDONDERRY, NH 03053

OWNED BY
PREPARED FOR
PURPOSEENERGY-LONDONDERRY, LLC
25 PELHAM ROAD SUITE 102, SALEM, NH 03079

SCALE: NOT TO SCALE SEPTEMBER 8, 2025

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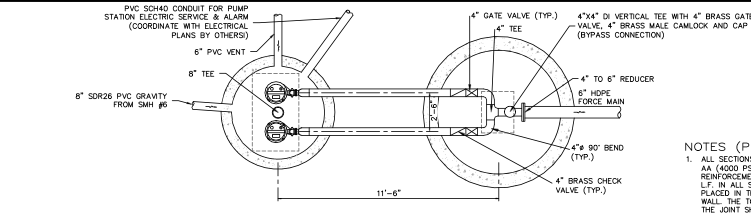


NO.	DATE	DESCRIPTION	BY	CHK
5	12/18/2025	ADT & STAFF COMMENTS	JD	NG
4	10/24/2025	NHF&S APPROVAL	JD	NG
3	11/3/2025	TOWN SEWER COMMENTS	JD	NG
2	12/10/2025	REVISED FOR NHDSS & NHDSS COMMENTS	JD	NG
1	9/12/2025	UPDATE FOR SUBMITTAL	JD	NG
REV	04/E	DESCRIPTION	DF	CK

TFM Civil Engineers
Structural Engineers
Traffic Engineers
Land Surveyors
Landscape Architects
Scientists

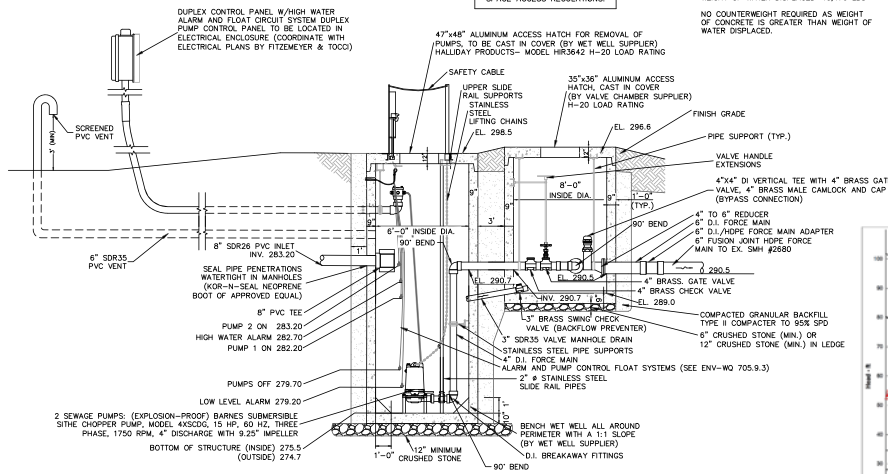
48 Constitution Drive
Bedford, NH 03110
Phone (603) 472-4488
Fax (603) 472-9747
www.tfmoran.com

18252-02
18252-02 COVER & DETAILS
D-15



CAUTION
THIS IS A CONFINED SPACE. DO NOT ENTER WITHOUT FOLLOWING OSHA CONFINED SPACE ACCESS REGULATIONS.

- NOTES (PUMP STATION MANHOLE):**
1. ALL SECTIONS SHALL BE CONCRETE CLASS AA (4000 PSI). CIRCUMFERENTIAL REINFORCEMENT SHALL BE 0.12 SQ. IN. PER L.F. IN ALL SECTIONS AND SHALL BE PLACED IN THE CENTER THIRD OF THE WALL. THE TONGUE OR THE GROOVE OF THE JOINT SHALL CONTAIN ONE LINE OF CIRCUMFERENTIAL REINFORCEMENT EQUAL TO 0.12 SQ. IN. PER L.F.
 2. PUMP CHAMBER SHALL CONFORM TO NH CODE OF ADMINISTRATIVE RULES Env-Wq 705.02.
 3. BUOYANCY CALCULATIONS: WEIGHT OF CONCRETE=56,019 LBS. HEIGHT OF WATER DISPLACED=4,476 LBS. NO COUNTERWEIGHT REQUIRED AS WEIGHT OF CONCRETE IS GREATER THAN WEIGHT OF WATER DISPLACED.



WASTEWATER FLOW INFORMATION
AVERAGE DAILY FLOW: 120,440 GPD (84 GPM)
PEAK DAILY FLOW: 650,376 GPD (452 GPM)

PUMP INFORMATION (AT PEAK DAILY FLOW RATE)
STATIC HEAD: 28'
FRICTION HEAD: 24'
TOTAL DYNAMIC HEAD: 52'

WET WELL STORAGE
VOLUME OF WET WELL: 211 GAL/VERTICAL FT
AVAIL. VERT STORAGE: 3.5 FT
(INV. TO PUMP OFF)
VOLUME AVAILABLE: 740 GALLONS

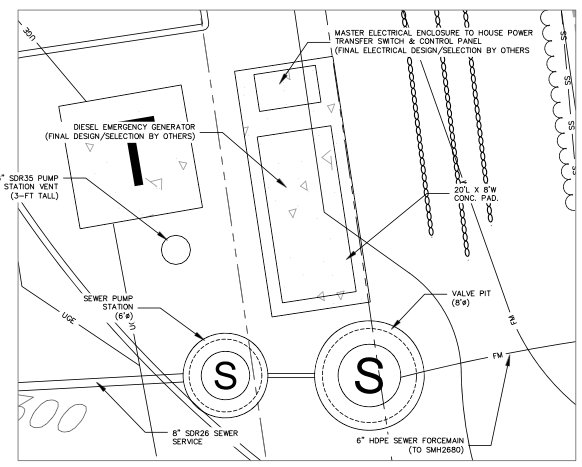
PUMP STATION NOTES:
ALL PIPE AND FITTINGS TO BE PRODUCED BY A SINGLE MANUFACTURER AND TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND LOCAL CODE REQUIREMENTS. BURIED PIPE SHALL BE INSTALLED IN ACCORDANCE WITH ASTM F 1568. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2564. PRIMER SHALL CONFORM TO ASTM F 656.

- NOTES:**
1. STRUCTURES AND HATCHES TO BE H-20 LOADING, SUBMERSIBLE PUMPS AND ALL ELECTRICAL COMPONENTS SHALL BE SUITABLE FOR USE IN CLASS 1 HAZARDOUS LOCATIONS.
 2. DUPLEX AUTOMATIC CONTROL PANEL AND ALARM PANEL TO BE PLACED IN ENCLOSURE. SYSTEM SHALL INCLUDE BOTH AUDIBLE AND VISUAL ALARMS. COORDINATE LOCATION WITH ARCHITECT.
 3. USE 2 DUPLEX (EXPLOSION-PROOF) BARNES SUBMERSIBLE SITH CHOPPER PUMP, MODEL AK5500, 15 HP, 60 HZ, THREE PHASE, 1750 RPM, 4" DISCHARGE WITH 9.25" IMPELLER.
 4. OUTSIDE OF PUMP BASIN SHALL BE SEALED WITH A BITUMINOUS COATING TO ENSURE WATER TIGHTNESS.
 5. ALL JOINTS SHALL BE SEALED WITH A DOUBLE ROW OF AN ELASTOMERIC OR MASTIC-LIKE SEALANT.
 6. CONTROL PANEL TO BE WIRED TO ALTERNATE OPERATION OF PUMPS. PUMPS CONTROL SHALL PROVIDE AUTOSTART OF LAG PUMP SHOULD LEAD PUMP FAIL TO START.
 7. SEPARATE ELECTRICAL CIRCUITS SHALL BE PROVIDED FOR THE PUMPS AND ALARM SYSTEMS.
 8. AN ADDITIONAL RECEPTACLE SHALL BE PROVIDED FOR CONNECTION OF GENERATOR IN THE EVENT OF POWER OUTAGE.
 9. ALL PIPE AND FITTINGS TO BE PRODUCED BY A SINGLE MANUFACTURER AND TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND LOCAL CODE REQUIREMENTS. BURIED PIPE SHALL BE INSTALLED IN ACCORDANCE WITH ASTM F 1568. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2564. PRIMER SHALL CONFORM TO ASTM F 656.
 10. PUMP STATIONS SHALL BE EQUIPPED WITH AUDIBLE ALARM, FLASHING WARNING LIGHT AND DISCONNECT TO BE MOUNTED ADJACENT TO EACH PUMP STATION.
 11. PUMP STATION SHALL RECORD PUMP RUN TIMES AND HAVE CONTINUOUS FLOW RECORDING.
 12. AN OPERATION AND MAINTENANCE MANUAL IS REQUIRED AND SHALL BE PROVIDED TO THE OWNER/OPERATOR PURSUANT TO ENV-WQ 705.10(c).
 13. VALVE PIT SHALL BE EQUIPPED WITH A BYPASS CONNECTION TO ALLOW FOR CONNECTION OF A PUMP AROUND WET WELL FOR MAINTENANCE, REPAIRS AND CONSTRUCTION PURSUANT TO ENV-WQ 705.02(a)(2).

PUMP STATION / VALVE MANHOLE DETAIL

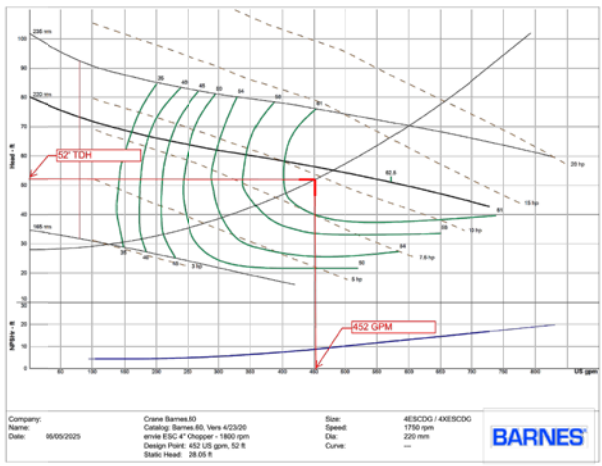
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SEWER PUMP STATION PLAN VIEW

SCALE: 1"=5'



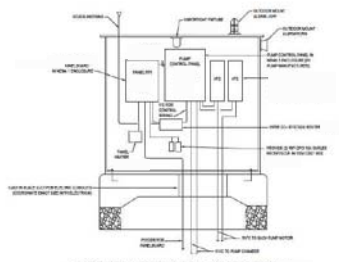
PUMP CURVE DATA
BARNES SUBMERSIBLE CHOPPER PUMP

NOT TO SCALE

Company: Crane Barnes 80
Name: Catalog: Barnes 85, Vern 423206
Date: 04/05/2025 Item: ESD-4 Chopper - 1800 rpm
Design Head: 452 US GPM, 52.8
Blank Head: 28.05 ft

Size: 463C02/1 AK5500
Speed: 1750 rpm
Dis: 220 mm
Curve: --

BARNES



ELECTRICAL EQUIPMENT ENCLOSURE SECTION

- SCALE: 1"=1'
1. ELECTRICAL EQUIPMENT ENCLOSURE SHALL BE AS SHOWN.
 2. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND LOCAL CODE REQUIREMENTS.
 3. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND LOCAL CODE REQUIREMENTS.
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SCALE: NOT TO SCALE SEPTEMBER 8, 2025



REV	DATE	DESCRIPTION	DR	CHK
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4	10/24/2025	NHF&G APPROVAL	JD	NG
3	11/3/2025	TOWN SEWER COMMENTS	JD	NG
2	9/30/2025	REVISED FOR INF&G & WISES COMMENTS	JD	NG
1	9/12/2025	UPDATE FOR SUBMITTAL	JD	NG

TFM Civil Engineers
Structural Engineers
Traffic Engineers
Land Surveyors
Landscape Architects
Scientists

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Bedford, NH 03110
Phone (603) 472-4488
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18252-02 DR FB
CK CADPLE 18252-02 COVER & DETAILS D-16



NEW HAMPSHIRE
STATE ENDANGERED

BLANDING'S TURTLE



Report Sightings: Contact Wildlife Biologist Josh Megyesy at (603) 271 – 1125 or the Wildlife Division at (603) 271 – 2461. Observation reports can be sent to RAA RP@wildlife.nh.gov. Photographs and exact locations are strongly encouraged.



- Specific Information:**
- Adults are 7 – 9 inches long.
 - Shell is highly domed with light speckles.
 - Distinct yellow throat and chin.
 - Uses variety of wetlands and moves extensively over land.
 - Turtles are frequently concealed by leaves and undergrowth and may not be easily visible.
 - Turtles are most active from April 15 – October 15.
 - During nesting season (May 15 – July 15) turtles are attracted to disturbed ground.



This species is protected under RSA 212-A and Fis 1000. Thank you for reporting any observations.

PLEASE DO NOT DISTURB OR HANDLE WILDLIFE



REPORT OBSERVATIONS Smooth Green Snake (Species of Special Concern)



Report sightings to NHFG Wildlife Division at NHFGReview@wildlife.nh.gov

Reference NHB# and project name if applicable.
Please report promptly, noting specific location and date.
Photographs strongly encouraged.



- Thin, bright green snake
- 10-20 inches long
- White or pale yellow underside
- Found in open or lightly forested habitats such as grassy fields, meadows, blueberry barrens, and forest openings
- Dead individuals turn blue



EASTERN HOGNOSE SNAKE

(New Hampshire state endangered species)

Egg laying occurs June 1 - July 15th.
Young emerge in August - September.



- Identifying traits**
- Black, gray or patterned appearance
 - Uprturned snout
 - Adults are 2-3 ft. long
 - May spread neck out or hiss
 - May play dead if they feel threatened.
 - Rarely bite – display is a defense strategy



- Habitat Use**
- Can be found in a variety of habitats throughout the season.



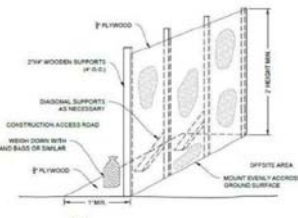
Immediately report sightings to NH Fish & Game

Melissa Winters (603-479-1129) or
Brendan Clifford (603-944-0885)

Please report promptly, noting specific location and date.
Photographs strongly encouraged.

State Laws Pertaining to this Species

RSA 212-A:7, FIS 804.05, FIS 1401.03 (a)



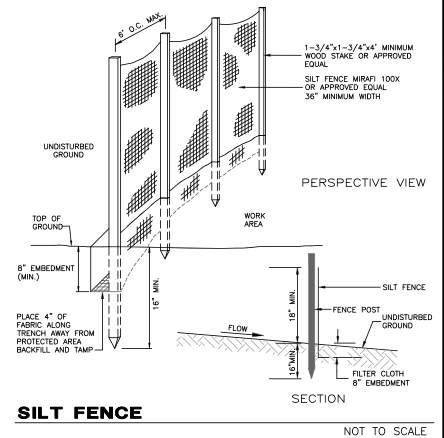
WILDLIFE EXCLUSIONARY BARRIER GATE

NOT TO SCALE

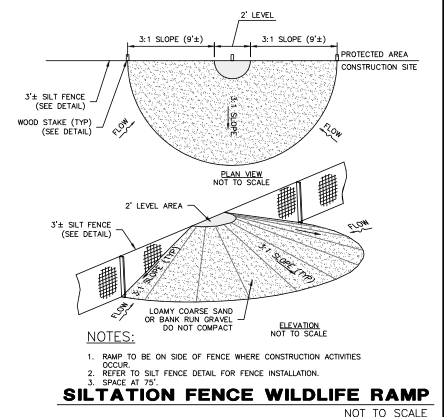


WILDLIFE RAMP

NOT TO SCALE



SILT FENCE
NOT TO SCALE



SILTATION FENCE WILDLIFE RAMP
NOT TO SCALE

New England Cottontail (New Hampshire State-Endangered)



- Adults are 15-17" in length
- Brown and gray coat that does NOT change color with the seasons.
- Black spot between the ears is sometimes visible but not always present.
- Can be mistaken for non-native Eastern cottontails.

Please report sightings to NH Fish and Game at RAARP@wildlife.nh.gov or at 603-271-2461. Photo documentation, location, and date/time of observation is helpful.

Northern Black Racer (New Hampshire state threatened species)



- Solid black with a white throat and chin
- Slender with glossy scales, 3-6 ft. long
- Hatchlings are very small and patterned



Immediately report sightings to NH Fish and Game

Melissa Winters (603-479-1129) or
Brendan Clifford (603-944-0885)

Please report promptly, noting specific location and date
Photographs strongly encouraged



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SITE DEVELOPMENT PLANS

TAX MAP 14 LOT 39-2
DETAILS

SOUTHERN NEW HAMPSHIRE GREEN ENERGY CAMPUS
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TFM

Civil Engineers
Structural Engineers
Traffic Engineers
Land Surveyors
Landscape Architects
Scientists

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	CK	CADFILE	18252-02 COVER & DETAILS	

REV	DATE	DESCRIPTION	JD	NG
5	12/19/2025	ADT & STAFF COMMENTS	JD	NG
4	10/24/2025	NHFG APPROVAL	JD	NG
3	11/3/2025	TOWN SEWER COMMENTS	JD	NG
2	9/30/2025	REVISED FOR NHFG & WINDS COMMENTS	JD	NG
1	9/12/2025	UPDATE FOR SUBMITTAL	JD	NG

Date: 2/3, 2025 - 2:26pm
F:\TFM Projects\18252 - Londonderry, NH\18252-02 PurposeEnergy - Cover & Permitting Services\18252-02_CD\PDF\PROJECT\18252-02_Cover & Details.dwg

LANDSCAPE NOTES

SITE AND SOIL PREPARATION

- WHEN CONDITIONS DETRIMENTAL TO PLANT GROWTH ARE ENCOUNTERED, SUCH AS RUBBLE FILL, ADVERSE DRAINAGE CONDITIONS, OR LEDGE, NOTIFY LANDSCAPE ARCHITECT/ENGINEER BEFORE PLANTING.
- ALL DISTURBED AREAS & PLANTING AREAS, INCLUDING AREAS TO BE SOODED, SHALL RECEIVE THE FOLLOWING SOIL PREPARATION PRIOR TO PLANTING: A MINIMUM OF 6 INCHES OF LIGHTLY COMPACTED TOPSOIL SHALL BE INSTALLED OVER THE SUBSOIL IF TOPSOIL HAS BEEN REMOVED OR IS NOT PRESENT.
- LOAM SHALL CONSIST OF LOOSE FRABLE TOPSOIL WITH NO ADMIXTURE OF REFUSE OR MATERIAL TENDING TO RESTRICT GROWTH. LOAM SHALL BE FREE FROM STONES, LUMPS, STUMPS, OR SIMILAR OBJECTS LARGER THAN TWO INCHES (2") IN GREATEST DIAMETER, SUBSOIL ROOTS, AND WEEDS. THE MINIMUM AND MAXIMUM PH VALUE SHALL BE FROM 5.5 TO 7.0. LOAM SHALL CONTAIN A MINIMUM OF TWO PERCENT (2%) AND A MAXIMUM OF FIVE PERCENT (5%) ORGANIC MATTER AS DETERMINED BY LOSS BY IGNITION. SOIL TEXTURE SHALL BE SANDY CLAY LOAM OR SANDY LOAM WITH CLAY CONTENT BETWEEN 15 AND 25%, AND A COMBINED CLAY/SILT CONTENT OF NO MORE THAN 50%. NOT MORE THAN 20% FINE PARTICLES (NO. 200 SIEVE) AS DETERMINED BY THE WASH TEST IN ACCORDANCE WITH ASTM D1140. IN NO INSTANCE SHALL MORE THAN 20% OF THAT MATERIAL PASSING THE #4 SIEVE CONSIST OF CLAY SIZE PARTICLES.
- NATURAL TOPSOIL NOT CONFORMING TO THE PARAGRAPH ABOVE OR CONTAINING EXCESSIVE AMOUNTS OF CLAY OR SAND SHALL BE TREATED BY THE CONTRACTOR TO MEET THOSE REQUIREMENTS.
- SUBMIT TEST RESULTS OBTAINED FROM SOURCE TO ENGINEER/LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL, PRIOR TO SPREADING OPERATIONS.
- APPROVAL BY THE ENGINEER/LANDSCAPE ARCHITECT TO USE THE TOPSOIL WILL DEPEND UPON THE RESULTS OF THE SOIL TESTS.
- THE BURDEN OF PROOF OF SOIL AMENDMENT INSTALLATION RESTS WITH THE CONTRACTOR. SOIL TESTS MAY BE REQUIRED AT THE CONTRACTOR'S EXPENSE IN ORDER TO CONFIRM AMENDMENT INSTALLATION.

SEEDING

- ROUGH GRADING SHALL BE COMPLETED PRIOR TO THE START OF PLANTING IN ANY GIVEN AREA OF THE PROJECT SITE.
- SEEDING SHALL BE DONE BETWEEN APRIL 1 TO JUNE 15 OR AUGUST 15 TO OCTOBER 15, EXCEPT FOR RESEEDING OF BARE SPOTS AND MAINTENANCE. ALL DISTURBED AREAS NOT COVERED BY BUILDINGS, PAVING OR AREAS THAT HAVE NOT BEEN OTHERWISE DEVELOPED SHALL BE SEEDING OR SOODED. AREAS GREATER THAN 3:1 SHALL BE PROTECTED WITH AN EROSION CONTROL BLANKET. AFTER OCTOBER 15 DISTURBED SOILS SHALL BE PROTECTED IN ACCORDANCE WITH THE WINTER CONSTRUCTION NOTES.

ACCEPTABLE SEED MIXES ARE AS FOLLOWS:

BARK SEED MIX (SHOOT TYPE 44) MIN. 135 LBS/ACRE

33% CREEPING RED FESCUE (MIN. 45 LBS/ACRE)

42% PERENNIAL RYEGRASS (MIN. 55 LBS/ACRE)

21% KENTUCKY BLUEGRASS (MIN. 30 LBS/ACRE)

4% REDTOP (MIN. 5 LBS/ACRE)

MODIFIED NEW ENGLAND CONSERVATION WILDLIFE MIX (MIN. 25 LBS/ACRE)*

CONTAINS: VIRGINIA WILD RYE (ELIMUS VIRGINICUS), LITTLE BLUESTEM (SCHIZACHYRIUM SCOPARIUM), BLUE WHEATGRASS (ANDROPOGON GERARDI), PANICLED LEAF RICK TREFOL (DESMODIUM PANICULATUM), BLUE VERVAIN (VERBENA HASTATA), BLACK EYED SUSAN (RUDBECKIA HIRTAE), HEATH ASTER (ASTER/LOGANIUM/PHYSTICUM/PILOSUM), EARLY GOLDENROD (SOLIDAGO JUNCEAE), UPLAND BENTGRASS (AGROSTIS PENNANSIS).

*SEED MIX SHALL NOT CONTAIN INDIAN GRASS (SORGHASTRUM NUTANS), RED FESCUE (FESTUCA RUBRA), SWITCH GRASS (Panicum VIRGATUM), PARTRIDGE PEA (CHAMAECRISTA FASCICULATA), OR COMMON SNEEZEWEED (HELIUM AUTUNNALE).

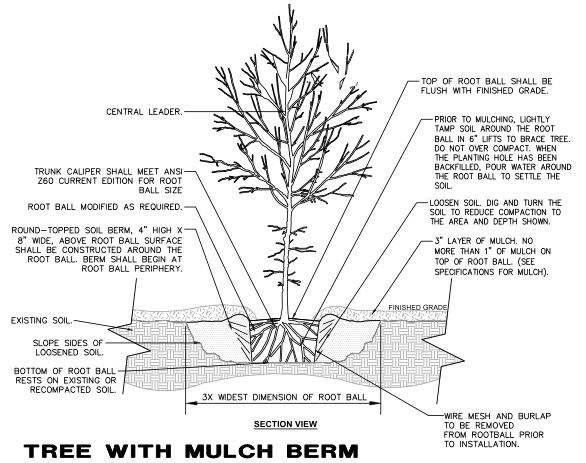
TEMPORARY LAWN MIX (MIN. 47 LBS/ACRE)

100% ANNUAL RYE

*SEED MIX SHALL NOT CONTAIN INDIAN GRASS (SORGHASTRUM NUTANS), RED FESCUE (FESTUCA RUBRA), SWITCH GRASS (Panicum VIRGATUM), PARTRIDGE PEA (CHAMAECRISTA FASCICULATA), OR COMMON SNEEZEWEED (HELIUM AUTUNNALE).

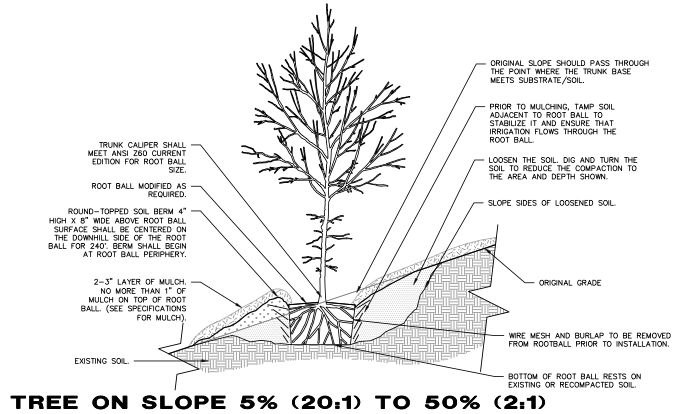
PLANTING

- EXCAVATE PITS, PLANTERS, BEDS AND TRENCHES WITH VERTICAL SIDES AND WITH BOTTOM OF EXCAVATION SMOOTHLY RAISED AT CENTER TO PROVIDE PROPER DRAINAGE. LOOSEN HARD SUBSOIL IN BOTTOM OF EXCAVATION.
- ANY LEDGE OR RUBBLE MATERIAL SHALL BE FRACTURED TO A DEPTH OF 3 FEET AND EXCAVATED TO A DEPTH OF 30 INCHES FOR TREE PROCKETS AND 18 INCHES FOR SHRUB BEDS. THIS PROCEDURE SHALL BE HANDLED BY THE SITE CONTRACTOR. SITE TOPSOIL SHALL BE DEPOSITED IN ALL EXCAVATED PROCKETS.
- DISPOSE OF SUBSOIL REMOVED FROM PLANTING EXCAVATIONS. DO NOT MIX WITH PLANTING SOIL OR USE AS BACKFILL.
- FILL EXCAVATIONS FOR TREES AND SHRUBS WITH WATER AND ALLOW TO PERCOLATE OUT BEFORE PLANTING.
- DIAM TOP OF BACKFILL TO ALLOW FOR MULCH - PLANT SAUCERS SHALL BE AS SHOWN ON DETAIL SHEETS; 6" DIAMETER FOR ALL DECIDUOUS TREES, AND FOR EVERGREEN TREES A RADIUS 2" BEYOND THE OUTER MOST BRANCHES.
- MULCH TREES, SHRUBS, PLANTERS AND BEDS. PROVIDE NOT LESS THAN 3" THICKNESS OF BARK MULCH, 3/4"-2" OF WIDTH, AND WORK INTO TOP OF BACKFILL. FINISH LEVEL WITH ADJACENT FINISH GRADES AS DIRECTED IN THE FIELD.
- TREGATOR WATERING SYSTEM OR APPROVED EQUAL SHALL BE INSTALLED FOR ALL DECIDUOUS TREES AT TIME OF PLANTING AND REMOVED BEFORE FROST. WATERING RATE TO BE APPLIED PER MANUFACTURER'S SPECIFICATIONS.
- ALL PLANT MATERIALS SHALL HAVE DEAD OR DAMAGED BRANCHES REMOVED AT TIME OF PLANTING. ALL TAGS AND IDENTIFIERS SHALL BE REMOVED AT THIS TIME.
- THE CONTRACTOR SHALL REQUEST A FINAL OBSERVATION BY THE OWNER'S REPRESENTATIVE UPON COMPLETION OF INSTALLATION.
- AVOID OR MINIMIZE THE USE OF FERTILIZERS IN UPLAND AREAS OR TRANSITION ZONES. IF FERTILIZERS ARE NECESSARY, USE ORGANIC VERSUS SYNTHETIC FERTILIZERS. SYNTHETIC OPTIONS SHOULD BE AVOIDED, HOWEVER, IF CHOSEN, THEY SHOULD BE CONTROLLED-RELEASE/SLOW-RELEASE AND AT LOW STRENGTHS.



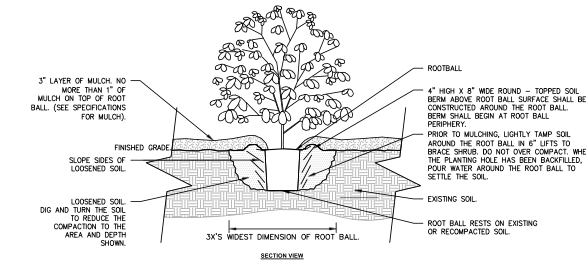
TREE WITH MULCH BERM

NOT TO SCALE



TREE ON SLOPE 5% (20:1) TO 50% (2:1)

NOT TO SCALE



SHRUB PLANTING

NOT TO SCALE

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TAX MAP 14 LOT 39-2
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5	12/18/2025	ADT & STAFF COMMENTS	JD	ND
4	10/24/2025	NHAG APPROVAL	JD	ND
3	11/3/2025	TOWN SEWER COMMENTS	JD	ND
2	9/23/2025	REVISED FOR INVOICES & INSET COMMENTS	JD	ND
1	9/12/2025	UPDATE FOR SUBMITTAL	JD	ND
REV	DATE	DESCRIPTION	BY	CHK

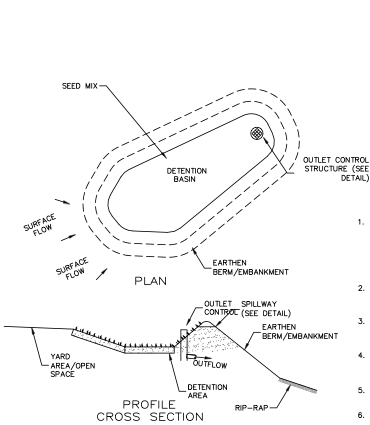
TFM Civil Engineers
Structural Engineers
Traffic Engineers
Land Surveyors
Landscape Architects
Scientists

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18252-02 DR FB
CK CADFILE 18252-02 COVER & DETAILS D-18

Date: 2/20/2025 2:25pm
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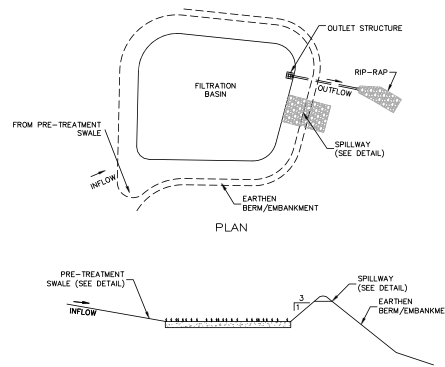
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- THE INSTALLER SHALL NOT ALLOW ANY VEHICULAR OR CONSTRUCTION EQUIPMENT TRAVEL TO OCCUR ACROSS THE PROPOSED BASIN AREA AT ANY TIME EXCEPT DURING EXCAVATION OF TOPSOIL, SUBSOIL, AND OTHER MATERIALS NOT SUITABLE FOR BED BOTTOM CONDITIONS.
- CAUTION SHOULD BE EXERCISED DURING SITE PREPARATION TO AVOID COMPACTION OF THE INFILTRATIVE SURFACE.
- SEED MIX**
NEW ENGLAND ROADSIDE MATRIX WET MEADOW SEED MIX (MIN. 35 LBS/ACRE)
- DO NOT DISCHARGE SEDIMENT-LADEN WATERS FROM CONSTRUCTION ACTIVITIES (RUNOFF, WATER FROM EXCAVATIONS) TO THE BASIN.
- VEGETATION SHOULD BE ESTABLISHED IMMEDIATELY.
- DO NOT PLACE SYSTEMS INTO SERVICE UNTIL THE CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED.

DETENTION BASIN

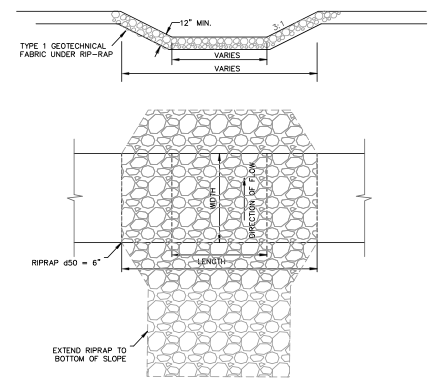
NOT TO SCALE



- FILTRATION BASIN NOTES**
- THE INSTALLER SHALL NOT ALLOW ANY VEHICULAR OR CONSTRUCTION EQUIPMENT TRAVEL TO OCCUR ACROSS THE PROPOSED BASIN AREA AT ANY TIME EXCEPT DURING EXCAVATION OF TOPSOIL, SUBSOIL AND OTHER MATERIALS NOT SUITABLE FOR BED BOTTOM CONDITIONS.
 - CAUTION SHOULD BE EXERCISED DURING SITE PREPARATION TO AVOID COMPACTION OF THE INFILTRATIVE SURFACE.
 - SEED MIX**
NEW ENGLAND ROADSIDE MATRIX WET MEADOW SEED MIX (MIN. 35 LBS/ACRE)
 - FILTER MEDIA SOIL SAMPLE TO BE PROVIDED TO THE ENGINEER PRIOR TO PLACEMENT. ON SITE MIXING OF MANUFACTURED SOIL MAY BE ACCEPTABLE PENDING ENGINEER APPROVAL.
 - DO NOT DISCHARGE SEDIMENT-LADEN WATERS FROM CONSTRUCTION ACTIVITIES (RUNOFF, WATER FROM EXCAVATIONS) TO THE BASIN.
 - AFTER THE BASIN IS EXCAVATED TO THE FINAL DESIGN ELEVATION THE FLOOR SHOULD BE DEEPLY TILLED WITH A ROTARY TILLER OR DISC HARROW TO RESTORE INFILTRATION RATES, FOLLOWED BY A PASS WITH A LEVELING DRAG.
 - VEGETATION SHOULD BE ESTABLISHED IMMEDIATELY.
 - DO NOT PLACE FILTRATION SYSTEMS INTO SERVICE UNTIL THE CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED.
 - FILTRATION MEDIA SHALL BE INSTALLED ALONG INTERIOR SIDE SLOPES TO ELEVATION EQUAL TO OUTLET STRUCTURE RIM OR WEIR ELEVATION, WHICHEVER IS LOWER.
 - FILL TO BRING EMBANKMENT AREAS TO GRADE SHALL BE EXISTING SOE MATERIALS OR IMPORTED MATERIAL CONSISTENT WITH THE GEOTECHNICAL REPORT RECOMMENDATIONS FOR COMMON FILL (SEE NOTE 21 AND 22 ON SHEET C-02).

FILTRATION BASIN

NOT TO SCALE



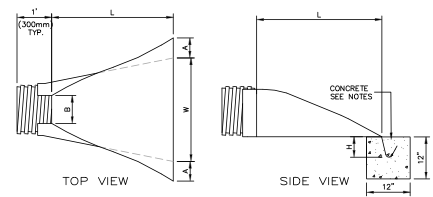
WEIR	TOP OF BASIN BERM EL.	WEIR INV.	LENGTH	WIDTH
SEDIMENT FOREBAY #1	278.0	276.40	10.4'	15.6'
SEDIMENT FOREBAY #2	280.0	278.90	21.0'	9.0'

BROAD CRESTED WEIR

FROM FOREBAYS NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

- PREPARE BEDDING:**
BACKFILL MATERIAL AROUND THE END SECTION MAY BE THE SAME AS THE MATERIAL AROUND THE PIPE. PLACE A FEW INCHES OF BACKFILL MATERIAL IN THE TRENCH OR DITCH WHERE THE END SECTION WILL BE PLACED. COMPACT AND CONTOUR THIS BEDDING MATERIAL TO GENERALLY MATCH THE END SECTION. EXCAVATE AN AREA IN THE BEDDING WHERE THE TROUGH WILL BE PLACED SO THAT THE END SECTION WILL BE LEVEL WITH THE BOTTOM OF THE TRENCH OR DITCH IN THE FINISHED INSTALLATION.
- PLACE END SECTION OF PIPE:**
OPEN THE END SECTION COLLAR AND SEAT IT OVER THE TWO PIPE CONNECTIONS. ONCE THE END SECTION IS POSITIONED, CHECK TO MAKE SURE THAT THE INVERT OF THE END SECTION MATCHES THE INVERT OF THE PIPE AND THAT THE END SECTION IS LEVEL WITH THE TRENCH OR DITCH BOTTOM.
- SECURE THE END SECTION:**
SLIP THE STAINLESS STEEL ROD THROUGH THE PRE-DRILLED HOLES AT THE TOP OF THE COLLAR. THE ROD SHOULD BE BETWEEN THE CROWNS OF THE TWO PIPE CONNECTIONS. PLACE A WASHER ON EITHER END OF THE ROD. PLACE A NUT ON EITHER END OF THE ROD AND TIGHTEN WITH A WRENCH.
- SECURE THE TOE TROUGH:**
TO PREVENT WASHOUTS FROM HIGH VELOCITY FLOW, IT IS RECOMMENDED THAT THE TROUGH BE SECURED WITH CONCRETE. POOR CONCRETE IN THE TROUGH UP TO THE LEVEL OF THE TRENCH OR DITCH BOTTOM AND ALONG THE ENTIRE LENGTH OF THE TROUGH.
- FINISH BACKFILL:**
SHOVEL BACKFILL AROUND THE END SECTION IN 6 TO 9 INCH LAYERS EQUALLY ON BOTH SIDES, KNIFING IT TO ELIMINATE VOIDS. TAMP WITH A SMALL-FACED COMPACTOR OR OTHER EQUIPMENT SUITABLE FOR SMALL AREAS. CONTINUE PLACING, KNIFING, AND COMPACTING BACKFILL LAYERS TO THE TOP OF THE END SECTION TO SEAT IT WELL INTO THE BACKFILL.



PIPE DIAMETER	PART NO.	DIMENSIONS, INCHES (mm)							
		A, #1 (25)	B MAX	H, #1 (25)	L, #1/2 (13)	W, #2 (50)			
12", 15" (300,375)	1210 NP	6.5 (165)	10 (254)	6.5 (165)	25 (635)	29 (736)			
18" (450)	1810 NP	7.5 (190)	15 (380)	6.5 (166)	32 (812)	35 (890)			
24" (600)	2410 NP	7.5 (190)	18 (450)	6.5 (165)	36 (900)	45 (1140)			
30" (750)	3010 NP	10.5 (266)	NA	7.0 (178)	53 (1346)	66 (1725)			
36" (900)	3610 NP	10.5 (266)	NA	7.0 (178)	53 (1346)	68 (1725)			

FLARED END SECTION
HIGH DENSITY POLYETHYLENE (HDPE)

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1	9/12/2023	UPDATE FOR SUBMITTAL	JD	NG
			DP	CK

SITE DEVELOPMENT PLANS
 TAX MAP 14 LOT 39-2
DETAILS
SOUTHERN NEW HAMPSHIRE GREEN ENERGY CAMPUS
25 NORTH WENTWORTH AVE.
LONDONDERRY, NH 03053
 OWNED BY
PURPOSEENERGY-LONDONDERRY, LLC
25 PELHAM ROAD SUITE 102, SALEM, NH 03079
 SCALE: NOT TO SCALE SEPTEMBER 8, 2025

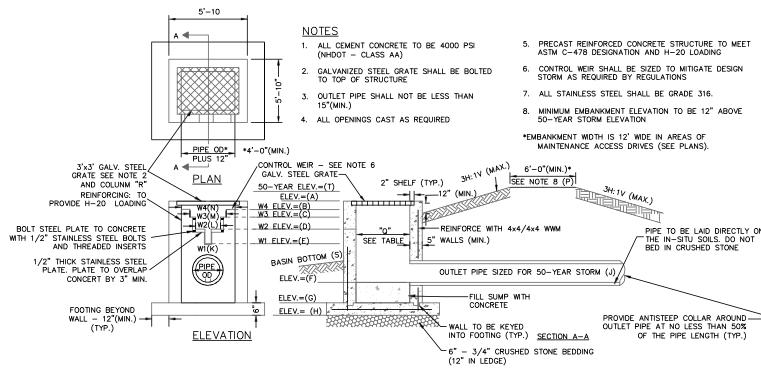
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18252-02	DR	FB	-	D-21
	CK	CADFILE	18252-02 COVER & DETAILS	

RIP-RAP GRADATION

STONE SIZE	% FINER BY WEIGHT				
	D ₅₀ = 6"	D ₅₀ = 9"	D ₅₀ = 12"	D ₅₀ = 18"	D ₅₀ = 24"
2"	0-15%	0%	-	-	-
4"	20-35%	10-20%	0-10%	-	-
6"	35-50%	25-35%	10-25%	0-10%	-
8"	50-65%	30-50%	20-30%	10-20%	0-10%
10"	60-80%	40-60%	30-40%	15-30%	5-15%
12"	-	-	-	-	-
15"	-	70-100%	45-60%	25-40%	20-30%
20"	-	-	70-100%	40-60%	30-45%
30"	-	-	-	70-100%	50-70%
40"	-	-	-	-	70-100%

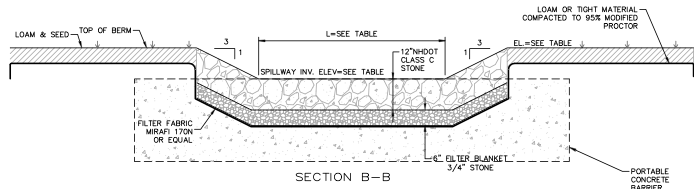
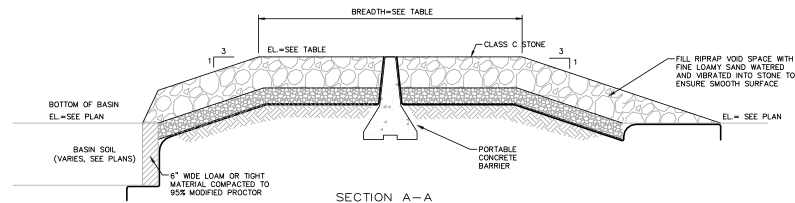
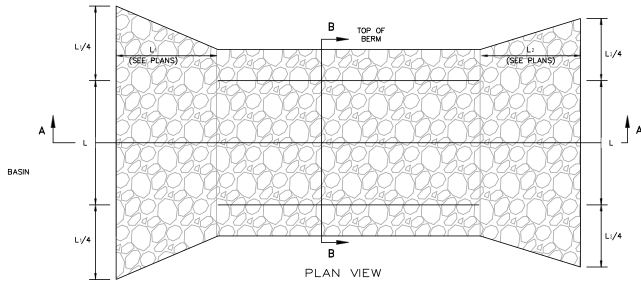


ELEVATIONS/DIMENSIONS

	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	FREEBOARD (A-T)	
OUTLET STRUCTURE																				
FILTRATION BASIN #1	277.30	286.65	285.95	274.55	273.95	268.00	265.50	265.00	15'	1.2'	2.4'	6.0'	14.4'	276.00	4.00+4.00'	4.50+4.50'	273.00	277.00	1.50'	
FILTRATION BASIN #2	278.00	-	278.65	278.35	277.75	272.00	271.40	271.00	15'	1.2'	6.0'	30.0'	-	280.00	4.00+4.00'	4.50+4.50'	277.00	278.97	1.03'	
RETENTION BASIN #1	294.50	-	-	294.00	290.00	289.50	289.00	18'	9.0'	-	-	-	-	296.00	5.00+5.00'	5.50+5.50'	294.00	294.50	1.50'	

OUTLET STRUCTURE AT STORMWATER BASINS

NOT TO SCALE

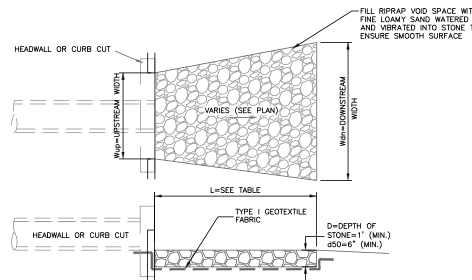


SYSTEM	TOP OF BASIN BERM EL.	SPILLWAY INV.	LENGTH (L)	BREADTH
FILTRATION BASIN #1	278.0	277.5	6'	9'
FILTRATION BASIN #2	280.0	279.5	6'	9'
DETENTION BASIN #1	296.0	295.5	3'	5'

SPILLWAY
FROM BASINS

NOT TO SCALE

OUTLET	Do (ft.)	Q25 (cfs)	Tw (ft.)	La (ft.)	Wup (ft.)	Wdn (ft.)	d50 (in.)
Headwall1 (DMH11)	2.00	10.3	1.8	24.9	6.0	16.0	6.0
Headwall2 (CB15)	1.25	0.1	0.1	8.9	3.8	12.6	6.0
Headwall3 (OS1)	1.25	2.3	0.1	11.7	3.8	15.5	6.0
Headwall4 (OS2)	1.25	0.3	0.1	9.1	3.8	12.9	6.0
Headwall5 (DM-6)	2.50	16.9	2.0	30.3	7.5	19.6	6.0

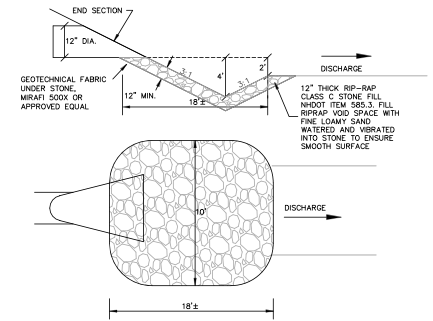


CONSTRUCTION SPECIFICATIONS:

1. THE SUBGRADE FOR THE GEOTEXTILE FABRIC AND RIP-RAP SHALL BE PREPARED TO THE LINES AND GRADES SHOWN ON THE PLANS.
2. THE ROCK USED FOR RIP-RAP SHALL CONFORM TO THE SPECIFIED GRADATION (050=6" (MIN)).
3. GEOTEXTILE FABRICS SHALL BE PROTECTED FROM PUNCTURE OR TEARING DURING THE PLACEMENT OF THE ROCK RIP-RAP. DAMAGED AREAS IN THE FABRIC SHALL BE REPAIRED BY PLACING A PIECE OF FABRIC OVER THE DAMAGED AREA OR BY COMPLETE REPLACEMENT OF THE FABRIC. ALL OVERLAPS REQUIRED FOR REPAIRS OR JOINING TWO PIECES OF FABRIC SHALL BE A MINIMUM OF 12 INCHES.
4. STONE FOR THE RIP-RAP MAY BE PLACED BY A MANNER AND SHALL BE CONSTRUCTED TO THE FULL LAYER THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO PREVENT SEGREGATION OF THE STONE SIZES.

OUTLET APRON

NOT TO SCALE



RIP RAP PLUNGE POOL

NOT TO SCALE

SITE DEVELOPMENT PLANS

TAX MAP 14 LOT 39-2

DETAILS

**SOUTHERN NEW HAMPSHIRE GREEN ENERGY CAMPUS
25 NORTH WENTWORTH AVE.
LONDONDERRY, NH 03053**

PREPARED FOR

**PURPOSEENERGY-LONDONDERRY, LLC
25 PELHAM ROAD SUITE 102, SALEM, NH 03079**

SCALE: NOT TO SCALE

SEPTEMBER 8, 2025

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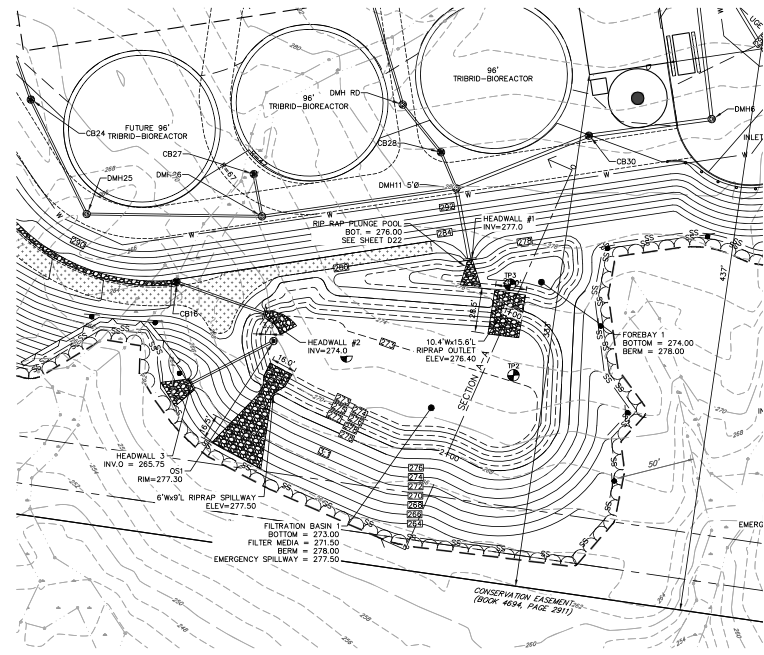


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REV	DAE	DESCRIPTION	JD	CK

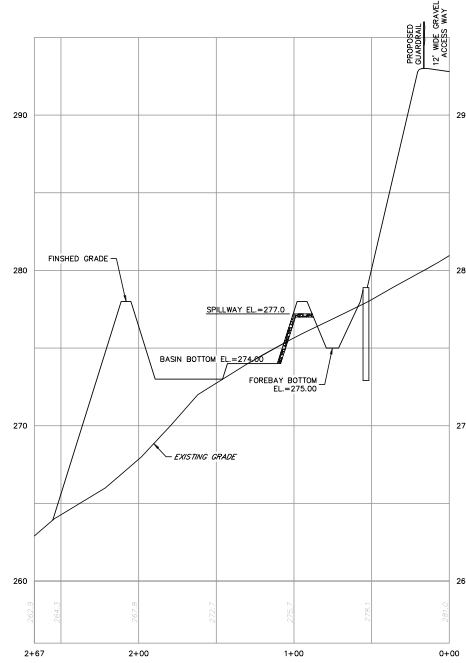
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1	18252-02	DR	FB	-
2		CK	CADFILE	18252-02 COVER & DETAILS
				D-22

Date: 2/2/2025 - 2:25pm
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FILTRATION BASIN #1 PLAN VIEW
 SCALE: 1"=40'



FILTRATION BASIN #1 SECTION A-A
 SCALE: 1"=40' H₁T₁"=4' V

GRADING & DRAINAGE NOTES

- THE CONTRACTOR SHALL ENSURE THAT ALL WORK IS PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF NHDES ENV-WD 1500 AS APPLICABLE.
- THE CONTRACTOR SHALL PREPARE, MAINTAIN, AND EXECUTE A S.W.P.P. IN ACCORDANCE WITH EPA REGULATIONS AND THE CONSTRUCTION GENERAL PERMIT.
- THE CONTRACTOR SHALL COORDINATE WITH THE OWNER TO SUBMIT AN #NOI AT LEAST 14 DAYS IN ADVANCE OF ANY EARTHWORK ACTIVITIES AT THE SITE.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK THE ACCURACY OF THE TOPOGRAPHY AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO ANY EARTHWORK BEING PERFORMED ON THE SITE. NO CLAIM FOR EXTRA WORK WILL BE CONSIDERED FOR PAYMENT AFTER EARTHWORK HAS COMMENCED.
- THE CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT FOR INFORMATION ABOUT SOIL AND GROUNDWATER CONDITIONS. THE CONTRACTOR SHALL FOLLOW THE GEOTECHNICAL ENGINEER'S RECOMMENDED METHODS TO ADDRESS ANY SOIL AND GROUNDWATER ISSUES THAT ARE FOUND ON SITE, INCLUDING AND NOT LIMITED TO: DETERMINING METHODS, PERMETER DRAINS AND THE INTO STORMWATER MANAGEMENT SYSTEM, ETC.
- COORDINATE WITH GEOTECHNICAL REPORT FOR SITE PREPARATION AND OTHER PERTINENT INFORMATION.
- COORDINATE WITH ELECTRICAL DESIGN PLANS FOR DETAILED DRAINING AT ELECTRICAL STRUCTURES, AND SIZE AND LOCATION OF ALL ELECTRICAL SERVICES.
- LIMITS OF WORK ARE SHOWN AS APPROXIMATE. THE CONTRACTOR SHALL COORDINATE ALL WORK TO PROVIDE SMOOTH TRANSITIONS. THIS INCLUDES GRADING, RAMP, ROADS, AND ALIGNMENTS.
- THE CONTRACTOR SHALL PROVIDE A FINISH PAVEMENT SURFACE FREE OF LOW SPOTS AND FORDING AREAS. CRITICAL AREAS INCLUDE BUILDING ENTRANCE, RAMPS, AND LOADING AREAS.
- THE SITE SHALL BE GRADED SO ALL FINISHED PAVEMENT HAS POSITIVE DRAINAGE AND SHALL NOT POND WATER DEEPER THAN 1/4" FOR A PERIOD OF MORE THAN 15 MINUTES AFTER FLOODING.
- ALL ELEVATIONS SHOWN AT CURB ARE TO THE BOTTOM OF CURB UNLESS OTHERWISE NOTED. CURBS HAVE A 6" REVEAL UNLESS OTHERWISE NOTED.
- ALL SIDEWALK AND OTHER CURB REVEALS SHALL BE 6" WITH A TOLERANCE OF PLUS OR MINUS 3/8". WHERE SIDEWALK IS TO BE FLUSH, THE PAVEMENT REVEAL SHALL BE 1/4" WITH A TOLERANCE OF 1/8".
- THE FINISHED GRADE AT BOTTOM OF ALL ACCESSIBLE RAMPS SHALL BE FLUSH WITH PAVEMENT WITH A TOLERANCE OF PLUS OR MINUS 1/4".
- ADJUST ALL MANHOLES, CATCH BASINS, CURB BOXES, ETC. WITHIN LIMITS OF WORK TO FINISH GRADE PRIOR TO INSTALLATION OF FINISHED PAVEMENT.
- ROAD AND DRAINAGE CONSTRUCTION SHALL CONFORM TO THE TYPICAL SECTIONS AND DETAILS SHOWN ON THE PLANS AND SHALL MEET LOCAL STANDARDS AND THE REQUIREMENTS OF THE LATEST NHDOT STANDARD SPECIFICATIONS FOR ROADS AND BRIDGE CONSTRUCTION AND THE NHDOT STANDARD STRUCTURE DRAWINGS UNLESS OTHERWISE NOTED.
- STORMWATER DRAINAGE SYSTEM SHALL BE CONSTRUCTED TO LINE AND GRADE AS SHOWN ON THE PLANS. CONSTRUCTION METHODS SHALL CONFORM TO NHDOT STANDARD SPECIFICATIONS. SECTION 603 CATCH BASINS AND DRAIN MANHOLES SHALL CONFORM TO SECTION 604. ALL CATCH BASIN GRATES SHALL BE TYPE B AND CONFORM TO NHDOT STANDARDS AND SPECIFICATIONS UNLESS OTHERWISE NOTED.
- NO FILL SHALL BE PLACED IN ANY WETLAND AREA.
- ALL EXCAVATIONS SHALL BE THOROUGHLY SECURED ON A DAILY BASIS BY THE CONTRACTOR AT THE COMPLETION OF CONSTRUCTION OPERATIONS IN THE IMMEDIATE AREA.
- ALL DISTURBED AREAS NOT TO BE PAVED OR OTHERWISE TREATED SHALL RECEIVE 6" LOAM, SEED, FERTILIZER, AND MULCH.
- DENSITY REQUIREMENTS:

MINIMUM DENSITY	LOCATION
95%	BELOW PAVED OR CONCRETE AREAS
95%	TRENCH BEDDING MATERIAL AND SAND BLANKET BACKFILL
90%	BELOW LOAM AND SEED AREA
90%	EMBANKMENTS/PERMETER SLOPES ASSOCIATED WITH STORMWATER MANAGEMENT AREAS
70%	STORMWATER MANAGEMENT AREAS BASIN BOTTOMS, INCLUDING SUBGRADE
- *ALL PERCENTAGES OF COMPACTION SHALL BE OF THE MAXIMUM DRY DENSITY AT THE OPTIMUM MOISTURE CONTENT AS DETERMINED AND CONTROLLED IN ACCORDANCE WITH ASTM D-1557. METHOD C FIELD DENSITY TESTS SHALL BE MADE IN ACCORDANCE WITH ASTM D-1556 OR ASTM D-6936.
- COMMON FILL GRADATION REQUIREMENTS PER GEOTECHNICAL REPORT SPECIFICATIONS

SEWE SIZE	PERCENT FINER BY WEIGHT
8 INCH	100
NO. 4	25 - 70
NO.200	0 - 12 (TOTAL)
- SMALES ARE TO BE VEGETATED OR STONE LINED PRIOR TO DIRECTING RUNOFF TO THEM.

SITE DEVELOPMENT PLANS

TAX MAP 14 LOT 39-2
DETAILS
 SOUTHERN NEW HAMPSHIRE GREEN ENERGY CAMPUS
 25 NORTH WENTWORTH AVE.
 LONDONDERRY, NH 03053
 OWNED BY
 PREPARED FOR
 PURPOSEENERGY-LONDONDERRY, LLC
 25 PELHAM ROAD SUITE 102, SALEM, NH 03079

SCALE: NOT TO SCALE SEPTEMBER 8, 2025

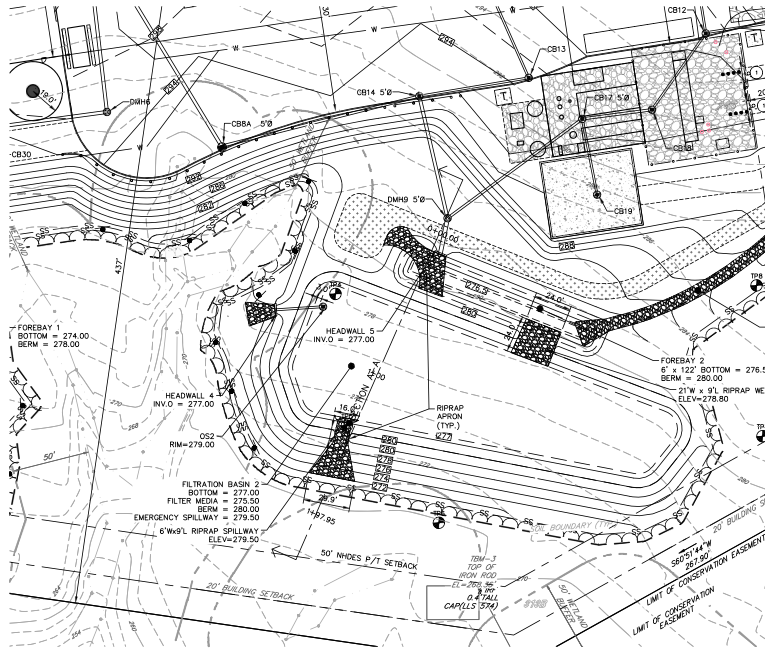


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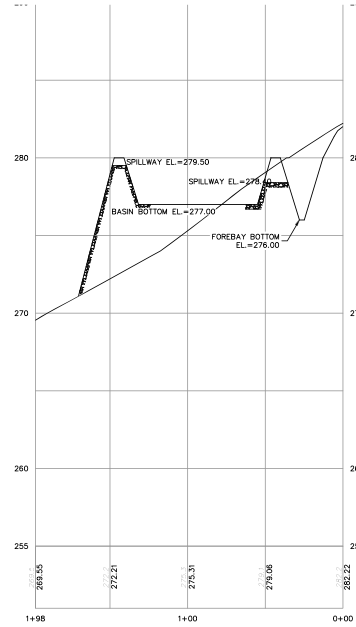
	Civil Engineers Structural Engineers Traffic Engineers Land Surveyors Landscape Architects Scientists	48 Constitution Drive Bedford, NH 03110 Phone (603) 472-4488 Fax (603) 472-9747 www.tfmoran.com
	18252-02	DR FB CK CADFILE

GRADING & DRAINAGE NOTES

1. SEE NOTES ON SHEET D-23.



FILTRATION BASIN #2 PLAN VIEW
SCALE: 1"=40'



FILTRATION BASIN #2 SECTION A-A
SCALE: 1"=40' H/1"=4' V

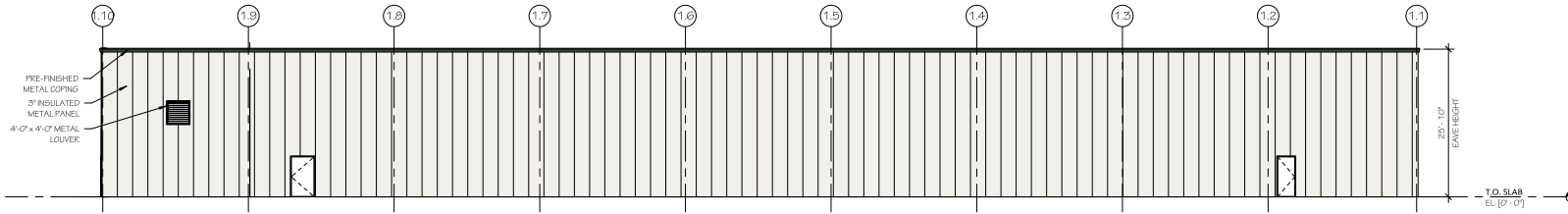
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 25 PELHAM ROAD SUITE 102, SALEM, NH 03079
SCALE: NOT TO SCALE **SEPTEMBER 8, 2025**

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2	9/30/2025	REVISED FOR NH&G & TOWN COMMENTS	JD	NG
1	9/12/2025	UPDATE FOR SUBMITTAL	JD	NG

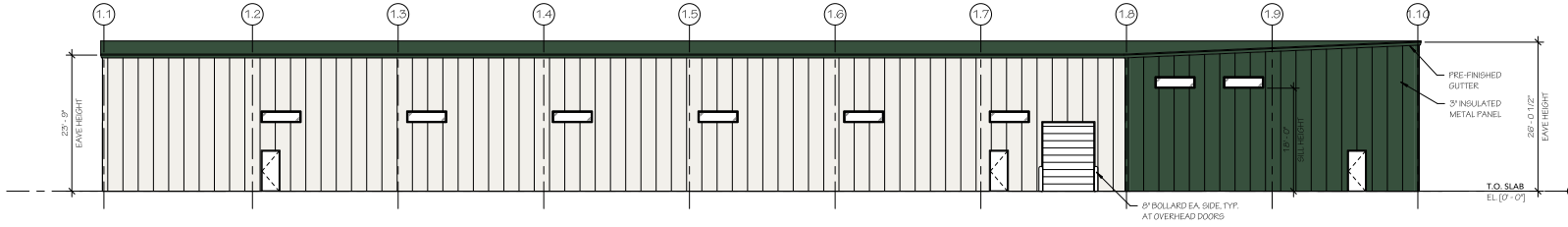
	Civil Engineers Structural Engineers Traffic Engineers Land Surveyors Landscape Architects Scientists	48 Constitution Drive Bedford, NH 03110 Phone (603) 472-4488 Fax (603) 472-9747 www.tfmoran.com
	18252-02	FB CADFILE 18252-02 COVER & DETAILS



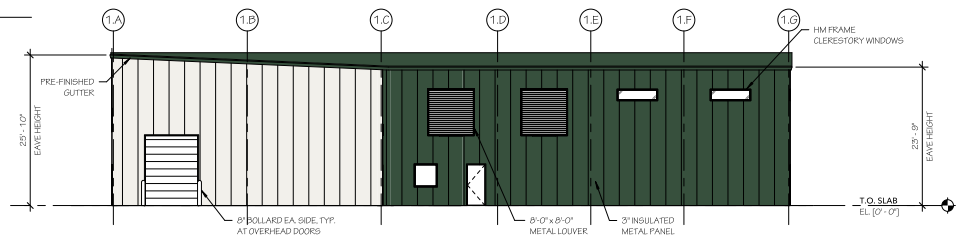
4 NORTH ELEVATION
3/32" = 1'-0" PROCESS BUILDING



3 EAST ELEVATION
3/32" = 1'-0" PROCESS BUILDING



2 SOUTH ELEVATION
3/32" = 1'-0" DEPACK BUILDING



1 WEST ELEVATION
3/32" = 1'-0" PROCESS BUILDING

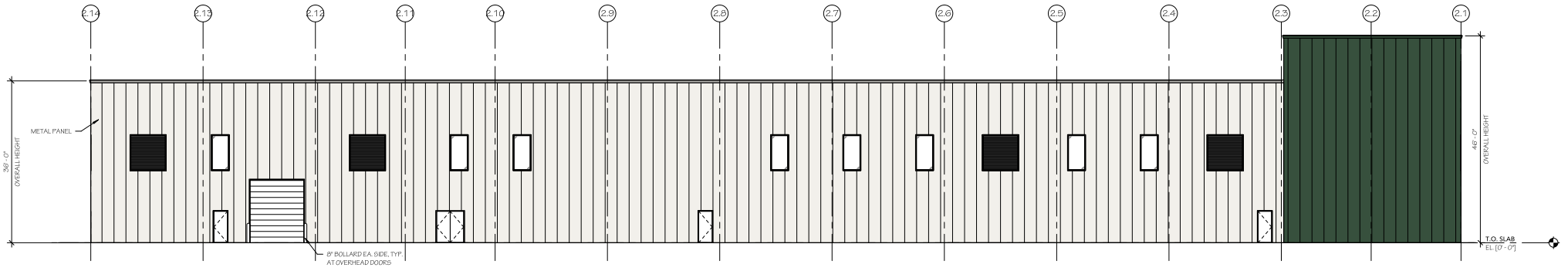
REV	DATE	DESCRIPTION	DR	CK
1	12/09/25	REVISION #1	JG	MJ

SITE DEVELOPMENT PLANS
TAX MAP 14 LOT 39-1
BUILDING ELEVATIONS
SOUTHERN NEW HAMPSHIRE GREEN ENERGY CAMPUS
25 NORTH WENTWORTH AVE.
LONDONDERRY, NH 03053
OWNED BY
PREPARED FOR
PURPOSE ENERGY-LONDONDERRY, LLC
25 PELHAM ROAD SUITE 102, SALEM, NH 03079
3/32" = 1'-0" SEPTEMBER 8, 2025

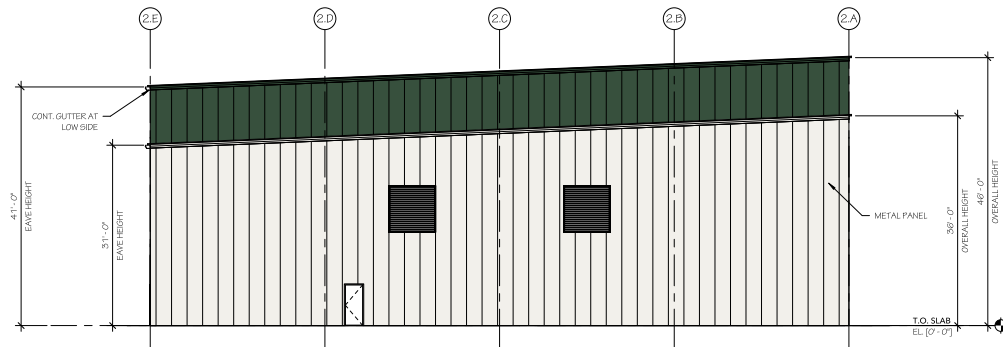
 285 SOUTH OHIO STREET
P.O. BOX 3
MINSTER, OHIO 45865
(419) 628-3364
www.baumerconstruction.com

DR	JG	SCALE	3/32" = 1'-0"	A-1
CK	MJ	DATE	12/08/2025	

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2 NORTH ELEVATION
3/32" = 1'-0" DEPACK BUILDING



1 EAST ELEVATION
3/32" = 1'-0" DEPACK BUILDING

SITE DEVELOPMENT PLANS

TAXMAP 14 LOT 39-1
BUILDING ELEVATIONS

SOUTHERN NEW HAMPSHIRE GREEN ENERGY CAMPUS
25 NORTH WENTWORTH AVE.
LONDONDERRY, NH 03053

OWNED BY:
PREPARED FOR:
PURPOSEENERGY-LONDONDERRY, LLC
25 PELHAM ROAD SUITE 102, SALEM, NH 03079

3/32" = 1'-0" SEPTEMBER 8, 2025

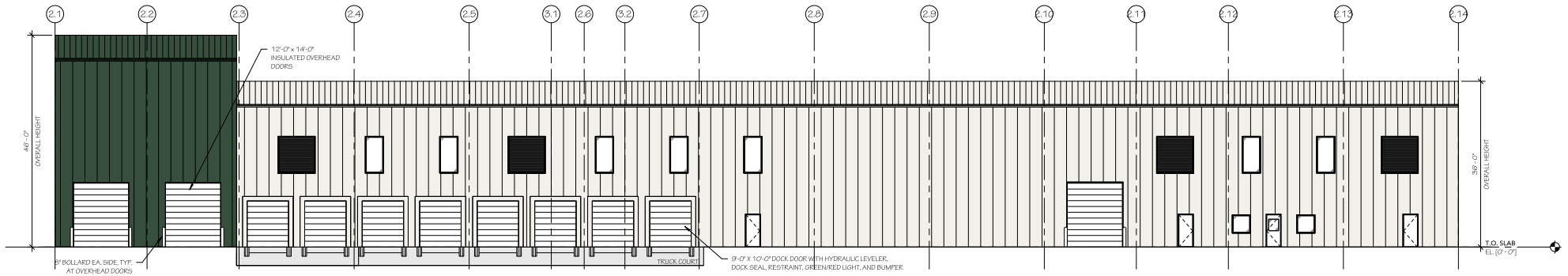
	285 SOUTH OHIO STREET P.O. BOX 3 MINSTER, OHIO 45865 (419) 628-3364 www.baumerconstruction.com	A-2
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REV	DATE	DESCRIPTION	DR	CK
1	12/09/25	REVISION #1	JG	MJ

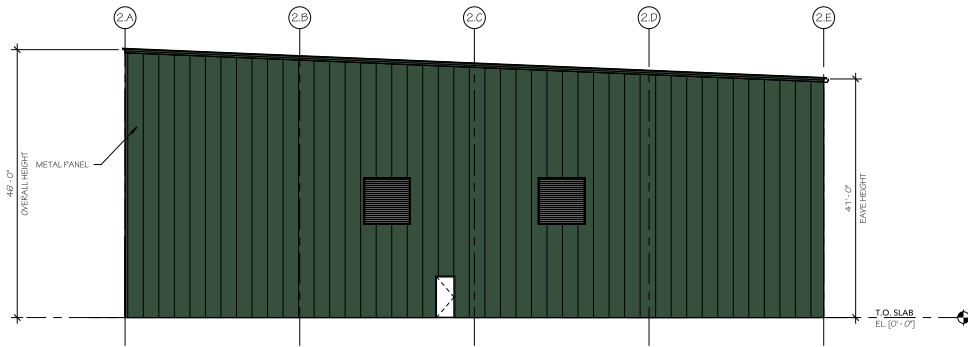
DR	JG	SCALE	3/32" = 1'-0"	
CK	MJ	DATE	12/08/2025	

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12/10/2025, 14:53:16



4 SOUTH ELEVATION
3/32" = 1'-0" DEPACK BUILDING



3 WEST ELEVATION
3/32" = 1'-0" DEPACK BUILDING

SITE DEVELOPMENT PLANS

TAXMAP 14 LOT 39-1
BUILDING ELEVATIONS

SOUTHERN NEW HAMPSHIRE GREEN ENERGY CAMPUS
25 NORTH WENTWORTH AVE.
LONDONDERRY, NH 03053

OWNED BY:
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PURPOSE ENERGY-LONDONDERRY, LLC
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3/32" = 1'-0" SEPTEMBER 8, 2025

	285 SOUTH OHIO STREET P.O. BOX 3 MINSTER, OHIO 45865 (419) 628-3364 www.baumerconstruction.com	A-3
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REV	DATE	DESCRIPTION	DR	CK
1	12/09/25	REVISION #1	JG	MJ

25.00	DR	JG	SCALE	3/32" = 1'-0"				
	CK	MJ	DATE	12/08/2025				

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