



December 18, 2023

Maine Department of Environmental Protection
Bureau of Land Resources

**RE: Solar Decommissioning Application for ME Gorham Daigle CSG- Solar Project
Dyer Road, Gorham, ME**

To Whom It May Concern,

On behalf of ME Gorham Daigle CSG, Novel Energy Solutions LLC is pleased to file the enclosed Solar Decommissioning application in accordance with the Solar Decommissioning Law to the Maine Department of Environmental Protection (MDEP) for the proposed ME Gorham Daigle CSG to be located in Gorham, Maine. As described in the enclosed application, the proposed Project is an approximately 5-acre solar facility.

The following documents are enclosed:

- Attachment 1: Solar Decommissioning Application Form
- Attachment 2: Decommissioning Plan
 - USGS Topo Map and Overall Site Plan
 - Letter of Corporate Standing
- Attachment 3: Decommissioning Application Payment Confirmation

If Department staff have any questions as you conduct your review, please do not hesitate to contact me at 612-499-5325 or via email at ben.hansen@novelenergy.biz.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Ben Hansen".

Benjamin Hansen
Environmental Specialist
CC: environmental@novelenergy.biz

The logo for Novel Energy Solutions is a large, light blue watermark centered on the page. It features a thick, curved line that starts on the left, arches over the top, and ends on the right, forming a partial circle. Inside this arch, the word "Novel" is written in a light blue, sans-serif font. The letter 'o' is a simple circle, while the 'e' is a stylized swirl that extends downwards and to the right, partially overlapping the bottom of the arch.

Attachment One - Solar Decommissioning Application Form

Prepared By:

Novel Energy Solutions LLC

2303 Wycliff Street | Suite 300 | St. Paul, MN 55114 | Phone 612.345.7188 | <https://www.novelenergysolutions.com>

DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOLAR DECOMMISSIONING APPLICATION FORM

APPLICANT INFORMATION (Owner)		AGENT INFORMATION (If Applying on Behalf of Owner)	
Name:		Name:	
Mailing Address:		Mailing Address:	
Mailing Address:		Mailing Address:	
Town/State/Zip:		Town/State/Zip:	
Daytime Phone #:	Ext:	Daytime Phone #:	Ext:
Email Address:		Email Address:	
PROJECT INFORMATION			
Project previously permitted by DEP (if yes, see row below) <input type="checkbox"/> Yes <input type="checkbox"/> No	Project requires other DEP permits not yet issued (e.g., Site Law, NRPA, Stormwater) <input type="checkbox"/> Yes <input type="checkbox"/> No	Farmland: Is any portion of project on farmland? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Type of existing permit and permit number, if previously permitted. (For permit with L-number, include first group of numbers after the letter L):			
License Number: L- _____		<input type="checkbox"/> Site Law	<input type="checkbox"/> NRPA
PBR Number: _____		<input type="checkbox"/> PBR (NRPA / Stormwater)	
Project Town:	Acres Occupied by Project:	Tax Map and Lot Number:	
Brief Project Description:			
Project Location & Brief Directions to Site:			

NOTE: Municipal permits also may be required. Contact your local code enforcement office for information. Federal permits may be required for stream crossings and for projects involving wetland fill. Contact the Army Corps of Engineers at the Maine Project Office for information.

THIS APPLICATION CANNOT BE ACCEPTED FOR PROCESSING WITHOUT THE NECESSARY ATTACHMENTS & FEE

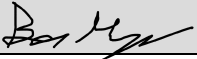
- Attach a decommissioning plan** consistent with the requirements of 35-A M.R.S. § 3494 in the [Solar Decommissioning Law](#). If any portion of the solar energy development is or will be on land qualifying as "farmland" (see definition in 35-A M.R.S. § 3491(3) of the Solar Decommissioning Law) within 5 years preceding the start of construction, the decommissioning plan must provide for restoration of that farmland upon decommissioning sufficient to support resumption of farming or agricultural activities.
- Attach financial assurance** (e.g., performance bond, surety bond, irrevocable letter of credit) for the total cost of decommissioning or a statement that the applicant will submit financial assurance to the Department for review and approval prior to the start of construction.
- Attach a location map** that clearly identifies the site (U.S.G.S. topo map, Maine Atlas & Gazetteer, or similar).
- Attach proof of legal name** if applicant is a corporation, LLC, or other legal entity. A copy of the Secretary of State's registration information (available at <http://icrs.informe.org/nei-sos-icrs/ICRS?MainPage=x>) is sufficient. Individuals and municipalities are not required to provide any proof of identity.

FEE: Pay the application fee by credit card at the [Payment Portal](#). The solar decommissioning fee is set in the Department's fee schedule, available at: <https://www.maine.gov/dep/feeschedule.pdf>.

- Attach payment confirmation** from the Payment Portal when filing this application form.

Signature & Certification:

- I authorize staff of the Department of Environmental Protection to access the project site for the purpose of determining compliance with the statute.
- By signing this Application Form, I represent that I am authorized to act on behalf of the applicant with respect to this application, that the information presented in this application is true and accurate to best of my knowledge, and that the applicant has sufficient title, right, or interest in the property where the solar energy development is or will be located.

Signature of Agent or Applicant (may be typed): 

Date:

Instructions on how to file applications electronically: <https://www.maine.gov/dep/land/permits/individual/index.html>.

Email this completed form with attachments, following the instructions above, to DEP at: DEP.LandApplication@maine.gov

The image features a large, light blue watermark of the Novel Energy Solutions logo. The logo consists of a stylized arch over the word "Novel" in a sans-serif font, with a decorative swirl on the letter "l".

Attachment Two - Decommissioning Plan Including:

- **USGS Topo Map, Site Plan, and directions**
- **Letter of Corporate Standing**

Prepared By:

Novel Energy Solutions LLC

2303 Wycliff Street | Suite 300 | St. Paul, MN 55114 | Phone 612.345.7188 | <https://www.novelenergysolutions.com>

**DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOLAR DECOMMISSIONING PLAN**



NOVEL ENERGY SOLUTIONS LLC

FOR

ME GORHAM DAIGLE CSG

DECEMBER 18, 2023

Prepared By:

Benjamin Hansen

Novel Energy Solutions LLC

2303 Wycliff Street | Suite 300 | St. Paul, MN 55114 | Phone 612.345.7188 | <https://www.novelenergysolutions.com>

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1. Purpose

Maine Law requires developers of solar energy developments that occupy 3 or more acres to have an approved Solar Decommissioning Plan (the “Plan”) and accompanying financial assurance sufficient to cover the cost of decommissioning as outlined in the Plan.

On behalf of ME Gorham Daigle CSG, Novel Energy Solutions (NES) is pleased to submit the following Solar Decommissioning Plan for the proposed ME Gorham Daigle CSG solar energy facility (the “Facility”) to be constructed in Gorham, Maine on Dyer Road. The lifecycle of the Facility is expected to be approximately 25 years. This Plan describes the process for decommissioning the Facility.

Decommissioning means the physical removal of all Facility components to a depth of at least 24 inches or to the depth of bedrock, whichever is less, to the extent such components are not otherwise in or proposed to be placed in productive use or otherwise authorized to remain in place by the Maine Department of Environmental Protection (MDEP). Decommissioning also includes grading to postconstruction grade and revegetation of all earth disturbed during construction and decommissioning, except for areas already restored.

2. Permitting

Prior to the start of construction, NES will submit the necessary permit applications to MDEP for Stormwater Management. In addition, any environmental permits required for site specific impacts (i.e., wetlands disturbances or stream crossings) will be submitted to the regulating agencies (MDEP/USACE). An Erosion and Sediment Control (ESC) Plan will also be developed for the proposed Project. This ESC plan shall be based on the Best Management Practices (BMP) outlined in the Maine Erosion and Sediment Control BMP guidelines document developed by the MDEP.

As noted in Section 7, financial assurance will be submitted at a later date. No construction activities shall occur until all necessary permits and documents are reviewed and approved by the regulating agencies.

3. Timeline

Decommissioning will occur at the end of the Facilities contract life, approximately 25 years. The Facilities decommissioning is estimated to take 60 days to complete. The decommissioning crew will ensure that all equipment is either recycled or disposed of properly.

4. Shutdown and Disconnection

Shut down of the Facility at all disconnect points (disconnect switch at step up transformer within the solar field and disconnect at utility interconnect yard switch gear).

5. Decommissioning Phases

The Facility will be decommissioned by completing the following major phases: Dismantlement, Demolition, Disposal, or Recycle, and Site Stabilization.

5.1 Dismantlement, Demolition, Disposal, or Recycle

A significant portion of the components that comprise the Facility will include recyclable or re-useable components. Due to the re-sale monetary value, these components will be dismantled, disassembled, and recycled rather than being demolished and disposed of.

- **Modules:** Modules will be inspected for physical damage, tested for functionality, and removed from the racking system. Functioning modules will be packed and stored for reuse (functioning modules can produce power for another 25+/- years.) Non-functioning modules will be packed, palletized, and recycled.
- **Racking system:** Racking will be separated from footing poles, sorted, and recycled.
- **Posts:** Steel posts will be removed, stacked, and recycled.
- **Wire:** Above-ground wire will be sent to a facility for proper disposal and/or recycling. Below-ground wire will be abandoned in place.
- **Conduit:** Above-ground conduit will be disassembled onsite and recycled.
- **Junction boxes, combiner boxes, disconnect, and switch gear etc.** will be recycled.
- **Inverter and Transformer:** Inverters and components will be sent to manufacturer and/or electronics recycler. Functioning components can be reused.
- **Concrete pad(s):** Concrete will be recycled.
- **Fencing:** Fencing will be disassembled, poles removed and sent to metal recycling facility. Gate motor and electrical components will be recycled.

- **Access road Removal:** Beginning at the property boundary, all gravel surfaces developed for the Project, including roadbed, hammerhead, and equipment pad area. Exposed surfaces will be replaced with topsoil or other material suitable for sustaining vegetative cover. The areas will be re-seeded with a mixture similar and compatible with the vegetation existing at the time of decommissioning.
- **Environmental sensors:** Sensors and mounting hardware will be recycled.
- **Computers, monitors, hard drives, and other components:** Equipment will be recycled or reused.

A final site walk through will be conducted to remove debris and/or waste generated during the decommissioning process and will include removal and proper disposal of any debris that may have been wind-blown to areas outside the immediate footprint of the Facility. Sanitary facilities will be provided on-site for works performing the decommissioning of the Facility.

5.2 Site Stabilization

The areas of the Facility that are disturbed during decommissioning will be stabilized in accordance with best engineering practices and/or landowner preference (e.g., grading, mulching and/or seeding). The decommissioning process is estimated to take approximately eight to twelve weeks and would be intended to occur outside the winter construction season.

- **Revegetation:** At the time of decommissioning, the soil will have regenerated for 25 years. All disturbed soil will be revegetated with a pollinator mix or the field will be disced and replaced with topsoil.
- **Farmland:** For any portion of the solar energy development located on land classified as farmland decommissioning means the physical removal off all components of the development to a depth of at least 48 inches or to the depth of bedrock, whichever is less, and for the restoration of the farmland sufficient to support resumption of farming or agricultural activities.

6. Decommissioning Cost

The cost of decommissioning is lower than the salvage value of the materials. However, NES will provide a Performance Bond in the amount of **\$44,474.58** per 35-A M.R.S § 3494 in Solar Decommissioning Law.

The estimated costs for decommissioning the Facility are provided in the table below.

Project Size: [XX] KW	
Task	Cost
Remove Rack Wiring	\$ 1,158.36
Remove Cable	\$ 1,715.84
Remove Panels	\$ 5,250.00
Dismantle Racks	\$ 1,930.60
Remove and Load Racks Plus Trucking	\$ 7,219.80
Remove Electrical Equipment Plus Trucking	\$ 1,200.08
Breakup and Remove Concrete pads and Ballasts	\$ 380.80
Remove Power Poles	\$ 420.00
Remove Fence plus Trucking	\$ 2,722.02
Grading	\$ 420.00
Seed Disturbed Areas/Disc Topsoil	\$ 113.40
Additional Costs Plus Fuel	\$ 2,058.00
Total Cost	\$ 24,588.90
Total cost after 25yrs at 2.5% inflation rate per/yr.	\$ 44,474.58

7. Financial Assurance

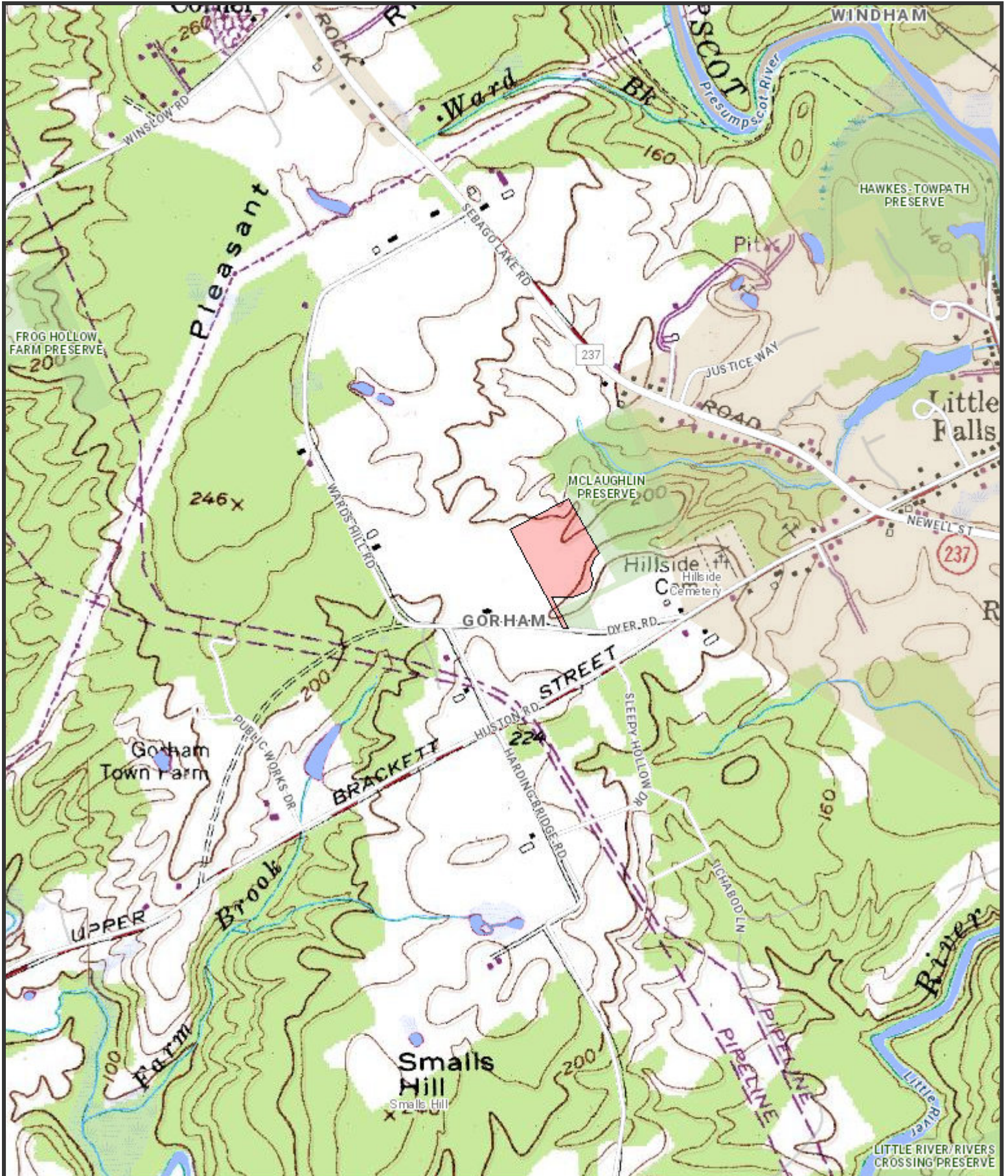
Prior to the start of construction, the Applicant will submit financial assurance to MDEP for review and approval in the form of a performance bond, surety bond, or letter of credit. Because the Applicant will obtain MDEP approval of the financial assurance proposal prior to the start of construction, the Applicant has demonstrated its current and future financial capacity, which is unaffected by the owner’s or operator’s future financial condition, to fully fund the decommissioning in accordance with the decommissioning plan.

8. Attachments

The following documents are attached:

- USGS Topo Map, Overall Site Plan, directions to site
- Letter of Corporate Standing

ME GORHAM DAIGLE CSG



The Maine Department of Transportation provides this publication for information only. Reliance upon this information is at user risk. It is subject to revision and may be incomplete depending upon changing conditions. The Department assumes no liability if injuries or damages result from this information. This map is not intended to support emergency dispatch.

0.25 Miles
1 inch = 0.28 miles

Date: 3/6/2023
Time: 4:26:30 PM

ME GORHAM DAIGLE CSG LLC

CUMBERLAND COUNTY, ME

SOLAR PV PROJECT - 700 KW AC

CIVIL SUBMITTAL - ISSUED FOR PERMITTING (IFP)



2303 Wycliff St, Suite 300
St Paul, MN 55114

info@novelenergy.biz
612-345-7188 telephone

Landowner
CLAUDE F DAIGLE JR.

GORHAM, ME

Project
ME GORHAM DAIGLE CSG LLC

Location
N43.7267°, W70.4428°

Certification

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly licensed professional engineer in the State of Maine.

NOT FOR CONSTRUCTION

SCOTT GEDDES, P.E.
Registration No. 16864 Date: 6/13/23

If applicable, contact us for a wet signed copy of this plan which is available upon request at Novel Energy Solutions - St. Paul, MN office.

Summary

Designed: DAP Drawn: DAP
Approved: SEG Project: 22.458.08
Phase: PERMITTING Initial Issue: 2/16/23

Revisions

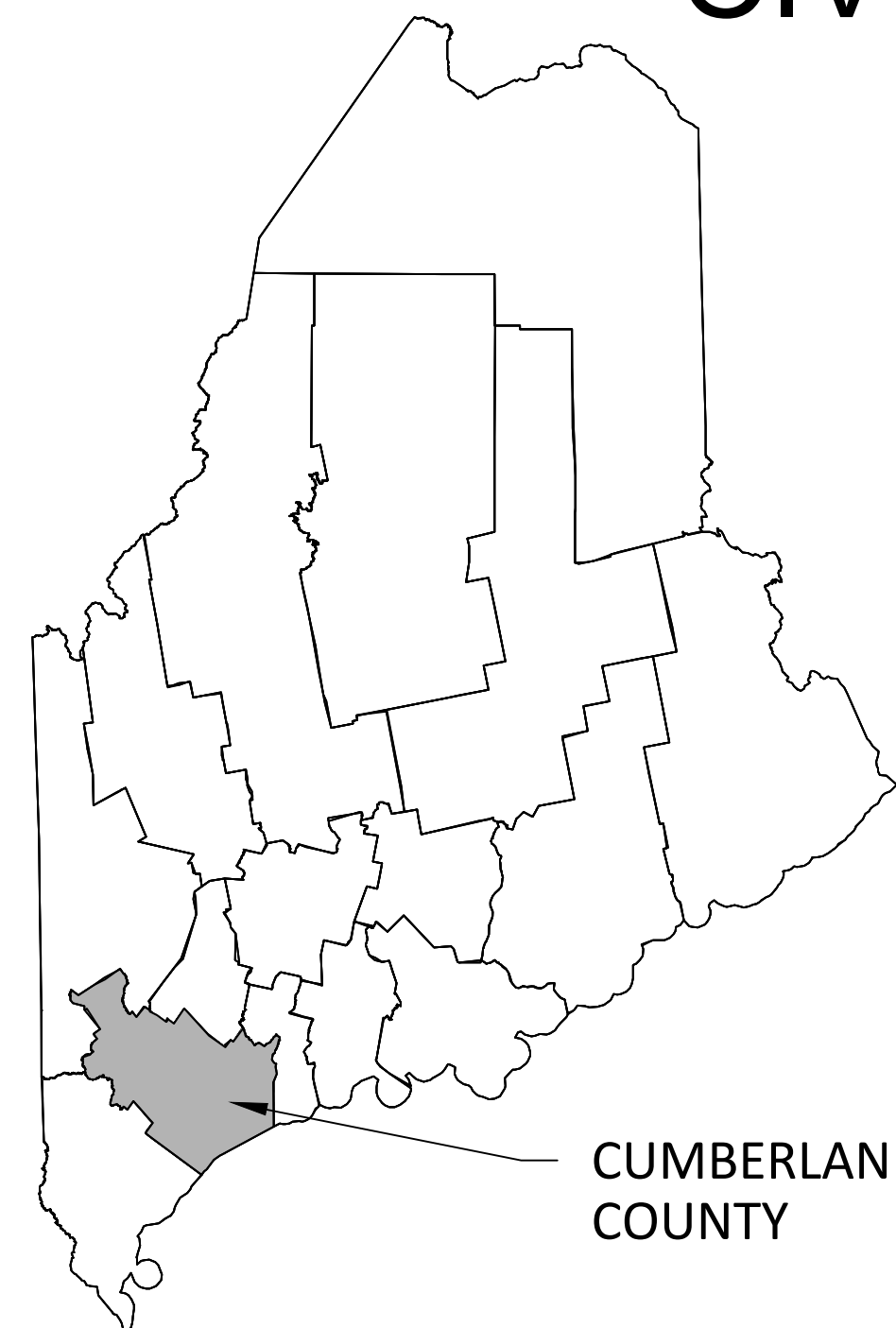
No.	Date	By	Chk	Description
1	06/27	DAP	SEG	TOWN OF GORHAM REVISION
2	12/7	DAP	SEG	TOWN OF GORHAM REVISION
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

Sheet Title
COVERSHEET

MAP 69 LOT 1-1

Sheet No. Revision
C1.01 IFP

Project No. GRHM



COUNTY MAP



LOCATION MAP

SHEET INDEX

Sheet Number	Sheet Title
C1.01	COVERSHEET
C1.02	CONSTRUCTION NOTES
C2.01	EXISTING CONDITIONS & REMOVALS
C3.01	SITE PLAN
C5.01	EROSION CONTROL PLAN
C5.02	EROSION CONTROL NOTES & DETAILS
C9.01	CONSTRUCTION DETAILS
C9.02	LANDSCAPING DETAILS

QUANTITIES

CIVIL SITE ITEMS		
GRADING AREA	0	ACRE
EARTHWORK CUT	0	CU YD
EARTHWORK FILL	0	CU YD
2-3" GRAVEL	30	TONS
AGGREGATE DRIVE 12" (CL V)	560	TONS
AGGREGATE (LAYDOWN YARD)	280	TONS
(OPTIONAL) POROUS GRANULAR BASE 12"	830	TONS
EROSION CONTROL ITEMS		
SILT FENCE	2,000	LF
ROCK CONSTRUCTION ENTRANCE	1	EACH
12" CULVERT	20	LF
FLARED END SECTIONS	2	EACH
FENCING ITEMS		
20' GATE	1	EACH
FENCE	1,960	LF
LANDSCAPING		
TREE - WHITE SPRUCE	39	EACH
TREE - EASTERN WHITE PINE	37	EACH
ARRAY MIX - NATIVE GRASSES	35	POUNDS
POLLINATOR MIX - GRASSES	14	POUNDS

ELECTRICAL REFERENCE

THIS CIVIL PLAN SET IS TO BE USED IN COORDINATION WITH THE ELECTRICAL PLAN SETS PREPARED FOR THIS PROJECT.
ELECTRICAL "IC / IFP / IFC" PLAN SET DATED ####
MODULE TYPE: WAAREE BI-31-445
MODULE QUANTITY: 2184



PROJECT CONTACT LIST

DEVELOPER
NOVEL ENERGY SOLUTIONS
2303 WYCLIFF ST, SUITE 300
SAINT PAUL, MN 55114
TEL (209) 918-4222
CONTACT: PAULA FITZGERALD

CIVIL ENGINEER
NOVEL ENERGY SOLUTIONS
2303 WYCLIFF ST, SUITE 300
SAINT PAUL, MN 55114
TEL (612) 322-3756
CONTACT: SCOTT GEDDES, P.E.

GEOTECHNICAL
SUMMIT GEOENGINEERING SERVICES
173 PLEASANT ST
ROCKLAND, ME 04841
TEL (207) 318-7761
CONTACT:

ELECTRICAL ENGINEER
NOVEL ENERGY SOLUTIONS
2303 WYCLIFF ST, SUITE 300
SAINT PAUL, MN 55114
TEL (612) 345-7188
CONTACT: JONATHON CALVA, P.E.

SURVEYOR
NOVEL ENERGY SOLUTIONS
2303 WYCLIFF ST, SUITE 300
SAINT PAUL, MN 55114
TEL (612) 499-6202
CONTACT: TOM HEALEY, L.S.

Approved: Town of Gorham Planning Board

SIGNATURE:	DATE:
SIGNATURE:	DATE:
SIGNATURE:	DATE:
SIGNATURE:	DATE:
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SIGNATURE:	DATE:

Conditions of Approval

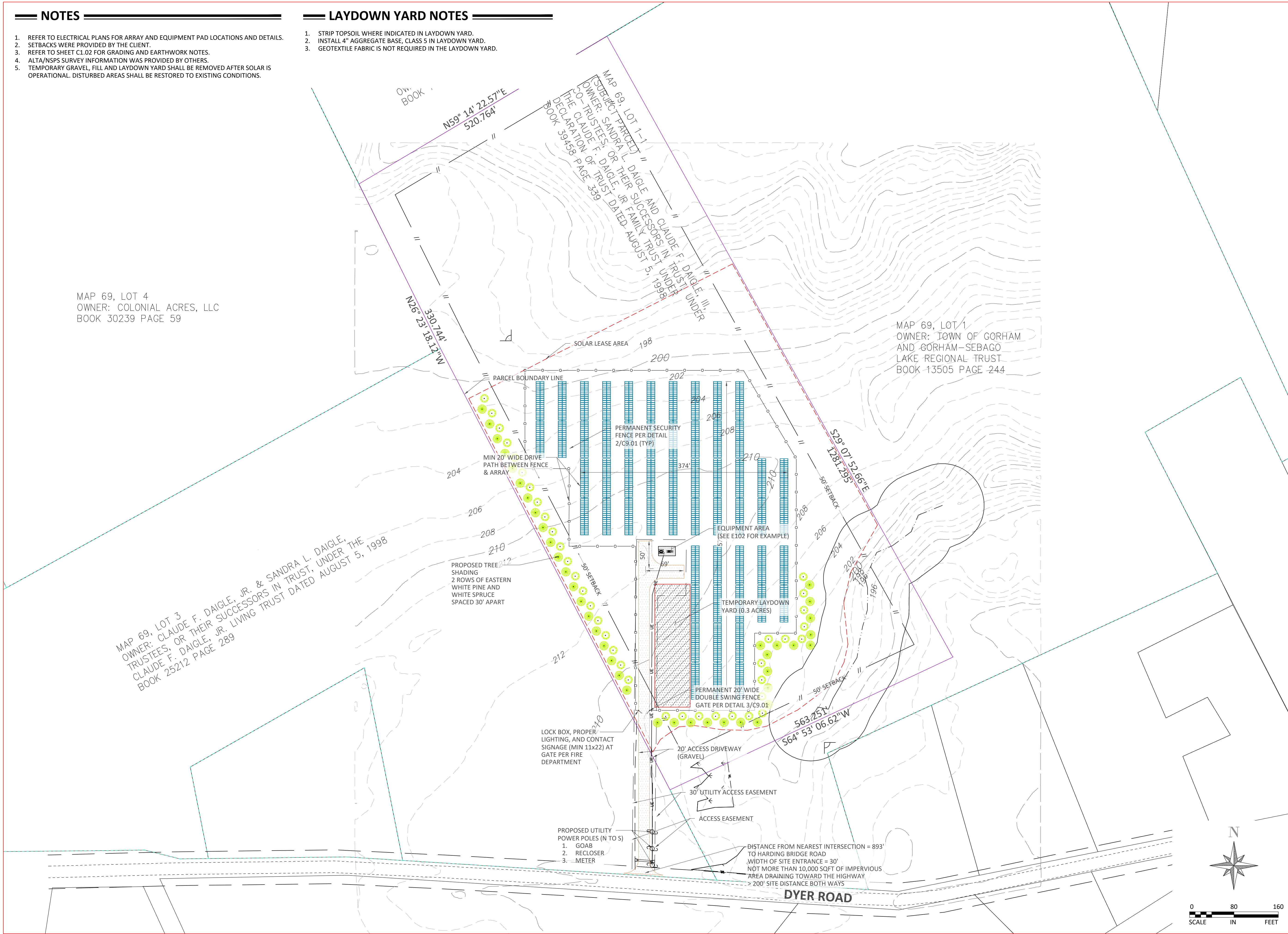
- That this approval is dependent upon, and limited to, the proposals and plans contained in this application and supporting documents submitted and affirmed by the applicants and that any variation from the plans, proposals and supporting documents is subject to review and approval by the Planning Board or Minor Site Plan Review Committee, except for minor changes which the Town Planner may approve.
- That prior to the commencement of construction of the site plan, the applicant is responsible for obtaining all required local, state and federal permits;
- Any staff and peer review comments shall be addressed prior to the Board signing the plans.
- That the applicant shall provide property line information and site information in auto-CAD format to the Town Planner prior to the pre-construction meeting;
- All waivers and variances will be listed on the site plan prior to recording;
- The map and lot numbers shall be listed in the bottom right corner of all pages of the plan set;
- That any proposed use on the site shall meet the sound level requirements outlined under Chapter 4, Section 9, T. Noise;
- That the E-911 address shall be established for the site and the address shall be properly posted;
- That the underground electric lines shall be inspected by the Code Enforcement Office prior to backfill;
- The snowmobile trail will be re-routed around the solar array;
- Prior to the pre-construction meeting the applicant will establish a rider that benefits the town of Gorham to the decommissioning bond required by the State DEP;
- Prior to the pre-construction meeting the applicant will establish the following: a performance guarantee totaling 150% of the costs to complete any off - site construction and an escrow for field inspection meeting the approvals of Town Staff and the Town's Attorney;
- That prior to the commencement of any site improvements, the applicant, its earthwork contractor, and the design engineer shall arrange a pre-construction meeting with the Town's Review Engineer, Public Works Director, Fire Chief, Code Enforcement Officer and the Town Planner to review the proposed schedule of improvements, conditions of approval, and site construction requirements
- That no approved site plan or Decision Document shall be released for recording at the Registry of Deeds until the required performance guarantee has been posted for offsite public improvements;
- The applicant shall provide a performance guarantee for an amount adequate to cover 125% of the total construction costs of all remaining site improvements not completed prior to issuance of a temporary or final occupancy permit. The applicant shall complete all required improvements as soon as possible but the remaining improvements are required to be completed within a year from issuance of the temporary occupancy permit.
- That all site construction shall be carried out in conformance with the Maine Erosion and Sediment Control Best Management Practices, Maine Department of Environmental Protection, latest edition and in accordance with the erosion and sedimentation control information contained in the application;
- That the Planning Board Chair is authorized by the Planning Board to sign the Findings of Fact on behalf of the entire Board; and
- That these conditions of approval must be added to the site plan and the site plan shall be recorded at the Cumberland County Registry of Deeds within thirty (30) days of the date of written notice of approval by the Planning Board, and a dated copy of the recorded site plan shall be returned to the Town Planner prior to the pre-construction meeting
- If the approved plan or Decision Document is not recorded in the Registry of Deeds within one (1) year of the original approval, it shall be come null and void.

NOTES

1. REFER TO ELECTRICAL PLANS FOR ARRAY AND EQUIPMENT PAD LOCATIONS AND DETAILS.
2. SETBACKS WERE PROVIDED BY THE CLIENT.
3. REFER TO SHEET C1.02 FOR GRADING AND EARTHWORK NOTES.
4. ALTA/NSPS SURVEY INFORMATION WAS PROVIDED BY OTHERS.
5. TEMPORARY GRAVEL, FILL AND LAYDOWN YARD SHALL BE REMOVED AFTER SOLAR IS OPERATIONAL. DISTURBED AREAS SHALL BE RESTORED TO EXISTING CONDITIONS.

LAYDOWN YARD NOTES

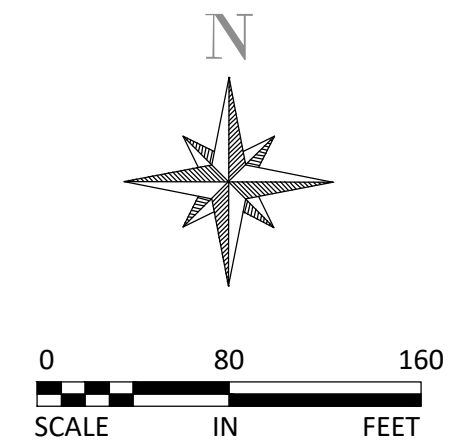
1. STRIP TOPSOIL WHERE INDICATED IN LAYDOWN YARD.
2. INSTALL 4" AGGREGATE BASE, CLASS 5 IN LAYDOWN YARD.
3. GEOTEXTILE FABRIC IS NOT REQUIRED IN THE LAYDOWN YARD.



MAP 69, LOT 4
OWNER: COLONIAL ACRES, LLC
BOOK 30239 PAGE 59

MAP 69, LOT 3
OWNER: CLAUDE F. DAIGLE, JR. & SANDRA L. DAIGLE, TRUSTEES, OR THEIR SUCCESSORS IN TRUST, UNDER THE CLAUDE F. DAIGLE, JR. LIVING TRUST DATED AUGUST 5, 1998
BOOK 25212 PAGE 289

MAP 69, LOT 1
OWNER: TOWN OF GORHAM AND GORHAM-SEBAGO LAKE REGIONAL TRUST
BOOK 13505 PAGE 244



Novel ENERGY SOLUTIONS
2303 Wycliff St, Suite 300
St Paul, MN 55114
info@novelenergy.biz
612-345-7188 telephone

Landowner
CLAUDE F DAIGLE JR.
GORHAM, ME

Project
ME GORHAM DAIGLE CSG LLC

Location
N43.7267°, W70.4428°

Certification
I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly licensed professional ENGINEER under the laws of the state of Maine.
PRELIMINARY NOT FOR CONSTRUCTION
SCOTT GILLES, P.E.
Registration No. 16864 Date: 6/13/23
If applicable, contact us for a wet signed copy of this plan which is available upon request at Novel Energy Solutions - St. Paul, MN office.

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Sheet Title
SITE PLAN
MAP 69 LOT 1-1

Sheet No. Revision
C3.01 IFP
Project No. GRHM

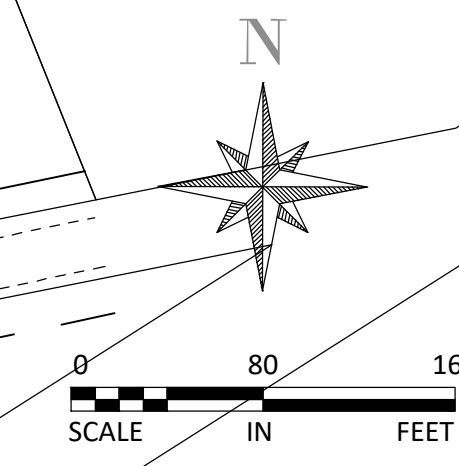
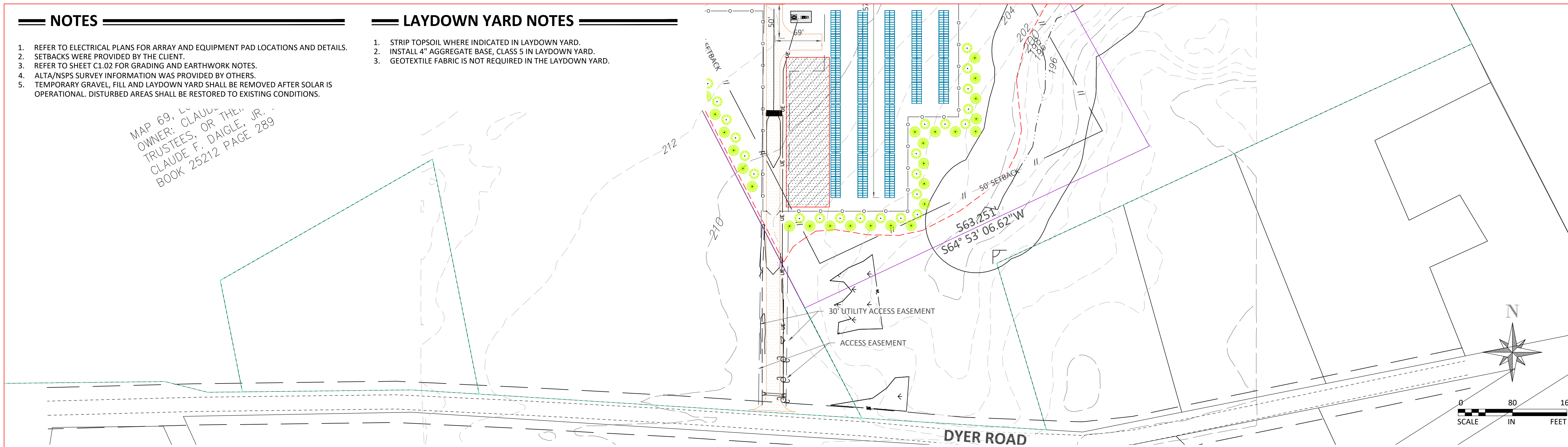
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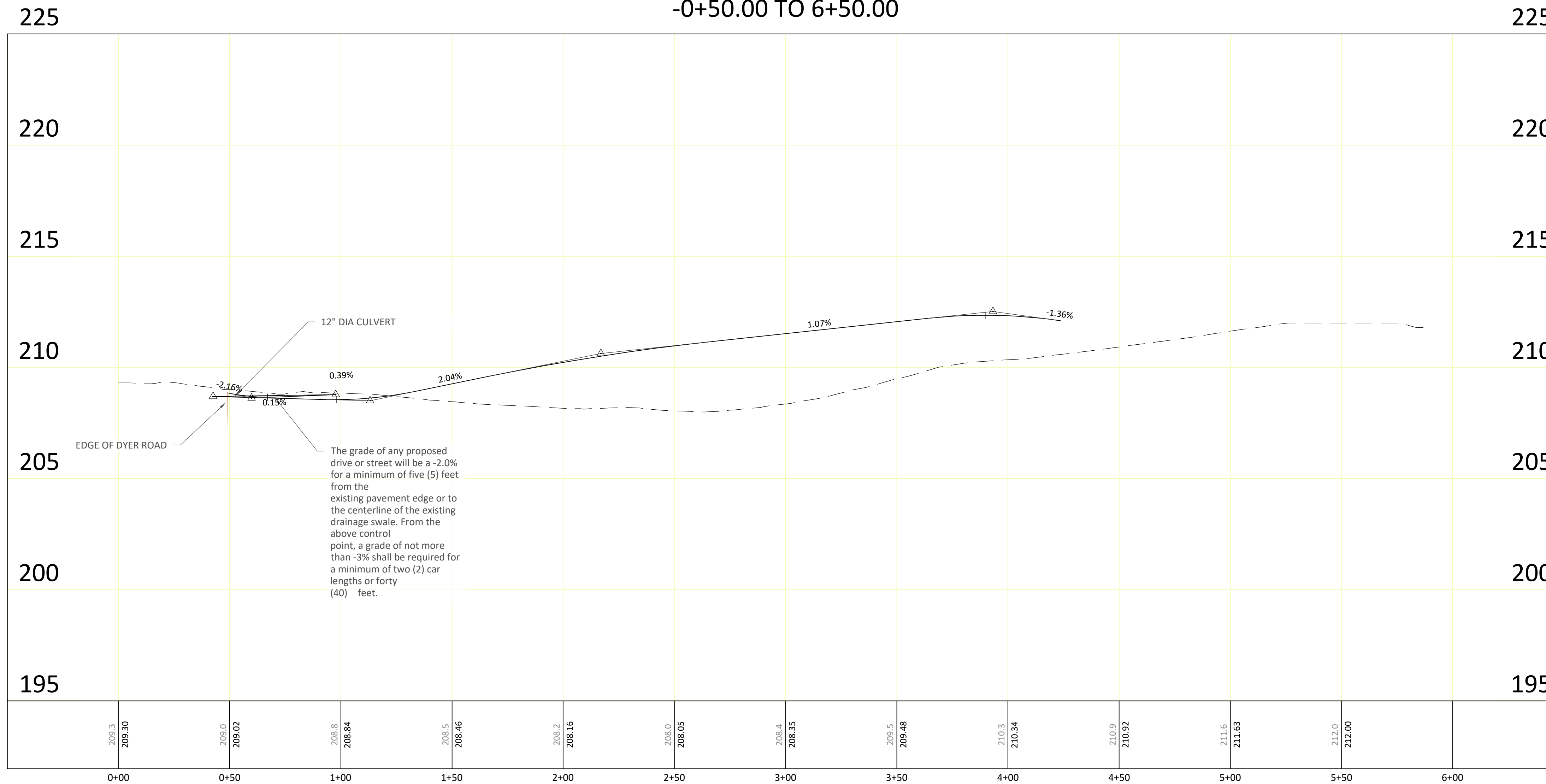
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MAP 69, L.
OWNER: CLAUDE F. DAIGLE, JR.
TRUSTEES, OR THE
CLAUDE F. DAIGLE, JR.
BOOK 25212 PAGE 289



Access Road
-0+50.00 TO 6+50.00



2303 Wycliff St, Suite 300
St Paul, MN 55114

info@novelenergy.biz
612-345-7188 telephone

Landowner
CLAUDE F DAIGLE JR.

GORHAM, ME

Project
ME GORHAM DAIGLE CSG LLC

Location
N43.7267°, W70.4428°

Certification

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly licensed professional ENGINEER under the laws of the state of Maine.

RELIINARY NOT FOR CONSTRUCTION

SCOTT GEDDES, P.E.
Registration No. 16864 Date: 6/13/23

If applicable, contact us for a wet signed copy of this plan which is available upon request at Novel Energy Solutions - St. Paul, MN office.

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-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

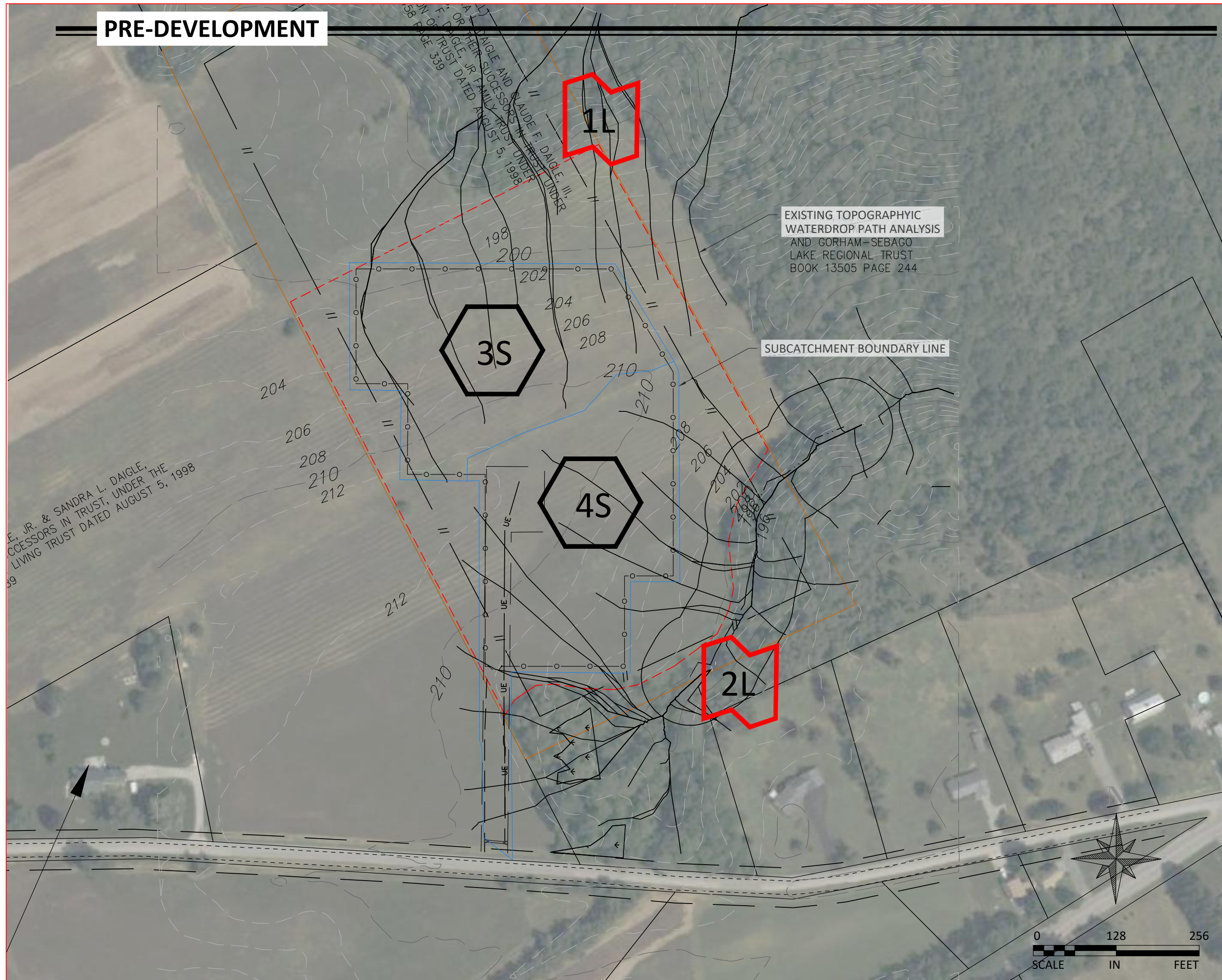
Sheet Title
ROAD PROFILE

MAP 69 LOT 1-1

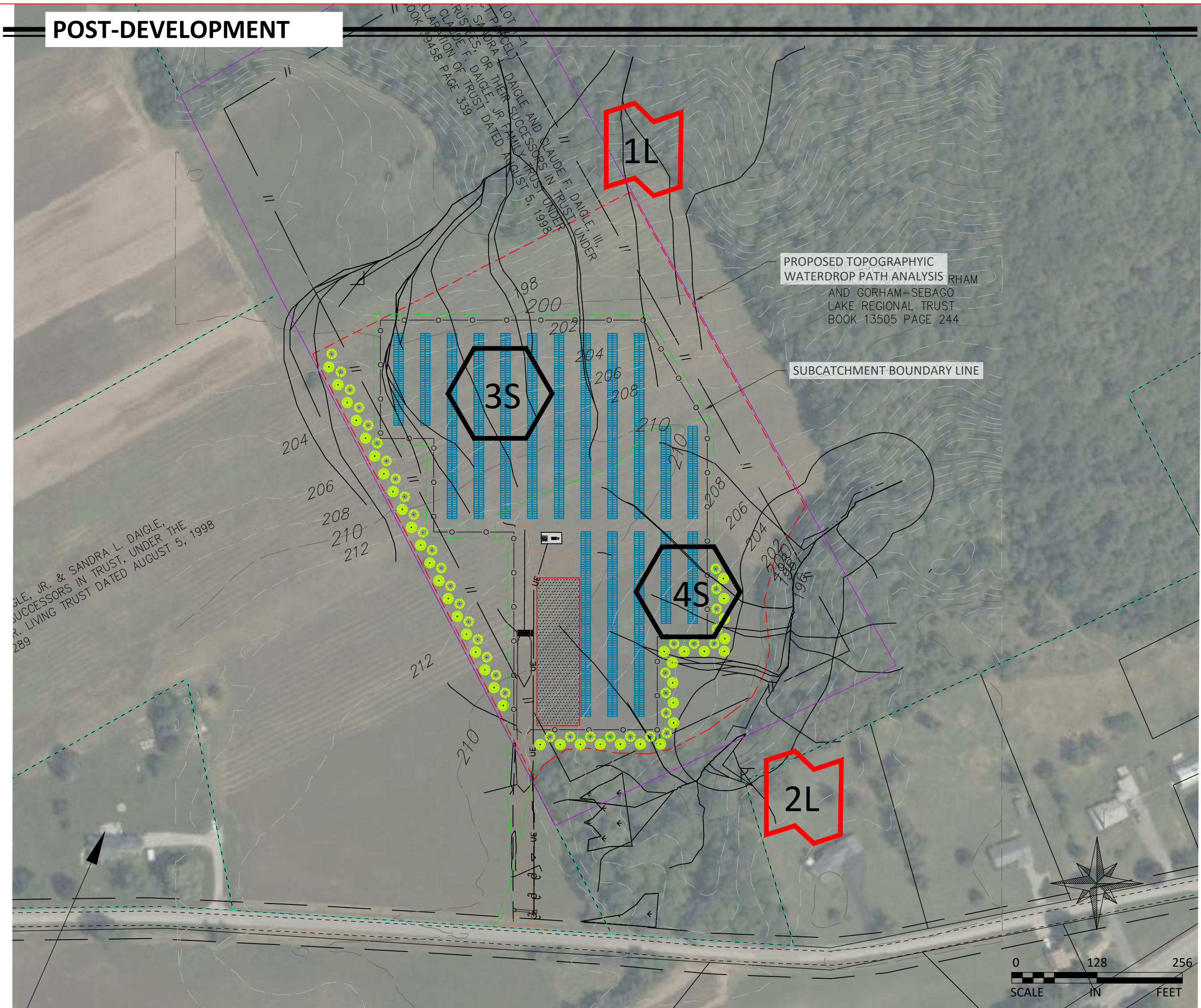
Sheet No. Revision
C3.02 IFP

Project No. GRHM

PRE-DEVELOPMENT

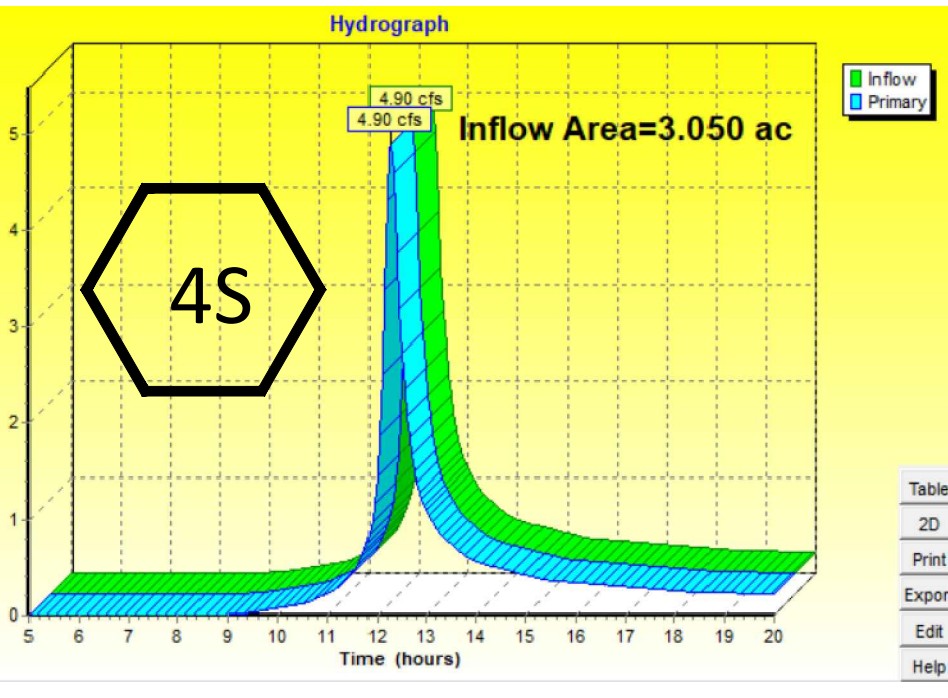
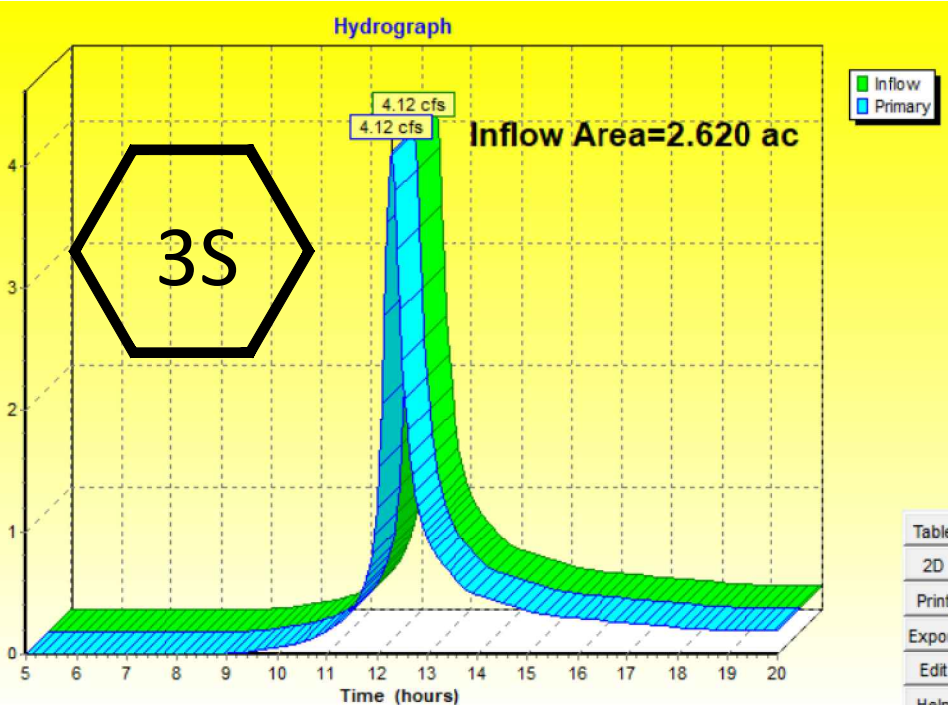


POST-DEVELOPMENT



HYDROLOGY SUMMARY

1. CURVE NUMBERS (CN):
 - 1.1. EXISTING: 69, PASTURE/GRASSLAND/RANGE, FAIR, HSG B
 - 1.2. PROPOSED: 58, MEADOW, NON-GRAZED, HSG B
2. SOIL TYPES: A, C
 - 2.1. MKB, DEB, SZ, PBC
3. EXISTING SITE DESCRIPTION:
 - 3.1. THE LEASE AREA IS 8.77 ACRES OF AGRICULTURAL PASTURE GRASS. THE NORTH, SOUTH, AND EAST BOUNDARIES CONTINUE INTO UNDEVELOPED FORESTED UPLAND; THE WEST BOUNDARY REMAINS AGRICULTURAL PASTURE GRASS. THE PROPERTY ALSO HAS ASSOCIATED WETLANDS. WHILE WETLANDS ACCOUNT FOR LESS THAN 10% OF THE TOTAL PARCEL AREA, NO PORTION OF THE LEASED PROJECT AREA CONTAINS WETLANDS. NO PORTION OF THE ARRAY OR PROJECT SITE SHALL DIRECTLY OR INDIRECTLY AFFECT WETLANDS. THE TOPOGRAPHY OF THE SITE AND ITS ADJACENT LANDS TO THE PROJECT AREA IS RELATIVELY FLAT WITH THE SITE HAVING A GENERAL SLOPE BETWEEN 2 TO 5 PERCENT SLOPING TO THE NORTH AND SOUTHEAST. THE EXISTING PROJECT AREA IS NEARLY 100% PERVIOUS. A WEBSOIL SURVEY HAS BEEN PERFORMED AND SHOWS EXISTING SOILS TO BE PRIMARILY A, B, AND C TYPE SOILS, AND GROUND COVER/VEGETATION WITH A COMPOSITE SCS CURVE NUMBER OF APPROXIMATELY 69.
4. PROPOSED CHANGES:
 - 4.1. THE PROPOSED DEVELOPMENT CONSISTS OF .7 MW AC OF TOTAL SOLAR CAPACITY. SOLAR MODULES ARE MOUNTED ON RACKING ATTACHED TO STEEL PILES DRIVEN DIRECTLY INTO THE GROUND. THERE IS A CONCRETE EQUIPMENT PAD LOCATED AT THE END OF THE ACCESS ROAD. THE PROJECT WILL HAVE ROAD ACCESS FROM THE MAIN ROAD. THE PROPOSED AGGREGATE ACCESS ROAD PROVIDES ACCESS TO THE EQUIPMENT PADS AND THE LAYDOWN AREA. THE GRADING WITHIN THE SOLAR PROJECT WILL BE MINIMIZED WHILE ACCOMMODATING THE RACKING AND PROMOTING DRAINAGE; AS OF NOW THERE IS NO PROPOSED SITE GRADING. THE GROUND COVER BELOW THE SOLAR MODULES WILL BE A SHORT/MEDIUM HEIGHT NATURAL PRAIRIE TYPE GRASS.
5. RATE CONTROL:
 - 5.1. THE REQUIRED POST CONSTRUCTION RATE CONTROL WILL BE ACHIEVED BY CHANGING THE LAND USE FROM UNDEVELOPED FORESTED WETLAND TO PERMANENTLY VEGETATED GRASS GROUND COVER (MEADOW) OVER MOST OF THE PROJECT AREA. THE EXISTING SITE CONDITION OF AGRICULTURAL PASTURE GRASS IN SOIL GROUP B HAS A NRCS CURVE NUMBER (CN) OF 69. THE MOST COMMON SOIL TYPE FOUND INCLUDES FINE SANDY LOAM CONDITIONS. WHEN CONVERTED TO A FULLY VEGETATED MEADOW CONDITION, THE SAME PROJECT AREA HAS A LOWER OVERALL CURVE NUMBER. THE PROPOSED SITE COMPOSITE CURVE NUMBER IS 58, WHICH INCLUDES THE PROPOSED IMPERVIOUS AGGREGATE AREAS, CONCRETE AREAS, IMPERVIOUS SOLAR MODULES, AND THE VEGETATION PLANTED BELOW THE SOLAR MODULES. THE REDUCTION IN OVERALL CN FROM 69 TO 58 CAUSES A REDUCTION IN THE RATE OF STORMWATER RUNOFF FOR ALL STORM EVENTS. SEE APPENDIX 'B' FOR THE HYDROCAD MODEL RESULTS SHOWING THE RUNOFF RATE CALCULATIONS.
6. WATER QUALITY
 - 6.1. RUNOFF FROM THE CONCRETE PADS AND FROM MOST OF THE ACCESS ROAD WILL TRAVEL THROUGH VEGETATIVE COVER PRIOR TO ENTERING THE EXISTING WETLANDS. BY CHANGING THE LAND USE OF THE PROJECT AREA FROM UNDEVELOPED FORESTED UPLAND TO NEARLY 100% VEGETATED GROUND COVER, POLLUTANTS AND SEDIMENTATION WILL BE CONTROLLED FROM LEAVING THE SITE.
7. SCOUR
 - 7.1. POTENTIAL FOR SCOUR EXISTS WITHIN THE SOLAR FARM AT THE FOLLOWING LOCATIONS: PILE LOCATIONS: NONE OF THE PILES ARE IN DITCHES, SWALES, CHANNELS, ETC. WHERE CONCENTRATED FLOW WOULD CREATE A POTENTIAL SCOUR CONDITION; THEREFORE, THERE IS NO SIGNIFICANT RISK OF SCOUR AT ANY OF THE PILES. DRIPLINE: PER THE MPCA, THE LOWEST VERTICAL CLEARANCE OF ANY SOLAR ARRAY SHOULD NOT BE GREATER THAN 10 FEET, TO PREVENT EROSION AND SCOUR ALONG THE DRIPLINE. ALL ARRAYS FOR THIS PROJECT HAVE A MAXIMUM VERTICAL CLEARANCE OF LESS THAN 10 FEET AT THE DRIPLINE AND ARE NOT A CONCERN FOR SCOUR.



PEAK RUNOFFS

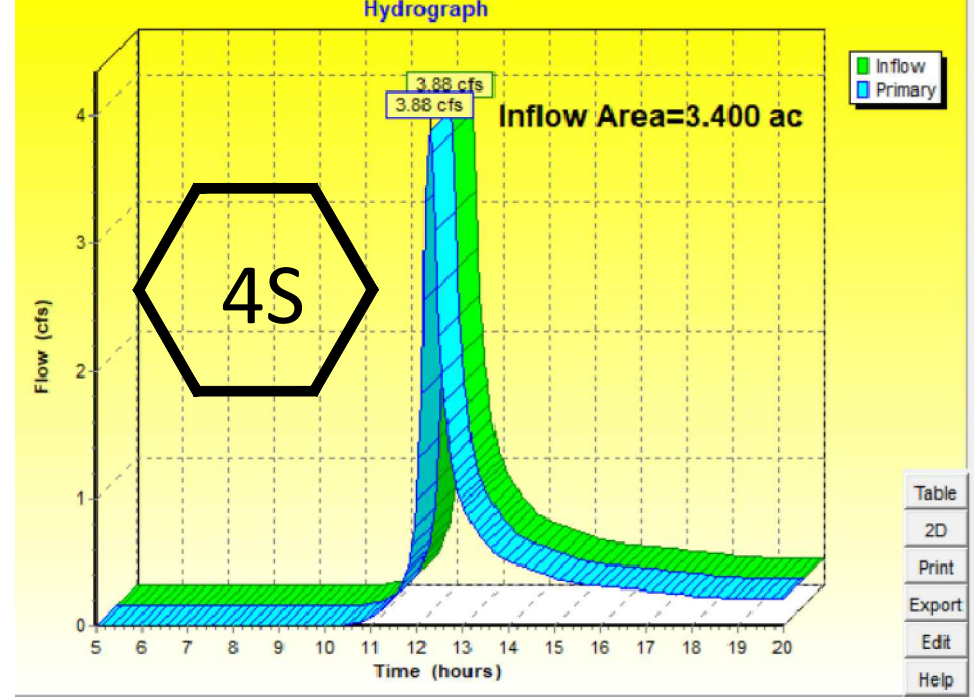
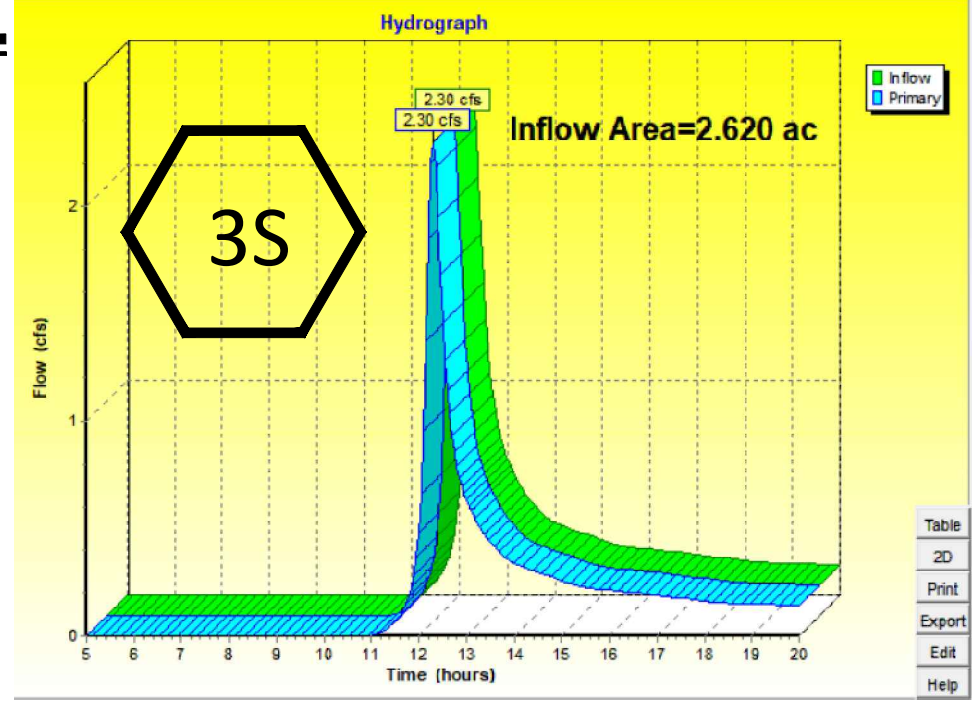
THE UPPER LEFT HYDROGRAPH REPRESENTS THE PEAK RUNOFF VOLUME OF A 25 YEAR STORM OVER THE EXISTING AREA. THIS PEAK RUNOFF IS 4.12 CFS AND FLOWS TOWARDS THE NORTHEASTERN WOODED AREA.

THE LOWER LEFT HYDROGRAPH REPRESENTS THE PEAK RUNOFF VOLUME OF A 25 YEAR STORM OVER THE EXISTING AREA. THIS PEAK RUNOFF IS 4.90 CFS AND FLOWS TOWARDS THE SOUTHEASTERN WOODED WETLAND AREA.

THE UPPER RIGHT HYDROGRAPH REPRESENTS THE PEAK RUNOFF VOLUME OF A 25 YEAR STORM OVER THE PROPOSED AREA. THIS PEAK RUNOFF IS 2.30 CFS AND FLOWS TOWARDS THE NORTHEASTERN WOODED AREA.

THE LOWER RIGHT HYDROGRAPH REPRESENTS THE PEAK RUNOFF VOLUME OF A 25 YEAR STORM OVER THE PROPOSED AREA. THIS PEAK RUNOFF IS 3.88 CFS AND FLOWS TOWARDS THE SOUTHEASTERN WOODED WETLAND AREA.

REFERENCE HYDROCAD REPORT FOR FULL DETAILS OF STORM EVENTS AND SUBCATCHMENTS.



Novel ENERGY SOLUTIONS
 2303 Wycliff St, Suite 300
 St Paul, MN 55114
 info@novelenergy.biz
 612-345-7188 telephone

Landowner
CLAUDE F DAIGLE JR.
 GORHAM, ME

Project
ME GORHAM DAIGLE CSG LLC

Location
N43.7267°, W70.4428°

Certification
 I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly licensed professional ENGINEER under the laws of the state of Maine.
RELIQUARY NOT FOR CONSTRUCTION
 SCOTT GILLES, P.E.
 Registration No. 16864 Date: 6/13/23
 If applicable, contact us for a wet signed copy of this plan which is available upon request at Novel Energy Solutions - St. Paul, MN office.

Summary
 Designed: DAP Drawn: DAP
 Approved: SEG Project: 22.458.08
 Phase: PERMITTING Initial Issue: 2/16/23

Revisions

No.	Date	By	Chk	Description
1	06/27	DAP	SEG	TOWN OF GORHAM REVISION
2	12/7	DAP	SEG	TOWN OF GORHAM REVISION
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

Sheet Title
HYDROLOGY

MAP 69
LOT 1-1

Sheet No. Revision
C3.03 IFP

Project No. GRHM

STORMWATER BASIN NOTES

- IF CONSTRUCTION REQUIRES A BASIN TO BE CONSTRUCTED TO FINAL GRADE PRIOR TO FINAL STABILIZATION, THE CONTRACTOR SHALL EMPLOY RIGOROUS EROSION PREVENTION AND SEDIMENT CONTROLS TO KEEP SEDIMENT AND RUNOFF AWAY FROM THE BASIN.
- IF THE SOLAR ARRAY IS LOCATED WITHIN THE BASIN AND REQUIRES CONSTRUCTION EQUIPMENT TO DRIVE WITHIN THE BASIN, THE CONTRACTOR SHALL BE REQUIRED TO CLEAN OUT ANY SEDIMENT AND RIP THE SOILS TO A MINIMUM OF 12" DEEP TO LOOSEN THE COMPACTED SOIL AND RE-GRADE WITH EQUIPMENT SIMILAR TO A RUBBER TRACKED SKID LOADER PRIOR TO SEED AND MULCH.
- MARK EDGE OF BASINS WITH IDENTIFYING FLAGS, STAKES, OR EQUIVALENT.

EROSION CONTROL QUANTITIES

ITEM	QUANTITY	UNIT
SILT FENCE	1980	LF
BIO-ROLL	0	LF
CONSTRUCTION ENTRANCE	1	EA
EROSION CONTROL BLANKET*	0	SY

*EROSION CONTROL BLANKET CAN BE ADDED AT THE END OF CONSTRUCTION

CIVIL IMPACT QUANTITIES

ITEM	SQFT	ACRES
IMPERVIOUS AREA	10,170	0.23
DEVELOPED AREA	10,170	0.23
OCCUPIED AREA	208,000	4.78
TREE REMOVAL AREA	0	0.00
TEMP WETLAND IMPACT AREA	0	0.00
PERM WETLAND IMPACT AREA	0	0.00
FENCED AREA	208,000	4.78

NOTES

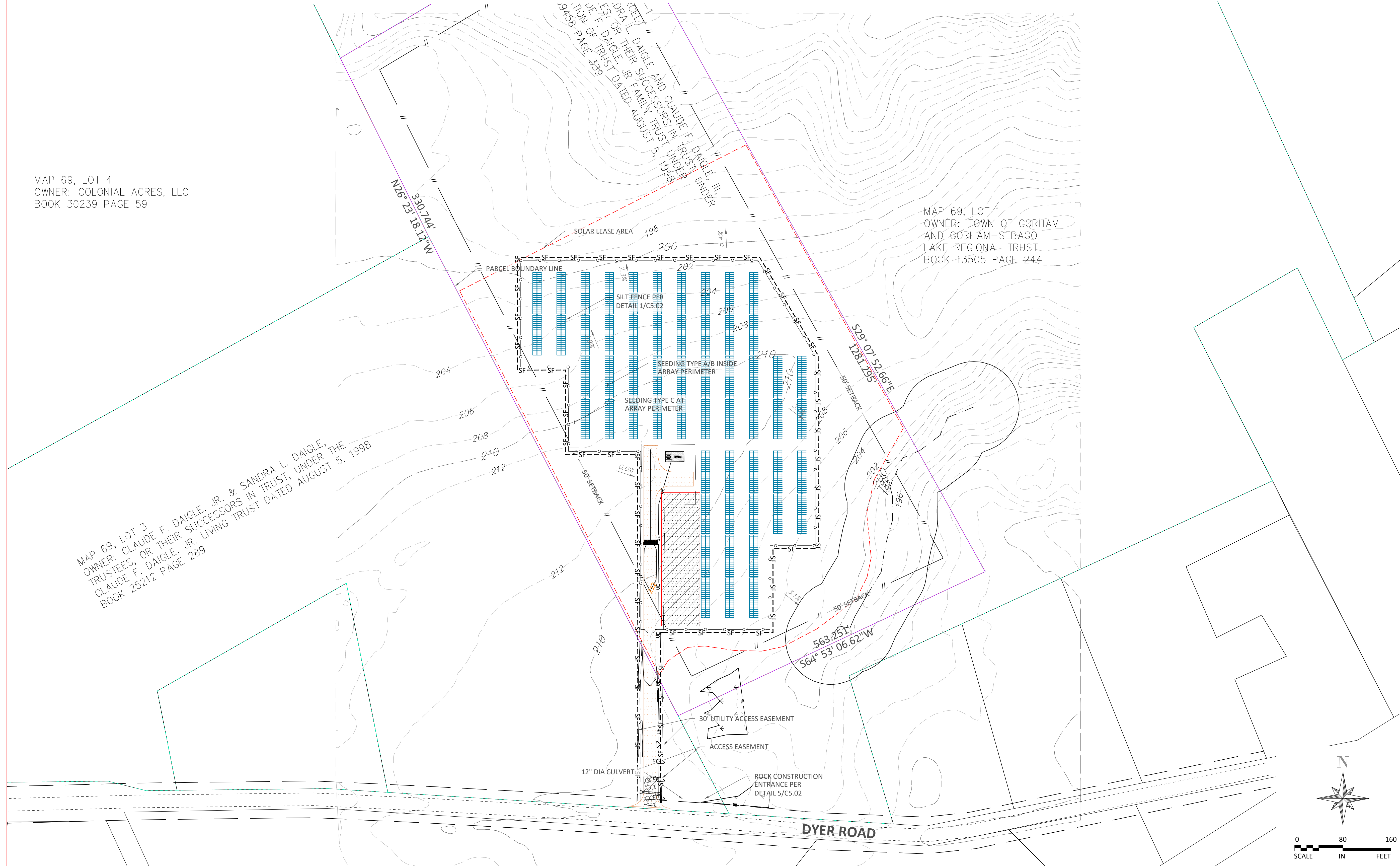
- REFER TO SHEET C5.02 FOR EROSION CONTROL NOTES AND DETAILS.
- DUST CONTROL MUST BE PROVIDED ON GRAVEL ROAD DURING CONSTRUCTION.

MAP 69, LOT 4
OWNER: COLONIAL ACRES, LLC
BOOK 30239 PAGE 59

MAP 69, LOT 1
OWNER: TOWN OF GORHAM
AND GORHAM-SEBAGO
LAKE REGIONAL TRUST
BOOK 13505 PAGE 244

MAP 69, LOT 3
OWNER: CLAUDE F. DAIGLE, JR. & SANDRA L. DAIGLE,
TRUSTEES, OR THEIR SUCCESSORS IN TRUST, UNDER THE
CLAUDE F. DAIGLE, JR. LIVING TRUST DATED AUGUST 5, 1998
BOOK 25212 PAGE 289

CLAUDE F. DAIGLE AND CLAUDE F. DAIGLE, UNDER
DRA. L. DAIGLE OR THEIR SUCCESSORS IN TRUST, UNDER
THE F. DAIGLE, JR. FAMILY TRUST UNDER
TRUST AGREEMENT DATED AUGUST 5, 1998
BOOK 339 PAGE 339



2303 Wycliff St, Suite 300
St Paul, MN 55114

info@novelenergy.biz
612-345-7188 telephone

Landowner
CLAUDE F DAIGLE JR.

GORHAM, ME

Project
ME GORHAM DAIGLE CSG LLC

Location
N43.7267°, W70.4428°

Certification

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly licensed professional ENGINEER under the laws of the state of Maine.

**PRELIMINARY
NOT FOR
CONSTRUCTION**

SCOTT GEDDES, P.E.
Registration No. 16864 Date: 6/13/23

If applicable, contact us for a wet signed copy of this plan which is available upon request at Novel Energy Solutions - St. Paul, MN office.

Summary

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Approved: SEG Project: 22 458. 08
Phase: PERMITTING Initial Issue: 2/16/23

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-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

Sheet Title
EROSION CONTROL PLAN

**MAP 69
LOT 1-1**

Sheet No. Revision
C5.01 IFP

Project No. GRHM

SEQUENCE OF CONSTRUCTION

1. INSTALL STABILIZED CONSTRUCTION ENTRANCES.
2. CONSTRUCT THE SILT FENCES ON THE SITE.
3. INSTALL RIPRAP AROUND OUTLET STRUCTURES.
4. PREPARE SITE FOR CONSTRUCTION.
5. PILE DRIVING FOR SOLAR FEATURES, AND TRENCHING FOR UNDERGROUND UTILITIES WILL COMMENCE, AND CONCRETE PADS WILL BE POURED.
6. RACKING AND SOLAR MODULES WILL BE INSTALLED ON PILES.
7. COVER ACCESS ROAD WITH GRAVEL.
8. RESTABILIZE DISTURBED AREAS.
9. REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER SITE HAS BEEN STABILIZED, IF REQUIRED BY CONTRACT.

EROSION CONTROL NOTES

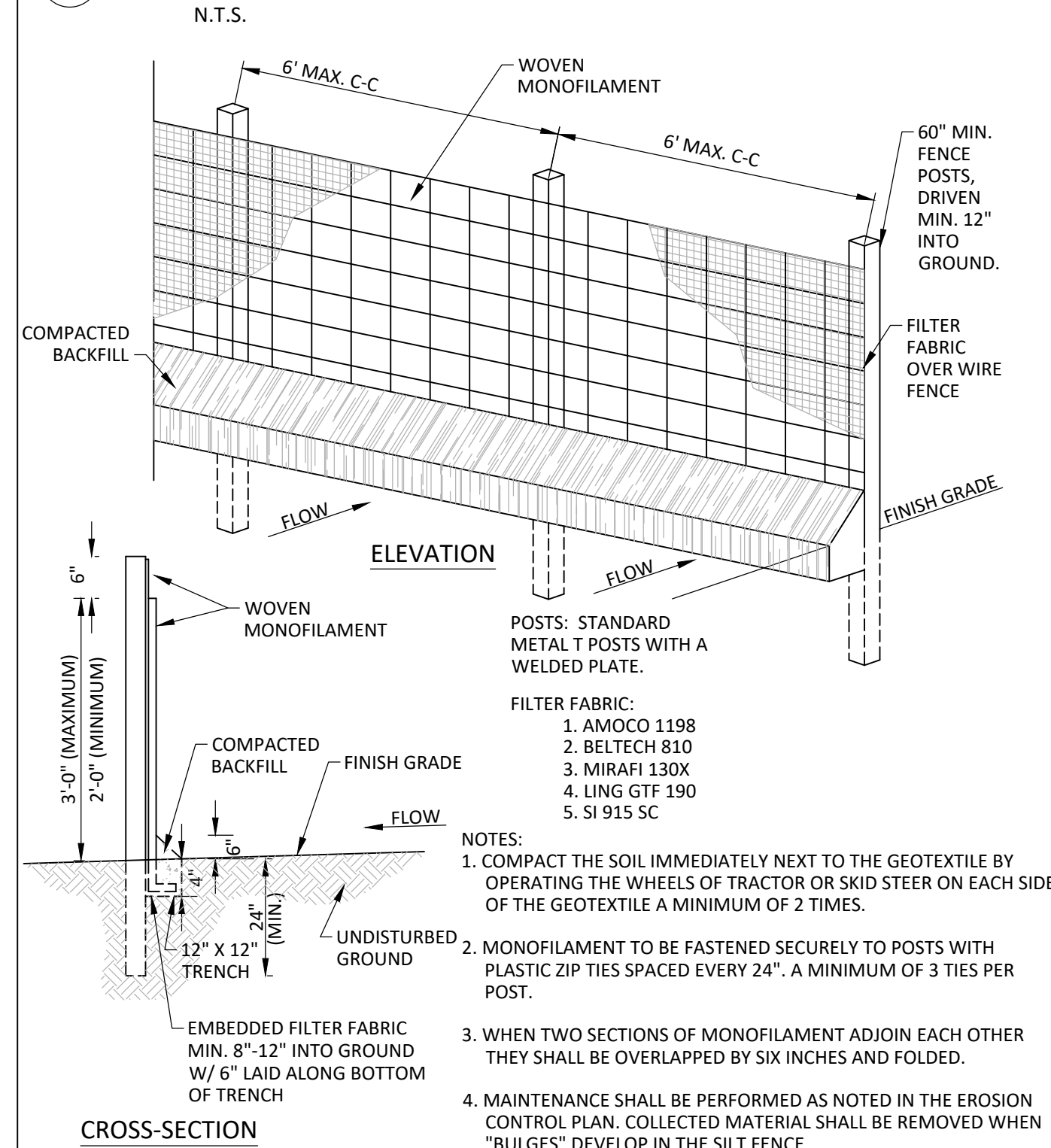
1. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME. WHERE A CONFLICT EXISTS BETWEEN LOCAL JURISDICTIONAL STANDARD SPECIFICATIONS AND NES STANDARD SPECIFICATIONS, THE MORE STRINGENT SPECIFICATION SHALL APPLY.
2. THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IS COMPRISED OF THIS DRAWING (EROSION & SEDIMENTATION CONTROL PLAN-ESC PLAN), THE STANDARD DETAILS, THE PLAN NARRATIVE, AND ITS APPENDICES, PLUS THE PERMIT AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETING & SUBMITTING THE APPLICATION FOR THE GENERAL STORMWATER PERMIT FOR CONSTRUCTION ACTIVITY. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE SWPPP AND THE STATE OF MAINE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THE CONTENTS. THE SWPPP AND ALL OTHER RELATED DOCUMENTS MUST BE KEPT AT THE SITE DURING CONSTRUCTION.
4. CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES (BMP'S) AS REQUIRED BY THE SWPPP & PERMITS. CONTRACTOR SHALL OVERSEE THE INSPECTION & MAINTENANCE OF THE BMP'S AND EROSION PREVENTION FROM BEGINNING OF CONSTRUCTION AND UNTIL CONSTRUCTION IS COMPLETED, IS APPROVED BY ALL AUTHORITIES, AND THE NOTICE OF TERMINATION (NOT) HAS BEEN FILED WITH THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION BY EITHER THE OWNER OR OPERATOR AS APPROVED ON PERMIT. ADDITIONAL BMP'S SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
5. BMP'S AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY OR OWNER.
6. CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THESE PLANS SHALL BE CLEARLY DELINEATED (E.G. WITH FLAGS, STAKES, SIGNS, SILT FENCE, ETC.) ON THE DEVELOPMENT SITE BEFORE WORK BEGINS. GROUND DISTURBING ACTIVITIES MUST NOT OCCUR OUTSIDE THE LIMITS OF DISTURBANCE.
7. GENERAL CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.
8. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) MUST BE LIMITED TO A DEFINED AREA OF THE SITE AND SHALL BE CONTAINED AND PROPERLY TREATED OR DISPOSED. NO ENGINE DEGREASING IS ALLOWED ON SITE.
9. ALL LIQUID AND SOLID WASTES GENERATED BY CONCRETE WASHOUT OPERATIONS MUST BE CONTAINED IN A LEAK-PROOF CONTAINMENT FACILITY OR IMPERMEABLE LINER. A COMPACTED CLAY LINER IS NOT ACCEPTABLE. THE LIQUID AND SOLID WASTES MUST NOT CONTACT THE GROUND, AND THERE MUST NOT BE RUNOFF FROM THE CONCRETE WASHOUT OPERATIONS OR AREAS. LIQUID AND SOLID WASTES MUST BE DISPOSED OF PROPERLY AND IN COMPLIANCE WITH STATE REGULATIONS. A SIGN MUST BE INSTALLED ADJACENT TO EACH WASHOUT FACILITY TO INFORM CONCRETE EQUIPMENT OPERATORS TO UTILIZE THE PROPER FACILITIES. SELF-CONTAINED CONCRETE WASHOUTS ON CONCRETE DELIVERY TRUCKS ARE ALLOWED.
10. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
11. DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
12. SOLID WASTE: COLLECTED SEDIMENT, ASPHALT & CONCRETE MILLINGS, FLOATING DEBRIS, PAPER, PLASTIC, FABRIC, CONSTRUCTION & DEMOLITION DEBRIS & OTHER WASTES MUST BE DISPOSED OF PROPERLY & MUST COMPLY WITH STATE DISPOSAL REQUIREMENTS.
13. HAZARDOUS MATERIALS: OIL, GASOLINE, PAINT & ANY HAZARDOUS SUBSTANCES MUST BE PROPERLY STORED, INCLUDING SECONDARY CONTAINMENT, TO PREVENT SPILLS, LEAKS OR OTHER DISCHARGE. RESTRICTED ACCESS TO STORAGE AREAS MUST BE PROVIDED TO PREVENT VANDALISM. STORAGE & DISPOSAL OF HAZARDOUS WASTE MUST BE IN COMPLIANCE WITH STATE REGULATIONS.
14. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THIS PLAN, AND IN THE SWPPP, SHALL BE INITIATED AS SOON AS PRACTICABLE AND PRIOR TO SOIL DISTURBING ACTIVITIES UP-SLOPE.
15. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS STOPPED SHALL BE TEMPORARILY SEEDED, WITHIN 14 DAYS OF INACTIVITY. SEEDING MIXES, METHOD AND APPLICATION RATE SHALL CONFORM TO SPECIFICATION CONTAINED WITHIN THIS PLAN. TEMPORARY MULCH SHALL BE APPLIED. ALTERNATIVELY, HYDRAULIC SOIL STABILIZER MAY BE USED IN PLACE OF TEMPORARY MULCH.
16. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY STABILIZED. THESE AREAS SHALL BE STABILIZED IN ACCORDANCE WITH THE TIME TABLE DESCRIBED ABOVE. REFER TO THE GRADING PLAN AND/OR LANDSCAPE PLAN FOR VEGETATIVE COVER.
17. CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING SEDIMENT FROM CONVEYANCES & FROM TEMPORARY SEDIMENTATION BASINS THAT ARE TO BE USED AS PERMANENT WATER QUALITY MANAGEMENT BASINS. SEDIMENT MUST BE STABILIZED TO PREVENT IT FROM BEING WASHED BACK INTO THE BASIN, CONVEYANCES, OR DRAINAGE-WAYS DISCHARGING OFF-SITE OR TO SURFACE WATERS. THE CLEAN-OUT OF PERMANENT BASINS MUST BE SUFFICIENT TO RETURN THE BASIN TO DESIGN CAPACITY.
18. ON-SITE & OFF-SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BMP'S. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE SITE MAP AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.
19. TEMPORARY SOIL STOCKPILES MUST HAVE SILT FENCE OR OTHER EFFECTIVE SEDIMENT CONTROLS & CANNOT BE PLACED IN SURFACE WATERS, INCLUDING STORMWATER CONVEYANCES SUCH AS CURB & GUTTER SYSTEMS OR CONDUITS & DITCHES.
20. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
21. DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (SILT FENCES, CHECK DAMS, INLET PROTECTION DEVICES, ETC.) TO PREVENT EROSION.
22. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY, THIS INCLUDES BACKFILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.

MAINTENANCE NOTES

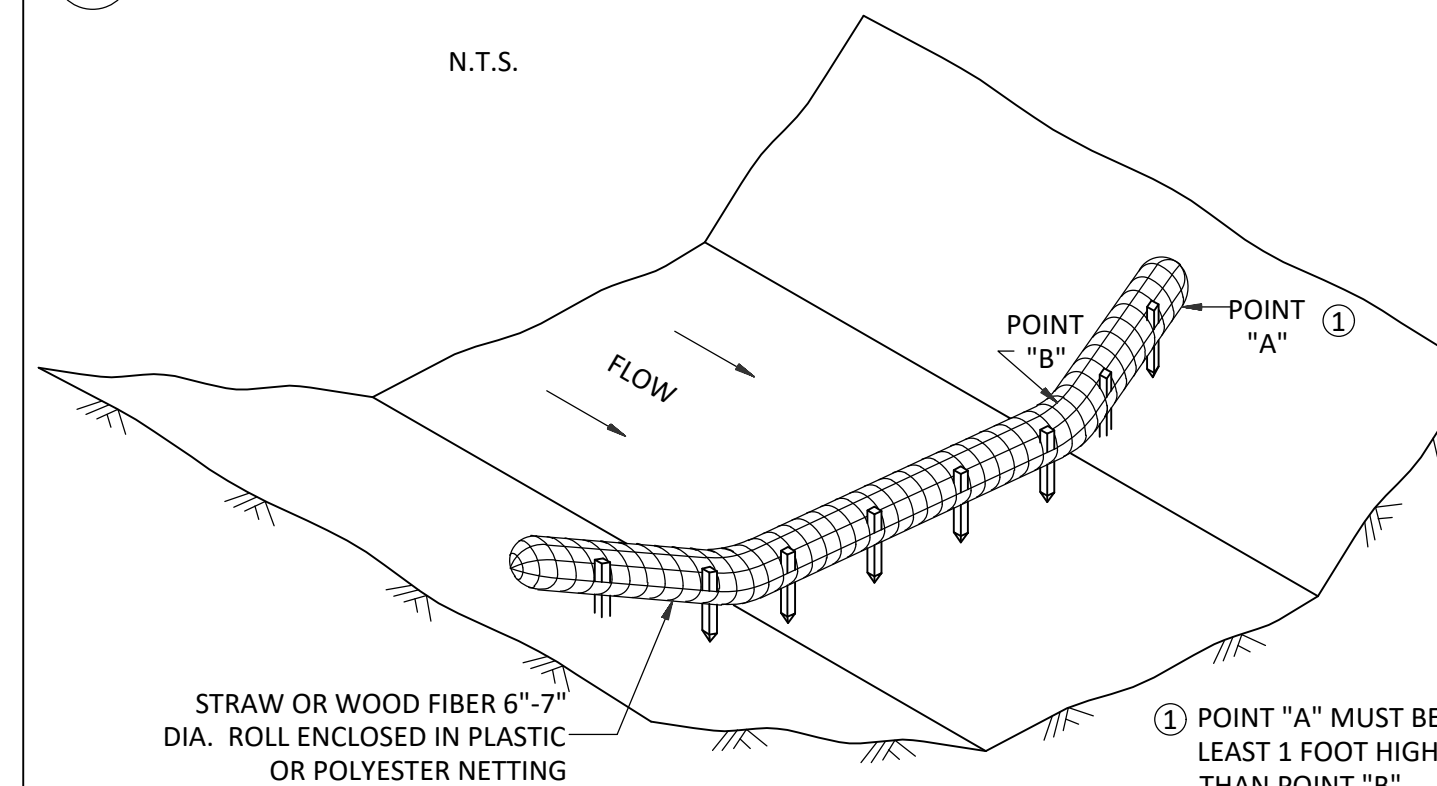
ALL MEASURES STATED ON THIS EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. THE DESIGNATED CONTACT PERSON NOTED ON THIS PLAN MUST ROUTINELY INSPECT THE CONSTRUCTION ON SITE ONCE EVERY SEVEN DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CLEANED AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

1. ALL SILT FENCES MUST BE REPAIRED, REPLACED, OR SUPPLEMENTED WHEN THEY BECOME NONFUNCTIONAL OR THE SEDIMENT REACHES 1/3 OF THE HEIGHT OF THE FENCE. THESE REPAIRS MUST BE MADE WITHIN 24 HOURS OF DISCOVERY, OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS.
2. TEMPORARY AND PERMANENT SEDIMENTATION BASINS MUST BE DRAINED AND THE SEDIMENT REMOVED WHEN THE DEPTH OF SEDIMENT COLLECTED IN THE BASIN REACHES 1/2 THE STORAGE VOLUME. DRAINAGE AND REMOVAL MUST BE COMPLETED WITHIN 72 HOURS OF DISCOVERY, OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS (SEE PART IV.D. OF THE GENERAL PERMIT).
3. SURFACE WATERS, INCLUDING DRAINAGE DITCHES AND CONVEYANCE SYSTEMS, MUST BE INSPECTED FOR EVIDENCE OF SEDIMENT BEING DEPOSITED BY EROSION. CONTRACTOR MUST REMOVE ALL DELTAS AND SEDIMENT DEPOSITED IN SURFACE WATERS, INCLUDING DRAINAGE WAYS, CATCH BASINS, AND OTHER DRAINAGE SYSTEMS, AND RESTABILIZE THE AREAS WHERE SEDIMENT REMOVAL RESULTS IN EXPOSED SOIL. THE REMOVAL AND STABILIZATION MUST TAKE PLACE WITHIN SEVEN (7) DAYS OF DISCOVERY UNLESS PRECLUDED BY LEGAL, REGULATORY, OR PHYSICAL ACCESS CONSTRAINTS. CONTRACTOR SHALL USE ALL REASONABLE EFFORTS TO OBTAIN ACCESS. IF PRECLUDED, REMOVAL AND STABILIZATION MUST TAKE PLACE WITHIN SEVEN (7) CALENDAR DAYS OF OBTAINING ACCESS. CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL LOCAL, REGIONAL, STATE AND FEDERAL AUTHORITIES AND RECEIVING ANY APPLICABLE PERMITS, PRIOR TO CONDUCTING ANY WORK.
4. CONSTRUCTION SITE VEHICLE EXIT LOCATIONS MUST BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING ONTO PAVED SURFACES. TRACKED SEDIMENT MUST BE REMOVED FROM ALL OFF-SITE PAVED SURFACES, WITHIN 24 HOURS OF DISCOVERY, OR IF APPLICABLE, WITHIN A SHORTER TIME TO COMPLY WITH PART IV.C.6 OF THE GENERAL PERMIT.
5. CONTRACTOR IS RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF TEMPORARY AND PERMANENT WATER QUALITY MANAGEMENT BMP'S, AS WELL AS ALL EROSION PREVENTION AND SEDIMENT CONTROL BMP'S, FOR THE DURATION OF THE CONSTRUCTION WORK AT THE SITE. THE PERMITTEE(S) ARE RESPONSIBLE UNTIL ANOTHER PERMITTEE HAS ASSUMED CONTROL (ACCORDING TO PART II.B.5 OF THE MPCA GENERAL PERMIT) OVER ALL AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED OR THE SITE HAS UNDERGONE FINAL STABILIZATION, AND A (N.O.T.) HAS BEEN SUBMITTED TO THE MPCA.
6. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT MUST BE REMOVED IN A MANNER AND AT A FREQUENCY SUFFICIENT TO MINIMIZE OFF-SITE IMPACTS (E.G., FUGITIVE SEDIMENT IN STREETS COULD BE WASHED INTO STORM SEWERS BY THE NEXT RAIN AND/OR POSE A SAFETY HAZARD TO USERS OF PUBLIC STREETS).
7. ALL INFILTRATION AREAS MUST BE INSPECTED TO ENSURE THAT NO SEDIMENT FROM ONGOING CONSTRUCTION ACTIVITIES IS REACHING THE INFILTRATION AREA AND THESE AREAS ARE PROTECTED FROM COMPACTION DUE TO CONSTRUCTION EQUIPMENT DRIVING ACROSS THE INFILTRATION AREA.

1 MACHINE SLICED SILT FENCE

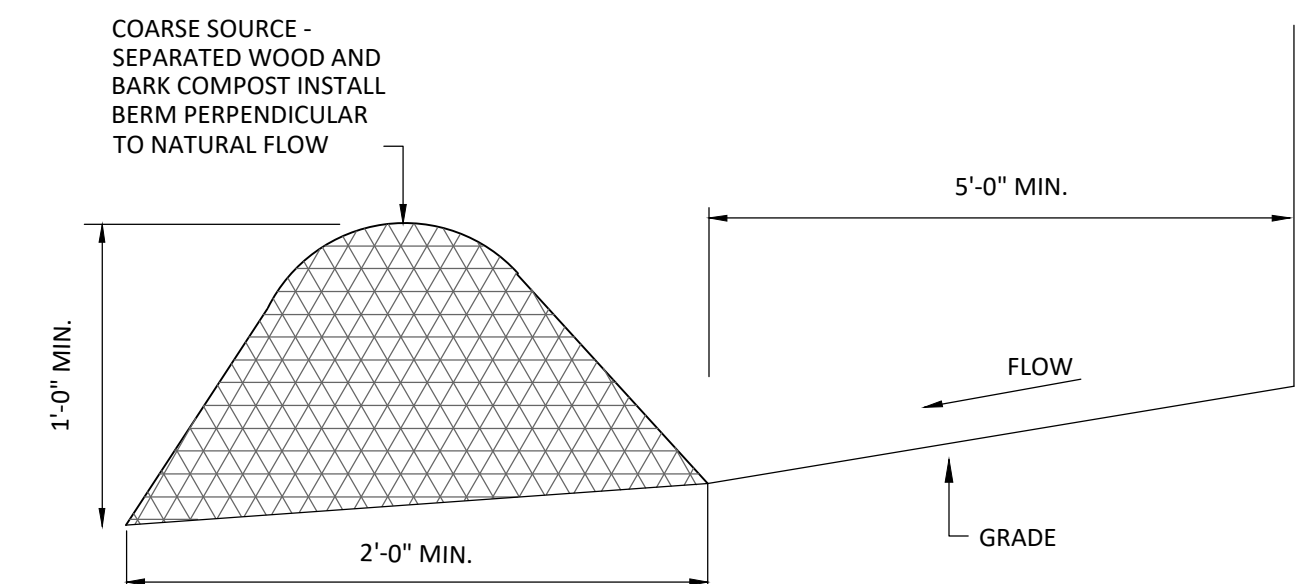


2 BIO ROLL



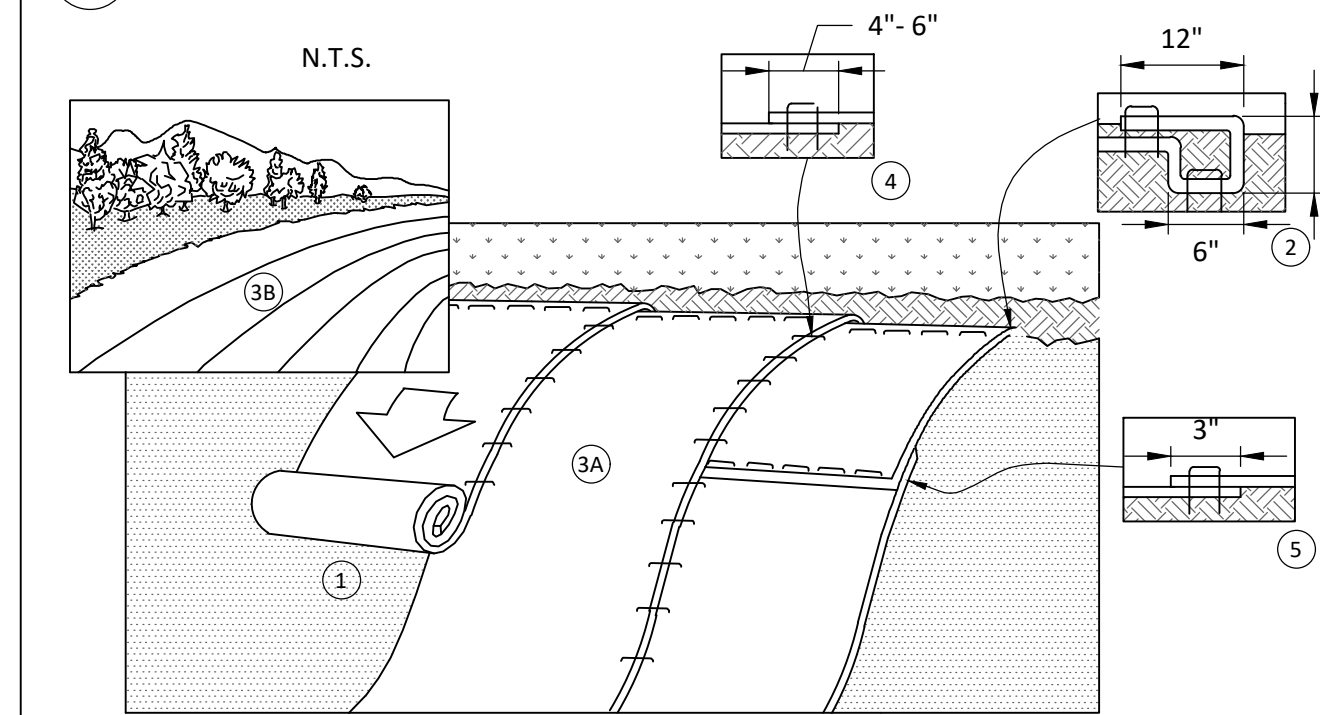
3 EROSION CONTROL BERM

(MAY BE USED AS AN ALTERNATE TO SILT FENCE OR PLACED UPGRADIENT OF SILT FENCE)



- NOTES:**
1. THE EROSION CONTROL MIX MUST BE WELL-GRADED WITH AN ORGANIC COMPONENT THAT IS BETWEEN 50 AND 100% OF DRY WEIGHT, AND THAT IS COMPOSED OF FIBROUS AND ELONGATED FRAGMENTS.
 2. THE MINERAL PORTION OF THE MIX SHOULD BE NATURALLY INCLUDED IN THE PRODUCT WITH NO LARGER ROCKS (>4") OR LARGE AMOUNTS OF FINES (SILTS AND CLAYS).
 3. IN STUMP GRINDING, THE MINERAL SOIL ORIGINATES FROM THE ROOT BALL AND SHOULD NOT BE REMOVED BEFORE GRINDING.
 4. THE MIX SHOULD BE FREE OF REFUSE, MATERIAL TOXIC TO PLANT GROWTH OR UNSUITABLE MATERIAL (BARK CHIPS, GROUND CONSTRUCTION DEBRIS OR REPROCESSED WOOD PRODUCTS).

4 EROSION CONTROL BLANKET

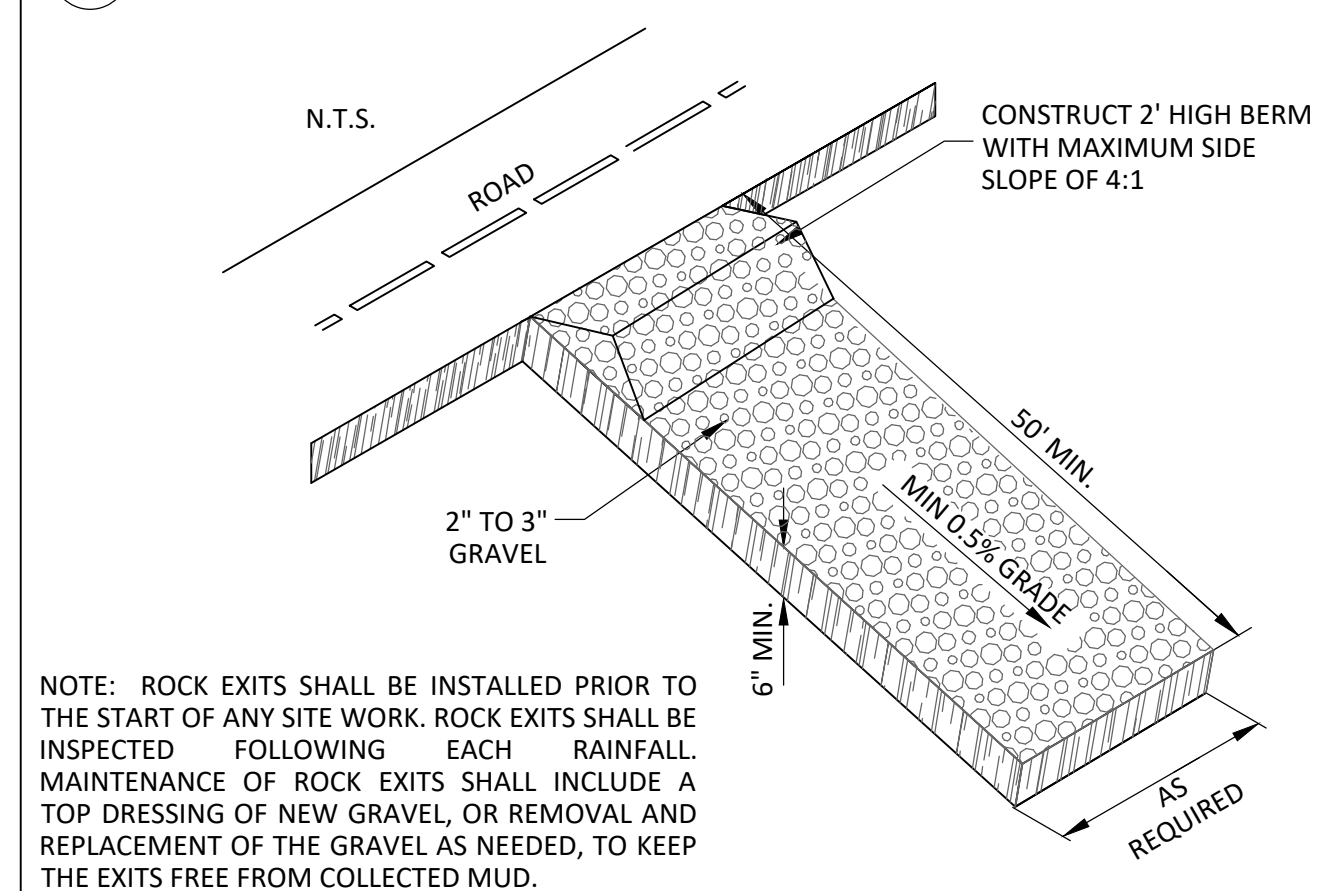


1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS PER MANUFACTURERS RECOMMENDATION.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 4"-6" OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
5. CONSECUTIVE BLANKETS SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH.
6. PLACE STAPLES/STAKES PER MANUFACTURE RECOMMENDATION FOR THE APPROPRIATE SLOPE BEING APPLIED.

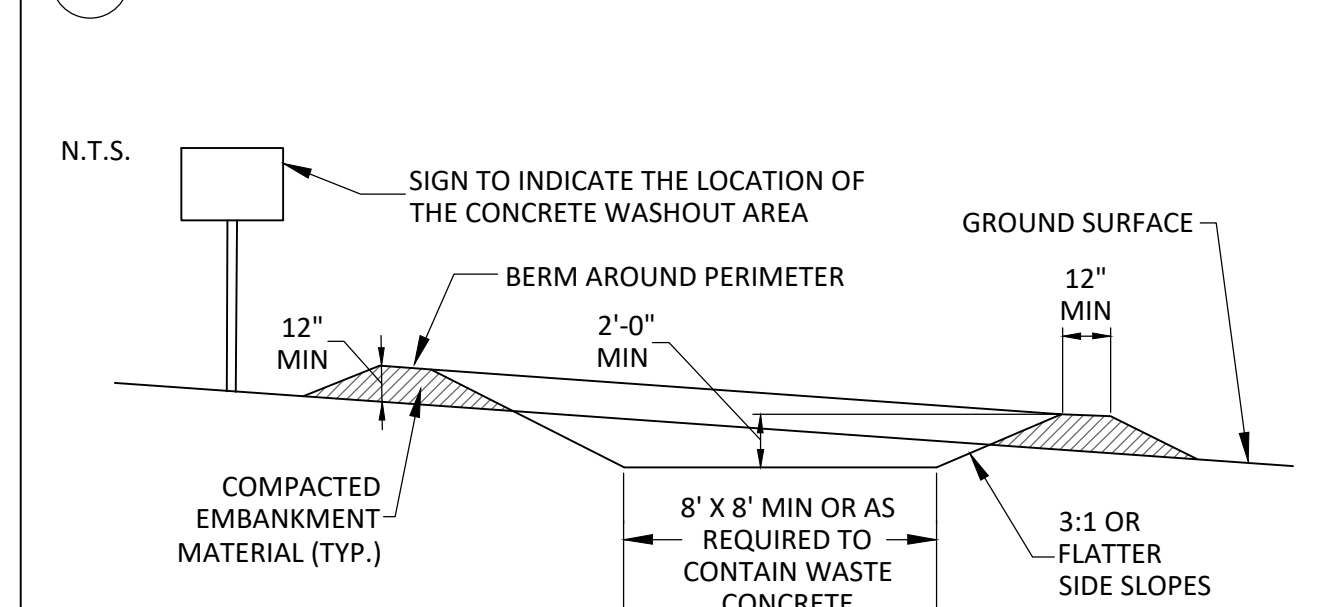
NOTES:

1. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.
2. FOLLOW EROSION CONTROL TECHNOLOGY COUNCIL SPECIFICATION FOR PRODUCT SELECTION

5 ROCK CONSTRUCTION ENTRANCE



6 CONCRETE WASHOUT AREA



NOTES:

1. CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE.
2. CONCRETE WASHOUT AREA SHALL BE LINED WITH MINIMUM 10 MIL THICK PLASTIC LINER.
3. VEHICLE TRACKING CONTROL IS REQUIRED IF ACCESS TO CONCRETE WASHOUT AREA IS OFF PAVEMENT.
4. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE WASHOUT AREA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT AREA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
5. THE CONCRETE WASHOUT AREA SHALL BE REPAIRED AND ENLARGED OR CLEANED OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE.
6. AT THE END OF CONSTRUCTION, ALL CONCRETE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN ACCEPTED WASTE SITE.
7. WHEN THE CONCRETE WASHOUT AREA IS REMOVED, THE DISTURBED AREA SHALL BE SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER ACCEPTED BY THE CITY.



2303 Wycliff St, Suite 300
St Paul, MN 55114

info@novelenergy.biz
612-345-7188 telephone

Landowner
**CLAUDE F
DAIGLE JR.**

GORHAM, ME

Project
**ME GORHAM
DAIGLE CSG LLC**

Location
**N43.7267°,
W70.4428°**

Certification

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly licensed professional ENGINEER under the laws of the state of Maine.

**PRELIMINARY
NOT FOR
CONSTRUCTION**

SCOTT GEDDES, P.E.
Registration No. 16864 Date: 6/13/23

If applicable, contact us for a wet signed copy of this plan which is available upon request at Novel Energy Solutions - St. Paul, MN office.

Summary

Designed: DAP Drawn: DAP
Approved: SEG Project: 22 458. 08
Phase: PERMITTING Initial Issue: 2/16/23

Revisions

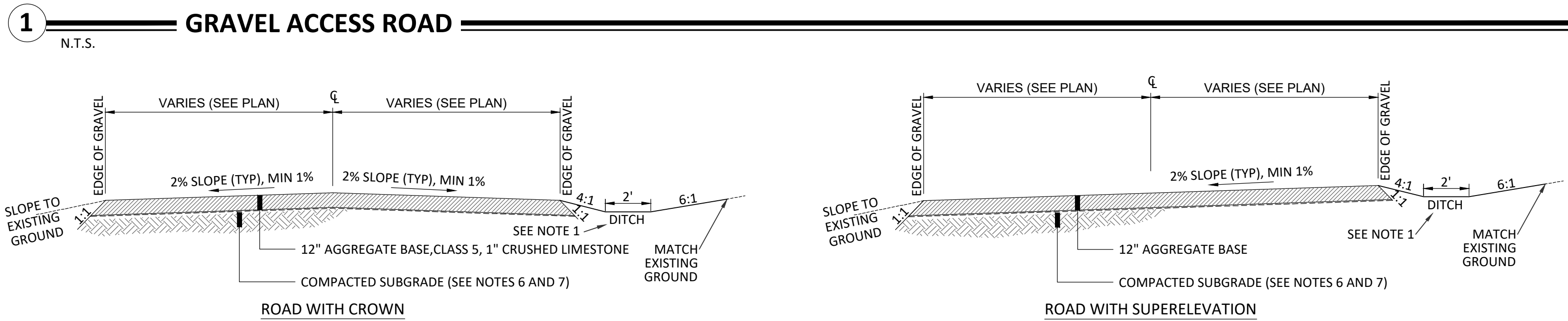
No.	Date	By	Chk	Description
1	06/27	DAP	SEG	TOWN OF GORHAM REVISION
2	12/7	DAP	SEG	TOWN OF GORHAM REVISION
-	-	-	-	-
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Sheet Title
**EROSION
CONTROL
NOTES & MAP 69
DETAILS LOT 1-1**

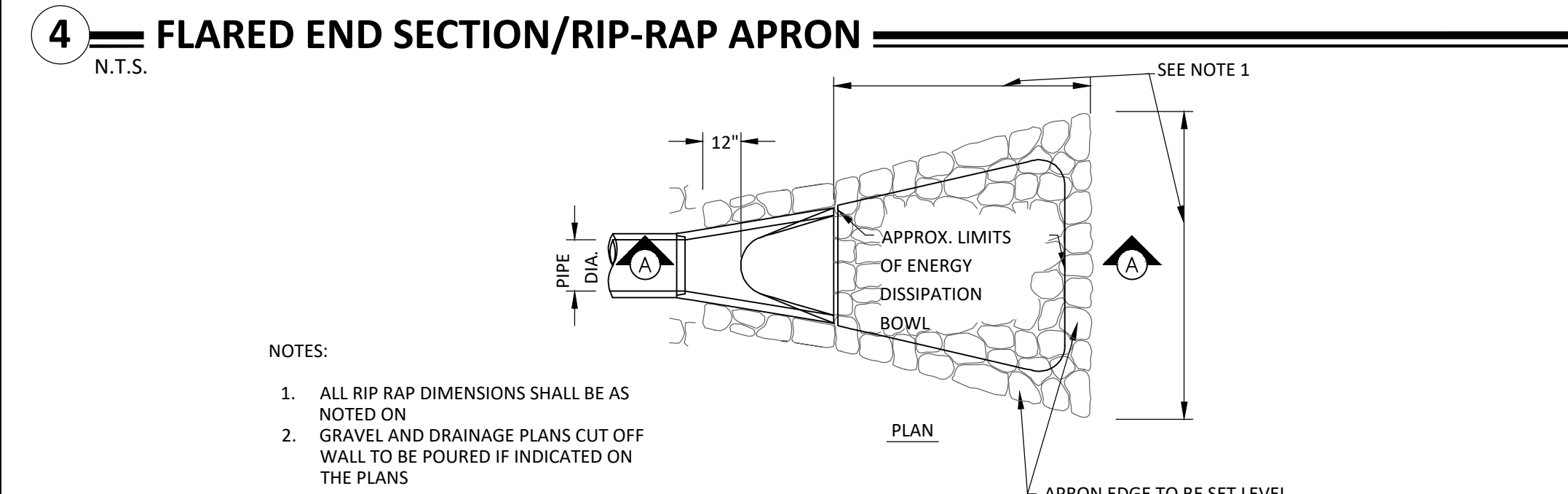
Sheet No. Revision

C5.02 IFP

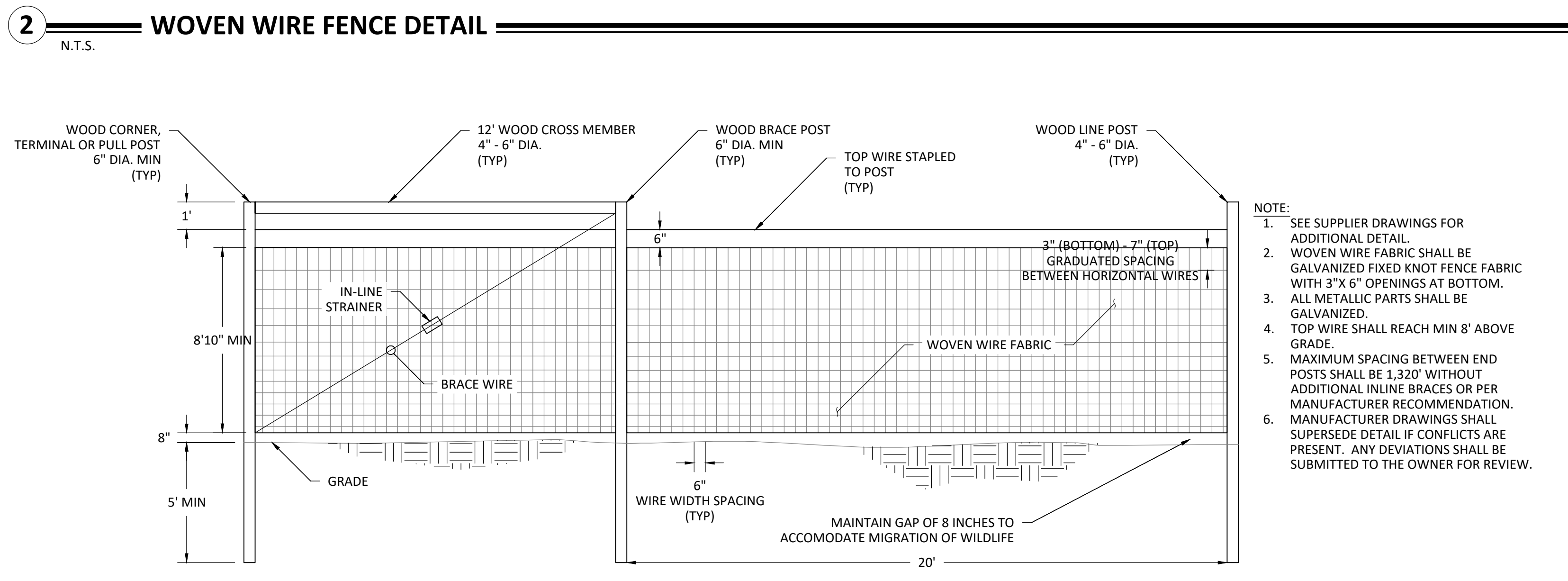
Project No. GRHM



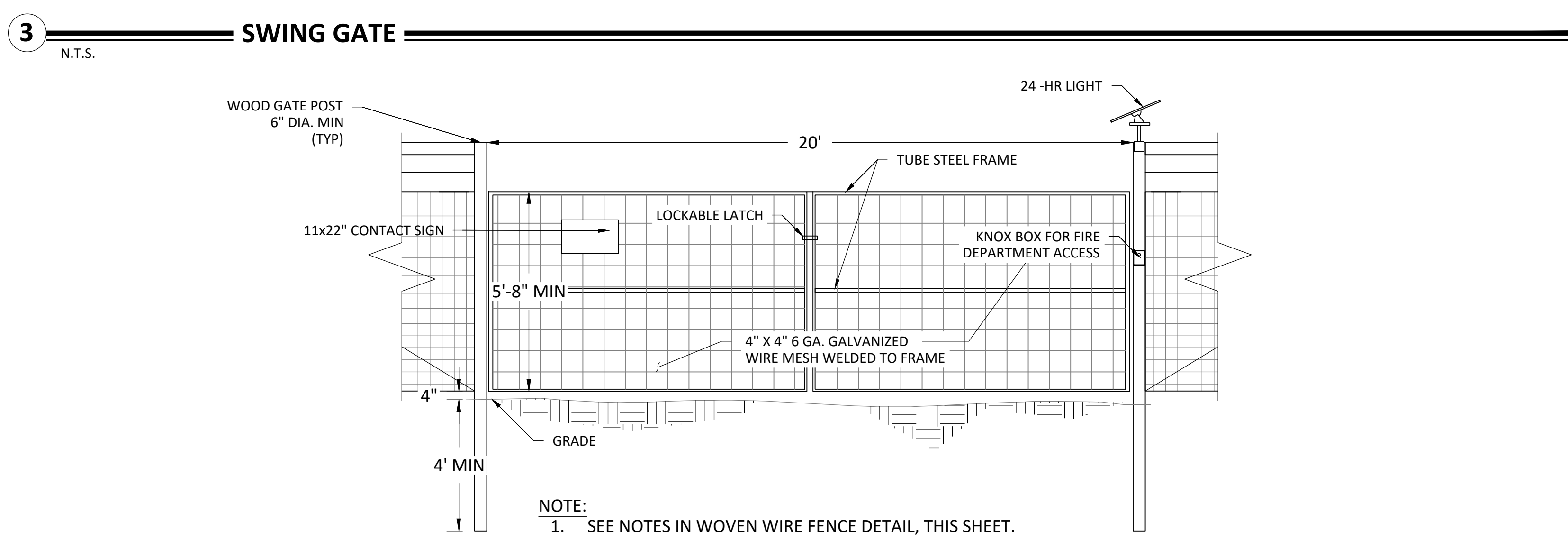
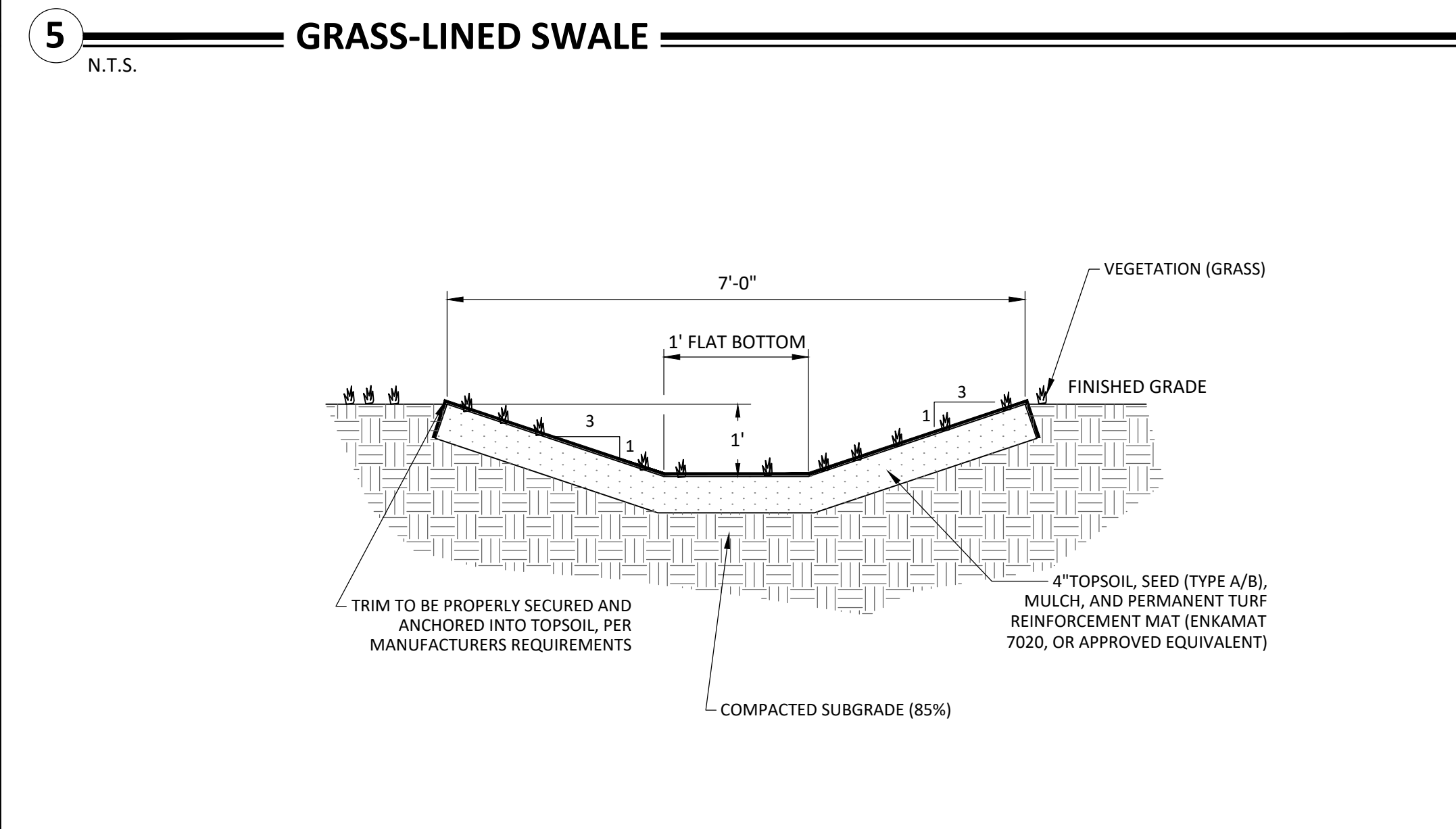
- NOTES:
1. THE CONTRACTOR SHALL COORDINATE WITH THE DEVELOPER, PRIOR TO CONSTRUCTION, TO DETERMINE IF THE ROAD WILL NEED TO BE CONSTRUCTED PER THIS DETAIL.
 2. CONSTRUCT DITCH AS SHOWN ABOVE ONLY WHERE INDICATED BY CONTOURS ON THE GRADING PLAN.
 3. IN THE ABSENCE OF A ROADSIDE DITCH, SLOPE FROM EDGE OF GRAVEL TO EXISTING GROUND @3:1.
 4. 2% CROSS SLOPE IS TYPICAL, BUT CAN BE ADJUSTED DOWN TO MATCH EXISTING GROUND SLOPE IN ORDER TO PROMOTE CONTINUED SHEET DRAINAGE ACROSS ROAD. CROSS SLOPE SHALL NOT BE LESS THAN 1%.
 5. ROAD GRADES ARE TYPICALLY INTENDED TO MATCH ADJACENT GRADE ALLOWING DRAINAGE TO SHEET ON AND OFF OF ROADS EVENLY. CARE SHOULD BE TAKEN TO FIELD ADJUST ROAD GRADES OR DITCH LOCATIONS AS NECESSARY TO PREVENT RUNOFF FROM CONCENTRATING ALONG ROAD EDGES CAUSING EROSION.
 6. UNSTABLE AREAS IDENTIFIED DURING PROOF ROLL SHOULD BE EXCAVATED A MINIMUM OF 12 INCHES AND E-STABILIZED. PLACE GRANULAR BACKFILL IN MAXIMUM 12-INCH THICK LOOSE LIFTS. COMPACT TO A MINIMUM OF 95% OF STANDARD MAXIMUM DENSITY.
 7. IF SITE CONDITIONS WARRANT USE OF A GEOTEXTILE FABRIC, CONTRACTOR SHALL USE TENSAR BX1100 OR EQUAL, PER GEOTECH REPORT.



- NOTES:
1. ALL RIP RAP DIMENSIONS SHALL BE AS NOTED ON GRAVEL AND DRAINAGE PLANS CUT OFF WALL TO BE POURED IF INDICATED ON THE PLANS



- NOTE:
1. SEE SUPPLIER DRAWINGS FOR ADDITIONAL DETAIL.
 2. WOVEN WIRE FABRIC SHALL BE GALVANIZED FIXED KNOT FENCE FABRIC WITH 3"X 6" OPENINGS AT BOTTOM.
 3. ALL METALLIC PARTS SHALL BE GALVANIZED.
 4. TOP WIRE SHALL REACH MIN 8' ABOVE GRADE.
 5. MAXIMUM SPACING BETWEEN END POSTS SHALL BE 1,320' WITHOUT ADDITIONAL INLINE BRACES OR PER MANUFACTURER RECOMMENDATION.
 6. MANUFACTURER DRAWINGS SHALL SUPERSEDE DETAIL IF CONFLICTS ARE PRESENT. ANY DEVIATIONS SHALL BE SUBMITTED TO THE OWNER FOR REVIEW.



- NOTE:
1. SEE NOTES IN WOVEN WIRE FENCE DETAIL, THIS SHEET.

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 2303 Wycliff St, Suite 300
 St Paul, MN 55114
 info@novelenergy.biz
 612-345-7188 telephone

Landowner
CLAUDE F DAIGLE JR.

GORHAM, ME
Project
ME GORHAM DAIGLE CSG LLC

Location
N43.7267°, W70.4428°

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PRELIMINARY NOT FOR CONSTRUCTION
 SCOTT GOODSON, P.E.
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-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

Sheet Title
CONSTRUCTION DETAILS
MAP 69 LOT 1-1
Sheet No. Revision
C9.01 IFP
Project No. GRHM

GENERAL NOTES

- ALL SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE MAINE EROSION AND SEDIMENTATION CONTROL BEST MANAGEMENT PRACTICES (BMPs), PUBLISHED BY THE BUREAU OF LAND AND WATER QUALITY, MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION, LATEST EDITION.
- THE CONTRACTOR SHALL INSPECT THE SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS RELATING TO THE NATURE AND SCOPE OF THE WORK.
- THE CONTRACTOR SHALL VERIFY PLAN LAYOUT AND BRING TO THE ATTENTION OF THE ENGINEER DISCREPANCIES WHICH MAY COMPROMISE THE DESIGN OR INTENT OF THE LAYOUT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE CODES, REGULATIONS, AND PERMITS GOVERNING THE WORK.
- THE CONTRACTOR SHALL PROTECT EXISTING ROADS, CURBS/GUTTERS, TRAILS, TREES, LAWNS AND SITE ELEMENTS DURING CONSTRUCTION. DAMAGE TO SAME SHALL BE REPAIRED AND/OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- LOCATE AND VERIFY ALL UTILITIES, INCLUDING IRRIGATION LINES, WITH THE OWNER FOR PROPRIETARY UTILITIES AND DIG SAFE 48 HOURS BEFORE DIGGING. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND REPAIR OF ANY DAMAGES TO SAME. NOTIFY THE ENGINEER OF ANY CONFLICTS TO FACILITATE PLANT RELOCATION.
- THE LANDSCAPE CONTRACTOR SHALL COORDINATE THE PHASES OF CONSTRUCTION AND PLANTING INSTALLATION WITH OTHER CONTRACTORS WORKING ON SITE.**
- THE CONTRACTOR SHALL REVIEW THE SITE FOR DEFICIENCIES IN SITE CONDITIONS WHICH MIGHT NEGATIVELY AFFECT PLANT ESTABLISHMENT, SURVIVAL OR WARRANTY. UNDESIRABLE SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BEGINNING OF WORK.
- THE PLAN TAKES PRECEDENCE OVER THE LANDSCAPE LEGEND IF DISCREPANCIES EXIST. QUANTITIES SHOWN IN THE PLANTING SCHEDULE ARE FOR THE CONTRACTOR'S CONVENIENCE. CONTRACTOR TO VERIFY QUANTITIES SHOWN ON THE PLAN.
- THE SPECIFICATIONS TAKE PRECEDENCE OVER THE PLANTING NOTES AND GENERAL NOTES.
- EXISTING TREES AND SHRUBS TO REMAIN SHALL BE PROTECTED TO THE DRIP LINE FROM ALL CONSTRUCTION TRAFFIC, STORAGE OF MATERIALS ETC. WITH 4' HT. ORANGE PLASTIC SAFETY FENCING ADEQUATELY SUPPORTED BY FENCE POSTS 6' O.C. MAXIMUM SPACING.
- LONG-TERM STORAGE OF MATERIALS OR SUPPLIES ON-SITE WILL NOT BE ALLOWED.
- CONTRACTOR SHALL REQUEST IN WRITING, A FINAL ACCEPTANCE INSPECTION.

PLANTING NOTES

- NO PLANTS SHALL BE INSTALLED UNTIL FINAL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.
- A GRANULAR PRE-EMERGENT HERBICIDE SHALL BE APPLIED TO ALL PLANT BEDS AT THE MANUFACTURERS RECOMMENDED RATE PRIOR TO PLANT INSTALLATION.
- ALL PLANTING STOCK SHALL CONFORM TO THE "AMERICAN STANDARD FOR NURSERY STOCK," ANSI-Z60, LATEST EDITION, OF THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. AND SHALL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIALS.
- ALL PLANTS MUST BE HEALTHY, VIGOROUS MATERIAL, FREE OF PESTS AND DISEASE AND BE CONTAINER GROWN OR BALLED AND BURLAPPED AS INDICATED IN THE LANDSCAPE LEGEND.
- PLANT MATERIALS TO BE INSTALLED PER PLANTING DETAILS.
- ALL TREES MUST BE STRAIGHT TRUNKED AND FULL HEADED AND MEET ALL REQUIREMENTS SPECIFIED.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY PLANTS WHICH ARE DEEMED UNSATISFACTORY BEFORE, DURING, OR AFTER INSTALLATION.
- NO SUBSTITUTIONS OF PLANT MATERIAL SHALL BE ACCEPTED UNLESS APPROVED IN WRITING BY THE ENGINEER.
- ALL PLANT MATERIAL QUANTITIES, SHAPES OF BEDS AND LOCATIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE COVERAGE OF ALL PLANTING BEDS AT SPACING SHOWN AND ADJUSTED TO CONFORM TO THE EXACT CONDITIONS OF THE SITE. THE ENGINEER SHALL APPROVE THE STAKING LOCATION OF ALL PLANT MATERIALS PRIOR TO INSTALLATION.
- ALL PLANTING AREAS MUST BE COMPLETELY MULCHED AS SPECIFIED.
- MULCH: SHREDDED HARDWOOD MULCH, CLEAN AND FREE OF NOXIOUS WEEDS OR OTHER DELETERIOUS MATERIAL, IN ALL MASS PLANTING BEDS AND FOR TREES, UNLESS INDICATED AS ROCK MULCH ON DRAWINGS. SUBMIT SAMPLE TO ENGINEER PRIOR TO DELIVERY ON-SITE FOR APPROVAL. DELIVER MULCH ON DAY OF INSTALLATION. USE 3" FOR SHRUB BEDS, TREE RINGS, AND 3" FOR PERENNIAL/GROUND COVER BEDS, UNLESS OTHERWISE DIRECTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MULCHES AND PLANTING SOIL QUANTITIES TO COMPLETE THE WORK SHOWN ON THE PLAN.
- USE ANTI-DESICCANT (WILTPRUF OR APPROVED EQUAL) ON DECIDUOUS PLANTS MOVED IN LEAF AND FOR EVERGREENS MOVED ANYTIME. APPLY AS PER MANUFACTURER'S INSTRUCTION. ALL EVERGREENS SHALL BE SPRAYED IN THE LATE FALL FOR WINTER PROTECTION DURING WARRANTY PERIOD.
- WRAP ALL SMOOTH-BARKED DECIDUOUS TREES PLANTED IN THE FALL PRIOR TO DECEMBER 1 AND REMOVE WRAPPING AFTER MAY 1. TREE WRAPPING MATERIAL SHALL BE WHITE TWO-WALLED PLASTIC SHEETING APPLIED FROM TRUNK FLARE TO THE FIRST BRANCH.
- ALL DECIDUOUS, PINE, AND LARCH PLANTINGS SHALL RECEIVE RODENT PROTECTION.
- PLANTING SOIL FOR TREES, SHRUBS AND GROUND COVERS: FERTILE FRIABLE LOAM CONTAINING A LIBERAL AMOUNT (4% MIN.) OF HUMUS AND CAPABLE OF SUSTAINING VIGOROUS PLANT GROWTH. MIXTURE SHALL BE FREE FROM HARDPACK SUBSOIL, STONES, CHEMICALS, NOXIOUS WEEDS, ETC. SOIL MIXTURE SHALL HAVE A PH BETWEEN 6.1 AND 7.5 AND 10-0-10 FERTILIZER AT THE RATE OF 3 POUNDS PER CUBIC YARD. IN PLANTING BEDS INCORPORATE THIS MIXTURE THROUGHOUT THE ENTIRE BED IN A 6" LAYER AND ROTO-TILLING IT INTO THE TOP 12" OF SOIL AT A 1:1 RATIO. ANY PLANT STOCK NOT PLANTED ON DAY OF DELIVERY SHALL BE HELED IN AND WATERED UNTIL INSTALLATION. PLANTS NOT MAINTAINED IN THIS MANNER WILL BE REJECTED.
- CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THAT EACH EXCAVATED TREE AND SHRUB PIT WILL PERCOLATE PRIOR TO INSTALLING PLANTING MEDIUM AND PLANTS. THE CONTRACTOR SHALL FILL THE BOTTOM OF SELECTED HOLES WITH SIX INCHES OF WATER AND CONFIRM THAT THIS WATER WILL PERCOLATE WITHIN A 24-HOUR PERIOD. IF THE SOIL AT A GIVEN AREA DOES NOT DRAIN PROPERLY, A PVC DRAIN OR GRAVEL SUMP SHALL BE INSTALLED OR THE PLANTING SHALL BE RELOCATED IF DIRECTED BY THE ENGINEER.
- ALL PLANTS SHALL BE GUARANTEED FOR **TWO COMPLETE GROWING SEASONS** (APRIL 1 - NOVEMBER 1), UNLESS OTHERWISE SPECIFIED. THE GUARANTEE SHALL COVER THE FULL COST OF REPLACEMENT INCLUDING LABOR AND PLANTS.
- CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 3 DAYS PRIOR TO PLANNED DELIVERY. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 24 HOURS IN ADVANCE OF BEGINNING PLANT INSTALLATION.
- SEASONS/TIME OF PLANTING AND SEEDING: NOTE: THE CONTRACTOR MAY ELECT TO PLANT IN OFF-SEASONS ENTIRELY AT HIS/HER RISK.

20.1. DECIDUOUS /B&B:	4/1 - 6/1;	9/21 - 11/1
20.2. EVERGREEN B&B:	4/1 - 5/1;	9/21 - 11/1
20.3. NATIVE MIX SEEDING:	4/15 - 7/20;	9/20-10/20
- MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER EACH PORTION OF THE WORK IS IN PLACE. PLANT MATERIAL SHALL BE PROTECTED AND MAINTAINED UNTIL THE INSTALLATION OF THE PLANTS IS COMPLETE, INSPECTION HAS BEEN MADE, AND PLANTINGS ARE ACCEPTED EXCLUSIVE OF THE GUARANTEE. MAINTENANCE SHALL INCLUDE WATERING, CULTIVATING, MULCHING, REMOVAL OF WATER AND MATERIALS, RE-SETTING PLANTS TO PROPER GRADE AND KEEPING PLANTS IN A PLUMB POSITION. AFTER ACCEPTANCE, THE OWNER SHALL ASSUME MAINTENANCE RESPONSIBILITIES. HOWEVER, THE CONTRACTOR SHALL CONTINUE TO BE RESPONSIBLE FOR KEEPING THE TREES PLUMB THROUGHOUT THE GUARANTEE PERIOD.

SEED AND MULCH SPECIFICATIONS

SEEDING

TYPE	LOCATION	NAME/SPECIES	SUPPLIER	SEEDING RATE
A/B	BETWEEN AND UNDER SOLAR PANELS	REBEL TALL FESCUE, CHEWINGS FESCUE OR HARD FESCUE		5#/1,000 SF
		ERNMX-129: CONSERVATION SHADE MIX	ERNSTSEED.COM	
C	OUTSIDE OF ARRAY	ERNMX-179: BUTTERFLY & HUMMINGBIRD GARDEN MIX	ERNSTSEED.COM	10#/ACRE

1. BETWEEN DECEMBER 1ST AND APRIL 1ST, EACH TYPE OF SEED SHALL HAVE AN ADDITIONAL 1#/1,000 SF OF WINTER RYEGRASS OR GRAIN RYE GRASS SEED.

2. IT SHALL BE THE SUB-CONTRACTORS RESPONSIBILITY TO ENSURE THAT THE PROJECT LIMIT OF WORK IS STABILIZED (IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS/REQUIREMENTS/PERMIT APPROVALS) DURING THE LENGTH OF THE PROJECT.

3. ALL DISTURBED AREAS SHALL BE RESTORED WITH 4" MINIMUM TOPSOIL & SEED PER SEEDING SPECIFICATIONS LISTED IN THIS TABLE.

MULCH

CONDITION	TIMING	MULCH TYPE ²	APPLICATION RATES ⁵
TEMPORARY			
INACTIVE AREAS	IF NO ACTIVITY IN EXPOSED AREAS FOR 7 DAYS, OR PRIOR TO A STORM EVENT	STRAW MULCH OR WOOD FIBER MULCH OR EROSION CONTROL MIX	2 TONS/ACRE 1 TON/ACRE 2" THICK OVER AREA
ALL DISTURBED AREAS OF THE CONSTRUCTION WORKSPACE	APPLY MULCH TO ALL EXPOSED AREAS IF NO ACTIVITY OCCURS WITHIN 30 DAYS. APPLY MULCH AND TEMPORARY SEEDING SOONER WHEN IT CAN BE ANTICIPATED THAT ACTIVITY IS NOT GOING TO OCCUR WITHIN 30 DAYS	STRAW MULCH OR WOOD FIBER MULCH	2 TONS/ACRE 1 TON/ACRE ³
ALL WORK AREAS EXPOSED ARE TO BE MULCHED DAILY EACH TIME SOIL IS DISTURBED ²	NOVEMBER 1 - APRIL 15	STRAW MULCH OR WOOD FIBER MULCH	4 TONS/ACRE 2 TONS/ACRE
PERMANENT			
ON ALL EXPOSED AREAS AFTER SEEDING TO STABILIZE THE SOIL SURFACE	PERMANENT GRASS AND/OR LEGUME SEEDING COVERED BY STRAW MULCH ON ALL AREAS THAT HAVE BEEN RESTORED TO FINAL GRADE. THIS DOES NOT APPLY TO AREAS STABILIZED BY OTHER MEANS SUCH AS JUTE MATTING OR PERMANENT EROSION CONTROL MIX	CRIMPED STRAW MULCH OR PAPER MULCH OR WOOD FIBER MULCH	2 TONS/ACRE 1500 LC./ACRE ⁴ 1 TON/ACRE

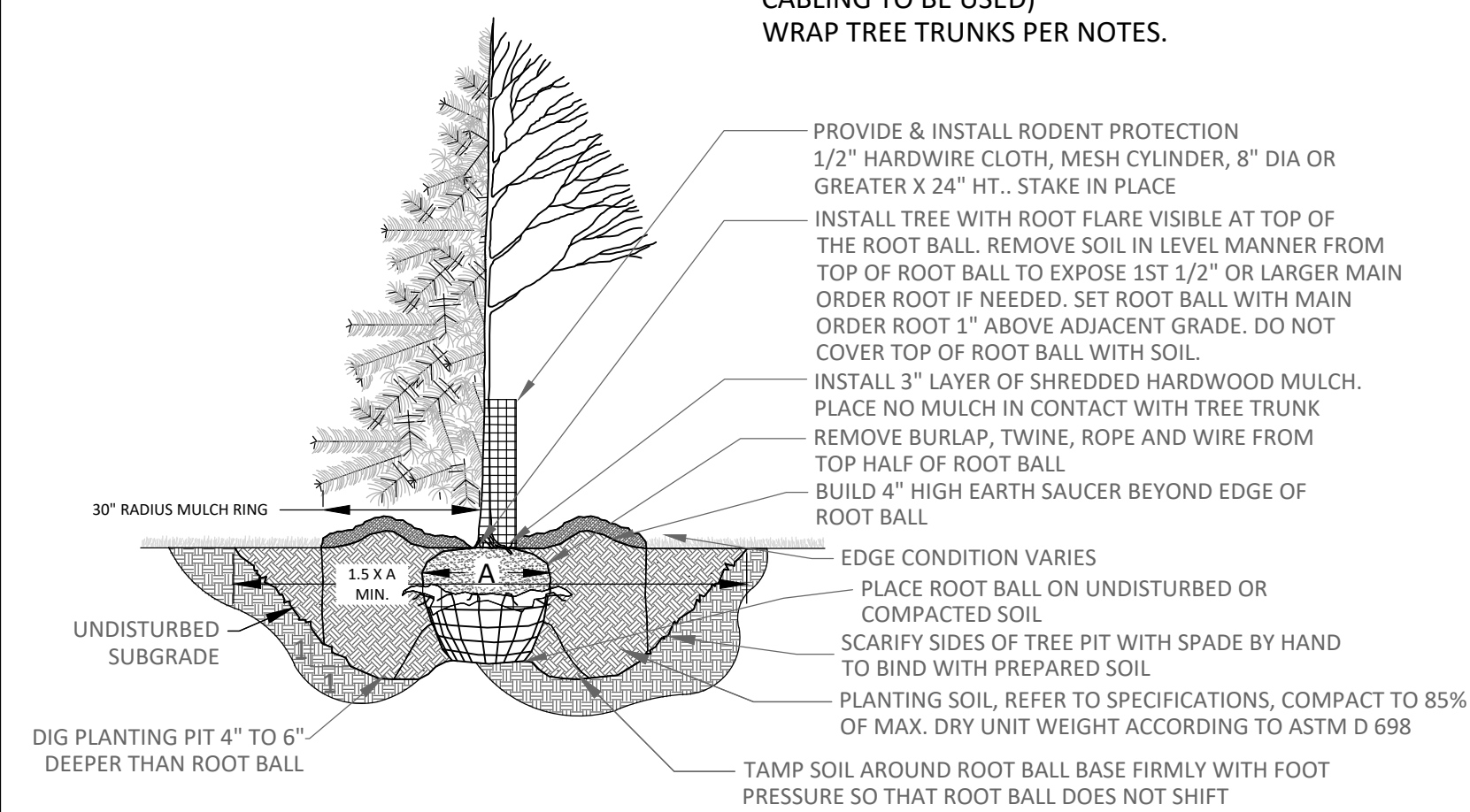
NOTES:
 1. IN ALL CASES, SUFFICIENT MULCH SHALL BE APPLIED SUCH THAT NO SOIL IS VISIBLE THROUGH THE MULCH.
 2. DOUBLE RATE OF WOOD FIBER MULCH WHEN USED IN OR ADJACENT TO CRITICAL AREAS. INCREASE MULCH RATE BY HALF UNDER SOLAR ARRAY DRIP EDGE.
 3. STRAW, HAY, OR HYDROMULCH (WOOD FIBER OR PAPER MULCH AS APPROPRIATE) SHALL PROVIDE MINIMUM 90 PERCENT GROUND COVERAGE.
 4. PAPER MULCH IS ACCEPTABLE FOR USE DURING THE GROWING SEASON ON SLOPES >30 PERCENT AND IN AREAS WHERE VEGETATION HAS NOT ESTABLISHED WELL. ADDITIONAL HAY MULCH WILL BE ADDED AS A WINTERIZING MEASURE.
 5. MULCH MAY NOT BE SPREAD ON TOP OF SNOW.

TREE GENERAL SPECIFICATIONS

- ALL TREES SHALL HAVE SYMMETRICAL OR BALANCED BRANCHING ON ALL SIDES OF THE TREE.
- TREES SHALL NOT BE TIPPED PRUNED.
- TREES SHALL BE FREE OF PHYSICAL DAMAGE FROM SHIPPING AND HANDLING. DAMAGED TREES SHALL BE REJECTED.
- SUMMER DUG TREES SHALL HAVE ROOTBALL SIZE INCREASED BY 20%

NOTE:

CONTRACTOR SHALL MAINTAIN TREES IN A PLUMB POSITION THROUGHOUT THE WARRANTY PERIOD. IF STAKING IS REQUIRED BY SITE CONDITIONS, CONTRACTOR TO USE 2 OR 3 STAKE METHOD WITH 1" WEBBING AROUND TRUNK OF TREE (NO WIRE OR CABLING TO BE USED) WRAP TREE TRUNKS PER NOTES.



1 TREE PLANTING DETAIL

C9.02 N.T.S.

P-01



2303 Wycliff St, Suite 300
St Paul, MN 55114

info@novelenergy.biz
612-345-7188 telephone

Landowner
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GORHAM, ME

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ME GORHAM DAIGLE CSG LLC

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Sheet Title
LANDSCAPING

MAP 69 LOT 1-1

Sheet No. Revision

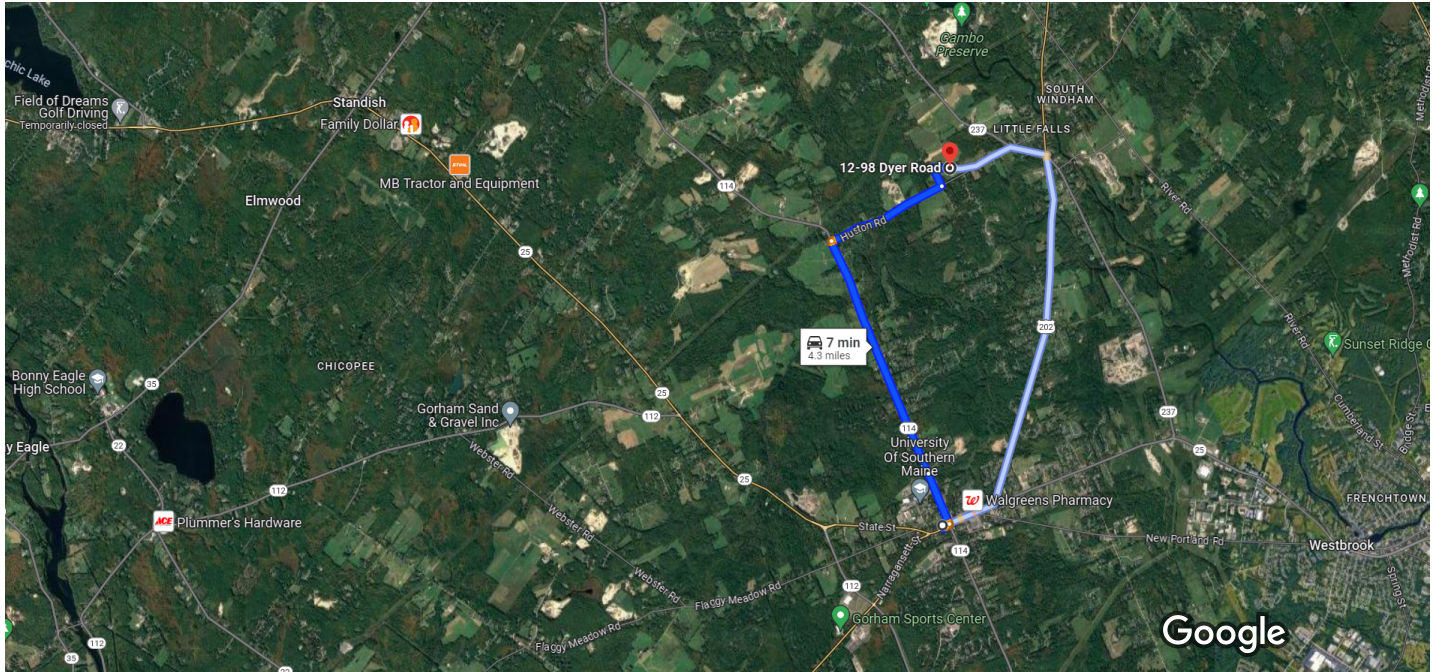
C9.02 IFP

Project No. GRHM



Gorham, Maine to 12-98 Dyer Rd, Gorham, ME 04038

Drive 4.3 miles, 7 min



Imagery ©2023 Airbus, CNES / Airbus, Landsat / Copernicus, Maine GeoLibrary, Maxar Technologies, U.S. Geological Survey, 5000 ft
USDA/FPAC/GEO, Map data ©2023 Google

Gorham Maine

- ↑ 1. Head northeast on Main St/State St toward School St
_____ 338 ft
- ↶ 2. Turn left onto School St
_____ 0.5 mi
- ↑ 3. Continue onto ME-114 N/Fort Hill Rd
_____ 2.3 mi
- ↷ 4. Turn right onto Huston Rd
_____ 1.1 mi
- ↶ 5. Turn left onto Harding Bridge Rd
_____ 0.2 mi
- ↷ 6. Turn right onto Dyer Rd
_____ 0.2 mi

12-98 Dyer Rd
Gorham, ME 04038



[Corporate Name Search](#)

Information Summary

[Subscriber activity report](#)

This record contains information from the CEC database and is accurate as of: Mon Dec 18 2023 15:33:03. Please print or save for your records.

Legal Name	Charter Number	Filing Type	Status
ME GORHAM DAIGLE CSG LLC	20234915DC	LIMITED LIABILITY COMPANY	GOOD STANDING

Filing Date	Expiration Date	Jurisdiction
07/07/2022	N/A	MAINE

Other Names	(A=Assumed ; F=Former)
NONE	

Principal Home Office Address	
Physical	Mailing

Clerk/Registered Agent	
Physical	Mailing

ROY LOHNDORF
BUILDING 7220 - 125 KANSAS ROAD

LIMESTONE, ME 04750

ROY LOHNDORF
BUILDING 7220 - 125 KANSAS
ROAD

LIMESTONE, ME 04750

Attachment Three - Decommissioning Application Payment Confirmation

Novel

Prepared By:

Novel Energy Solutions LLC

2303 Wycliff Street | Suite 300 | St. Paul, MN 55114 | Phone 612.345.7188 | <https://www.novelenergysolutions.com>

From: Payments.DEP@maine.gov
To: [Matt Reid](#); Payments.DEP@maine.gov; [Matt Reid](#)
Subject: [EXTERNAL] DEP Payment Confirmation - 2391
Date: Monday, December 18, 2023 2:43:39 PM

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DEP Payment Confirmation - 2391

Contact Information: Matt Reid - 2303 Wycliff St, Suite 300, Saint Paul, 55114
(651) 323-3029
Matt.reid@novelenergy.biz

Billing Information: Robin Brigham - 2303 Wycliff St, Suite 300, Saint Paul, MN, 55114
(651) 323-3029
Matt.reid@novelenergy.biz

Product	Reference Number	Customer Number	Payment Amount	Comments
Solar Decommissioning	New Application		\$574.00	ME Gorham Daigle CSG - Solar Decommissioning

Transaction Summary

Payment	\$574.00
Service Fee	\$2.00
Total	\$576.00

ReceiptID: 2391
Transaction Date: Monday, December 18, 2023

Thank you for your successful transaction.
If you have questions or concerns, please call (207) 287-7688
or Email: Payments.DEP@maine.gov

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