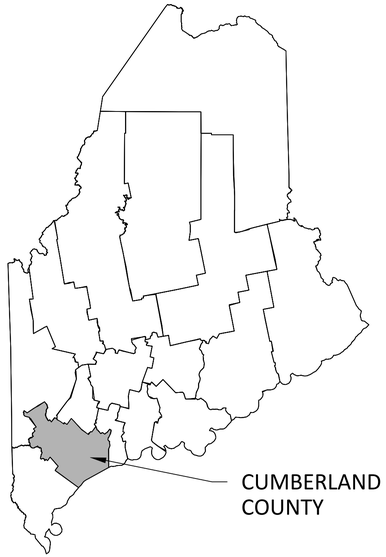
ME GORHAM DAIGLE CSG LLC

CUMBERLAND COUNTY, ME

SOLAR PV PROJECT - 700 KW AC

CIVIL SUBMITTAL - ISSUED FOR PERMITTING (IFP)



COUNTY MAP

LOCATION MAP

SHEET INDEX

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

PROJECT CONTACT LIST

DEVELOPER
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TEL (209) 918-4222
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CIVIL ENGINEER
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ELECTRICAL ENGINEER
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SURVEYOR
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GEOTECHNICAL
SUMMIT GEOENGINEERING SERVICES
173 PLEASANT ST
ROCKLAND, ME 04841
TEL (207) 318-7761
CONTACT:

Approved: Town of Gorham Planning Board

SIGNATURE: _____ DATE: _____

SIGNATURE: _____ DATE: _____

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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

811 DigSafe MA·ME·NH·RI·VT

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

Sheet Title
COVERSHEET

MAP 69
LOT 1-1

Sheet No. Revision
C1.01 IFP

Project No. GRHM

GENERAL NOTES

1. THE DESIGN SHOWN IS BASED ON ENGINEER'S UNDERSTANDING OF EXISTING CONDITIONS. THE EXISTING CONDITIONS SHOWN ON THIS PLAN ARE BASED UPON ALTA AND TOPOGRAPHIC MAPPING PREPARED BY OTHERS PRIOR TO DESIGN. IF CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS WITHOUT EXCEPTION, CONTRACTOR SHALL HAVE MADE, AT OWN EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR AND SUBMIT IT TO THE OWNER FOR REVIEW.

2. CONTRACTOR IS SPECIFICALLY CAUTIONED THAT LOCATIONS OF EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM INFORMATION AVAILABLE. ENGINEER ASSUMES NO RESPONSIBILITY FOR THE UTILITY MAPPING ACCURACY. PRIOR TO START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES 48 HOURS PRIOR TO ANY EXCAVATION FOR ON-SITE LOCATIONS OF EXISTING UTILITIES. DIGSAFE SHALL BE NOTIFIED A MINIMUM 72 HOURS PRIOR TO COMMENCING ANY EXCAVATION. FULL UTILITY COORDINATION WITH NON-MEMBER UTILITIES AND USE OF GROUND PENETRATING RADAR TO LOCATE UTILITIES SHOULD BE PERFORMES AS NECCESSARY.

3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

4. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING VEHICULAR AND PEDESTRIAN TRAFFIC CONTROL DEVICES SUCH AS BARRICADES, WARNING SIGNS, DIRECTIONAL SIGNS, FLAGMEN AND LIGHTS TO CONTROL THE MOVEMENT OF TRAFFIC WHERE NECESSARY. TRAFFIC CONTROL DEVICES SHALL CONFORM TO APPROPRIATE MINNESOTA DEPARTMENT OF TRANSPORTATION STANDARDS.

5. IF REQUIRED, CONTRACTOR SHALL PREPARE AND SUBMIT TO THE GOVERNING AUTHORITY A TRAFFIC AND/OR PEDESTRIAN TRAFFIC PLAN PER STATE STANDARDS TO BE APPROVED BY THE LOCAL GOVERNING AUTHORITY.

6. EXISTING TREES AND OTHER NATURAL VEGETATION WITHIN THE PROJECT AND/OR ADJACENT TO THE PROJECT ARE OF PRIME CONCERN TO THE CONTRACTOR'S OPERATIONS AND SHALL BE A RESTRICTED AREA. CONTRACTOR SHALL PROTECT TREES TO REMAIN AT ALL TIMES. EQUIPMENT SHALL NOT NEEDLESSLY BE OPERATED UNDER NEARBY TREES AND EXTREME CAUTION SHALL BE EXERCISED WHEN WORKING ADJACENT TO TREES. SHOULD ANY PORTION OF THE TREE BRANCHES REQUIRE REMOVAL TO PERMIT OPERATION OF THE CONTRACTOR'S EQUIPMENT, CONTRACTOR SHALL OBTAIN THE SERVICES OF A PROFESSIONAL TREE TRIMMING SERVICE TO TRIM THE TREES PRIOR TO THE BEGINNING OF OPERATION. SHOULD CONTRACTOR'S OPERATIONS RESULT IN THE BREAKING OF ANY LIMBS, THE BROKEN LIMBS SHOULD BE REMOVED IMMEDIATELY AND CUTS SHALL BE PROPERLY PROTECTED TO MINIMIZE ANY LASTING DAMAGE TO THE TREE. NO TREES SHALL BE REMOVED WITHOUT AUTHORIZATION BY THE ENGINEER. COSTS FOR TRIMMING SERVICES SHALL BE CONSIDERED INCIDENTAL TO THE GRADING CONSTRUCTION AND NO SPECIAL PAYMENT WILL BE MADE.

   6.a. RESTRICTED AREAS SHALL INCLUDE ALL DESIGNATED TREED AREAS OUTSIDE OF THE DESIGNATED CONSTRUCTION ZONE. ALL VEGETATION WITHIN THE RESTRICTED AREAS SHALL REMAIN.

   6.b. CONTRACTOR SHALL RESTRICT ALL GRADING AND CONSTRUCTION ACTIVITIES TO AREAS DESIGNATED ON THE PLANS. ACTIVITIES WITHIN THE CONSTRUCTION MAY BE RESTRICTED TO A NARROWER WIDTH IN THE FIELD TO SAVE ADDITIONAL TREES AS DIRECTED BY THE OWNER.

   6.c. ACTIVITIES PROHIBITED OUTSIDE OF THE CONSTRUCTION BOUNDARIES WOULD INCLUDE, BUT NOT BE LIMITED TO: SOIL AND OTHER MATERIAL STOCKPILING, EQUIPMENT OR MACHINERY STORAGE, DRIVING OF ANY VEHICLE, LEAKAGE OR SPILLAGE OF ANY "WASHOUT" OR OTHER TOXIC MATERIAL. THE COLLECTION OF OTHER DEBRIS AND SOIL STOCKPILING WILL BE IN AN AREA DETERMINED ON-SITE BY THE ENGINEER.

   6.d. ALL RESTRICTED AREAS SHALL BE FENCED OFF WITH SILT FENCE AS NOTED ON THE PLANS.

   6.e. BEFORE COMMENCING WITH ANY EXCAVATION CONTRACTOR SHALL COMPLETE ALL PREPARATORY WORK REGARDING TREE REMOVAL, ROOT PRUNING, TREE PRUNING AND STUMP REMOVAL TO THE SATISFACTION OF THE OWNER.

   6.f. PREPARATORY WORK SHALL INCLUDE THE FOLLOWING AND SHALL BE COMPLETED UNDER THE DIRECT SUPERVISION OF THE OWNER'S REPRESENTATIVE:

   6.f.a. TREE REMOVAL: CONTRACTOR SHALL FELL THE TREES. AT NO TIME SHALL TREES BE BULLDOZED OUT, BUT SHALL BE CUT DOWN AND STUMPS REMOVED SEPARATELY. PRIOR TO THE FELLING OF ALL TREES, PROPER REMOVAL OF A PORTION OR ALL OF THE CANOPY SHALL BE COMPLETED SO THAT TREES IN THE RESTRICTED AREAS SHALL NOT BE INJURED IN THE PROCESS.

   6.f.b. ROOT PRUNING: BEFORE ANY STUMPS ARE TO BE REMOVED, ALL ROOTS SHALL BE SEVERED FROM ROOTS IN THE RESTRICTED AREAS BY SAW CUTTING WITH A VERMEER DESIGNED FOR ROOT PRUNING, BY HAND, OR WITH A CHAINSAW. TREE ROOTS PROJECTING INTO THE CONSTRUCTION ZONE SHALL BE EXPOSED PRIOR TO ROOT PRUNING WITH SMALL MACHINERY, I.E..., BOBCAT.

   6.f.c. STUMP REMOVAL: AT SUCH TIME THAT ROOTS HAVE BEEN PROPERLY SEVERED, STUMPS MAY BE REMOVED. WHERE REMOVAL OF CERTAIN STUMPS COULD CAUSE DAMAGE TO EXISTING PROTECTED TREES, TREE STUMPS SHALL BE GROUND OUT. ALL STUMP REMOVAL SHALL BE UNDER THE DIRECT SUPERVISION OF THE OWNER'S REPRESENTATIVE.

   6.f.d. TREE PRUNING: PROPER PRUNING OF TREES IN THE RESTRICTED ZONE SHALL BE DIRECTED BY AND SUPERVISION AT ALL TIMES BY THE OWNER'S REPRESENTATIVE.

   6.g. AN OWNER'S REPRESENTATIVE WILL BE AVAILABLE AT ALL TIMES DURING THE PREPARATORY AND CONSTRUCTION PERIOD.

   6.h. MULCH RATHER THAN SEED OR SOD WILL BE USED AT THE BASE OF QUALITY TREES TO A PERIMETER DETERMINED BY THE OWNER'S REPRESENTATIVE. AREAS TO BE SEEDED FOR EROSION CONTROL PURPOSES WITHIN THE CONSTRUCTION ZONE ARE TO BE DETERMINED BY THE OWNER'S REPRESENTATIVE. NATURAL GROUND COVER WILL BE MAINTAINED WHEREVER POSSIBLE.

SUBSURFACE UTILITY NOTES

THE SUBSURFACE UTILITY INFORMATION SHOWN ON THESE PLANS IS A UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF ASCE/CI 38-02, TITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA." THE CONTRACTOR AND/OR SUBCONTRACTORS SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, BY CONTACTING THE UTILITY NOTIFICATION CENTER. THE CONTRACTOR AND/OR SUBCONTRACTOR AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES, WHICH MIGHT BE OCCASIONED BY HIS OR HER FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES (UNDERGROUND AND OVERHEAD).

DEMOLITION NOTES

1. DEMOLITION NOTES ARE NOT COMPREHENSIVE. CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION TO OBTAIN A CLEAR UNDERSTANDING OF THE INTENDED SCOPE OF WORK.

2. THE CONTRACTOR IS RESPONSIBLE FOR DEMOLITION, REMOVAL, AND DISPOSING IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES AND IN ACCORDANCE WITH APPLICABLE CODES, OF ALL STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, PARKING, DRIVES, DRAINAGE STRUCTURES, UTILITIES, ETC., SUCH THAT THE IMPROVEMENTS SHOWN ON THE PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER THE GEOTECHNICAL REPORT AND/OR GEOTECHNICAL ENGINEER.

3. CLEARING AND GRUBBING: CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL MANNER. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.

4. CONTRACTOR IS RESPONSIBLE FOR THE DISCONNECTION OF UTILITY SERVICES TO EXISTING BUILDINGS PRIOR TO DEMOLITION OF THE BUILDINGS.

5. CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO REMOVAL AND/OR RELOCATION OF UTILITIES. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANIES' FORCES AND ANY FEES WHICH ARE TO BE PAID TO UTILITY COMPANIES FOR SERVICES. CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.

6. THE MAPPING LOCATION OF ALL EXISTING SEWERS, PIPING, AND UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DESTRUCTION AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PROCEEDING WITH WORK. UTILITIES DETERMINED TO BE ABANDONED SHALL BE REMOVED IF UNDER THE BUILDING INCLUDING 10' BEYOND FOUNDATIONS.

7. ELECTRICAL, TELEPHONE, CABLE, WATER, FIBER OPTIC CABLE AND/OR GAS LINES NEEDING TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY IS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE. CONTRACTOR SHALL PAY CLOSE ATTENTION TO EXISTING UTILITIES WITHIN THE ROAD RIGHT OF WAY DURING CONSTRUCTION.

8. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC., TO THE BEST PRACTICES.

9. CONTINUOUS ACCESS SHALL BE MAINTAINED FOR THE SURROUNDING PROPERTIES AT ALL TIMES DURING DEMOLITION OF THE EXISTING FACILITIES.

10. PRIOR TO DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED AND APPROVED BY THE LOCAL AUTHORITY.

11. CONTRACTOR SHALL LIMIT SAW-CUT & PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THESE CONSTRUCTION PLANS BUT IF ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL AND REPAIR.

12. CONTRACTOR TO PROTECT EXISTING FEATURES WHICH ARE TO REMAIN. DAMAGE TO ANY EXISTING CONDITIONS TO REMAIN WILL BE REPLACED AT CONTRACTOR'S EXPENSE.

LEGEND

EXISTING FEATURES

- PROPERTY LINE
- ROAD RIGHT OF WAY
- EDGE OF EXISTING ROAD
- STORM CULVERT
- DRAIN TILE
- UNDERGROUND ELECTRIC
- OVERHEAD ELECTRICAL
- POWER POLE
- 200 MAJOR CONTOUR
- 196 MINOR CONTOUR
- TREE LINE
- WL WETLAND
- SB SOIL BORING

PROPOSED FEATURES

- TEMPORARY AGGREGATE ROAD
- AGGREGATE ROAD BASE, PER DETAIL 1/C9.01
- AGGREGATE BASE - LAYDOWN YARD
- PERIMETER SECURITY FENCE
- TEMPORARY FENCE
- SETBACK LINE
- LEASE BOUNDARY
- CMP CULVERT
- MAJOR CONTOUR
- MINOR CONTOUR
- PROPOSED POWER POLE & LINE

EROSION CONTROL FEATURES

- SF SILT FENCE
- BIO BIO LOG
- ROCK CONSTRUCTION ENTRANCE
- EROSION CONTROL BLANKET

REMOVALS

- TREE REMOVAL
- TREE REMOVAL
- FENCE POST REMOVAL
- FENCE REMOVAL
- LoD PROP GRAD LIMITS

GRADING NOTES

1. PROPOSED CONTOURS ARE TO FINISHED SURFACE ELEVATION.

2. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT. CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES TO THE ADJACENT PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASES OF THIS PROJECT.

3. SAFETY NOTICE TO CONTRACTORS: IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS ON THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE DUTY OF THE ENGINEER OR THE DEVELOPER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON OR NEAR THE CONSTRUCTION SITE.

4. CONTRACTOR SHALL COMPLETE DEWATERING AS REQUIRED TO COMPLETE THE SITE GRADING CONSTRUCTION.

5. PRIOR TO PLACEMENT OF THE AGGREGATE BASE, A TEST ROLL SHALL BE PERFORMED ON THE STREET AND PARKING AREA SUBGRADE. CONTRACTOR SHALL PROVIDE A LOADED TANDEM AXLE TRUCK WITH A GROSS WEIGHT OF 25 TONS. THE TEST ROLLING SHALL BE AT THE DIRECTION OF THE SOILS ENGINEER AND SHALL BE COMPLETED IN AREAS AS DIRECTED BY THE SOILS ENGINEER. CORRECTION OF THE SUBGRADE SOILS SHALL BE COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SOILS ENGINEER.

6. REPLACE ALL SUBGRADE SOIL DISTURBED DURING THE CONSTRUCTION THAT HAVE BECOME UNSUITABLE AND WILL NOT PASS A TEST ROLL. REMOVE UNSUITABLE SOIL FROM THE SITE AND IMPORT SUITABLE SOIL AT NO ADDITIONAL COST TO THE OWNER.

7. EXCAVATE TOPSOIL FROM AREAS TO BE FURTHER EXCAVATED OR REGRADED AND STOCKPILE IN AREAS DESIGNATED ON THE SITE. CONTRACTOR SHALL SALVAGE ENOUGH TOPSOIL FOR RESPREADING ON THE SITE AS SPECIFIED. EXCESS TOPSOIL SHALL BE PLACED IN EMBANKMENT AREAS, OUTSIDE OF EQUIPMENT PADS, ROADWAYS AND THE ARRAY LAYOUTS.

8. TRENCH BORROW CONSTRUCTION: IF ALLOWED BY THE OWNER, CONTRACTOR SHALL COMPLETE "TRENCH BORROW" EXCAVATION IN AREAS DIRECTED BY THE ENGINEER IN ORDER TO OBTAIN STRUCTURAL MATERIAL. TREES SHALL NOT BE REMOVED OR DAMAGED AS A RESULT OF THE EXCAVATION, UNLESS APPROVED BY THE ENGINEER. THE EXCAVATION SHALL COMMENCE A MINIMUM OF 10 FEET FROM THE LIMIT OF THE BUILDING PAD. THE EXCAVATION FROM THIS LIMIT SHALL EXTEND AT A MINIMUM SLOPE OF 1 FOOT HORIZONTAL TO 1 FOOT VERTICAL (1:1) DOWNWARD AND OUTWARD FROM THE FINISHED SURFACE GRADE ELEVATION. THE TRENCH BORROW EXCAVATION SHALL BE BACKFILLED TO THE PROPOSED FINISHED GRADE ELEVATION, AND SHALL BE COMPACTED IN ACCORDANCE WITH REQUIREMENTS OF THE QUALITY COMPACTION METHOD AS OUTLINED IN MN/DOT SPECIFICATION 2105.3F2. SNOW FENCE SHALL BE FURNISHED AND PLACED ALONG THE PERIMETER OF THE TRENCH BORROW AREA WHERE THE SLOPES EXCEED 2 FOOT HORIZONTAL TO 1 FOOT VERTICAL (2:1).

9. FINISHED GRADING SHALL BE COMPLETED, CONTRACTOR SHALL UNIFORMLY GRADE AREAS WITHIN LIMITS OF GRADING, INCLUDING ADJACENT TRANSITION AREAS. PROVIDE A SMOOTH FINISHED SURFACE WITHIN SPECIFIED TOLERANCES, WITH UNIFORM LEVELS OR SLOPES BETWEEN POINTS WHERE ELEVATIONS ARE SHOWN, OR BETWEEN SUCH POINTS AND EXISTING GRADES. AREAS THAT HAVE BEEN FINISHED GRADED SHALL BE PROTECTED FROM SUBSEQUENT CONSTRUCTION OPERATIONS, TRAFFIC AND EROSION. REPAIR ALL AREAS THAT HAVE BECOME RUTTED, ERODED OR HAS SETTLED BELOW THE CORRECT GRADE. ALL AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO EQUAL OR BETTER THAN ORIGINAL CONDITION OR TO THE REQUIREMENTS OF THE NEW WORK. CONTRACTOR MUST REGRADE/RECOMPACT ACCESS ROAD AS FINAL RESTORATION.

10. TOLERANCES
    10.a. THE EQUIPMENT PAD SUBGRADE FINISHED SURFACE ELEVATION SHALL NOT VARY BY MORE THAN 0.10 FOOT ABOVE, OR 0.10 FOOT BELOW, THE PRESCRIBED ELEVATION AT ANY POINT WHERE MEASUREMENT IS MADE.

11. CONTRACTOR SHALL USE THE PROPOSED ACCESS ROADS FOR HAULING OF MATERIALS REQUIRED TO COMPLETE THE SOLAR INSTALLATION. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE GOVERNING AUTHORITY OF EACH PUBLIC ROADWAY. FOR OFFSITE MATERIAL TRANSPORT CONTRACTOR SHALL POST WHATEVER SECURITY, AND COMPLY WITH ALL CONDITIONS WHICH ARE REQUIRED BY EACH GOVERNING AUTHORITY OF EACH ROADWAY.

12. WETLAND AREAS DESIGNATED TO BE PROTECTED SHALL BE AVOIDED. ANY WETLAND AREAS DAMAGED BY SITE OPERATIONS SHALL BE RESTORED AS REQUIRED BY THE JURISDICTIONAL AGENCY.

ZONING REQUIREMENTS

1. APPROVALS

   A. MEDEP STORMWATER PERMIT BY RULE DATED XXXXXXX XX, 2021 (#XXXXX).
   B. MEDEP NOTICE OF INTENT APPROVAL DATED XXXXXXX XX, 2021 (#XXXXX).
   C. MAINE DOT ACCESS PERMIT#XXXXXXXXX DATED XXXXX XX, 2021.
   D. MEDEP SECTION 401 PERMIT FOR XXX SF OF WETLAND IMPACT. PERMIT #_____ DATED _____.
   E. ARMY CORPS OF ENGINEERS (ACOE) MAINE GENERAL PERMIT #XXXXXXXXXXX DATED XXXXXXX XX, 2021. THE ACOE ISSUED A CLARIFICATION LETTER DATED XXXX XX, 2021.

2. ZONING DISTRICTS SUMMARY

   GENERAL ZONING DISTRICT: URBAN RESIDENTIAL EXPANSION
   OVERLAY ZONING DISTRICT: NA

3. DIMENSIONAL STANDARDS

   RURAL FARM RESIDENTIAL DISTRICT

	REQUIRED	PROVIDED
FRONT YARD SETBACK	50	>50
SIDE YARD SETBACK	50	>50
REAR YARD SETBACK	50	>50
STRUCTURE HEIGHT, MAX	N/A	12

4. PROJECT SCHEDULE

   SPECIFICS OF HOW WORK IS TO BE COMPLETED SHALL ALSO BE BASED ON ENVIRONMENTAL CONSIDERATIONS ASSOCIATED WITH SEASONAL CHANGES. THE FOLLOWING DATES ARE PROVIDED TO ESTABLISH A GENERAL GUIDELINE FOR THESE SEASONS:

WINTER	NOVEMBER 1 TO MARCH 15
MUD SEASON	MARCH 20 TO APRIL 30
SPRING	MAY 1 TO JUNE 21
SUMMER	JUNE 22 TO SEPTEMBER 21
FALL	SEPTEMBER 22 TO OCTOBER 31

EARTHWORK NOTES

1. SITE CLEARING AND GRUBBING IS AS FOLLOWS:

   1.a. STANDARD CLEARING AND GRUBBING: SUBCONTRACTOR SHALL CLEAR AND GRUB ALL AREAS (EXCEPT IN WETLANDS) OF PROJECT SITE WITHIN PERIMETER FENCING, REMOVING ALL VEGETATION HIGHER THAN 3" AND OTHER DELETERIOUS MATERIALS. SUBCONTRACTOR SHALL GRADE OUT MINOR TOPOGRAPHIC UNDULATIONS, MOUNDS, AND DEPRESSIONS, AS NECESSARY, TO PRODUCE A SMOOTH, SAFE WORKING SURFACE FOR PLANT CONSTRUCTION AND OPERATIONS.

   1.b. TEMPORARY WETLAND DISTURBANCE: SUBCONTRACTOR MAY PERFORM TEMPORARY WETLAND DISTURBANCES WHICH SHALL INCLUDE CLEARING BUT NOT STUMP REMOVAL. THESE INDIRECT WETLAND DISTURBANCES MAY OCCUR WITHIN PERIMETER FENCING OR JUST OUTSIDE OF PERIMETER FENCING FOR SHADE MANAGEMENT PURPOSES.

   1.c. PERMANENT WETLAND DISTURBANCE: WHERE EXPLICITLY APPROVED AND NECESSARY, THE SUBCONTRACTOR MAY PERFORM CLEARING AND GRUBBING WITHIN WETLANDS. THIS MAY ALSO COME IN THE FORM OF GRADING WITHIN WETLANDS. GRADING OR GRUBBING WITHIN WETLANDS SHALL BE CONSIDERED A PERMANENT WETLAND IMPACT AND SHALL COUNT TOWARDS THE TOTAL DIRECT IMPACTS ALLOWED BY THE AUTHORITY HAVING JURISDICTION.

   1.d. SUBCONTRACTOR SHALL CLEAR AND GRUB, STRIP AND REMOVE TOPSOIL, VEGETATION, AND OTHER DELETERIOUS ORGANIC MATERIAL FROM PROPOSED EQUIPMENT PADS, ROADWAYS, AND AREAS TO RECEIVE FILL. STOCKPILE TOPSOIL AND IMMEDIATELY STABILIZE UNTIL RE-SPREAD FOR USE TO RE-VEGETATE DISTURBED AREAS AFTER GRADING OPERATIONS ARE COMPLETE.

2. SUBGRADE PREPARATION FOR EQUIPMENT PADS, SPREAD FOOTINGS, AND ROADWAYS IS AS FOLLOWS:

   2.a. SCARIFY TO A MINIMUM DEPTH OF 12 INCHES.
   2.b. MOISTURE CONDITION SOILS TO BETWEEN 1% BELOW AND 3% ABOVE OPTIMUM MOISTURE CONTENT.
   2.c. COMPACT TO A MINIMUM OF 95% OF STANDARD PROCTOR MAXIMUM DENSITY. EXCAVATION SHALL EXTEND 5' BEYOND EXTENTS OF IMPROVEMENTS FOR PADS OR FOOTINGS.
   2.d. PROOF ROLL WITH FULLY LOADED DUMP TRUCK OR OTHER SIMILARLY WEIGHTED PNEUMATIC TIRED EQUIPMENT.
   2.e. UNSTABLE AREAS IDENTIFIED DURING PROOF ROLL SHOULD BE EXCAVATED A MINIMUM OF 12 INCHES AND RE-STABILIZED.

3. SUBGRADE PREPARATION FOR NON-STRUCTURAL FILL AREAS SHALL CONSIST OF COMPACTION TO 90% OF STANDARD PROCTOR MAXIMUM DENSITY.

FILL PLACEMENT

1. ENGINEERED FILL - SOILS CLASSIFIED AS GW, GP, GM, GC, SW, SP, SM, SC, ML, AND CL BY THE USCS ARE ACCEPTABLE FOR USE AS STRUCTURAL FILL. MOST ON-SITE SOILS ARE EXPECTED TO BE SUITABLE FOR USE AS ENGINEERED FILL IF THEY ARE FREE OF ORGANIC SOIL AND DEBRIS.
2. SELECT GRANULAR FILL - GRANULAR, WELL GRADED MATERIAL WITH NO ORGANICS, A MAXIMUM PARTICLE SIZE OF 2 INCHES, AND LESS THAN 12 PERCENT PASSING THE U.S. NO. 200 SEIVE.
3. IN THE EVENT CLAY FILL IS ENCOUNTERED, CLAY FILL SHALL BE MOISTENED TO BETWEEN 1 PERCENT BELOW AND 3 PERCENT ABOVE OPTIMUM MOISTURE CONTENT. SAND FILL SHALL BE MOISTENED TO BETWEEN 3 PERCENT BELOW AND 3 PERCENT ABOVE OPTIMUM MOISTURE CONTENT.
4. FILL SHALL BE PLACED IN LIFTS OF LESS THAN 8 INCHES LOOSE DEPTH AND COMPACTED TO AT LEAST 90% OF STANDARD PROCTOR MAXIMUM DENSITY PER ASTM D698.
5. TRENCH BACKFILL FOR PROPOSED CULVERT OR POND OUTLET SHALL BE COMPACTED TO AT LEAST 85 PERCENT OF STANDARD PROCTOR MAXIMUM DENSITY, EXCEPT IN STRUCTURAL AREAS WHICH SHALL BE COMPACTED TO 95 PERCENT.

EARTHWORK BALANCE

THE INTENTION OF THE GRADING DESIGN IS TO BALANCE THE EARTHWORK ON SITE WITHOUT THE NEED FOR IMPORT OR EXPORT. THE CONTRACTOR SHALL FIELD ADJUST CUT AND FILL AS NECESSARY TO CREATE A BALANCED SITE WITHOUT NEGATIVELY IMPACTING DRAINAGE PATTERNS OR INCREASING MAXIMUM SLOPES.

AGGREGATES

1. AGGREGATE BASE AND COARSE AGGREGATE SHALL BE MOISTENED TO WITHIN 2 PERCENT OF OPTIMUM MOISTURE CONTENT AND COMPACTED TO A MINIMUM OF 95% OF STANDARD PROCTOR MAXIMUM DENSITY. PROOF ROLL WITH FULLY LOADED DUMP TRUCK OR OTHER SIMILARLY WEIGHTED PNEUMATIC TIRED EQUIPMENT.

   AGGREGATE GRADATION - SHALL COMPLY WITH THE GRADATION REQUIREMENTS OF TABLE 3138-3, CLASS 5, OF SECTION 3126 "AGGREGATE", OF THE MAINE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.

   RIP RAP GRADATION - SHALL COMPLY WITH THE GRADATION REQUIREMENTS OF CLASS 1 RIP RAP, SECTION 3601 OF THE MAINE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.

GEOTEXTILE FABRIC

IF SITE CONDITIONS WARRANT USE OF A GEOTEXTILE FABRIC, CONTRACTOR SHALL USE TENSAR BX1100 OR EQUAL, PER GEOTECH REPORT.

EROSION CONTROL BLANKET

EROSION CONTROL BLANKET SHALL CONFORM TO MNDOT APPROVED/QUALIFIED PRODUCTS LIST, EROSION CONTROL BLANKETS, CATEGORY 3.

TESTING REQUIREMENT NOTES

DEFINITION

1. CONTRACTOR SHALL COMPLETE THE SITE GRADING CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE OWNER'S SOILS ENGINEER. ALL SOIL TESTING SHALL BE COMPLETED BY THE OWNER'S SOILS ENGINEER. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED SOIL TESTS AND INSPECTIONS WITH THE SOILS ENGINEER.

2. SUBGRAGE PROOFROLLING TEST SHALL BE CONSIDERED ACCEPTABLE IF RUTTING IS NO GREATER THAN 3", AND NO "PUMPING" OF THE SOIL BEHIND THE PROOF ROLL.

3. STANDARD PROCTOR DENSITY TESTS SHALL BE IN CONFORMANCE WITH ASTM D698.

4. SOIL DENSITY IN PLACE TESTING SHALL BE IN CONFORMANCE WITH ASTM D2922.

5. MOISTURE CONTENT TEST OF IN PLACE SOIL SHALL BE IN CONFORMANCE WITH ASTM D3017.

EXECUTION

1. COMPACTED SUBGRADE IN STRUCTURAL AREAS SHALL BE TESTED AS FOLLOWS:

   1.1. ONE TEST PER 200 LF OF ROAD.

   1.2. ONE TEST PER ELECTRICAL EQUIPMENT PAD

2. FILL MATERIAL SHALL BE TESTED AT A MINIMUM ONCE PER SOIL TYPE FOR GRAIN SIZE, SOIL CLASSIFICATION, PROCTOR TESTS, AND MOISTURE CONTENT. FILL PLACEMENT SHALL BE TESTED FOR DENSITY AT A MINIMUM OF ONE TEST PER 2,500 SF PER LIFT.

3. AGGREGATE BASE DENSITY SHALL BE TESTED BY PROOF ROLLING WITH A FULLY LOADED DUMP TRUCK (MINIMUM GROSS WEIGHT OF 25 TONS) OR OTHER SIMILARLY WEIGHTED PNEUMATIC TIRED EQUIPMENT. AGGREGATE PROOFROLLING TEST SHALL BE CONSIDERED ACCEPTABLE IF RUTTING IS NO GREATER THAN 3".

   3.1. AT THE COMPLETION OF CONSTRUCTION, RE-GRADE AGGREGATE ROAD SURFACES TO DESIGNED SURFACE PROFILE, ELIMINATING RUTS CAUSED BY CONSTRUCTION TRAFFIC.

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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

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Summary

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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
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Sheet Title
NOTES

MAP 69
LOT 1-1

Sheet No. Revision
C1.02 IFP

Project No. GRHM

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Sheet Title
EXISTING CONDITIONS

MAP 69 LOT 1-1

Sheet No. Revision
C2.01 IFP

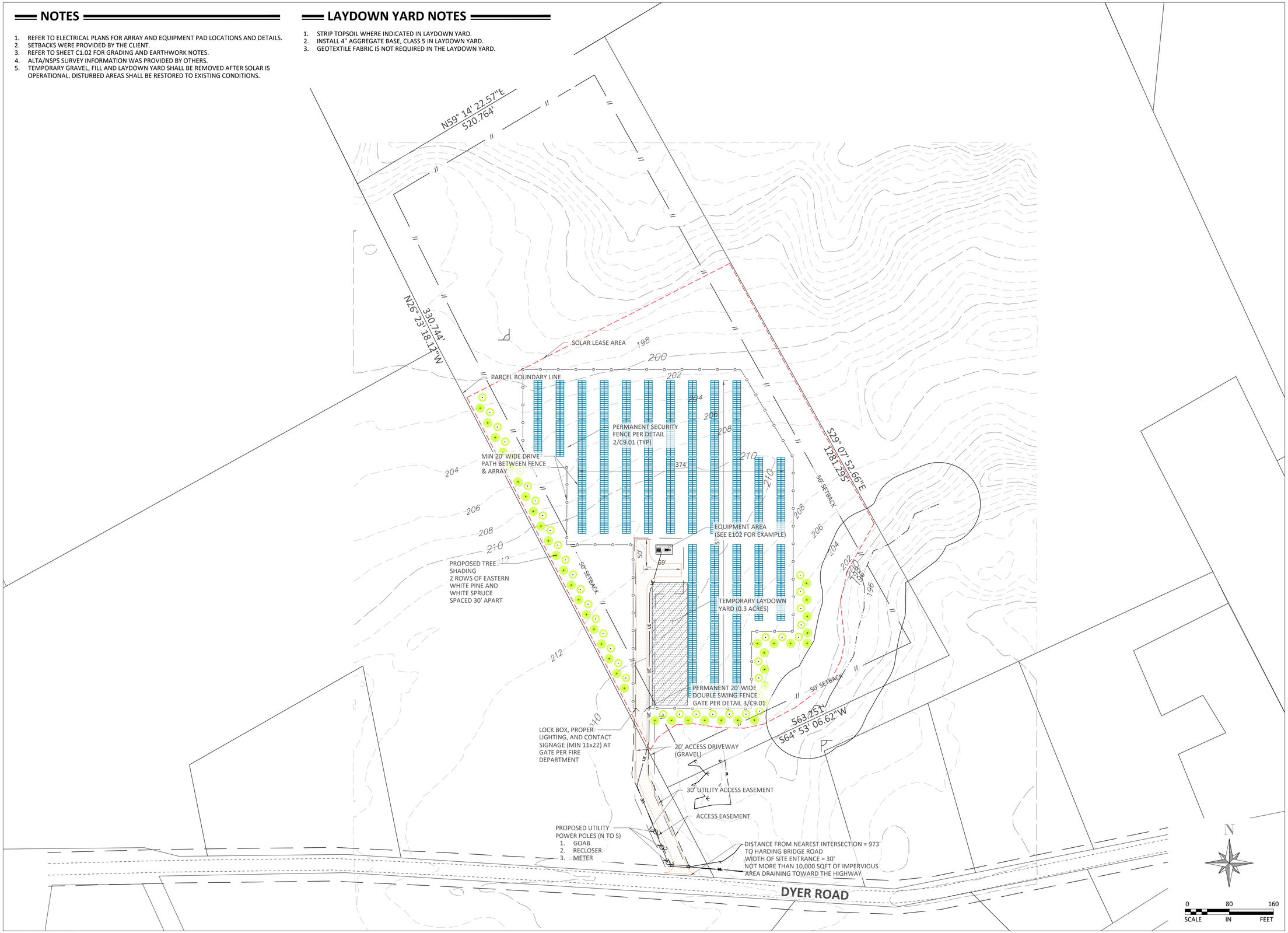
Project No. GRHM

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.



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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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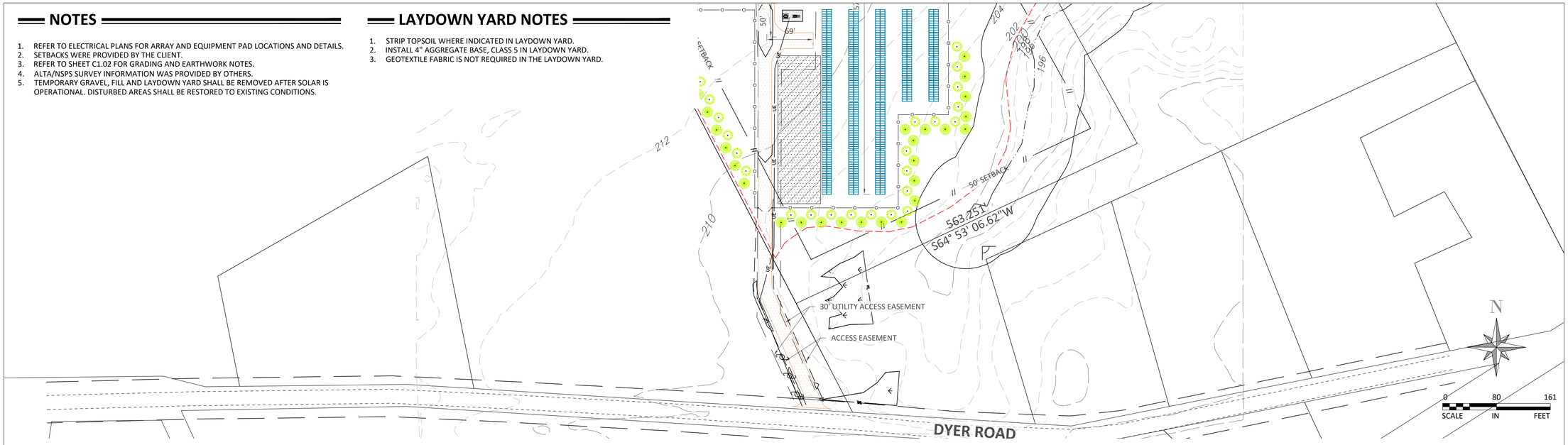

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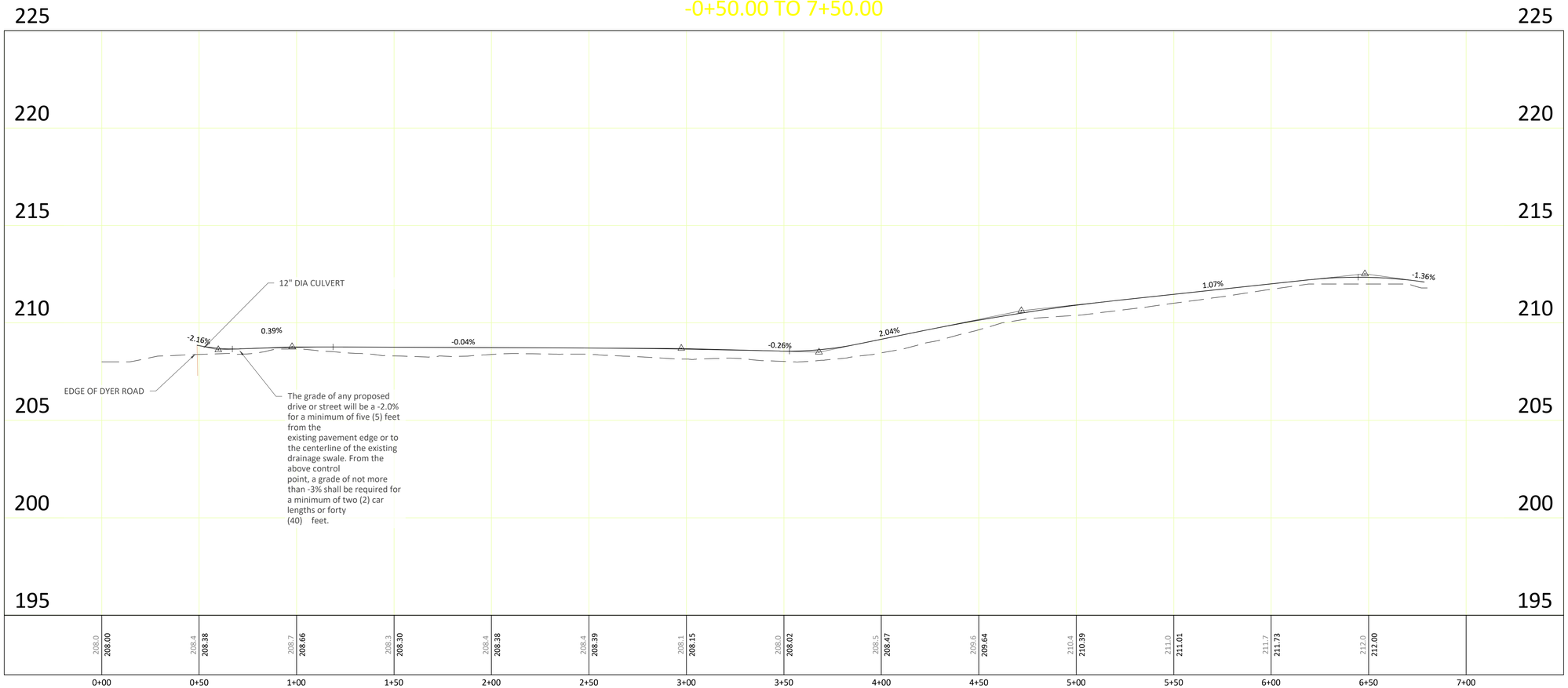

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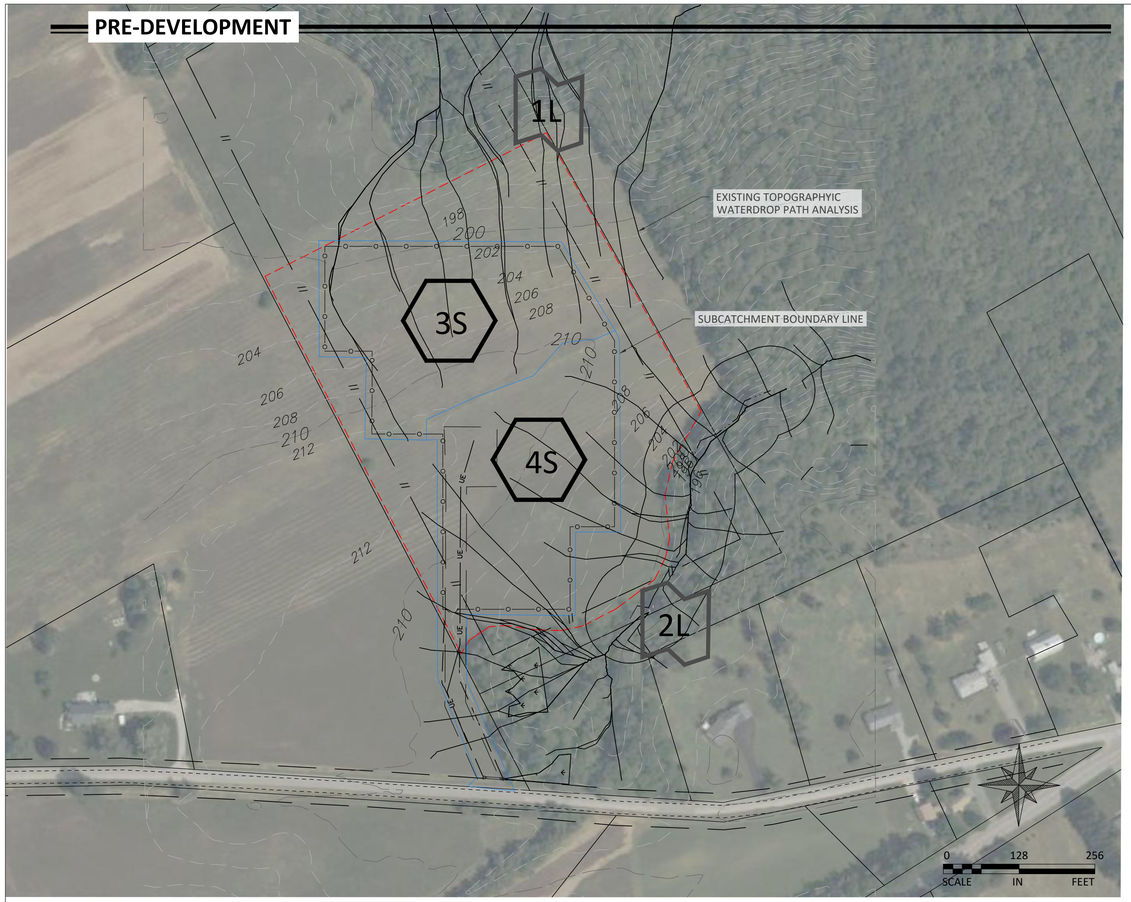
Sheet Title
ROAD PROFILE

MAP 69
LOT 1-1

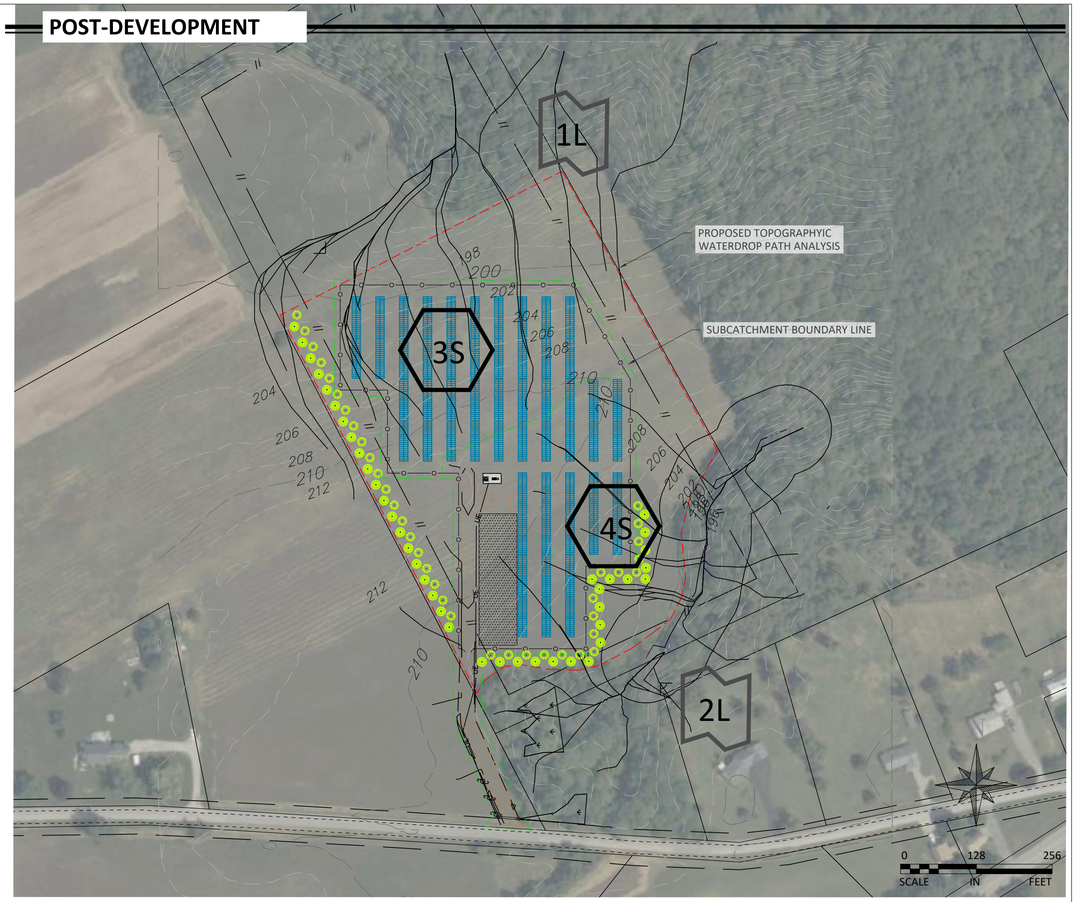
Sheet No. Revision
C3.02 IFP

Project No. GRHM

PRE-DEVELOPMENT

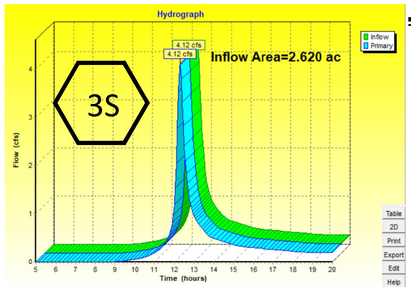


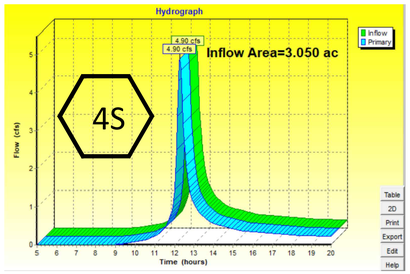
POST-DEVELOPMENT



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 AGRICULATURAL 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

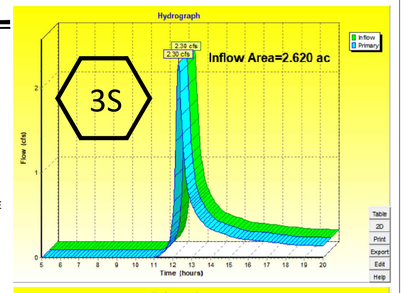
THE UPPER LEFT HYDROGRAPH REPRESENTS THE PEAK RUNOFF VOLUME OF A 25 YEAR STORM OVER THE EXISTING AREA. THIS PEAK RUNOFF IS 4.12 CFS AND FLOWS TOWARDS THE NORTHEASTERN WOODED AREA.

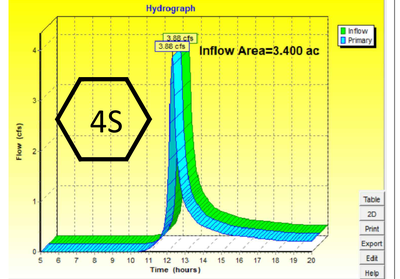
THE LOWER LEFT HYDROGRAPH REPRESENTS THE PEAK RUNOFF VOLUME OF A 25 YEAR STORM OVER THE EXISTING AREA. THIS PEAK RUNOFF IS 4.90 CFS AND FLOWS TOWARDS THE SOUTHEASTERN WOODED WETLAND AREA.

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.





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Sheet Title
HYDROLOGY

MAP 69
LOT 1-1

Sheet No. Revision
C3.03 IFP

Project No. GRHM

STORMWATER BASIN NOTES

1. 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.
2. 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 MINUIMUM 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.
3. 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

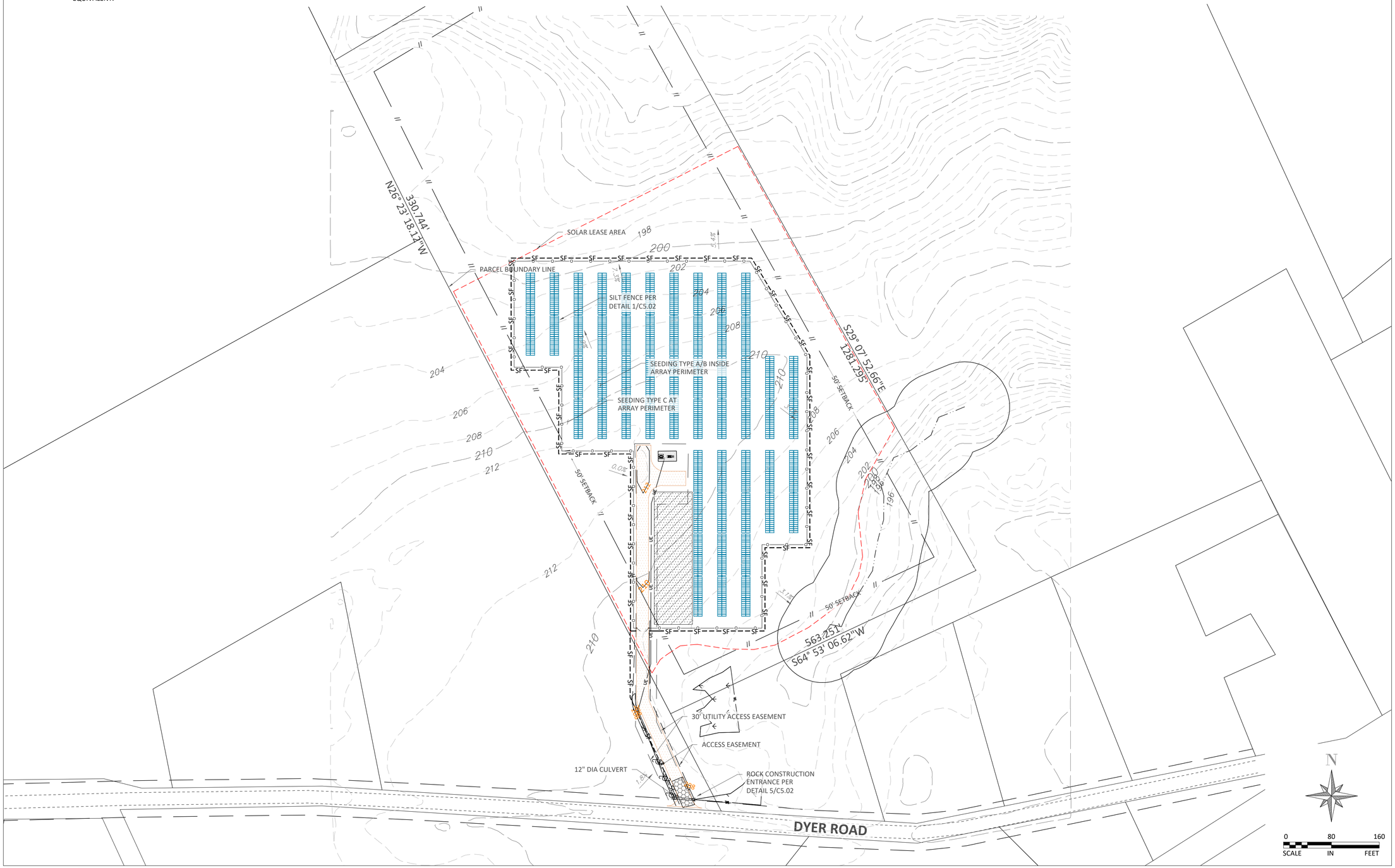
*EROSION CONTROL BLANKET CAN BE ADDED AT THE END OF CONSTRUCTION

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

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



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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.

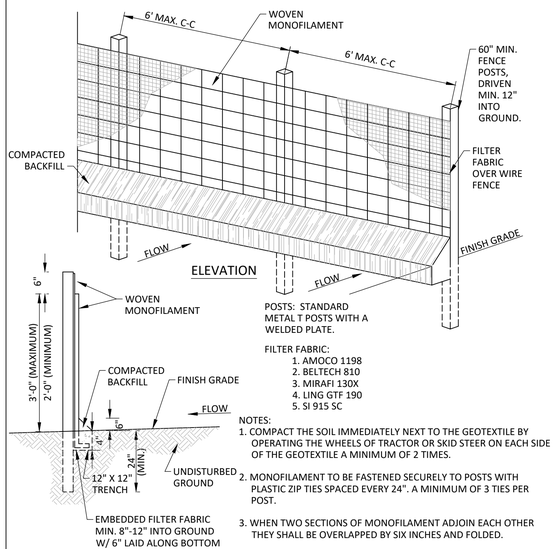
5. CONTRACTOR IS RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF TEMPORARY AND PERMANENT WATER QUALITY MANAGEMENT BMPS, AS WELL AS ALL EROSION PREVENTION AND SEDIMENT CONTROL BMPS, FOR THE DURATION OF THE CONSTRUCTION WORK AT THE SITE. THE PERMITTEE(S) ARE RESPONSIBLE UNTIL ANOTHER PERMITTEE HAS ASSUMED 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

N.T.S.



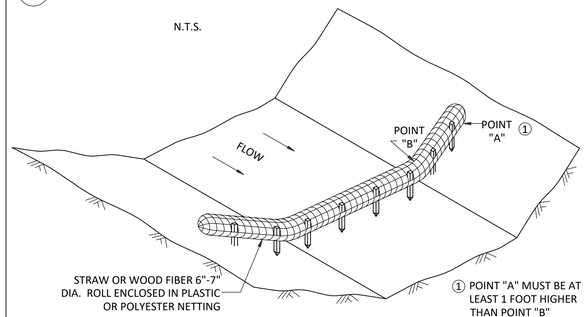
POSTS: STANDARD METAL T POSTS WITH A WELDED PLATE.

FILTER FABRIC:
1. AMOCO 1198
2. BELTECH 810
3. MIRAFI 130X
4. LING GTF 190
5. SI 915 SC

NOTES:
1. COMPACT THE SOIL IMMEDIATELY NEXT TO THE GEOTEXTILE BY OPERATING THE WHEELS OF TRACTOR OR SKID STEER ON EACH SIDE OF THE GEOTEXTILE A MINIMUM OF 2 TIMES.
2. MONOFILAMENT TO BE FASTENED SECURELY TO POSTS WITH PLASTIC ZIP TIES SPACED EVERY 24". A MINIMUM OF 3 TIES PER POST.
3. WHEN TWO SECTIONS OF MONOFILAMENT ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NOTED IN THE EROSION CONTROL PLAN. COLLECTED MATERIAL SHALL BE REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

2 BIO ROLL

N.T.S.

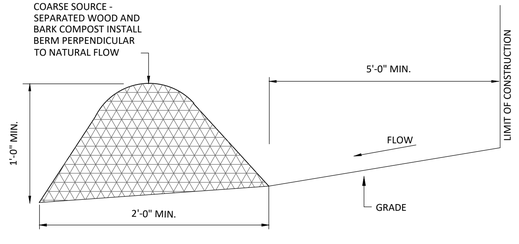


STRAW OR WOOD FIBER 6"-7" DIA. ROLL ENCLOSED IN PLASTIC OR POLYESTER NETTING

1 POINT "A" MUST BE AT LEAST 1 FOOT HIGHER THAN POINT "B"

3 EROSION CONTROL BERM

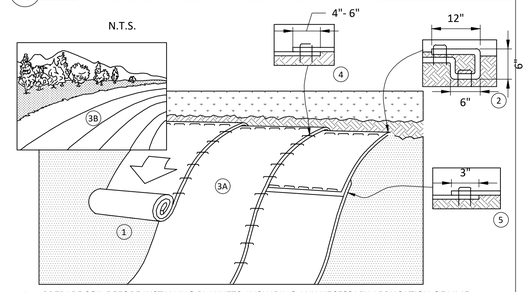
(MAY BE USED AS AN ALTERNATE TO SILT FENCE OR PLACED UPGRADIENT OF SILT FENCE



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

N.T.S.



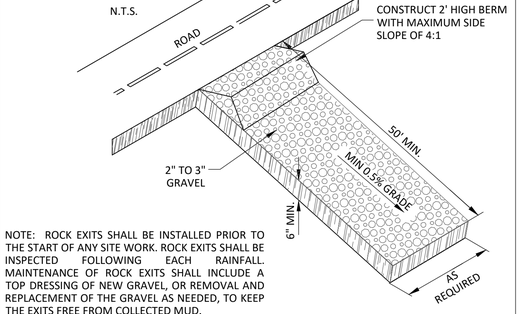
1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET 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 MANUFACTURES 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 SPLICED 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

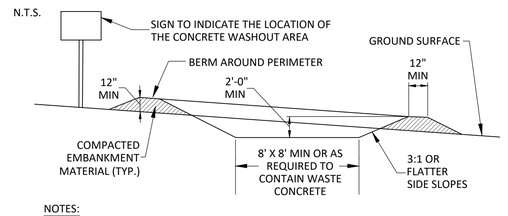
N.T.S.



NOTE: ROCK EXITS SHALL BE INSTALLED PRIOR TO THE START OF ANY SITE WORK. ROCK EXITS SHALL BE INSPECTED FOLLOWING EACH RAINFALL. MAINTENANCE OF ROCK EXITS SHALL INCLUDE A TOP DRESSING OF NEW GRAVEL, OR REMOVAL AND REPLACEMENT OF THE GRAVEL AS NEEDED, TO KEEP THE EXITS FREE FROM COLLECTED MUD.

6 CONCRETE WASHOUT AREA

N.T.S.



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.

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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
-	--	--	--	--
-	--	--	--	--
-	--	--	--	--
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Sheet Title
EROSION CONTROL NOTES & DETAILS

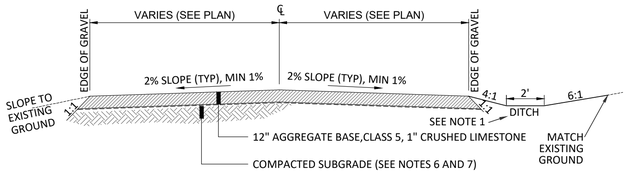
MAP 69 LOT 1-1

Sheet No. Revision
C5.02 IFP

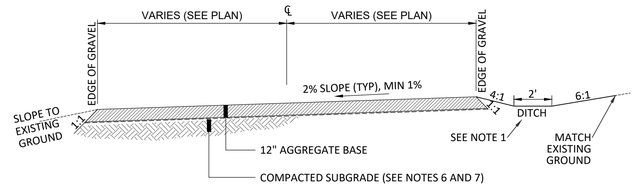
Project No. GRHM

1 GRAVEL ACCESS ROAD

N.T.S.



ROAD WITH CROWN



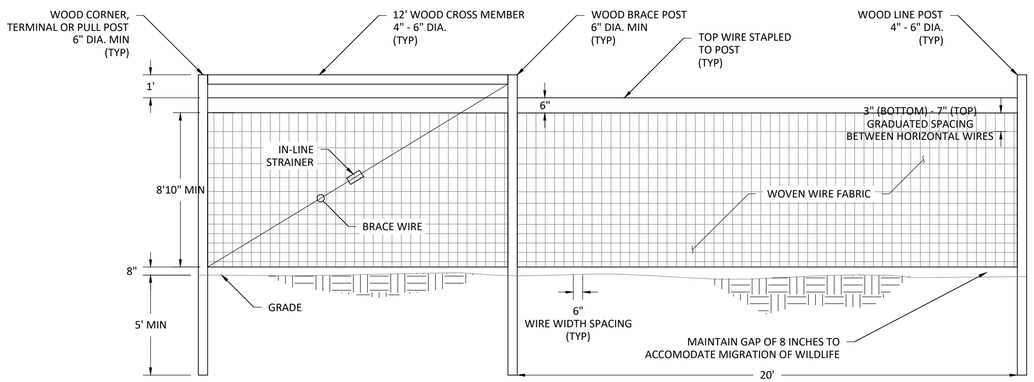
ROAD WITH SUPERELEVATION

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.

2 WOVEN WIRE FENCE DETAIL

N.T.S.

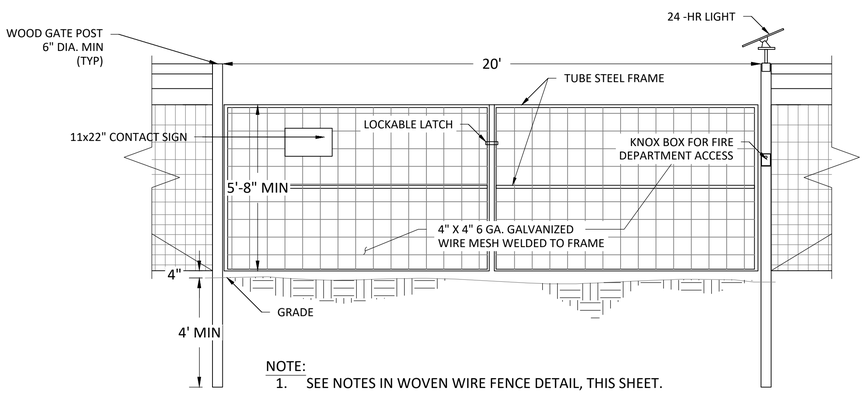


NOTE:

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.

3 SWING GATE

N.T.S.



NOTE:

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

4 FLARED END SECTION/RIP-RAP APRON

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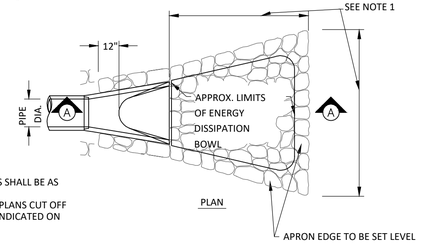
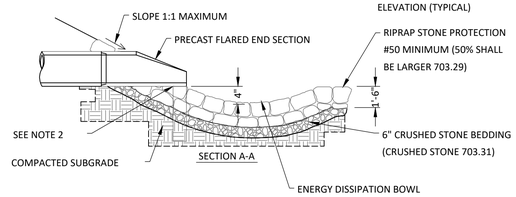


NOTES:

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



5 GRASS-LINED SWALE

N.T.S.

Novel ENERGY SOLUTIONS

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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 GOODES, PE
Registration No. 16864 Date: 6/13/23

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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
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Sheet Title
CONSTRUCTION DETAILS

MAP 69
LOT 1-1

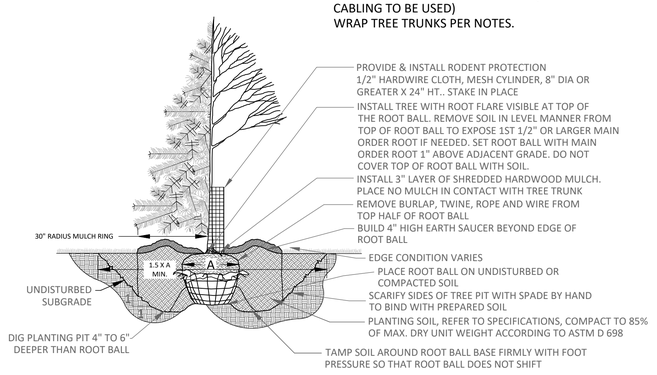
Sheet No. Revision
C9.01 IFP

Project No. GRHM

GENERAL NOTES

1. 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.
2. THE CONTRACTOR SHALL INSPECT THE SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS RELATING TO THE NATURE AND SCOPE OF THE WORK.
3. 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.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE CODES, REGULATIONS, AND PERMITS GOVERNING THE WORK.
5. 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.
6. 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.
7. **THE LANDSCAPE CONTRACTOR SHALL COORDINATE THE PHASES OF CONSTRUCTION AND PLANTING INSTALLATION WITH OTHER CONTRACTORS WORKING ON SITE.**
8. 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.
9. 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.
10. THE SPECIFICATIONS TAKE PRECEDENCE OVER THE PLANTING NOTES AND GENERAL NOTES.
11. 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.
12. LONG-TERM STORAGE OF MATERIALS OR SUPPLIES ON-SITE WILL NOT BE ALLOWED.
13. CONTRACTOR SHALL REQUEST IN WRITING, A FINAL ACCEPTANCE INSPECTION.

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 C9.02 TREE PLANTING DETAIL

N.T.S. P-01

PLANTING NOTES

1. NO PLANTS SHALL BE INSTALLED UNTIL FINAL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.
2. A GRANULAR PRE-EMERGENT HERBICIDE SHALL BE APPLIED TO ALL PLANT BEDS AT THE MANUFACTURERS RECOMMENDED RATE PRIOR TO PLANT INSTALLATION.
3. 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.
4. 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.
5. PLANT MATERIALS TO BE INSTALLED PER PLANTING DETAILS.
6. ALL TREES MUST BE STRAIGHT TRUNKED AND FULL HEADED AND MEET ALL REQUIREMENTS SPECIFIED.
7. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY PLANTS WHICH ARE DEEMED UNSATISFACTORY BEFORE, DURING, OR AFTER INSTALLATION.
8. NO SUBSTITUTIONS OF PLANT MATERIAL SHALL BE ACCEPTED UNLESS APPROVED IN WRITING BY THE ENGINEER.
9. 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.
10. ALL PLANTING AREAS MUST BE COMPLETELY MULCHED AS SPECIFIED.
11. 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.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MULCHES AND PLANTING SOIL QUANTITIES TO COMPLETE THE WORK SHOWN ON THE PLAN.
13. 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.
14. 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.
15. ALL DECIDUOUS, PINE, AND LARCH PLANTINGS SHALL RECEIVE RODENT PROTECTION.
16. 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 HEELED IN AND WATERED UNTIL INSTALLATION. PLANTS NOT MAINTAINED IN THIS MANNER WILL BE REJECTED.
17. 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.
18. 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.
19. 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.
20. 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
21. 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 DEAD 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.

TREE GENERAL SPECIFICATIONS

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

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 THS TABLE.				

MULCH

CONDITION	TIMING	MULCH TYPE[2]	APPLICATION RATES[1]
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[5]	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.

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 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
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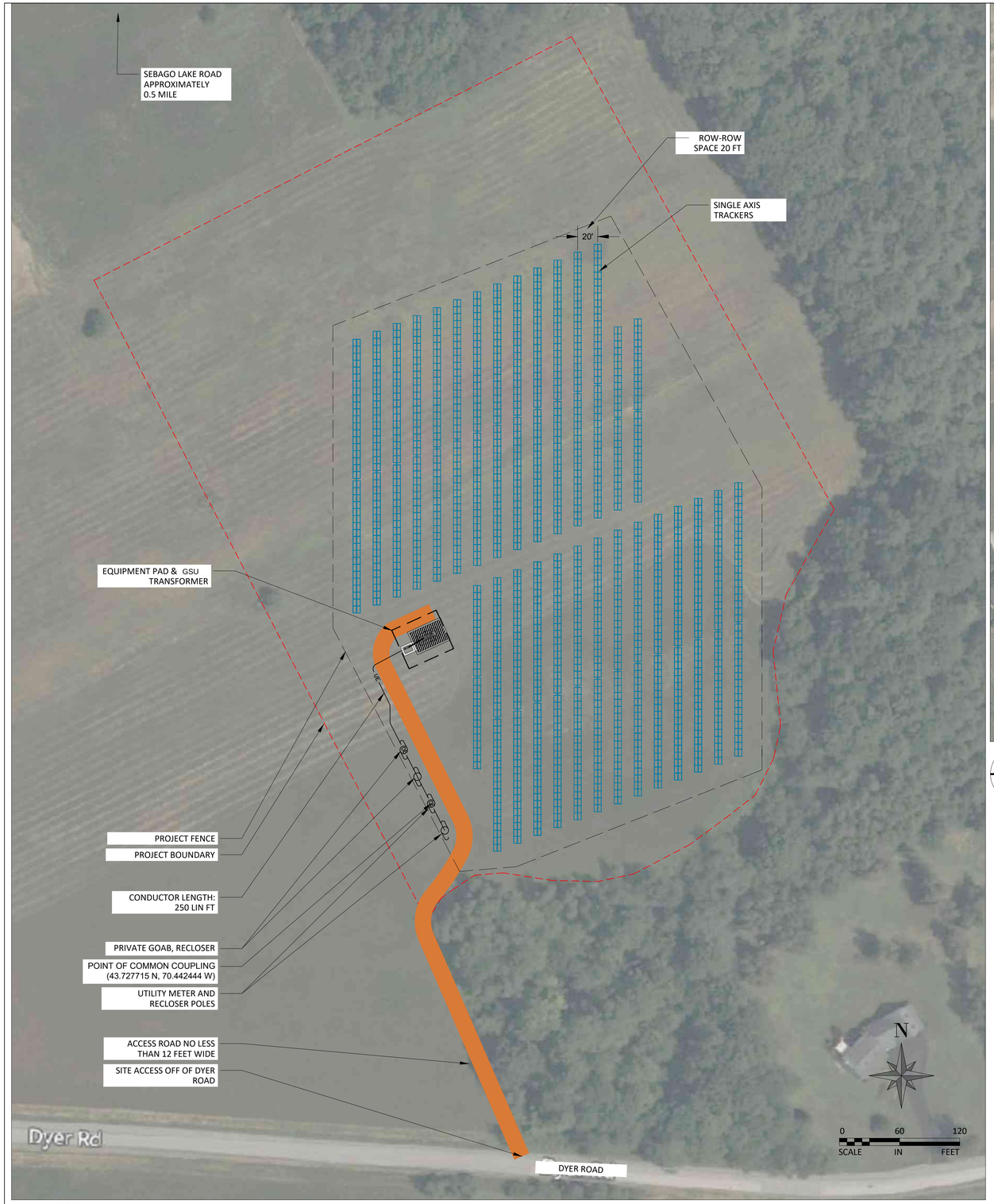
Sheet Title
LANDSCAPING

MAP 69
LOT 1-1

Sheet No. Revision
C9.02 IFP

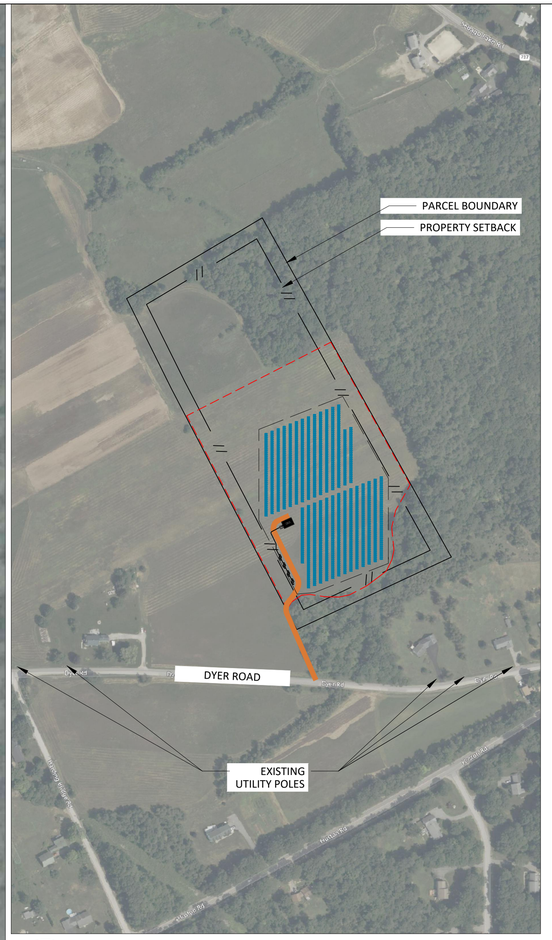
Project No. GRHM



1 E100

SITE PLAN

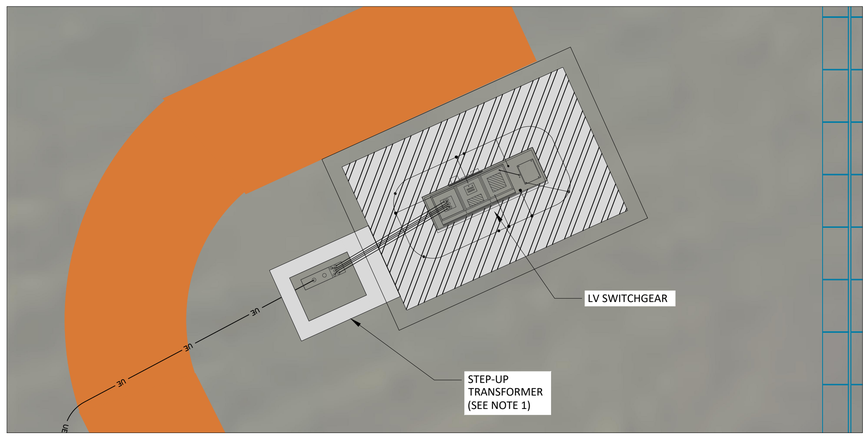
SCALE: 1"=60'



2 E100

OVERALL VIEW

SCALE: 1"=250'



3 E100

EQUIPMENT PAD

SCALE: 1 IN:10 FT

PROJECT SUMMARY

DC SYSTEM SIZE:	971,880 WATTS
AC SYSTEM SIZE:	700,000 WATTS
MODULES TYPES:	WAAREE AHNAY BIFACIAL MODULES 445W (BI-31-445)
TOTAL # OF MODULES:	2184
TOTAL # OF STRINGS:	84
MODULES PER STRING:	26
INVERTER TYPE:	CHINT POWER 125kWAC & CHINT POWER 100kWAC
TOTAL # OF INVERTERS:	4 & 2
TOTAL # OF TRACKERS:	26 / 3
MODULES PER TRACKER:	78 / 52
ROW-ROW SPACING:	20'

PROJECT INFORMATION

CUSTOMER:
ME GORHAM DIAGLE CSG LLC

SITE ADDRESS:

43.726751, -70.4428653

PID: ----

NOTES

1. TRANSFORMER PRECAST PAD OR POURED IN PLACE CONCRETE PAD INSTALLED BY CUSTOMER. SEE AND USE CMP POWER STANDARD FOR ELECTRICAL INSTALLATION AND USE.

2. NES TO INSTALL TRANSFORMER FOUNDATION, LOW VOLTAGE CABLE, AND LV AND MV CONDUITS. CMP TO INSTALL MV UNDERGROUND CONDUCTORS, POLES AND ASSOCIATED HARDWARE, AND OVERHEAD DISTRIBUTION LINE.

3. ACCESSIBLE, LOCKABLE DISCONNECT WITH VISIBLE BLADES . SHALL BE WITHIN 10' OF UTILITY METER.

4. 24/7 UNESCORTED KEYLESS ACCESS SHALL BE PROVIDED TO ALL CMP POWER EQUIPMENT

5. OVERHEAD ELECTRIC FACILITIES ARE NOT EXPECTED TO HAVE ANY CLEARANCE CONCERNS

6. PROJECT INTERCONNECTION
TYPE : PRIMARY

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St Paul, MN 55114

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Client
CLAUDE DAIGLE

101 SEBAGO LAKE RD GORHAM, ME 04038-2524

Project
ME GORHAM DAIGLE CSG LLC - 700KWAC

Location
43.726751, -70.4428653

Certification

STATE OF MAINE
JONATHAN CALVA
No. 17682
PROFESSIONAL ENGINEER
LICENSED

12/05/2022

Summary

Designed: BJ
Drawn: BJ
Approved: JC
Book / Page: IC
Phase: PERMITTING
Initial Issue: 08/01/2022

Revisions

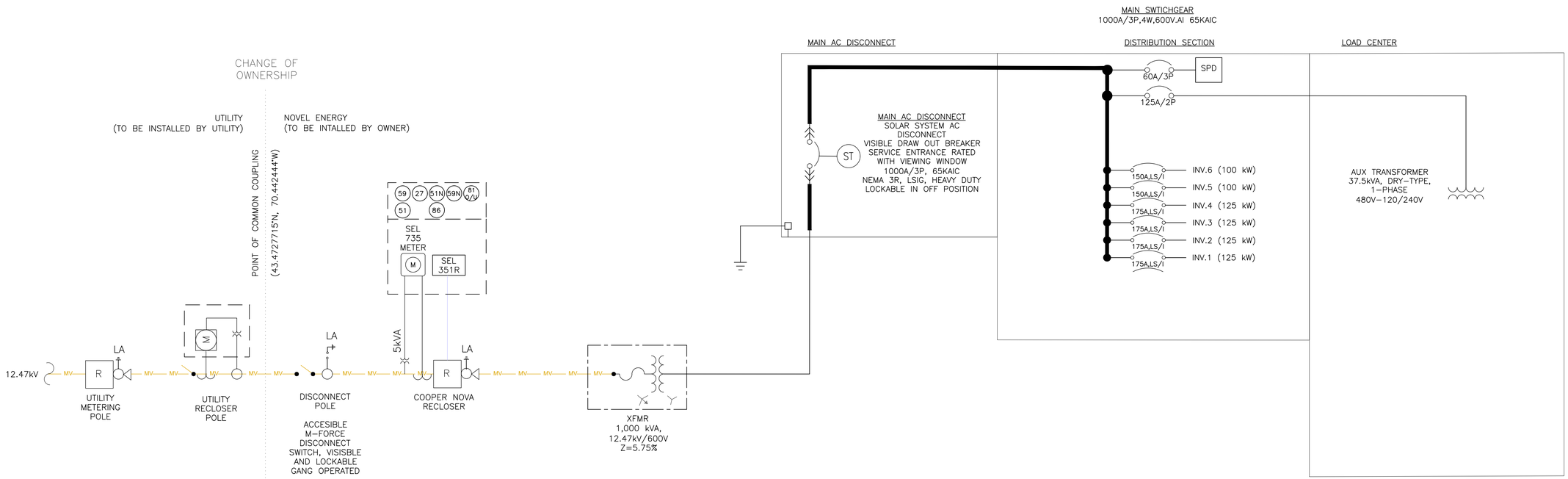
No.	Date	By	Chk	Description
01	11/18/22	RRM	RLE	CAPACITY REDUCTION

Sheet Title
OVERALL SITE PLAN

Sheet No.
E100

Project No. GRHM

Nov 30, 2022 - 11:00am - GRHM_IC.dwg



PROJECT INFORMATION

SITE ADDRESS:
43.726751, -70.4428653

INSTALLER:
NOVEL ENERGY SOLUTIONS
PAULA FITZGERALD
PAULA.FITZGERALD@NOVELENERGY.BIZ

COMPONENT SUMMARY

ITEM	TYPE	QTY.
MODULES	WAAREE AHNAY BIFACIAL MODULES 445W (BI-31-445)	2184
INVERTERS	CHINT POWER 125kWAC (CPS SCH125KTL-DO/US-600)	4
	CHINT POWER 100kWAC (CPS SCH100KTL-DO/US-600)	2
TRANSFORMER	1000 kVA	1

GENERATION SUMMARY

DC SYSTEM SIZE:	971,880 WATTS
AC SYSTEM SIZE:	700,000 WATTS
CONTINUOUS CURRENT:	673.57A @ 600VAC
POWER FACTOR	1

EXTERNAL RELAY SETTINGS

ANSI FUNCTION	PICKUP PRIMARY	PRIMARY SETTING	NOMINAL VALUE	UNITS	TIME DELAY (SEC)	TIME DELAY (CYC)	TOTAL CLEARING TIME (SEC)	TIME DELAY (SEC)
27	3600	15.35	7200	V	1.05	63	1.1	66
27	6336	27.02	7200	V	1.95	117	2	120
59	7920	33.77	7200	V	1.95	117	2	120
59	8640	36.84	7200	V	0.11	6.5	0.16	10
81U-1	56.5		60	HZ	0.11	6.5	0.16	10
81U-2	58.5		60	HZ	299.95	17997	300	18000
81O-1	61.2		60	HZ	299.95	17997	300	18000
81O-2	62		60	HZ	0.11	6.5	0.16	10
51P	0.486	49	32.40	A	TD:2.0 CURVE:U4			
51G	0.243	24	32.40	A	TD:1.5 CURVE:U4			
79	6840	29.17	7200	V	299.95	17997	18000	300
79	7560	32.24	7200	V				
79	59.4		60	HZ				
79	60.6		60	HZ				

INVERTER PROTECTION SETTINGS

ANSI FUNCTION	PICKUP	NOMINAL VALUE	UNITS	LEVEL	TOTAL CLEAR TIME (SEC)	DESCRIPTION
27	528.0	600	V	88%	2.00	SLOW UV
27	300.0	600	V	50%	1.10	FAST UV
59	660.0	600	V	110%	2.00	SLOW OV
59	720.0	600	V	120%	0.16	FAST OV
81U-1	56.5	60	HZ	94%	0.16	FAST UF
81U-2	58.5	60	HZ	98%	300.00	SLOW UF
81O-1	62.0	60	HZ	103%	0.16	FAST OF
81O-2	61.2	60	HZ	102%	300.00	SLOW OF
79	570.0	600	V	95%	300.00	MIN RECL. VOLTAGE
79	630.0	600	V	105%	300.00	MAX RECL. VOLTAGE
79	59.4	60	HZ	99%	300.00	MIN RECL. FREQ
79	60.6	60	HZ	101%	300.00	MAX RECL. FREQ

MV Cable Schedule

FROM	TO	CABLE NUMBER	TYPE	MATERIAL	CONDUCTOR	VOLTAGE (kV)	FEET	+VE RESISTANCE OHM/kFT	+VE REACTANCE OHM/kFT	(+VE) X/R	(ZERO) RESISTANCE OHM/kFT	(ZERO) REACTANCE OHM/kFT	(ZERO) X/R
POI - POLE	UTILITY METER	C1	OVERHEAD	ACSR	#2	12.47	30	0.331	0.0524	0.158	1.044	0.129	0.124
UTILITY METER	UTILITY GOAB	C2	OVERHEAD	ACSR	#2	12.47	30	0.331	0.0524	0.158	1.044	0.129	0.124
UTILITY GOAB	CUSTOMER GOAB	C3	OVERHEAD	ACSR	#2	12.47	30	0.331	0.0524	0.158	1.044	0.129	0.124
CUSTOMER GOAB	CUSTOMER RECLOSER	C4	OVERHEAD	ACSR	#2	12.47	30	0.331	0.0524	0.158	1.044	0.129	0.124
CUSTOMER RECLOSER	TRANSFORMER	C5	UNDERGROUND	AL	#2	12.47	130	0.331	0.0524	0.158	1.044	0.129	0.124

LEGEND

- MV CABLE
- POWER LINE
- OH LINE OR BUS
- DATA CABLE

NOTES

1. METERING AND SCADA TO BE CONFIRMED BY UTILITY.
2. INVERTERS TO BE RATED AT 125 kW 3-PHASE CHINT CPS SCH125KTL-DO/US-600, 100kW 3-PHASE CHINT CPS SCH 100KTL-DO/US-600, AND TO BE UL1741 LISTED.
3. INVERTER WILL HAVE CAPABILITY OF .80 TO .80 PF(LEADING AND LAGGING). EXACT POWER FACTOR/VAR CONTROL OF INVERTERS TO BE DETERMINED BASED ON UTILITY REQUIREMENTS.
4. MAIN BILLING METER SHALL BE MARKED IN ACCORDANCE WITH THE REQUIREMENTS FOR METER IDENTIFICATION IN THE ### POWER STANDARD.
5. ALL WIRING AND DESIGN TO FOLLOW NEC REQUIREMENTS.
6. TEST AND VERIFICATION FEATURES TO BE APPLIED IN THIS AREA.

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St Paul, MN 55114
info@novelenergy.biz
612-345-7188

Client
CLAUDE DAIGLE

Project
ME GORHAM DAIGLE CSG LLC - 700KWAC

Location
43.726751, -70.4428653

Certification

STATE OF MAINE
JONATHAN CALVA
No. 17682
PROFESSIONAL ENGINEER
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12/05/2022

Summary

Designed: BJ
Drawn: BJ
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Book / Page: IC
Phase: PERMITTING
Initial Issue: 08/01/2022

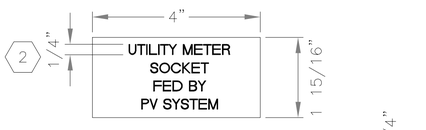
Revisions

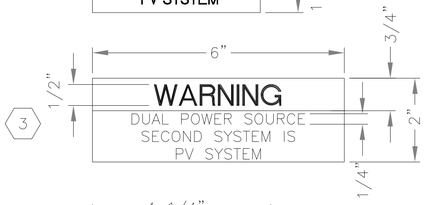
No.	Date	By	Chk	Description
01	11/18/22	RRM	RLE	CAPACITY REDUCTION

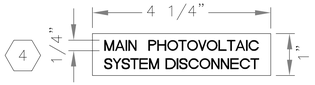
Sheet Title
ONELINE DIAGRAM

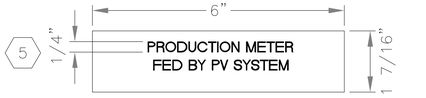
Sheet No.
E200

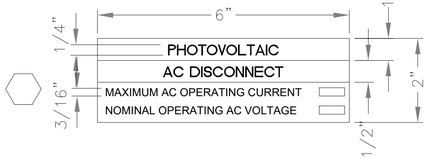
Project No. GRHM

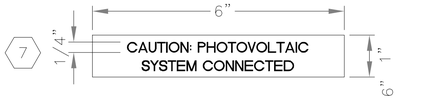


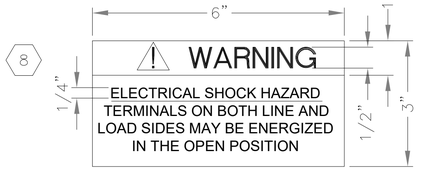


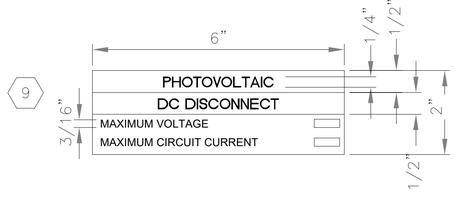


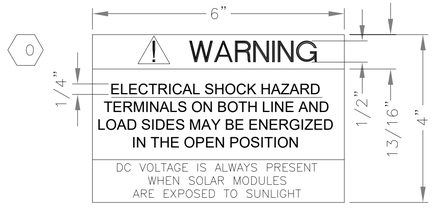


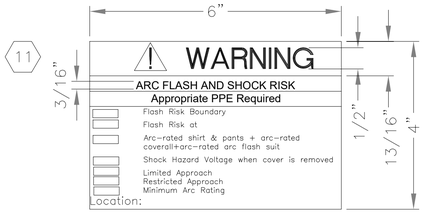


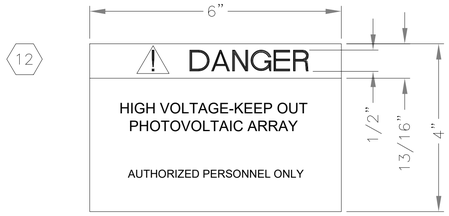


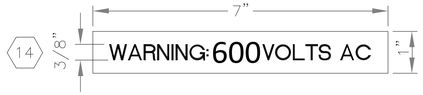




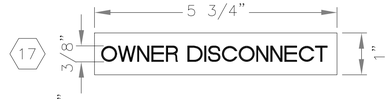


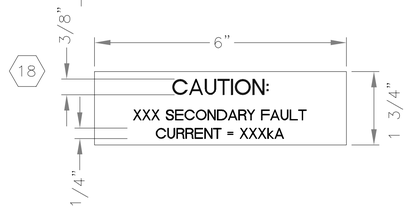






15 NOT USED

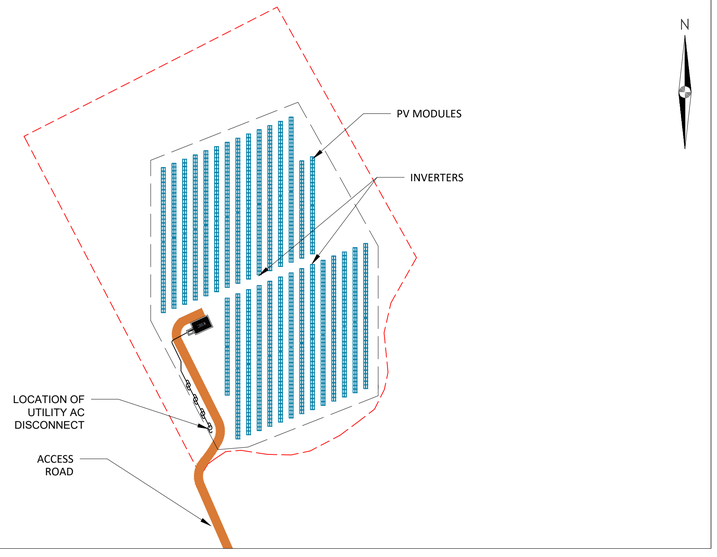




1

CAUTION

POWER TO THIS SERVICE IS ALSO SUPPLIED FROM THE PHOTOVOLTAICS AND DISCONNECTS LOCATED AS SHOWN.



LABEL #	QTY	LABEL LOCATION	DETAILS
1	TBD	MAIN SERVICE DISCONNECT AT POCC	• PLAQUE FOR LOCATING THE MAIN SERVICE DISCONNECTING MEANS AND THE PHOTOVOLTAIC DISCONNECTING MEANS. • WHITE BACKGROUND, BLACK LETTERS • 690.15(A), 705.10, 690.56(B) FACILITIES WITH UTILITY SERVICE AND PV SYSTEMS.
2	TBD	UTILITY SERVICE METER	• RED BACKGROUND, WHITE LETTERS
3	TBD	METERS, PULLBOXES, SWITCHGEAR, DISCONNECTS	• RED BACKGROUND, WHITE LETTERS
4	TBD	PHOTOVOLTAIC DISCONNECTING MEANS AT PROJECT INSTALLED DISCONNECT	• UTILITY MAIN PV AC DISCONNECT • RED BACKGROUND, WHITE LETTERS • 690.13(B)
5	TBD	PV PRODUCTION METER	• RED BACKGROUND, WHITE LETTERS
6	TBD	POI AC DISCONNECTS, INVERTER DISCONNECTS	• AC DISCONNECT SYSTEM DESCRIPTION • RED BACKGROUND, WHITE LETTERS
7	TBD	METERS, MAIN SERVICE DISCONNECT, FEEDER BREAKERS	• RED BACKGROUND, WHITE LETTERS
8	TBD	MAIN SERVICE DISCONNECT, AC PV DISCONNECT	• FOR DISCONNECTING MEANS WHERE BOTH SIDES MAY BE ENERGIZED IN OPEN POSITIONS. • RED BACKGROUND, WHITE LETTERS • 690.13(B), 690.15(D)
9	TBD	COMBINER BOXES, RE-COMBINER, INVERTER	• RED BACKGROUND, WHITE LETTERS • 690.53
10	TBD	COMBINER BOXES, RE-COMBINER, DISCONNECTS	• BUILDING OR STRUCTURE DISCONNECTING MEANS • RED BACKGROUND, WHITE LETTERS • 690.17(E)
11	TBD	DURING ARC FLASH STUDY IN TRANSFORMER, INVERTER, DISCONNECTS, STUDY PANEL BOARDS, COMBINER BOXES	• WARNING: ORANGE BACKGROUND, WHITE LETTERS • DANGER: RED BACKGROUND, WHITE LETTERS • DETAILED TEXT AREA: WHITE BACKGROUND, BLACK LETTERS • 110.16
12	TBD	SECURITY FENCE, ROOF ACCESS	• SPACED EVERY 100 FEET AT PERIMETER OF ARRAY. • SIGN SHALL BE AT LEAST 14AWG GALVANIZED STEEL, 20 YEAR LIFE WITH RESISTANCE TO UV. • INSTALL TO STANDARD ASSEMBLY.
13	TBD	PV POWER SOURCE CONDUCTORS ENCLOSURE	• WHERE PV SOURCE CONDUCTORS ARE CONTAINED: CONDUIT BODIES IN WHICH ANY OF THE AVAILABLE CONDUIT OPENINGS ARE UNUSED. • EVERY 10 FEET • 690.31(G)(3)
14	TBD	CONDUIT BETWEEN INVERTER AND TRANSFORMER	• AS NEEDED
15		NOT USED	
16	TBD	SERVICE METER AND PRODUCTION METER	
17	TBD	DISCONNECT	• ADDITIONAL SIGNAGE REQUIREMENT
18	TBD	MAIN AC SWITCHGEAR	• PROJECT SPECIFICATION

GENERAL NOTES:

1. ALL SIGNAGE SHALL HAVE ALL CAPITAL LETTERS, ARIAL OR OWNER APPROVED FONT. SIZES AND FORMAT FOR REFERENCE AND OTHER EQUIVALENT LABELS ACCEPTABLE.
2. SOLAR PANELS AND INVERTERS ARE EXPECTED TO HAVE NEC REQUIRED LABELING PREVIOUSLY AFFIXED.
3. ESTIMATED QUANTITIES PROVIDED HERE ONLY AND FINAL LABEL QUANTITIES TO BE DETERMINED BY CONTRACTOR.
4. QUANTITIES ARE BASED ON PER MW PROJECT UNLESS OTHERWISE NOTED.
5. UV RESISTANT VINYL LABELS MUST MEET REQUIREMENTS OF UL696.
6. MATERIALS ON THIS PAGE ARE CALLED OUT WITH SYMBOL: XX
7. ALL LABELS PRINTED ON STOCK HELLERMAN-TYTON LABELS.
8. ALL LABELS SHALL BE WEATHERPROOF, DURABLE AND PEMANENTLY MOUNTED.

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Client
CLAUDE DAIGLE

Project
ME GORHAM DAIGLE CSG LLC - 700KWAC

Location
43.726751, -70.4428653

Certification

STATE OF MAINE
JONATHAN CALVA
No. 17682
LICENSED
PROFESSIONAL ENGINEER

12/05/2022

Summary

Designed: BJ | Drawn: BJ
Approved: JC | Book / Page: IC
Phase: PERMITTING | Initial Issue: 08/01/2022

Revisions

No.	Date	By	Chk	Description
01	11/18/22	RRM	RLE	CAPACITY REDUCTION

Sheet Title
LABELS

Sheet No.
E450

Project No. GRHM