Acheron Engineering, LLC

Engineering& Environmental & Consultants www.AcheronEngineering.com

November 8, 2023

Alex Sirois, Code Enforcement Officer Town of Raymond 401 Webbs Mills Road Raymond, Maine 04071

RE: Allen Solar, LLC - Preliminary Minor Site Plan Review Application Follow Up Submittal

Dear Alex,

On behalf of our client Allen Solar, LLC attached are revised plans to address comments made during the October 11, 2023 Planning Board meeting, the engineering review memorandum dated October 2, 2023, the Raymond Fire & Rescue plan review memo dated September 6, 2023 and subsequent emails and meetings with the Raymond Fire & Rescue. Review comments, resulting revisions, and request of the board are summarized below.

October Meeting Review Comments:

- 1. *During the meeting the board showed interest in performing a site walk of the project area.* The project limits and access road has been flagged if the board elects to perform a site walk.
- 2. *The Raymond Fire & Rescue requested that the access road gate to the project be moved closer to Roosevelt Trail.* The site plan has been revised to accommodate this request.
- 3. In lieu of requiring a road to the north end of the project, the fire & rescue department requested that a dry stand pipe system would be acceptable. The stand pipe system would allow firefighters to have hose connections within the solar field. The system should allow a pumper truck to be positioned adjacent to a 10,000 gallon cistern, connected to the dry hydrant and pump water through the dry stand pipe system to hose connections within the solar field. Since the meeting, Sebago Solar and Acheron Engineering has met with the fire department and reviewed the specific requirements for the cistern and dry standpipe system. Based on this meeting a cistern and dry standpipe system for the project has been included on the site plan and a new plan sheet titled "Fire Protection Site Plan & Details" has been included in this submission.
- 4. The fire & rescue department requested that a 16' x 80' bypass be provided if two trucks meet on the access drive. The site plan and access road plan/profile plan have been revised to include the bypass requested.
- 5. The fire & rescue and planning/engineering departments requested that an AutoTurn template be provided to demonstrate that a fire truck can access the solar field. The access road plan and profile sheets have been revised to include the AutoTurn template. Please note the vehicle used has a slightly larger wheelbase than the vehicle specified by the fire & rescue department.

153 Main Street Newport, Maine 04953 Tel: 207.341.2590 Fax: 207.368.5120 Kirk J. Ball, PE KBall@AcheronEngineering.com 6. *The planning/engineering department indicated that the design should include an access drive to each of the stormwater soil filters.* The site plan has been revised to include an access drive to each of the soil filters.

Engineering Review Memo:

- 1. The engineer indicated that the elevation of the Soil Filter A, broad crested weir on the plan does not match the weir elevation noted in the HydroCAD model. Please confirm the correct elevation and update the plans accordingly. We agree that there is a discrepancy, however revisions have not been made to the model or the plans. Additional adjustments will be required to accommodate the additional impervious area from the fire bypass lane. Once the fire bypass lane is approved, final adjustments will be made to the details of Soil Filter A.
- 2. The engineer noted that the proposed entrance to the site is adjacent to the existing garage. The applicant shall confirm that the new entrance to the site will not interfere with access or parking for the garage entrance. The applicant has confirmed that the new entrance will not interfere with access or parking for the garage entrance.
- 3. It was requested that the grading under the solar farm be reviewed to make sure that there are no additional areas of channelized flow. The location of the road and the grading under the solar farm does result in channelized flow. However, the design includes a level spreader to convert the channelized flow to sheet flow.

Raymond Fire & Rescue Memo:

- 1. The plans have been revised to show location and detail of designated fire lanes and fire lane signage as referenced in items 1.b, 1.c, 1.d, & 1.g of the memo.
- 2. A note has been added to the site plan indicating that the "By-Pass" "Fire Lane" design is being provided in lieu of meeting the 20-foot Fire Access Road requirement of NFPA 1.
- 3. Unobstructed vertical clearance language has been added to the site plan as reference in section 1.f of the memo.
- 4. Knox Box notes have been added to the site plan as requested in section 1.i.
- 5. Plans have been revised indicating the location of the fire cistern and notes have been added indicating the project owner's responsibilities as indicated in sections 2.b and 2.b.i.
- 6. The fire standpipe system has been added to the plans, including access gates providing RFRD accessibility to the fire standpipe outlets.
- 7. A note has been added noting that the fire standpipe system is proposed in lieu of providing fire lane access around the entire site to meet NFPA requirements.
- 8. A note has been added to the site plan indicating the requirement for compliance, fire permits and fire inspection as indicated in sections 4 and 8.
- 9. The note has been added indicating the use of fire resistant plants on site per section 5 of the memo.

153 Main Street Newport, Maine 04953 Tel: 207.341.2590 Fax: 207.368.5120 Kirk J. Ball, PE KBall@AcheronEngineering.com 10. A note has been added to the site plan to address parking and towing as described in section 6 of the memo.

Requests:

- 1. Allen Solar, LLC requests that the property easement referenced in the Raymond Fire & Rescue memorandum be a condition of approval.
- 2. Allen Solar, LLC proposes to file for an E-911 address upon approval.

We appreciate the assistance and cooperation of the Town staff and Planning Board addressing these comments. If you have and questions or concerns, please contact me.

Respectfully Submitted, Acheron Engineering

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Kirk Ball, PE 11681

Cc: David Fowler Lucy Fowler

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Owner: Allen Solar Power, LLC 143 Highland Shores Road Casco, Maine 04015 207-615-6850 207-461-0666

Surveyor: Plisga & Day Land Surveyors 72 Main Street Bangor, Maine 04401 207-947-0019

Engineer of Record: Kirk Ball, PE Acheron Engineering Services 153 Main Street Newport, Maine 04953 207-368-5700

Code Enforcement: Raymond Alex Sirois 401 Webbs Mill Road Raymond, Maine 04071 207-655-4742 Ext. 161



Allen Solar Power, LLC. Roosevelt Trail Raymond, Maine

Acheron Engineering, LLC.

Engineering & Environmental Consultants

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GENERAL NOTES:

- ACHERON ENGINEERING HAS USED A REASONABLE STANDARD OF CARE TO TRY TO LOCATE UNDERGROUND FACILITIES IN THE VICINITY OF THIS PROJECT. LOCATIONS OF UNDERGROUND FACILITIES DEPICTED ON THESE DRAWINGS ARE APPROXIMATE. EXCAVATORS MUST COMPLY WITH ALL REQUIREMENTS OF TITLE 23 SECTION 3360, PROTECTION OF UNDERGROUND FACILITIES, BEFORE COMMENCING OPERATIONS.
- SPILL PREVENTION: CONTROLS MUST BE USED TO PREVENT POLLUTANTS FROM CONSTRUCTION AND WASTE MATERIALS STORED ON SITE TO ENTER STOF WHICH INCLUDES; STORAGE PRACTICES TO MINIMIZE EXPOSURE OF MATERIALS TO STORMWATER. THE SITE CONTRACTOR OR OPERATOR MUST DEVELOP IMPLEMENT, AS NECESSARY, APPROPRIATE SPILL PREVENTION, CONTAINMENT AND RESPONSE PLANNING MEASURES.
- ANY SPILL OR RELEASE OF TOXIC OR HAZARDOUS SUBSTANCES MUST BE REPORTED TO THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION. FOR CALL 1-800-482-0777 WHICH IS AVAILABLE 24 HOURS A DAY. FOR SPILLS OF TOXIC OR HAZARDOUS MATERIAL, CALL 1-800-482-4664 WHICH IS AVAILABLE 24 F FOR MORE INFORMATION VISIT THE MEDEP WEBSITE AT: WWW.MAINE.GOV/DEP/SPILLS/EMERGSPILLRESP/
- 4. GROUNDWATER PROTECTION: DURING CONSTRUCTION, LIQUID PETROLEUM PRODUCTS AND OTHER HAZARDOUS MATERIALS WITH THE POTENTIAL TO CO GROUNDWATER MAY NOT BE STORED OR HANDLED IN AREAS OF THE SITE OF THE SITE DRAINING TO AN INFILTRATION AREA. AN "INFILTRATION AREA" IS A SITE THAT BY DESIGN OR AS A RESULT OF SOILS, TOPOGRAPHY AND OTHER RELEVANT FACTORS ACCUMULATES RUNOFF THAT INFILTRATES INTO THE SOI BERMS, SUMPS AND OTHER FORMS OF SECONDARY CONTAINMENT THAT PREVENT DISCHARGE TO GROUNDWATER MAY BE USED TO ISOLATE PORTIONS O THE PURPOSES OF STORAGE AND HANDLING OF THESE MATERIALS. ANY PROJECT PROPOSING INFILTRATION OF STORMWATER MUST PROVIDE ADEQUATI PRE-TREATMENT OF STORMWATER PRIOR TO DISCHARGE OF STORMWATER TO THE INFILTRATION AREA, OR PROVIDE FOR TREATMENT WITHIN THE INFILT ORDER TO PREVENT ACCUMULATION OF FINES, REDUCTION IN INFILTRATION RATE AND CONSEQUENT FLOODING AND DESTABILIZATION. NOTE: LACK OF A POLLUTANT REMOVAL BEST MANAGEMENT PRACTICES (BMPS) MAY RESULT IN VIOLATIONS OF THE GROUNDWATER QUALITY STANDARD ESTABLISHED BY M (1).
- 5. DEBRIS AND OTHER MATERIALS: MINIMIZE THE EXPOSURE OF CONSTRUCTION DEBRIS, BUILDING AND LANDSCAPING MATERIALS, TRASH, FERTILIZERS, PES HERBICIDES, DETERGENTS, SANITARY WASTE AND OTHER MATERIAL TO PRECIPITATION AND STORMWATER RUNOFF. THESE MATERIALS MUST BE PREVEN BECOMING A POLLUTANT SOURCE. NOTE: TO PREVENT THESE MATERIALS FROM BECOMING A SOURCE OF POLLUTANTS, CONSTRUCTION AND POST CONS ACTIVITIES RELATED TO A PROJECT MAY BE REQUIRED TO COMPLY WITH APPLICABLE PROVISIONS OF RULES RELATED TO SOLID, UNIVERSAL AND HAZARD INCLUDING BUT NOT LIMITED TO, THE MAINE SOLID WASTE MANAGEMENT RULES; MAINE HAZARDOUS WASTE RULES; MAINE OIL CONVEYANCE AND STORAGE MAINE PESTICIDE REQUIREMENTS.
- 6. AUTHORIZED NON-STORMWATER DISCHARGES: IDENTIFY AND PREVENT CONTAMINATION BY NON-STORMWATER DISCHARGES. WHERE ALLOWED NON-ST DISCHARGES EXIST, THEY MUST BE IDENTIFIED AND STEPS TAKEN TO ENSURE THE IMPLEMENTATION OF APPROPRIATE POLLUTION MEASURES FOR THE NON-STORMWATER COMPONENT(S) OF THE DISCHARGE. AUTHORIZED NON-STORMWATER DISCHARGES ARE; DISCHARGES FROM FIREFIGHTING ACTIVITY, FLUSHING, VEHICLE WASHWATER IF DETERGENTS ARE NOT USED AND WASHING IS LIMITED TO THE EXTERIOR OF VEHICLES (ENGINE, UNDERCARRIAGE AN TRANSMISSION WASHING IS PROHIBITED), DUST CONTROL RUNOFF IN ACCORDANCE WITH PERMIT CONDITIONS, ROUTINE EXTERNAL BUILDING WASHDOWN INCLUDING PAINT REMOVAL, NO DETERGENTS), PAVEMENT WASHWATER (WHERE SPILLS/LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE NOT OCCURRE SPILLED MATERIAL HAD BEEN REMOVED, NO DETERGENTS), UNCONTAMINATED AIR CONDITIONING OR COMPRESSOR CONDENSATE, UNCONTAMINATED GR SPRING WATER, FOUNDATION OR FOOTER DRAIN-WATER WHERE FLOWS ARE NOT CONTAMINATED, UNCONTAMINATED EXCAVATION DEWATERING, POTABL SOURCES INCLUDING WATERLINE FLUSHING AND LANDSCAPE IRRIGATION.
- 7. UNAUTHORIZED NON-STORMWATER DISCHARGES: THE MAINE DEP'S APPROVAL DOES NOT AUTHORIZE A DISCHARGE THAT IS MIXED WITH A SOURCE OF NON-STORMWATER, OTHER THAN THOSE MENTIONED IN GENERAL NOTE 7 SPECIFICALLY. THE MAINE DEP'S APPROVAL DOES NOT AUTHORIZE DISCHARGE FOLLOWING; WASTEWATER FROM THE WASHOUT OR CLEANOUT OF CONCRETE, STUCCO, PAINT, FORM RELEASE OIL, CURING COMPOUNDS OR OTHER CON MATERIALS; FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; SOAPS, SOLVENTS OR DETERGENTS VEHICLE AND EQUIPMENT WASHING; AND TOXIC OR HAZARDOUS SUBSTANCES FROM A SPILL OR RELEASE.

EROSION CONTROL NOTES:

- 1. DURING CONSTRUCTION USE PRECAUTION TO AVOID ANY EROSION AND TO PREVENT SILTING OF OCEANS, RIVERS, STREAMS, LAKES, RESERVOIRS, IMPOU DRAINAGE DITCHES AND SWALES.
- 2. CONSTRUCTION SEQUENCE
- INSTALL TEMPORARY EROSION CONTROL MEASURES.
- DE-STUMP AND REMOVE BOULDERS.
- SEED ANY DISTURBED AREAS.
 CONSTRUCT STORMWATER MANAGEMENT FACILITIES.
- INSTALL SOLAR PANELS, SUBSTATION AND EQUIPMENT.
- INSTALL COLLECTOR LINES, REGRADE AND REVEGITATE ROADS.
- FINAL GRADING AND RESEEDING OF DISTURBED AREAS.
 REMOVE EROSION CONTROL DEVICES PENDING SUFFICIENT GROWTH IN SEEDED AREAS.
- ALL CONSTRUCTION ACTIVITIES SHOULD FOLLOW GUIDANCE AS PRESENTED IN "MAINE EROSION AND SEDIMENT CONTROL PRACTICES, FIELD GUIDE FOR O PUBLISHED BY THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION IN 2014.
- 4. MINIMUM EROSION CONTROL MEASURES WILL NEED TO BE IMPLEMENTED AND THE CONTRACTOR WILL BE RESPONSIBLE TO MAINTAIN ALL COMPONENTS OF CONTROL PLAN UNTIL THE SITE IS FULLY STABILIZED. HOWEVER, BASED ON SITE AND WEATHER CONDITIONS DURING CONSTRUCTION, ADDITIONAL EROSIN MEASURES MAY BE NEED TO BE IMPLEMENTED. ALL AREAS OF INSTABILITY AND EROSION MUST BE REPAIRED IMMEDIATELY DURING CONSTRUCTION AND MAINTAINED UNTIL THE SITE IS FULLY STABILIZED OR VEGETATION IS ESTABLISHED. A CONSTRUCTION LOG MUST BE MAINTAINED FOR EROSION AND SEDIL CONTROL AND MAINTENANCE.
- 5. LOCATE AND MARK ALL PROJECT BOUNDARIES PRIOR TO CONSTRUCTION
- 6. LIMIT THE AMOUNT OF SOIL DISTURBANCE TO NO MORE THAN 2 ACRES AT ONE TIME OR NO LARGER AREA THAN CAN BE MULCHED IN ONE DAY.
- 7. MARK ALL SOIL DISTURBANCE LIMITS AND INSTALL SEDIMENT BARRIERS PRIOR TO DISTURBING SOILS.
- 8. MULCH EXPOSED SOIL AS SOON AS POSSIBLE, AND REVEGETATE AS SOON AS FINAL GRADE IS ATTAINED.
- 9. INSPECT AND REPAIR EROSION CONTROL AND SEDIMENT TRAPPING MEASURES WEEKLY AND AFTER EVERY STORM EVENT.
- 10. REMOVE TEMPORARY EROSION CONTROLS WITHIN 30 DAYS AFTER PERMANENT STABILIZATION IS ATTAINED. PERMANENT STABILIZATION CONSISTS OF AT VEGETATION, PAVEMENT, GRAVEL BASE OR RIP-RAP.
- 11. STABILIZE DITCHES WITHIN 24 HOURS OF FINAL GRADE.
- 12. ALL FILL MATERIAL MUST BE FREE OF FROZEN SOIL, ROCKS OVER 6-INCHES, SOD, BRUSH, STUMPS, TREE ROOTS, WOOD OR OTHER PERISHABLE MATERIAL
- 13. INSTALL SEDIMENT BARRIERS DOWN SLOPE OF SOIL STOCK PILES.
- 14. DO NOT SITE SOIL STOCK PILE IN AREAS OF CONCENTRATED STORMWATER FLOW OR AREAS OF POTENTIAL FLOODING.
- 15. THE DURATION OF EXPOSURE OF UNCOMPLETED CUT SLOPES, EMBANKMENTS, TRENCH EXCAVATIONS, AND SITE GRADED AREAS SHALL BE MINIMIZED. INI AND OTHER EROSION CONTROL MEASURES ON EACH SEGMENT AS SOON AS REASONABLY POSSIBLE.
- 16. SHOULD IT BECOME NECESSARY TO SUSPEND CONSTRUCTION FOR MORE THAN 7 DAYS, SHAPE AND STABILIZE ALL EXCAVATED AND GRADED AREAS. PRO MAINTAIN TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES, SUCH AS BERMS, DIKES, SLOPE DRAINS, SILT STOPS, AND SEDIMENTATION BASINS, PERMANENT DRAINAGE FACILITIES OR EROSION CONTROL FEATURES HAVE BEEN COMPLETED AND ARE OPERATIVE. IF DISTURBED AREAS ARE WITHIN 75 F WETLAND OR WATERBODY, STABILIZE DISTURBANCE WITHIN 48 HOURS OR PRIOR TO ANY STORM EVENT, WHICHEVER COMES FIRST.
- 17. FINE MATERIAL PLACED OR EXPOSED DURING THE WORK SHALL BE HANDLED AND TREATED AS TO MINIMIZE THE POSSIBILITY OF IT REACHING ANY SURFACE DIVERSION CHANNELS, DIKES, SEDIMENT TRAPS, OR ANY OTHER EFFECTIVE AND APPROVED CONTROL MEASURES.
- 18. PROVIDE SILT STOPS WHEREVER EROSION CONTROL MEASURES MAY NOT BE TOTALLY CAPABLE OF CONTROLLING EROSION, SUCH AS IN DRAINAGE CHAN WHERE STEEP SLOPES MAY EXIST.
- 19. BEFORE WATER IS ALLOWED TO FLOW IN ANY DITCH, SWALE, OR CHANNEL, INSTALL THE PERMANENT EROSION CONTROL MEASURES IN THE WATERWAY S WATERWAY WILL BE SAFE AGAINST EROSION.
- 20. TAKE SPECIAL PRECAUTIONS IN THE USE OF CONSTRUCTION EQUIPMENT TO MINIMIZE EROSION. DO NOT LEAVE WHEEL TRACKS WHERE EROSION MIGHT B
- 21. MULCHING SHALL FOLLOW THE SEEDING OPERATION BY NOT MORE THAN 24 HOURS.
- 22. SHOULD ANY PROTECTIVE MEASURES EMPLOYED INDICATE ANY DEFICIENCIES OR EROSION TAKING PLACE, IMMEDIATELY PROVIDE ADDITIONAL MATERIAL DIFFERENT TECHNIQUES TO CORRECT THE SITUATION AND TO PREVENT SUBSEQUENT EROSION.
- 23. DISTURBANCE WITHIN 30 FEET OF ANY PROTECTED NATURAL RESOURCE WILL REQUIRE DOUBLING THE PERIMETER EROSION CONTROLS AND DISTURBED A STABILIZED WITHIN 7 DAYS.
- 24. CONTINUE EROSION CONTROL MEASURES UNTIL THE PERMANENT MEASURES HAVE BEEN SUFFICIENTLY ESTABLISHED AND ARE CAPABLE OF CONTROLLIN THEIR OWN.
- 25. REMOVE ALL TEMPORARY CONTROL MEASURES WITHIN 30 DAYS AFTER PERMANENT STABILIZATION IS ATTAINED.
- 26. COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, RULES AND REGULATIONS. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS SET BEST MANAGEMENT PRACTICES OF MAINE AS PREPARED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.
- 27. AREAS CONTAINING EXPOSED SOILS MUST BE STABILIZED WITHIN 7 DAYS OF CESSATION OF AN ACTIVITY.
- 28. BEGIN PERMANENT STABILIZATION WITHIN 7 DAYS OF OBTAINING FINAL GRADE.

FION 3360,		 ALL STONE LINED DITCHES AND CHANNELS ALL STONE COVERED SLOPES SHALL BE CO 	SHALL I	BE CONSTR	RUCTED AND S	TABILIZED BY NOVEMBER 15TH. / NOVEMBER 15TH.			
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ORMWATER		 NO MULCH SHALL BE SPREAD OVER SNOW. LOAM SHALL BE FREE OF FROZEN CLUMPS INSPECT WEEKLY AND AFTER EACH STORM IN SPRING, REMOVE ANY EXCESS MULCH, S 	BEFORE TO CHE EED AN	Shall be r E Being Apf Eck for er D Monitor	EMOVED WITH PLIED. COSION AND RI CFOR EROSIOI	EPAIR IMMEDIATELY. N AND PLANT GROWTH.			
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JNDMENTS, AND	34.	FUGITIVE SEDIMENT AND DUST: ACTION MUST E EMISSIONS DURING OR AFTER CONSTRUCTION. STABILIZED CONSTRUCTION ENTRANCE (SCE) S ROADS SHOULD BE SWEPT IMMEDIATELY AND N THAT EXPERIENCE FUGITIVE DUST PROBLEMS, S ADDITIVE TO SUPPRESS FUGITIVE SEDIMENT AN	BE TAKE OIL MA HOULD O LESS SHOULD ID DUST	N TO ENSU Y NOT USE BE INCLUDI THAN ONC WET DOW I.	RE THAT ACTI D FOR DUST C ED TO MINIMIZ E A WEEK AND N UNPAVED A(VITIES DO NOT RESULT IN NOTICEABLE EROSION OF SOILS OR FU CONTROL, BUT OTHER WATER ADDITIVES MAY BE CONSIDERED AS E TRACKING OF MUD AND SEDIMENT. IF OFF-SITE TRACKING OCC PRIOR TO SIGNIFICANT STORM EVENTS. OPERATIONS DURING D CCESS ROADS ONCE PER WEEK OR MORE FREQUENTLY AS NEED	GITIV 3 NEE 2URS, 2RY M 2ED W		
	35.	 IN LIEU OF SILT FENCE, EROSION CONTROL MIX FOLLOW GUIDELINE IN THE MAINE EROSION THE EROSION CONTROL MIX BERM SHOULD AND HIGHER. BERMS COMPOSED OF EROS THE EROSION CONTROL MIX MUST BE WELL COMPOSED OF FIBROUS AND ELONGATED F ROCKS LARGER THAN 4" OR LARGE AMOUNT SHOULD NOT BE REMOVED BEFORE GRINDI CHIPS, GROUND CONSTRUCTION DEBRIS OF 	Can be be min ion con -grade Fragme TS of F NG. Th R PROC	USED IF TH EDIMENT CO IIMUM OF 12 NTROL MIX ED WITH AN ENTS. THE I INES (SILTS E MIX SHOU ESSES WOO	HE FOLLOWING ONTROL PRAC 2" HIGH AND A CAN BE SHAPE ORGANIC COI MINERAL POR 5 AND CLAYS). JLD BE FREE C OD PRODUCTS	3 CONDITIONS ARE MET. TICES FIELD GUIDE, 2014. MINIMUM OF 2' WIDE. ON STEEPER SLOPES, THE BERM WILL NEED ED WHEN NECESSARY. MPONENT THAT IS BETWEEN 50 AND 100% OF DRY WEIGHT, AND T TION OF THE MIX SHOULD BE NATURALLY INCLUDED IN THE PROD IN STUMP GRINDING, THE MINERAL SOIL ORIGINATES FROM THE DF REFUSE, MATERIAL TOXIC TO PLANT GROWTH OR UNSUITABLE S).	D TO [hat uuct \ Root Mate		
CONTRACTORS"	36.	SEEDING:							
OF THE EROSION ION CONTROL NEED TO BE IMENTATION		 COMPLETE SEEDING WITHIN 7 DAYS OF FIN/ BROADCAST SEED OVER ENTIRE DITCH AND APPLY HAY MULCH TO ALL SEEDED AREAS. SUMMER SEEDING DATES ARE FROM APRIL PERMANENT SEEDING SHOULD BE DONE 45 NORTHEAST SOLAR POLLINATOR 3' MIX, BY SEEDING RATE: SEED AT 40 LB/ACRE WITH 30 LBS/ACRE OF FOR A COVER CROP USE EITHER GRAIN OF MIX COMPOSITION: 94.9% FESTUCA OVINA, (SHEEP FESCUE) 2.5% ASCLEPIAS TUBEROSA (BUTTERFLY 2.0% CHAMAECRISTA FASCICULATA, PA E 0.3% OENOTHERA FRUTICOSA VAR. FRUT 0.3% TRADESCANTIA VIRGINIANA, SOUTH 	1 TO SE DAYS E ERNST DF A CO DATS (1 MILKW ECOTYP FICOSA	EPTEMBER BEFORE A K SEEDS OR JAN TO 31 EED) E (PARTRID (SUNDROPS RN PA/NOR	IKE INTO SOIL. 15. ILLING FROST APPROVED EC JUL) OR GRAIN IGE PEA, PA EC S) IHERN VA BLE	YUAL N RYE (1 AUG TO 31DEC). COTYPE) END (VIRGINIA SPIDERWORT, SOUTHEASTERN PA/NORTHERN VA B			
T LEAST 90%	37.	 MULCHING: APPLY TEMPORARY MULCH ON DISTURBED DO NOT APPLY EROSION CONTROL MIX OR HAD NOT USE E	AREAS HAY MU Y MULC	WITHIN 7 D	AYS OF INITIAI ICENTRATED V PES STEEP TH	L DISTURBANCE OR PRIOR TO ANY STORM. WATER FLOWS. HAN 2:1.	CONL		
LS.	38.	 OSE HAY MOLCH AS A TEMPORARY MEASOR APPLY AT A RATE OF TWO SQUARE BALES (INSPECTION TABLE: 	70-90 PC	OTECT BA OUNDS) PEF	RE SOILS OR R 1,000 SQUAR	REFEET.			
ITIATE SEEDING		EROSION AND SEDIMENT CONTROL MEASURES AND ACTIVITY	II	NSPECTION FR	REQUENCY	ROADWAYS AND PARKING SURFACES The gravel pad at the construction entrance is clear from sediments	X		
			Weekly	Before and After a Storm	After Construction	Roads are crowned Cross drainage (culvert) is provided False ditches (from winter sand) are graded	X		
, UNTIL FEET OF A		Sediment barriers are installed prior to soil disturbances Silt fences are keyed in and tight	X X	X X		BUFFERS Buffers are free of erosion or concentrated flows The downgradient of spreaders and turnouts is stable			
CE WATERS. USE		Barriers are repaired and replaced as necessary Barriers are removed when the site is stabilized - Silt fence should be cut at the ground surface TEMPORARY STABILIZATION	X	X	X	Level spreaders are on the contour The number of spreaders and ditch turnouts is adequate for flow distribution			
NNELS AND		Areas are stabilized if idle for 14 days or more Daily stabilization within 100 ft of a natural resource MULCH	X X	X X		spreader or turnouts STORMWATER BASINS AND TRAPS Embankments are free of settlement, slope erosion, internal piping,			
SO THAT THE		Seed and mulch within 7 days of final grading. Ground is not visible Erosion control mix is 4-6 inch thick Erosion control blankets or hay mulch are anchored	X X X	X X X		and downstream swamping All flow control structure or orifices are operational and clear of debris or sediments			
BEGIN.		VEGETATION Vegetation provides 90% soil cover Loam or soil amendment were provided	X X		X X	Any pre-treatment structure that collects sediment or hydrocarbons is clean or maintained Vegetated filters and infiltration basins have adequate			
		New seeded areas are mulched and protected from vehicle, foot traffic and runoff Areas that will remain unworked for more than 1 year are vegetated with grass	X X	X	X	grass growth Any impoundment or forebay is free of sediment WINTER CONSTRUCTION (November 1 st -April15th) Einel graded grade are multipled deliver the permet rate with			
S OR EMPLOY		SLOPES AND EMBANKMENTS Final graded slopes and embankments are stabilized Dispersively in the intervention	X	X	X	A double row of sediment barrier is provided for all areas within 100			
AREAS MUST BE		Diversions are provided for areas with rill erosion Areas steeper than 2:1 are riprapped Stones are angular, durable and various in size	X X X	X	X	ft of a sensitive resource (use erosion control mix on frozen ground) Newly constructed ditches are riprapped	Dail Dail		
NG EROSION ON		Riprap is underlain with a gravel layer or filter fabric STORMWATER CHANNELS AND CULVERTS Ditches and swales are permanently stabilized-	X			Slopes greater than 8% are covered with an erosion control blanket or a 4-inch layer of erosion control mix HOUSEKEEPING PUNCH LIST	Dail		
		channels that will be riprapped have been over- excavated Ditches are clear of obstructions, accumulated sediments or debris	X	X	X	All disturbed areas are permanently stabilized, and plantings are established (grass seeds have germinated with 90% vegetative cover)			
FORTH IN THE		Ditch lining/bottoms are free of erosion Check dams are spaced correctly to slow flow velocity Underlying filter fabric or gravel is not visible Culvert aprons and plunge pools are sized for expected flows volume and velocity	X X X X	x		All trash, sediments, debris or any solid waste have been removed from stormwater channels, catch basins, detention structures, discharge points, etc. All ESC devices have been removed: (silt fence and posts, diversions and sediment structures, etc.)			
		Stones are angular, durable and various in size Culverts are sized to avoid upgradient flooding Culvert protection extends to the maximum flow	X X X	X X	x	All deliverables (certifications, survey information, as- built plans, reports, notice of termination (NOT), etc.) in accordance with all permit requirements have been submitted to			

town, Maine DEP, association, owner, etc.

24. WINTERIZATION SCHEDULE

elevation within the ditch

Culvert is embedded, not hanging

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	# 	COVER SHEET	B 2/2 d D
	C-1	SITE PLAN EXISTING CONDITIONS PROPOSED CONDITIONS SITE PLAN & EROSION / SEDIMENTATION CONTROL PLAN	KJE Chki
	C-3 C-4	ACCESS ROAD PLAN AND PROFILE FIRE PROTECTION SITE PLAN AND DETAILS	BPG Drwn
$\sim \frac{1}{2}$	D-1 D-2	CONSTRUCTION DETAILS DETAILS	
ES BY	SW-1 SW-2	PRE-CONSTRUCTION STORM WATER PLAN POST-CONSTRUCTION STORM WATER PLAN	usted rray ction.
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		· · · · ·	Sheet 1 of 9



0	80'	160'	240'
SCALE:	1" = 80'		





	NO1	TES: THE PROTECTED NATURAL RESOURCES FIELD DELINEATION SERVICES WERE CONDUCTED BY WATERSHED		0	123	
Hown Rth in Ring	1.	RESOURCE CONSULTANTS, LLC. PROTECTED NATURAL RESOURCES FIELD DELINEATION SERVICES WERE CONDUCTED ON MAY 2022, AND APRIL & MAY 2023. RESOURCE FEATURES WERE LOCATED BY WATERSHED RESOURCE CONSULTANTS, LLC USING A MAPPING GRADE GPS RECEIVER (SUBMETER		8/29/3	1/20/11	Date
ems Ving Dlar	2. 3.	ACCURACY AS PER MANUFACTURER). 2 FT CONTOURS WERE DEVELOPED FROM MEGIS LIDAR DOWNLOADED FROM USGS NATIONAL MAP. PLAN REFERENCE: "SURVEY PLAN PROPERTY OF SCOTT ALLEN" DATED MAY 8, 2023, PROVIDED BY PLISGA		B V	E N B N	Chk'a
	4. 5.	& DAY LAND SURVEYORS. CAD FILE: 23084 to Acheron 20230508.dwg. ZONING DISTRICTS: RURAL RESIDENTIAL (RR), APPROXIMATELY 5.8 ACRES WITHIN LRR1 SHORELAND ZONE. EXISTING IMPERVIOUS AREA ON LOT: 17,602 SF		BPG	BPG	Дгwn
	6. 7. 8	PROPOSED IMPERVIOUS AREA: 19,368 SF LOT COVERAGE: EXISTING = 1.3%, PROPOSED = 1.4%, TOTAL = 2.7% 100-YEAR FLOODPLAIN IS NOT WITHIN 300 FEET OF THE PROJECT PARCEL		e	> <u>-</u>	
	9. 10.	ALL EXISTING STRUCTURES WITHIN THE PARCEL BOUNDARY TO REMAIN. ALL BUILDINGS WITHIN 100 FEET OF PARCEL BOUNDARY LOCATED USING AERIAL IMAGERY.		adjuste č.	ir array	
	11. 12.	THE CLOSEST FIRE HYDRANT IS NOT LOCATED WITHIN 200 FEET. MORE THAN 78.6% OF CTH TO BE MAINTAINED AS UNFRAGMENTED FORESTED CANOPY.		e line ; d Zone	d sola re pro	
	13. 14.	SOILS: HhB - HERMON SANDY LOAM, 0 - 8% SLOPES, VERY STONY AND HSG A HhC - HERMON SANDY LOAM, 8 - 15% SLOPES, VERY STONY AND HSG A		nd tre re Lan	oad an 5 for fi	
	15.	WsB - WOODBRIDGE VERY STONY FINE SANDY LOAM, 0 - 8% SLOPES AND HSG C PV TOTAL SYSTEM SUMMARY:		ence a to Sho	cess r	
		 2,738 PV MODULES TOTAL 590W PV MODULES 1,615 KW DC TOTAL 		leter fi Ipact t	to ac comp	iption
		 996 KW PV AC TOTAL 19-20 MODULES PER STRING (TYP.) 		c perim mize in	cations ing the	1 Desci
		 144 STRINGS TOTAL 24 STRINGS PER INVERTER 6 X 166 KW INVERTERS 		Projec: to mini	Modific	Revisio
	16.	1 X 1000 KVA TRANSFORMER INSTALLATION, COMMISSIONING AND INTERCONNECTION TO THE ELECTRIC UTILITY CIRCUIT TO BE		<	<u>п</u>	No.
\sum	17.	PERFORMED BY LICENSED ELECTRICIAN. APPROXIMATE AREA OF LOTS WITHIN LRRI SHORELAND ZONE = 256,018 SF. CLEARING REQUIRED WITHIN LRRI REQUIRED = 60.817 SF OR 24% OF LOT AREA WITHIN LRRI.				
	FIRE 1.	EROTECTION: ACCESS ROAD, BYPASS LANE SHALL BE CONSTRUCTED AND MAINTAINED TO SUPPORT A 75,000 GVWR FIRE	ല			
0	2.	APPARATUS. THE ENTRANCE GATE AREA, BYPASS AND HAMMERHEAD ARE DESIGNATED FIRE LANES.		ml		023
	3. 4.	ALL FIRE LANES SHALL BE MARKED WITH SIGNS THAT READ; "FIRE LANE," "NO PARKING," "VEHICLES TOWED AT OWNER'S EXPENSE." SIGN LOCATIONS TO BE APPROVED BY RAYMOND FIRE DEPARTMENT. THE ACCESS ROAD SHALL BE CONSTRUCTED AND MAINTAINED TO PROVIDE A MINIMUM OF 13'-6" OF	B(B)	N		14/2
	5.	UNOBSTRUCTED VERTICAL CLEARANCE. MAXIMUM ANGLE OF APPROACH: 8 DEGREES.	n By: g By:	d By:	vd By.	.; 100
	6. 7. 8.	MAXIMUM DEPARTURE ANGLE: 9 DEGREES. MAXIMUM BREAKOVER ANGLE: 13 DEGREES. MAXIMUM ROAD GRADE: 10 DEGREES.	Drw Des	Chk	Apr	Date
25	9. 10.	ALL ENTRANCE GATES SHALL HAVE A MINIMUM OPEN CLEARANCE OF 20 FEET. ALL GATES SHALL HAVE A RAYMOND FIRE & RESCUE DEPARTMENT KNOX BOX THAT INCLUDE ALL KEYS OR				
	11.	KEY CARDS, AND CURRENT SITE EMERGENCY CONTACT INFORMATION. THE FIRE STANDPIPE SYSTEM SHOWN ON THE PLAN IS IN LIEU OF PROVIDING FIRE LANE ACCESS AROUND THE ENTIRE SITE TO MEET NEPA REQUIREMENTS.			188	
N I	12.	THE OPERATIONAL READINESS OF THE FIRE CISTERN, COMPONENTS, AND STANDPIPE SYSTEM INCLUDING REPAIRS AND REPLACEMENT, IS THE RESPONSIBILITY OF THE OWNER OF THE SOLAR FACILITY.	$\bigcup_{i=1}^{n}$	sints	East A 23	2590
	13. 14	THE FIRE CISTERN SHALL BE INSTALLED, INSPECTED, AND APPROVED BY THE RAYMOND FIRE & RESCUE DEPARTMENT PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY. AN EASEMENT SHALL BE GRANTED TO THE TOWN OF RAYMOND FIRE & RESCUE DEPARTMENT TO ACCESS		sutto	inter urg, V	341-2
$\langle \rangle$	14. 15.	TO THE FACILITY FOR ANNUAL TESTING AND TRAINING. A RAYMOND FIRE & RESCUE DEPARTMENT FIRE PERMIT FOR THE FIRE CISTERN/DRY HYDRANT SHALL BE	, ĝo	CON	n 113 W amsbı	(207)
\sim	16.	OBTAINED BY THE APPLICANT PRIOR TO ITS INSTALLATION. THE FACILITY STREET ADDRESS SHALL BE INSTALLED ON EACH BUILDING OR DWELLING UNIT ON	rin		ng.con I Willi	-
	17.	ROOSEVELT TRAIL IN THE IMMEDIATE AREA OF THE FACILITY ENTRANCE AND ON A FACILITY SIGN(S) AT THE FACILITY ENTRANCE. THE FACILITY E-911 ADDRESS SHALL BE VISIBLE FROM BOTH APPROACH DIRECTIONS ON ROOSEVELT TRAIL.	199	nen	neerin	
	18.	AND LOCATED TO BE CLEARLY VISIBLE FROM WITHIN THE FIRE APPARATUS CAB. THE STREET ADDRESS LETTERING SHALL BE NO LESS THAN 6" IN HEIGHT, SHALL BE OF A CONTRASTING	in	ron	ıEngi	
		COLOR TO THE SIGN BACKGROUND, AND PREFERABLY THE LETTERS SHOULD BE REFLECTIVE FOR NIGHT OR REDUCED LIGHT CONDITIONS. THE PLACEMENT OF STREET ADDRESS SIGNS SHALL BE APPROVED BY THE RAYMOND FIRE RESCUE DEPARTMENT AND F-911 COORDINATOR		innt	cheroi	
<	19.	DURING THE CONSTRUCTION, A TEMPORARY E-911 STREET ADDRESS SIGN SHALL BE POSTED AT THE ENTRANCE AND VISIBLE FROM ROOSEVELT TRAIL.		1 X	<i>и</i> т.Ас 53	
>	20. 21	THE PROJECT SHALL FOLLOW THE RELEVANT SOLAR PHOTOVOLTAIC AND FIRE SAFETY STANDARDS SUCH AS, BUT NOT LIMITED TO; NFPA 70, NFPA 70B, NFPA 70E, UL1471, NFPA 855, AND NFPA 1. ALL REQUIRED RAYMOND FIRE & RESCUE FIRE PERMITS FOR EMERGENCY VEHICLE ACCESS OR FIRE	10,	ring	1 St. 1. 049	-5700
R	21.	PROTECTION SYSTEMS SHALL BE SUBMITTED AND APPROVED BY THE RAYMOND FIRE RESCUE DEPARTMENT PRIOR TO ISSUANCE OF BUILDING PERMITS.	hen	nee	8 Main t, ME	-368-
	22.	PRIOR TO SCHEDULING ANY FIRE PERMIT INSPECTIONS, INCLUDING THE RAYMOND FIRE & RESCUE DEPARTMENT CERTIFICATE OF OCCUPANCY INSPECTION, THE APPLICANT SHALL PROVIDE PROOF TO THE THAT THE FIRE PERMIT FEE PAYMENTS HAVE BEEN BECEIVED AT THE TOWN CLERKS OFFICE	4c	Engi	153 ewpoi	(207)
		RE-INSPECTION APPOINTMENTS ARE SUBJECT TO A RE-INSPECTION FEE, PAYABLE PRIOR TO SCHEDULING ANY RE-INSPECTION. ALL INSPECTIONS WITH THE RFRD MUST BE SATISFACTORILY COMPLETED AND	7		N	
$\frac{2}{2}$	23.	APPROVED PRIOR TO ISSUANCE OF THE CERTIFICATE OF OCCUPANCY FOR THE FACILITY. RAYMOND BUILDING, ELECTRICAL AND FIRE PERMIT APPLICATIONS SHALL INCLUDE: A MAP OR DIAGRAM OF THE PROPOSED BY SYSTEM DESIGN THAT INCLUDES LOCATIONS OF ALL BY GROUND PANELS. AC & DC				
		ELECTRICAL DISCONNECTS REMOTE EMERGENCY DISCONNECTS, AND ANY SYSTEM PANELS, CONDUIT, COMBINER BOXES, OR INVERTERS. THE MAP OR DIAGRAMS SHALL NOTE THE LOCATIONS OF GROUND		Ē		
		FAULT, SURGE PROTECTION, LIGHTNING PROTECTION SYSTEMS, ARC FAULT PROTECTION OR DETECTION DEVICES, GROUND FAULT OR PV ARRAY ISOLATION SENSING DEVICES, MODULE LEVEL CONTROLS OR "SMART MODULES," AUTOMATED PERFORMANCE MONITORING INSTRUMENTATION, AND DIFFERENTIAL				
		CURRENT SENSORS OR RESIDUAL CURRENT DETECTORS. DATA SHEETS THAT DETAIL THE EQUIPMENT LISTINGS AND CERTIFICATIONS AND CERTIFICATIONS FOR WIND AND HAIL RESISTANCE AND ANY	Д Д			
		ADDITIONAL SYSTEM INFORMATION SHOULD BE NOTED ON THE MAP OR DIAGRAM. WRITTEN PLAN FOR SITE MAINTENANCE OF VEGETATION AND DEBRIS CONTROL IN AND AROUND THE SOLAR PV ARRAYS, COMBINED BOYES, TRANSCORMERS, AND INVERTERS		ntre		
	24.	AN EMERGENCY RESPONSE PLAN SHALL BE SUBMITTED TO THE RAYMOND FIRE & RESCUE DEPARTMENT WHEN FILING FOR A RAYMOND FIRE PERMIT.	ite	O C	q	
19	25.	PARKING: THERE SHALL BE NO ON-STREET PARKING ON ("E-911 ASSIGNED STREET NAME-TBD") IN THE IMMEDIATE AREA AND BOTH SIDES OF THE ENTRANCE GATE, FIRE APPARATUS TURNAROUND AND BY-PASS LANE AREAS. NO LINATTENDED VEHICLES, FOLURMENT, FTC, SHALL BE LEFT IN SUCH A MANNER	() 	Ц	C. Roa	
2a		AS TO IMPEDE THE PASSAGE OF TRAFFIC OR TO IMPAIR ACCESS TO THE ENTRANCE OR FIRE APPARATUS TURNAROUNDS/BY-PASS AREAS. THE FACILITY OWNER OR PROJECT DIRECTORS MAY TAKE ALL ACTIONS	tio	atic	r, LL vores	aine
~		NECESSARY TO ENFORCE ALL PARKING AND VEHICLE USE REGULATIONS, INCLUDING BUT NOT LIMITED TO REMOVAL OF VEHICLES OR EQUIPMENT IN VIOLATION OF ANY SUCH REGULATIONS. FURTHER, ANY	קן	ent	Sola 1d Sh	o, Mi
		TO THE OWNER. THE FACILITY OWNER OR PROJECT DIRECTORS WILL ESTABLISH WRITTEN AUTHORIZATIONS WITH ONE OR MORE TOWING COMPANIES FOR THE PURPOSE OF TOWING ANY VEHICLE	$\overset{\text{O}}{\overset{\text{O}}}{\overset{\text{O}}{\overset{\text{O}}{\overset{\text{O}}}{\overset{\text{O}}{\overset{\text{O}}{\overset{\text{O}}{\overset{\text{O}}{\overset{\text{O}}{\overset{\text{O}}{\overset{\text{O}}{\overset{\text{O}}}{\overset{\text{O}}{\overset{\text{O}}}{\overset{\text{O}}{\overset{\text{O}}{\overset{\text{O}}}{\overset{\text{O}}{\overset{\text{O}}{\overset{O}}{\overset{\text{O}}}{\overset{{O}}{\overset{O}{O$	Шщ	inely ghlan	Casc
	26	OR EQUIPMENT PARKED IN A MANNER WHICH VIOLATES APPLICABLE PARKING RULES OR REGULATIONS, OR OTHERWISE INTERFERES WITH EMERGENCY VEHICLE ACCESS.	σ Ω	000	Man 3 Hi	
	20.	PLANTS AS LISTED IN THE MAINE DEPARTMENT OF AGRICULTURE, CONSERVATION AND FORESTRY WEB SITE THAT ARE ACCEPTABLE FOR SOLAR FACILITIES.	096	\sim	14	
NG LEGEND PROPOSED			D D	ЦОЦ		
PROJECT PARCEL 2019 - EQUIPMENT PAD MDEP CLASSIFIED "WETLANDS NOT OF SPECIAL SIGNIFICANCE" UGU UNDERGROUND UTILITY		Ē	J O S			
(PRELIMINARY CLASSIFICATION) ————————————————————————————————————				Ш Ш		
SIGNIFICANT VERNAL POOL (SVP) - TREELINE NON-SIGNIFICANT VERNAL POOL (NSVP) - SOLAR ARRAY				₩.		
APPROXIMATE SHORELAND ZONE BOUNDARY			Joł	Num	ber:	
CRITICAL TERRESTRIAL HABITAT (CTH)			M	1500)	
UTILITY POLE TP23-A PAVEMENT - TEST PITS			Drawing No:			
TREELINE 2 FT CONTOURS			C-2			
NRCS SO	ILS B	OUNDARY FIRE STAND PIPE	Shee	t 3 oi	f 9	
				5		











