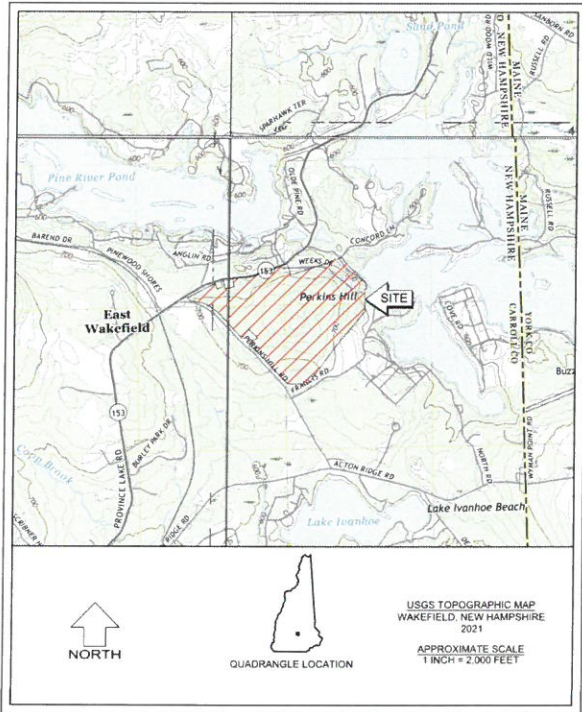


PROVINCE LAKE ROAD SOLAR

PROVINCE LAKE ROAD WAKEFIELD, NEW HAMPSHIRE

SITE ENGINEER
NOBIS GROUP - CONCORD, NH

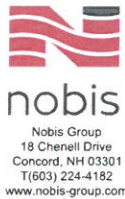
SURVEYOR
DOUCET SURVEY LLC - NEWMARKET, NH



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CS		COVER SHEET
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MARCH 8, 2024
REVISED MARCH 13, 2024



LEGEND

EXISTING	PROPOSED	
		SUBJECT PROPERTY LINE
		OTHER PROPERTY LINE
		SETBACKS
		EASEMENT
		STONE WALL
		RETAINING WALL
		EDGE OF WETLAND
		STREAM / RIVER
		TREE LINE
		CHAIN LINK FENCE
		GUARD RAIL (STEEL)
		GUARD RAIL (WOOD)
		CENTERLINE
		EDGE OF GRAVEL
		EDGE OF PAVEMENT
		MAJOR CONTOUR
		MINOR CONTOUR
		DRAIN LINE
		UNDER DRAIN
		SWALE FLOW DIRECTION
		SILT FENCE / WADDOLE
		OVERHEAD UTILITY WIRE
		UNDERGROUND ELECTRIC
		UNDERGROUND TELECOM
		ZONING BOUNDARY LINE

EXISTING	PROPOSED	
		DRAIN MANHOLE
		CATCH BASIN
		UTILITY POLE
		PAD MOUNTED TRANSFORMER
		SPOT GRADE
		CURB SPOT GRADE
		SIGN POST
		TREE
		CONCRETE
		GRAVEL
		RIP RAP
		WETLAND
		WETLAND IMPACT
		FLOW DIRECTION
		STONE CHECK DAM
		INLET PROTECTION
		SLOPE & DIRECTION
		TEST PIT LOCATION
		BORING LOCATION

GENERAL NOTES:

- EXISTING CONDITIONS, TOPOGRAPHICAL INFORMATION, NORTH ORIENTATION, NORTH ARROW, AND COORDINATE VALUES DEPICTED ON THESE DRAWINGS ARE BASED ON PLANS TITLED "EXISTING CONDITIONS PLAN PREPARED FOR NOBIS GROUP, (TAX MAP 92 LOT 34)", DATED OCTOBER 2, 2023, PROVIDED TO NOBIS GROUP BY DOUCETT SURVEY, LLC.
- THESE DRAWINGS AND ACCOMPANYING TEXT HAVE BEEN PREPARED FOR PROVINCE LAKE ROAD SOLAR, LLC, FOR REVIEW BY THE TOWN OF WAKEFIELD PLANNING BOARD, CODE ENFORCEMENT, GENERAL SERVICES, POLICE, AND FIRE DEPARTMENTS.
- THESE DRAWINGS SHOULD BE REVIEWED IN CONJUNCTION WITH THE ACCOMPANYING DESIGN REPORT TITLED "STORMWATER MANAGEMENT REPORT FOR PROVINCE LAKE ROAD SOLAR, PERKINS HILL ROAD, WAKEFIELD, NH" DATED FEBRUARY 15, 2024, PREPARED BY NOBIS GROUP.
- THE CONTRACTOR SHALL OBTAIN COVERAGE UNDER EPA NPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FOR CONSTRUCTION ACTIVITIES PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND IMPLEMENTING AN ENVIRONMENTAL PROTECTION AGENCY (EPA) STORM WATER POLLUTION PREVENTION PLAN PRIOR TO THE START OF CONSTRUCTION AND DURING CONSTRUCTION ON-SITE IN ACCORDANCE WITH THE EPA REGULATIONS UNDER THE CLEAN WATER ACT.
- THE PROJECT SHALL BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER AGR 3800 RELATIVE TO INVASIVE SPECIES.
- WILDLIFE-FRIENDLY EROSION CONTROL MESH, IF NEEDED, SHALL BE ECOMATting EM-400.
- ALL SOLAR ARRAY PANELS WILL BE INSTALLED IN ACCORDANCE WITH ENV-WQ 1511.05 TO PROMOTE SHEET FLOW. THE AREA BENEATH THE DRIP EDGE OF ALL PANELS WILL BE MONITORED DURING CONSTRUCTION ACTIVITIES. SIGNS OF EROSION WILL BE ADDRESSED IMMEDIATELY WITH THE PLACEMENT OF STONE, COMPOST MULCH, WOOD CHIPS OR EROSION CONTROL MATTING, AS DETAILED IN THESE SITE PLAN DRAWINGS.
- IN ACCORDANCE WITH RSA 485-A:17 TERRAIN ALTERATION, THIS SOLAR ENERGY PROJECT WILL REQUIRE AN ALTERATION OF TERRAIN PERMIT APPROVAL FROM THE NHDES. THE TOWN OF WAKEFIELD WILL RECEIVE COPIES OF THE APT PERMIT APPLICATION AND SITE PLAN DRAWINGS FOR REVIEW AND COMMENT. CONSTRUCTION WILL COMMENCE ONLY AFTER RECEIVING FINAL APPROVAL FROM BOTH NHDES AND TOWN OF WAKEFIELD PLANNING BOARD.
- THE PROJECT WILL OPERATE UNDER A "CARRY-IN CARRY-OUT" POLICY FOR SOLID WASTE DISPOSAL.

WILDLIFE PROTECTION NOTES:

- ALL OBSERVATIONS OF THREATENED OR ENDANGERED SPECIES SHALL BE REPORTED IMMEDIATELY TO THE NEW HAMPSHIRE FISH AND GAME DEPARTMENT NONGAME AND ENDANGERED WILDLIFE ENVIRONMENTAL REVIEW PROGRAM BY PHONE AT 603-271-2461 AND BY EMAIL AT NHFGREVIEW@WILDLIFE.NH.GOV. EMAIL SUBJECT LINE NHB23-1992, PROVINCE LAKE ROAD SOLAR, WILDLIFE SPECIES OBSERVATION.
- PHOTOGRAPHS OF THE OBSERVED SPECIES AND NEARBY ELEMENTS OF HABITAT OR AREAS OF LAND DISTURBANCE SHALL BE PROVIDED TO NHFG IN DIGITAL FORMAT AT THE ABOVE EMAIL ADDRESS FOR VERIFICATION AS FEASIBLE.
- IN THE EVENT A THREATENED OR ENDANGERED SPECIES IS OBSERVED ON THE PROJECT SITE DURING THE TERM OF THE PERMIT, THE SPECIES SHALL NOT BE DISTURBED, HANDLED, OR HARMED IN ANY WAY PRIOR TO CONSULTATION WITH NHFG AND IMPLEMENTATION OF CORRECTIVE ACTIONS RECOMMENDED BY NHFG. IF ANY, TO ASSURE THE PROJECT DOES NOT APPRECIABLY JEOPARDIZE THE CONTINUED EXISTENCE OF THREATENED AND ENDANGERED SPECIES AS DEFINED IN FIS 1002.04.
- THE NHFG, INCLUDING ITS EMPLOYEES AND AUTHORIZED AGENTS, SHALL HAVE ACCESS TO THE PROPERTY DURING THE TERM OF THE PERMIT.

CONSTRUCTION SEQUENCE:

- LAND SURVEYOR WILL CLEARLY IDENTIFY AND FLAG PROPOSED LIMITS OF CLEARING PRIOR TO COMMENCING CLEARING ACTIVITIES ON SITE.
- CONSTRUCT TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO ANY EARTH MOVING OPERATIONS. INSPECT EROSION AND SEDIMENT CONTROL MEASURES WEEKLY AND WITHIN 24 HOURS OF ANY SIGNIFICANT RAINFALL EVENT (1/2" OF RAIN OR MORE). PERFORM ANY NEEDED MAINTENANCE AND STABILIZATION AS NEEDED.
- DISTURBANCES OF AREAS SHALL BE MINIMIZED. TEMPORARY STABILIZATION SHALL BE APPLIED WITHIN 72 HOURS OR PRIOR TO A RAIN EVENT OF 0.5" WITHIN A 24-HOUR PERIOD, WHICHEVER IS SOONER. ALL AREAS SHALL BE STABILIZED WITH SEED MULCH AND TACKIFIER WITHIN 72 HOURS OF ACHIEVING FINAL GRADE AND PRIOR TO THE END OF THE GROWING SEASON. MULCH/TACKIFIER SHALL BE MAINTAINED IN ACCORDANCE WITH ENV-WQ 1506.01 THROUGHOUT ALL CONSTRUCTION PHASES. THE LENGTH OF EXPOSURE OF UNSTABILIZED SOIL SHALL BE LIMITED TO 45 DAYS OR LESS.
- PLACE, GRADE, AND STABILIZE DISTURBED AREAS WITH TEMPORARY SEEDING AND MULCHING. SEED AND MULCH MUST BE APPLIED UPON FINAL GRADING AND REMAIN IN PLACE DURING INSTALLATIONS OF VERTICAL SUPPORTS AND ARRAYS.
- PERFORM CLEARING TO LIMITS SHOWN ON SITE PLAN.
- GRUB AREAS FOR ROAD AND STORMWATER/SEDIMENT PONDS.
- CONSTRUCT GRAVEL ROAD, STORMWATER CONVEYANCE SWALE, AND STORMWATER/SEDIMENT PONDS. STABILIZE ROAD WITH GRAVEL AND CONVEYANCE SWALE(S) AND STORMWATER/SEDIMENT PONDS WITH HYDROSEED AND EROSION CONTROL MATTING.
- GRUB REMAINING AREAS.
- STABILIZE SOLAR ARRAY AREA WITH SEED AND HAY MULCH.
- CONDUCT UNDERGROUND UTILITY CONDUIT INSTALLATIONS, BACKFILL AND COMPACT.
- INSTALL SOLAR ARRAY FOUNDATIONS, VERTICAL SUPPORTS, RACKING SYSTEMS, PHOTOVOLTAIC ARRAYS AND ELECTRICAL COMPONENTS ACCORDING TO THE SITE PLAN AND ASSOCIATED DETAILS.
- ALL CUT AND FILL SLOPES SHALL BE STABILIZED, LOAMED, SEEDED, AND MULCHED. STABILIZE REMAINING DISTURBED AREAS WITH SEED AND MULCH. TOUCH-UP AREAS DISTURBED BY SOLAR ARRAY INSTALLATION ACTIVITIES.
- REMOVE TEMPORARY EROSION CONTROL MEASURES AND PROPERLY DISPOSE OF FOLLOWING CONSTRUCTION AND ONCE FULL GROUND COVER HAS BEEN ESTABLISHED.
- AS-BUILT PLANS SHALL BE DELIVERED TO THE BUILDING DEPARTMENT PRIOR TO A CERTIFICATE OF OCCUPANCY BEING ISSUED.

WINTER CONSTRUCTION NOTES:

- ALL PROPOSED POST-DEVELOPMENT VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1 AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE ELSEWHERE. MULCH REMAINING IN THE SPRING SHALL BE REMOVED AND REPLACED AT RATE OF 2 TONS PER ACRE. THE PLACEMENT OF EROSION CONTROL BLANKETS OR MULCH AND TACKIFIER SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND.
- ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.
- AFTER OCTOBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES SHALL BE PROTECTED WITH A MINIMUM OF 3-INCHES OF CRUSHED GRAVEL PER NHDOT ITEM 304.3 OR IF CONSTRUCTION IS TO CONTINUE THROUGH THE WINTER SEASON, BE CLEARED OF ANY ACCUMULATED SNOW AFTER EACH STORM EVENT.

PROJECT AREA TABULATION						
	TOTAL PROJECT AREA	AREA OF CLEARING	AREA OF CLEARING WITH NO GRUBBING	AREA OF STORMWATER POND(S) & ROAD	TOTAL AREA OF SITE GRADING	AREA OF SOLAR ARRAY
MAP 92 LOT 34	19.8 ACRES	19.8 ACRES	2.0 ACRES	1.6 ACRES	5.9 ACRES	10.5 ACRES

EROSION CONTROL NOTES:

PERIMETER CONTROLS SHALL BE INSTALLED PRIOR TO EARTH MOVING OPERATIONS, AS SHOWN ON SHEET C-4. TWO ROWS OF SILT FENCE SHALL BE PROVIDED WHEN INSTALLATION OCCURS ADJACENT TO WETLANDS.

ALL SWALES & PONDS SHALL BE STABILIZED PRIOR TO DIRECTING RUNOFF INTO THEM.

WELDED PLASTICS OR "BIODEGRADABLE PLASTIC" NETTING OR THREAD (E.G. POLYPROPYLENE) IS PROHIBITED IN EROSION CONTROL MATTING AT THE SITE. CONTRACTOR SHALL UTILIZE EROSION CONTROL BERMS, WHITE FILTREX DEGRADABLE WOVEN SILT SOCK AND "WILDLIFE FRIENDLY" OPTIONS SUCH AS ECO DEPOT'S ECOMATting 400 (EM-400) OR NH FISH AND GAME APPROVED EQUAL FOR EROSION CONTROL MATERIALS.

SCHEDULE OF WORK
THIS WORK IS ANTICIPATED TO BEGIN IN FALL 2024 WITH A FINAL COMPLETION DATE IN SUMMER 2025. NO WINTER EARTH DISTURBANCE IS EXPECTED FOR THIS PROJECT. SHOULD WINTER WORK BE REQUIRED, THIS PLAN AND THE ACCOMPANYING STORM WATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE MODIFIED ACCORDINGLY.

ADEQUATE MEASURES SHOULD BE TAKEN TO MINIMIZE AIR BORNE DUST PARTICLES ARISING FROM SOIL DISTURBANCE AND CONSTRUCTION.

* DISTURBANCE OF AREAS SHALL BE MINIMIZED, ENSURING THAT ALL NHDES STORMWATER CRITERIA ARE INCORPORATED, INCLUDING PERIMETER EROSION CONTROLS AND STABILIZED STORMWATER DETENTION PONDS. IN ADDITION, THE CONSTRUCTION SEQUENCE WILL BE FOLLOWED AS DESCRIBED IN THESE SITE PLAN DRAWINGS.

* EROSION CONTROL FEATURES SHALL BE INCORPORATED INTO THE PROJECT PRIOR TO ANY OTHER DISTURBANCE OR CONSTRUCTION.

* TEMPORARY STABILIZATION SHALL BE APPLIED WITHIN 72 HOURS OF OBTAINING FINISH GRADE, OR PRIOR TO A RAIN EVENT OF 0.25" WITHIN A 24-HOUR PERIOD, WHICHEVER IS SOONER.

* TEMPORARY STABILIZATION SHALL BE APPLIED WITHIN 72 HOURS OF OBTAINING FINISH GRADE, OR PRIOR TO A RAIN EVENT OF 0.25" WITHIN A 24-HOUR PERIOD, WHICHEVER IS SOONER.

* ALL AREAS SHALL BE STABILIZED WITH SEED MULCH AND TACKIFIER WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE AND PRIOR TO THE END OF THE GROWING SEASON.

* WHEN EROSION IS LIKELY TO BE A PROBLEM, GRUBBING OPERATION SHALL BE SCHEDULED AND PERFORMED SUCH THAT GRADING OPERATION AND PERMANENT EROSION CONTROL FEATURES CAN FOLLOW IMMEDIATELY THEREAFTER.

* AS WORK PROGRESSES, PATCH SEEDING AND MULCHING SHALL BE DONE AS REQUIRED ON AREAS PREVIOUSLY TREATED TO MAINTAIN OR ESTABLISH PROTECTIVE COVER.

* WHEN SEDIMENT CONTAINMENT DEVICES REACH 33% CAPACITY, ALL ACCUMULATED SEDIMENTS AND DEBRIS MUST BE REMOVED TO RESTORE THE BASIN TO ITS DESIGN CONFIGURATION.

EROSION CONTROL IMPLEMENTATION SCHEDULE

THE FOLLOWING GENERAL SCHEDULE IDENTIFIES THE PROPOSED SOIL EROSION AND SEDIMENT CONTROL AND STORM WATER MANAGEMENT MEASURES THAT ARE TO BE IMPLEMENTED PRIOR TO AND DURING CONSTRUCTION:

- * PERFORM LIMITED GRUBBING, STRIPPING AND SITE GRADING ONLY AS NEEDED TO COMPLETE IMMEDIATE WORK GOALS.
- * BLOCK STORM WATER FLOW AS NECESSARY TO INSTALL ALL STORM WATER STRUCTURES IN THE DRY.
- * INSTALL PERMANENT STORM DRAIN SYSTEM.
- * INSTALL TEMPORARY SOIL STABILIZATION MEASURE INCLUDING SEED, MULCH, FERTILIZER, MATTING, ETC.
- * REDIRECT FLOWS INTO FINISHED STRUCTURES PRIOR TO FILL OPERATIONS.
- * PLACE HUMUS AND CONDUCT PERMANENT SEEDING AND MULCHING OF ALL DISTURBED GROUND. SEED AND MULCH MUST BE APPLIED UPON FINAL GRADING AND REMAIN IN PLACE DURING INSTALLATIONS OF VERTICAL SUPPORTS AND ARRAYS.

TEMPORARY STABILIZATION

EROSION CONTROL MEASURES SHALL BE IMPLEMENTED, AS WRITTEN HEREIN AND AS DEPICTED ON THE ACCOMPANYING PLAN, FROM THE COMMENCEMENT OF CONSTRUCTION ACTIVITY UNTIL FINAL STABILIZATION IS COMPLETE.

TEMPORARY STABILIZATION MEASURES MUST REMAIN IN PLACE THROUGH ALL CONSTRUCTION PHASES, UNTIL THE SITE IS PERMANENTLY STABILIZED.

TEMPORARY GRADING: TEMPORARY GRADING DURING CONSTRUCTION SHOULD BE PERFORMED IN SUCH A MANNER TO FACILITATE MAXIMUM INFILTRATION OF STORMWATER AND MINIMIZE OR ELIMINATE STORMWATER RUNOFF FROM THE SITE.

MULCH: MULCHING WITH LOOSE HAY OR STRAW, AT A RATE OF 2 TONS PER ACRE, SHALL BE DONE IMMEDIATELY AFTER EACH AREA HAS BEEN FINAL GRADED. WHEN SEED FOR EROSION CONTROL IS SOWN PRIOR TO PLACING THE MULCH, THE MULCH SHOULD BE PLACED ON THE SEEDING AREAS WITHIN 72 HOURS AFTER SEEDING.

TACKIFIER: PLACEMENT OF SOIL TACKIFIER HAS PROVEN TO BE AN EFFECTIVE METHOD OF PREVENTING SOIL AND ADHERING MULCH IN PLACE. THE PLACEMENT OF A SOIL TACKIFIER SHOULD BE PERFORMED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS AND SHOULD BE REAPPLIED AS NECESSARY TO CONTROL AIR BORN DUST AND SOIL, AND MULCH LOSS UNTIL PERMANENT VEGETATION IS ESTABLISHED.

ROAD CLEANING: THE CONTRACTOR SHALL SWEEP ROADS DAILY, OR AS NEEDED TO MAINTAIN CLEAN PAVED SURFACES AT ALL CONSTRUCTION ACCESS/EGRESS POINTS.

DUST CONTROL: THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES AS NEEDED TO PREVENT AIRBORNE DUST PARTICLES FROM LEAVING THE SITE. DUST CONTROL MEASURES SHALL CONSIST OF USE OF A WATER TRUCK EQUIPPED WITH A SPRAY-BAR THAT DISSIPATES THE WATER EVENLY OVER THE SURFACE.

PERMANENT STABILIZATION: GRASS, TREES, SHRUBS AND MULCHED PLANTING BEDS WILL BE CONSTRUCTED AND MAINTAINED IN LOCATIONS AS SHOWN ON THE DRAWINGS TO STABILIZE AREAS NOT WITHIN THE PARKING LOT/BUILDING FOOTPRINT. THE CONTRACTOR WILL BE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROL FOR ONE YEAR AFTER COMPLETION.

AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:

1. BASE COARSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED,
2. A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED,
3. A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIP RAP HAS BEEN INSTALLED,
4. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

ALL ROADWAYS/PARKING AREAS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.

STORMWATER DETENTION PONDS:

DO NOT TRAFFIC EXPOSED SOIL SURFACES WITH CONSTRUCTION EQUIPMENT. IF FEASIBLE, PERFORM EXCAVATIONS WITH EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE DETENTION POND.

* AFTER THE DETENTION PONDS ARE EXCAVATED TO FINAL DESIGN ELEVATION, THE FLOOR SHOULD BE DEEPLY TILLED WITH A ROTARY TILLER OR DISC HARROW TO RESTORE THE ORIGINAL INFILTRATION RATES, FOLLOWED BY A PASS WITH A LEVELING DRAG.

* DO NOT PLACE DETENTION PONDS INTO SERVICE UNTIL THE CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED AS DESCRIBED IN THESE NOTES.

EXCAVATION DEWATERING:

SHOULD EXCAVATION DEWATERING BE REQUIRED, THE CONTRACTOR MUST INSURE THAT ANY EXCAVATION DEWATERING DISCHARGES ARE NOT CONTAMINATED. NOTE: THE WATER IS CONSIDERED UNCONTAMINATED IF THERE IS NO GROUNDWATER CONTAMINATION WITHIN 1,000 FEET OF THE DISCHARGE.

THE CONTRACTOR MUST TREAT ANY UNCONTAMINATED EXCAVATION DEWATERING AS NECESSARY TO REMOVE SUSPENDED SOLIDS AND TURBIDITY DURING CONSTRUCTION. THE DISCHARGES MUST BE SAMPLED AT A LOCATION PRIOR TO MIXING WITH STORM WATER OR STREAM FLOW AT LEAST ONCE PER WEEK DURING WEEKS WHEN DISCHARGES OCCUR. THE SAMPLES MUST BE ANALYZED FOR TOTAL SUSPENDED SOLIDS (TSS) AND MUST MEET MONTHLY AVERAGE AND MAXIMUM DAILY TSS LIMITATIONS OF 50 MILLIGRAMS PER LITER (MGL), RESPECTIVELY.

STORMWATER POLLUTION PREVENTION PLAN:

THE PROJECT IS SUBJECT TO THE REQUIREMENTS OF THE USEPA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION PERMIT, WHICH INCLUDES A WRITTEN STORM WATER POLLUTION PREVENTION (SWPPP) PLAN FOR CONSTRUCTION. THE SWPPP PLAN SHOWN OUTLINE DETAILED SPECIFICATIONS FOR IMPLEMENTATION, INSPECTION, AND MAINTENANCE OF ALL EROSION CONTROL MEASURES. THE CONTRACTOR HAS SOLE RESPONSIBILITY FOR COMPLIANCE WITH THE EROSION AND SEDIMENT CONTROL PLAN. SHALL BE RESPONSIBLE FOR AMENDING THE SWPPP ACCORDINGLY, AND SHALL BE RESPONSIBLE FOR ANY PENALTIES RESULTING FROM LACK OF COMPLIANCE.

SPECIFICATIONS FOR TEMPORARY AND PERMANENT SEEDING:

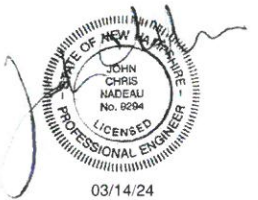
GRASS SEED MIXES SHALL CONSIST OF THE MIXTURES AS DETAILED IN THE FOLLOWING TABLES, WITH 99% PURITY.

EROSION CONTROL SEED MIX		
SEED	BY % MASS	% GERMINATION (MIN.)
WINTER RYE 80 (MIN.)	80 (MIN.)	85
RED FESCUE (CREEPING) 4 (MIN.)	4 (MIN.)	80
PERENNIAL RYE GRASS 3 (MIN.)	3 (MIN.)	90
RED CLOVER 3 (MIN.)	3 (MIN.)	90
OTHER CROP GRASS 0.5 (MAX.)	0.5 (MAX.)	
NOXIOUS WEED SEED 0.5 (MAX.)	0.5 (MAX.)	
INERT MATTER 1.0 (MAX.)	1.0 (MAX.)	

PERMANENT SEED MIX		
SEED	BY % MASS	% GERMINATION (MIN.)
RED FESCUE (CREEPING) 50	50	85
KENTUCKY BLUE 25	25	85
PERENNIAL RYE GRASS 10	10	90
RED TOP 10	10	85
LANOLINO CLOVER 5	5	85



Nobis Group®
18 Chenell Drive
Concord, NH 03301
T(603) 224-4182
www.nobis-group.com



NOT ISSUED
FOR
CONSTRUCTION

PROVINCE LAKE
ROAD SOLAR

PROVINCE LAKE ROAD
WAKEFIELD, NEW HAMPSHIRE

TAX MAP:
MAP 92 / LOT 34

OWNER(S):
SAVANNAH WOOD LLC
PO BOX 1340
GRANTHAM, NH 03753

APPLICANT:
PROVINCE LAKE ROAD SOLAR, LLC,
4445 EASTGATE MALL RD. STE 200
SAN DIEGO, CA 92121

03/15/24	TOWN COMMENTS
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NO.	DATE	DESCRIPTION
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SCALE:
AS NOTED

DATE:	MARCH 2024
NOBIS PROJECT NO.	100666.000
DRAWN BY:	GWS
CHECKED BY:	JCN
CAD DRAWING FILE:	100666.000-G-1-NOTES & LEGEND.dwg

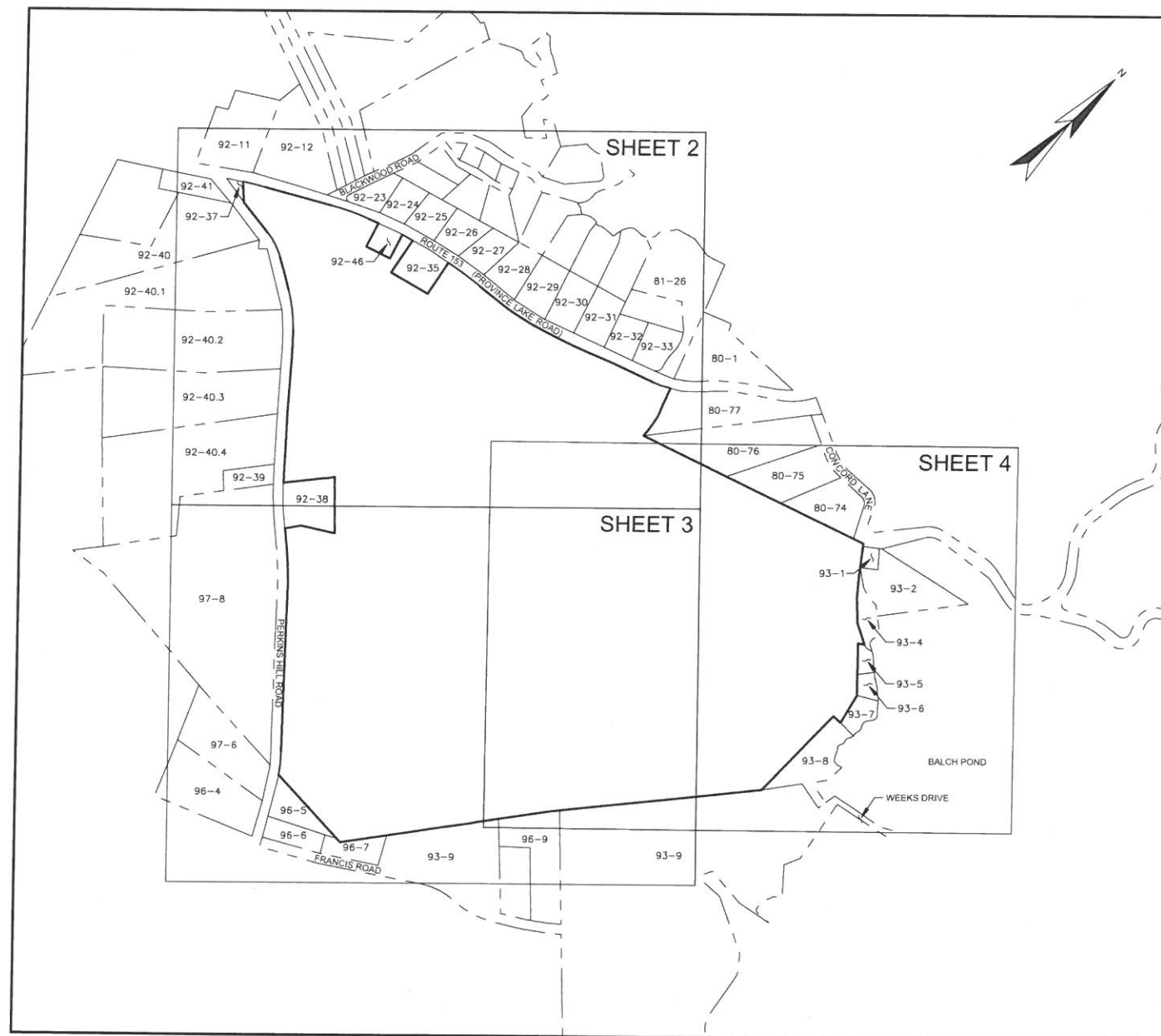
SHEET TITLE

GENERAL
NOTES AND
LEGEND

SHEET
G-1

1. REFERENCE: TAX MAP 92, LOT 34
ROUTE 152 (PROVINCE LAKE ROAD) & PERKINS HILL ROAD
WAKEFIELD, NEW HAMPSHIRE
2. TOTAL PARCEL AREA: 6,258,222 SQ. FT. OR 143.67 AC.
3. OWNER OF RECORD:
SAVANNAH WOOD LLC
PO BOX 1340
GRANTHAM, NH 03753
C.C.R.D. BOOK 3315, PAGE 539
4. FIELD SURVEY PERFORMED BY J.H.H. & H.J.R. (DOUCET SURVEY) DURING AUGUST & SEPTEMBER 2023 USING A TOTAL STATION AND A SURVEY GRADE GPS WITH A DATA COLLECTOR. TRAVERSE ADJUSTMENT BASED ON LEAST SQUARE ANALYSIS.
5. HORIZONTAL DATUM BASED ON NAD83(2011) NEW HAMPSHIRE STATE PLANE COORDINATE ZONE (2800) DERIVED FROM REDUNDANT GPS OBSERVATIONS UTILIZING THE KEYNET GPS VRS NETWORK.
6. JURISDICTIONAL WETLANDS WERE DELINEATED BY CYNTHIA M BALCIUS CWS #61, CSS & CPESC IN AUGUST, 2023 UTILIZING THE FOLLOWING STANDARDS:
 - A. UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE. 2018. FIELD INDICATORS OF HYDRIC SOILS IN THE UNITED STATES, VERSION 8.2. L.W. VASILAS, G.W. HURT, AND J.F. BERKOWITZ (EDS.). USDA, NRCS, IN COOPERATION WITH THE NATIONAL TECHNICAL COORDINATING COMMISSION FOR HYDRIC SOILS.
 - B. FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND. VERSION 4. APRIL 2019. NEW ENGLAND HYDRIC SOILS TECHNICAL COMMITTEE.
 - C. U.S. ARMY CORPS OF ENGINEERS 2020: NATIONAL WETLAND PLANT LIST, VERSION 3.5 ([HTTP://WETLAND_PLANTS.USACE.ARMY.MIL](http://wetland.plants.usace.army.mil)). U.S. ARMY CORPS OF ENGINEERS, ENGINEER RESEARCH AND DEVELOPMENT CENTER, COLD REGIONS RESEARCH AND ENGINEERING LABORATORY, HANOVER, NH.
 - D. THE NATIONAL WETLAND PLANT LIST: 2016 WETLAND RATINGS. LICHVAR, R.W., D.B. BANKS, W.N. KIRCHNER, AND N.C. MELVIN. 2016. PHYTONEURON 2016-30: 1-17. PUBLISHED THROUGH THE U.S. ARMY CORPS OF ENGINEERS.
7. CORPS OF ENGINEERS WETLANDS DELINEATION MANUAL. JANUARY 1987. WETLANDS RESEARCH PROGRAM TECHNICAL REPORT Y-87-1.
8. REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHEASTAL AND NORTHEAST REGION. JANUARY 2012, VERSION 2. U.S. ARMY CORPS OF ENGINEERS. ENVIRONMENTAL LABORATORY ERDC/EL TR-12-1.
9. CLASSIFICATION OF WETLANDS AND DEEPWATER HABITATS OF THE UNITED STATES. DECEMBER 1979. L. COWARDIN, V. CARTER, F. GOLETT, AND E. LAROE. US DEPARTMENT OF THE INTERIOR. FISH AND WILDLIFE SERVICE. FWS/OBS-79/31.
10. FLOOD HAZARD ZONE "X", PER FIRM MAPS #33003C0760D & #33003C0780D, DATED 3/19/13.
11. LIDAR DATA AS SHOWN HEREON IS BASED ON 2015 CONNECTICUT RIVER BARE EARTH DEM DOWNLOADED FROM GRANT LIDAR DISTRIBUTION SITE. [HTTPS://LIDAR.UNH.EDU/MAP/](https://lidar.unh.edu/map/) SAID LIDAR DATA SHOULD NOT USED BE USED FOR DESIGN UNTIL FIELD VERIFIED.
12. THE INTENT OF THIS PLAN IS TO SHOW THE LOCATION OF BOUNDARIES IN ACCORDANCE WITH AND IN RELATION TO THE CURRENT LEGAL DESCRIPTION, AND IS NOT AN ATTEMPT TO DEFINE UNWRITTEN RIGHTS, DETERMINE THE EXTENT OF OWNERSHIP, OR DEFINE THE LIMITS OF TITLE.
13. DUE TO THE COMPLEXITY OF RESEARCHING ROAD RECORDS AS A RESULT OF INCOMPLETE, UNORGANIZED, INCONCLUSIVE, OBLITERATED, OR LOST DOCUMENTS, THERE IS AN INHERENT UNCERTAINTY INVOLVED WHEN ATTEMPTING TO DETERMINE THE LOCATION AND WIDTH OF A ROADWAY RIGHT OF WAY ACCORDING TO ANY HIGHWAY DEPT. RIGHT OF WAY SOURCE RECORDS. BOOK 5 PAGE 7, PROVINCE LAKE ROAD IS A 3-ROD RIGHT OF WAY FROM A LAYOUT DATED JUNE 12, 1867 AND PERKINS HILL ROAD IS A 3-ROD RIGHT OF WAY FROM A LAYOUT DATED MAY 13, 1872.
14. FINAL MONUMENTATION MAY BE DIFFERENT THAN THE PROPOSED MONUMENTATION SHOWN HEREON, DUE TO THE FACT THAT SITE CONDITIONS WILL DICTATE THE ACTUAL LOCATION AND TYPE OF MONUMENTS INSTALLED IN THE FIELD. PLEASE REFER TO EITHER THE "MONUMENTATION LOCATION PLAN" TO BE RECORDED OR CONTACT DOUCET SURVEY, FOR CLARIFICATION OF MONUMENTS SET. (A RECORDED PLAN WILL BE PRODUCED AT THE DISCRETION OF DOUCET SURVEY).
15. TAX MAP 92, LOT 34 IS EITHER SUBJECT TO, OR IN BENEFIT OF, BUT NOT LIMITED TO, THE FOLLOWING EASEMENTS/RIGHTS OF RECORD:
 - A. SUPERIOR COURT ORDER ON COMPLAINT TO QUIET TITLE, SEE C.C.R.D. BOOK 3515 PAGE 220.
 - B. SUBJECT TO A RIGHT OF WAY, SEE C.C.R.D. BOOK 262 PAGE 470.
 - C. SUBJECT TO THE RIGHT TO PASS AND REPASS, SEE C.C.R.D. BOOK 218 PAGE 471.
 - D. SUBJECT TO A 10 YEAR DISCRETIONARY EASEMENT TO THE TOWN OF WAKEFIELD IN 1977, SEE C.C.R.D. BOOK 669 PAGE 59.
16. CEMETERY SUBJECT TO N.H.R.S.A. 289:3, III NEW CONSTRUCTION, EXCAVATION, OR BUILDING IN THE AREA OF A KNOWN BURIAL SITE SHALL COMPLY WITH LOCAL ZONING. IN ABSENCE OF SUCH REGULATIONS NO NEW CONSTRUCTION, EXCAVATION, OR BUILDING SHALL BE CONDUCTED WITHIN 25' OF THE BOUNDARY OF THE BURIAL GROUND.
17. INTERIOR TRAILS, STONE WALLS, ETC., ARE NOT SHOWN HEREON.

3. "PLAN SHOWING A BOUNDARY SURVEY FOR NORTH COUNTRY LAND, INC. OF PROPERTY LOCATED ON PROVINCE LAKE ROAD & PERKINS HILL ROAD IN WAKEFIELD, NEW HAMPSHIRE" DATED MARCH 22, 2016 BY CORNER POST LAND SURVEYING, INC. IN SPRINGVALE, ME. (NOT RECORDED)
4. "THE SUBDIVISION OF LAND OF ANDREW & MABEL RIVERS IN WAKEFIELD, N.H. FOR CHARLES B. WILLS" DATED SEPTEMBER 1978 BY GREAT EAST LAND SURVEY CO. IN SANBORNVILLE, NH. (CARROLL COUNTY REGISTRY OF DEEDS - PLAN 44--84)
5. "PLAN OF LAND OF ERNEST & ANNE MAXFIELD, BALCH Pond, WAKEFIELD, N.H." DATED JUNE 1999 BY JOHN R. KNIGHT L.L.S. IN BROOKFIELD, NH. (CARROLL COUNTY REGISTRY OF DEEDS - PLAN 136-17)
6. "BOUNDARY LINE ADJUSTMENT PLAN PREPARED FOR THE STONE RIDGE TRUST AND ROBERT S. BURGE, WEEKS DRIVE, WAKEFIELD, CARROLL COUNTY, NEW HAMPSHIRE" DATED JULY 2014 BY FOX SURVEY COMPANY IN SANBORNVILLE, NH. (CARROLL COUNTY REGISTRY OF DEEDS - PLAN 233-76)
7. "PLAN SHOWING A LOT LINE ADJUSTMENT FOR JOSEPH W. MORESHI AND NORTH COUNTRY LAND, INC. OF PROPERTY LOCATED ON PERKINS HILL ROAD IN WAKEFIELD, NEW HAMPSHIRE" DATED DECEMBER 7, 2015 BY CORNER POST LAND SURVEYING, INC. IN SPRINGVALE, ME. (CARROLL COUNTY REGISTRY OF DEEDS - PLAN 235-72)
8. "A PLAN OF LAND IN WAKEFIELD, N.H. OF PERCY C. AND LILLIAN A. PETERSON" DATED AUGUST 1970, SURVEYED BY DENIS F. RAFFERTY, JR. OF GREAT EAST LAND SURVEY CO. (CARROLL COUNTY REGISTRY OF DEEDS - PLAN 15--88)
9. "SURVEY OF PROPERTY OF ANDREW L. RIVERS, WAKEFIELD, N.H." DATED OCT. 1969 AND SEPT. 1970 BY STEPHEN H. BOOMER, SURVEYOR. (CARROLL COUNTY REGISTRY OF DEEDS - PLAN 18-25)
10. "BOUNDARY PLAN FOR DAIL TOULOUSE, TAX MAP 92, LOT 36, PROVINCE LAKE ROAD, ROUTE 153, WAKEFIELD, N.H." DATED MARCH 16, 2009 BY MOTT SURVEY COMPANY, LLC IN MILTON, N.H. (CARROLL COUNTY REGISTRY OF DEEDS - PLAN 223-71)
11. "SURVEY OF J. PERREAULT COTTAGES, BOLCH Pond, WAKEFIELD, N.H." DATED AUG. 1970 BY STEPHEN H. BOOMER, SURVEYOR. (TOWN OF WAKEFIELD, NH)
12. "SURVEY OF JOSEPH E. PERREAULT LOT, WAKEFIELD, N.H." DATED AUG.1970 (REVISED AUG. 1997 BY STEPHEN H. BOOMER, SURVEYOR. (TOWN OF WAKEFIELD, NH)
13. "SURVEY OF LAND OF THOMAS REALTY TRUST, ROBERT F. & JEAN C. THOMAS, TRUSTEES, PERREAULT ROAD, WAKEFIELD, NH" DATED JUNE 1995 BY GREAT EAST LAND SURVEY CO. IN SANBORNVILLE, NH. (TOWN OF WAKEFIELD, NH)
14. "PLAN OF LOT (MAP 93--LOT 4) FOR JOHN A. & RUTH P. FRITZ, EAST WAKEFIELD, N.H." DATED SEPTEMBER 1988 BY FRANK EMERY, ENGINEERS SURVEYORS. (TOWN OF WAKEFIELD, NH)



KEY MAP
SCALE: 1" = 400'

TAX MAP 80, LOT 77
BARBARA NOVAK
2250 PROVINCE LAKE ROAD
EAST WAKEFIELD, NH 03830
C.R.D. BOO 3669, PAGE 801

TAX MAP 80, LOT 76
STEVEN P. & PAULA DOYLE
PO BOX 536
EAST WAKEFIELD NH, 03830
C.R.D. BOO 2815, PAGE 207

TAX MAP 80, LOT 75
KIM R. & HELEN A. VENDO
PO BOX 536
EAST WAKEFIELD, NH 03872
C.R.D. BOO 2060, PAGE 608

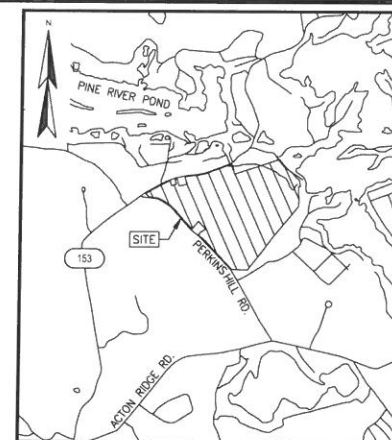
TAX MAP 80, LOT 74
RYAN A. BOSCH
64 CONCORD LAKE
EAST WAKEFIELD, NH 03830
C.R.D. BOO 3249, PAGE 735

TAX MAP 93, LOT 1
MAUREEN A. MCCARTHY
86 CONCORD LAKE
EAST WAKEFIELD, NH 03830
C.R.D. BOO 1480, PAGE 493

TAX MAP 93, LOT 7
VALLEE FAMILY REVOCABLE TRUST
PO BOX 441
EAST WAKEFIELD, NH 03830
C.C.R.D. BOOK 2982, PAGE 643

TAX MAP 96, LOT 5
NEIL K. & LYNN M. DAVIS
321 PERKINS HILL ROAD
EAST WAKEFIELD, NH 03830
C.C.R.D. BOOK 3218, PAGE 188

TAX MAP 92, LOT 35
LIAM JOSEPH BENTON
2110 PROVINCE LAKE ROAD
EAST WAKEFIELD, NH 03830
C.C.R.D. BOOK 3497 PAGE 138



LOCATION MAP (n.t.s.)

EXISTING CONDITIONS PLAN
FOR
NOBIS GROUP
OF
TAX MAP 92, LOT 34
ROUTE 153 (PROVINCE LAKE ROAD)
& PERKINS HILL ROAD
WAKEFIELD, NEW HAMPSHIRE

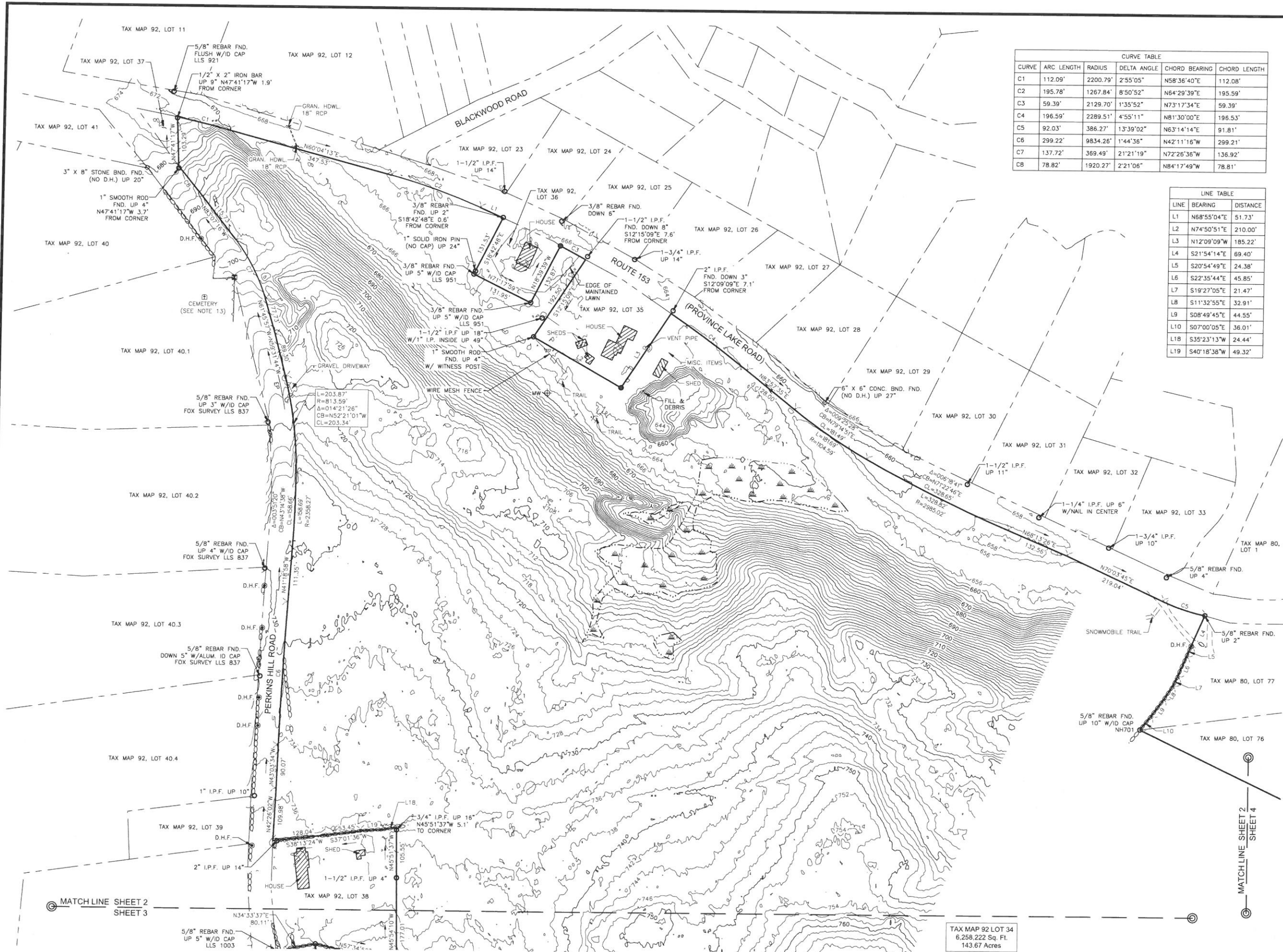
		THIS DRAWING IS NOT FOR RECORDING	
NO.	DATE	DESCRIPTION	BY

DRAWN BY: W.D.C. / C.P.M.	DATE: DECEMBER 5, 2023
CHECKED BY: S.V.M.	DRAWING NO. 8054A
JOB NO. 8054	SHEET 1 OF 4



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FILE NAME: \\PROJECTS\B04 - CONVEYANCE\DATA\2022-12-05\2022-12-05 SHEDS\B04A.dwg
DATE: 2024-10-01 10:00:00
DRAWN BY: S.V.M.
CHECKED BY: S.V.M.
DATE: 2024-10-01 10:00:00
DRAWING NO: 8054A
SHEET: 2 OF 4



CURVE TABLE					
CURVE	ARC LENGTH	RADIUS	DELTA ANGLE	CHORD BEARING	CHORD LENGTH
C1	112.09'	2200.79'	2°55'05"	N58°36'40"E	112.08'
C2	195.78'	1267.84'	8°50'52"	N64°29'39"E	195.59'
C3	59.39'	2129.70'	1°35'52"	N73°17'34"E	59.39'
C4	196.59'	2289.51'	4°55'11"	N81°30'00"E	196.53'
C5	92.03'	386.27'	1°33'02"	N63°14'14"E	91.81'
C6	299.22'	9834.26'	1°44'36"	N42°11'16"W	299.21'
C7	137.72'	369.49'	2°21'19"	N72°26'36"W	136.92'
C8	78.82'	1920.27'	2°21'06"	N84°17'49"W	78.81'

LINE TABLE		
LINE	BEARING	DISTANCE
L1	N68°55'04"E	51.73'
L2	N74°50'51"E	210.00'
L3	N12°09'09"W	185.22'
L4	S21°54'14"E	69.40'
L5	S20°54'49"E	24.38'
L6	S22°35'44"E	45.85'
L7	S19°27'05"E	21.47'
L8	S11°32'55"E	32.91'
L9	S08°49'45"E	44.55'
L10	S07°00'05"E	36.01'
L18	S35°23'13"W	24.44'
L19	S40°18'38"W	49.32'

- LEGEND**
- EXISTING LOT LINE
 - APPROXIMATE ABUTTERS LOT LINE
 - LIDAR MAJOR CONTOUR LINE (SEE NOTE 8)
 - LIDAR MINOR CONTOUR LINE (SEE NOTE 8)
 - STONE WALL
 - RETAINING WALL
 - TREE LINE
 - FEMA FLOOD LINE
 - EDGE OF DELINEATED WETLAND
 - WETLAND AREA
 - BOUND FOUND (BND. FND.)
 - DRILL HOLE FOUND (D.H.F.)
 - PIPE/ROD FOUND
 - MAG NAIL SET
 - 5/8" REBAR W/ID CAP TO BE SET
 - FENCE POST
 - SQUARE POST
 - CONIFEROUS TREE 10" DIA. OR GREATER
 - DECIDUOUS TREE 10" DIA. OR GREATER
 - TREE STUMP
 - MONITORING WELL LOCATION
 - ALUM.
 - BND. FND.
 - BW
 - CONC.
 - C.P.F.
 - D.H.
 - EP
 - GRAN.
 - I.P.F.
 - M.N.S.
 - RCP
 - RET. WALL
 - S.S.F.
 - ALUMINUM BOUND FOUND
 - BARBED WIRE
 - CONCRETE
 - COPPER PIPE FOUND
 - DRILL HOLE
 - EDGE OF PAVEMENT
 - GRANITE
 - IRON PIPE FOUND
 - MAG NAIL SET
 - REINFORCED CONCRETE PIPE
 - RETAINING WALL
 - STEEL STAKE FOUND



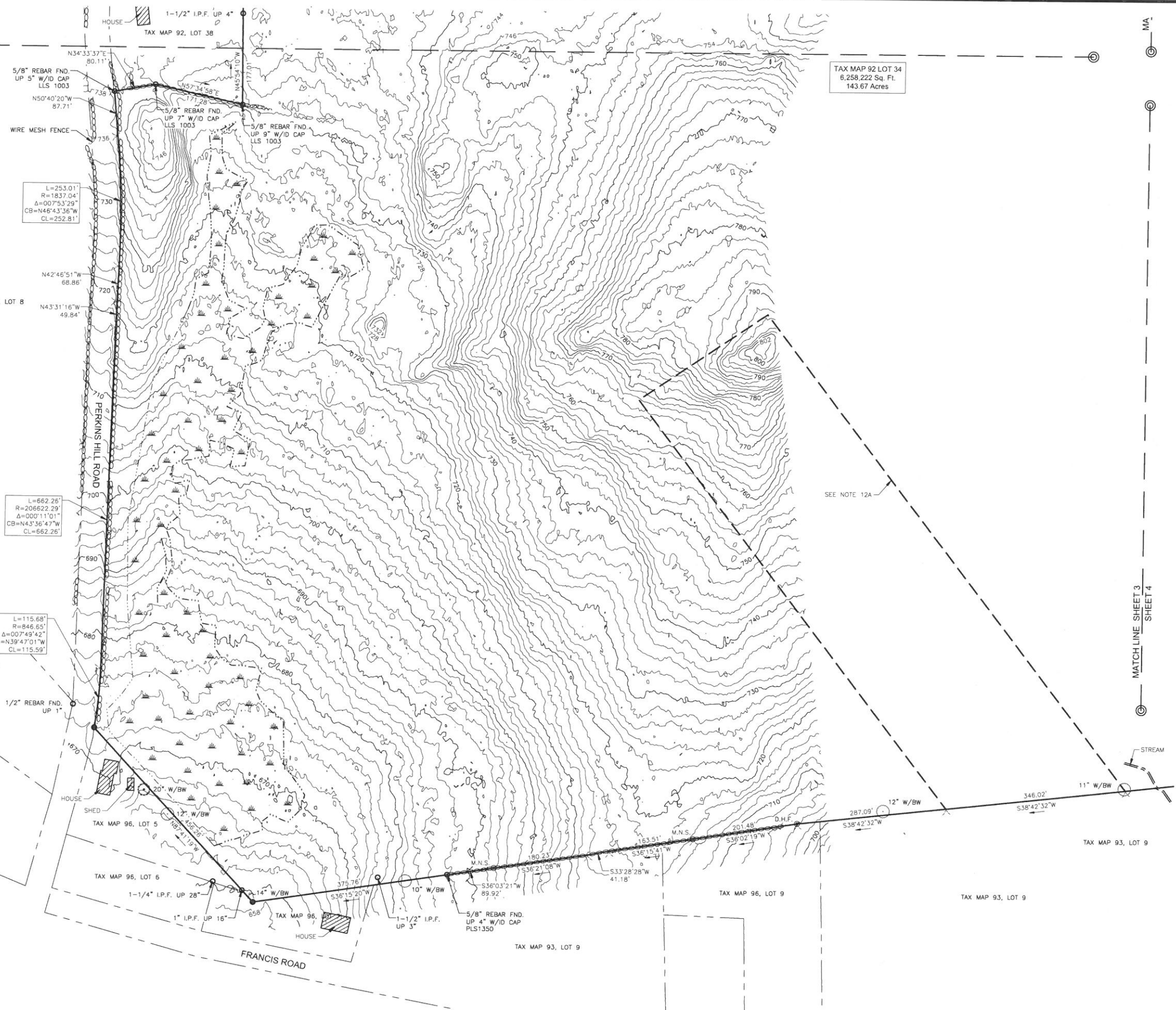
EXISTING CONDITIONS PLAN
FOR
NOBIS GROUP
OF
TAX MAP 92, LOT 34
ROUTE 153 (PROVINCE LAKE ROAD)
& PERKINS HILL ROAD
WAKEFIELD, NEW HAMPSHIRE

THIS DRAWING IS NOT FOR RECORDING			
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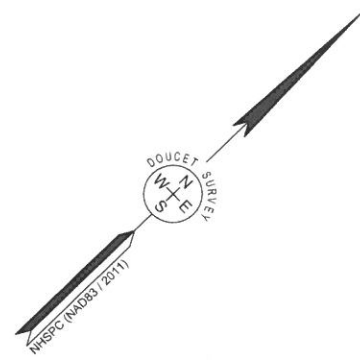
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CHECKED BY:	S.V.M.	DRAWING NO.	8054A
JOB NO.	8054	SHEET	2 OF 4

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MATCH LINE SHEET 2
SHEET 3



TAX MAP 92 LOT 34
6,258.222 Sq. Ft.
143.67 Acres



EXISTING CONDITIONS PLAN
FOR
NOBIS GROUP
OF
TAX MAP 92, LOT 34
ROUTE 153 (PROVINCE LAKE ROAD)
& PERKINS HILL ROAD
WAKEFIELD, NEW HAMPSHIRE

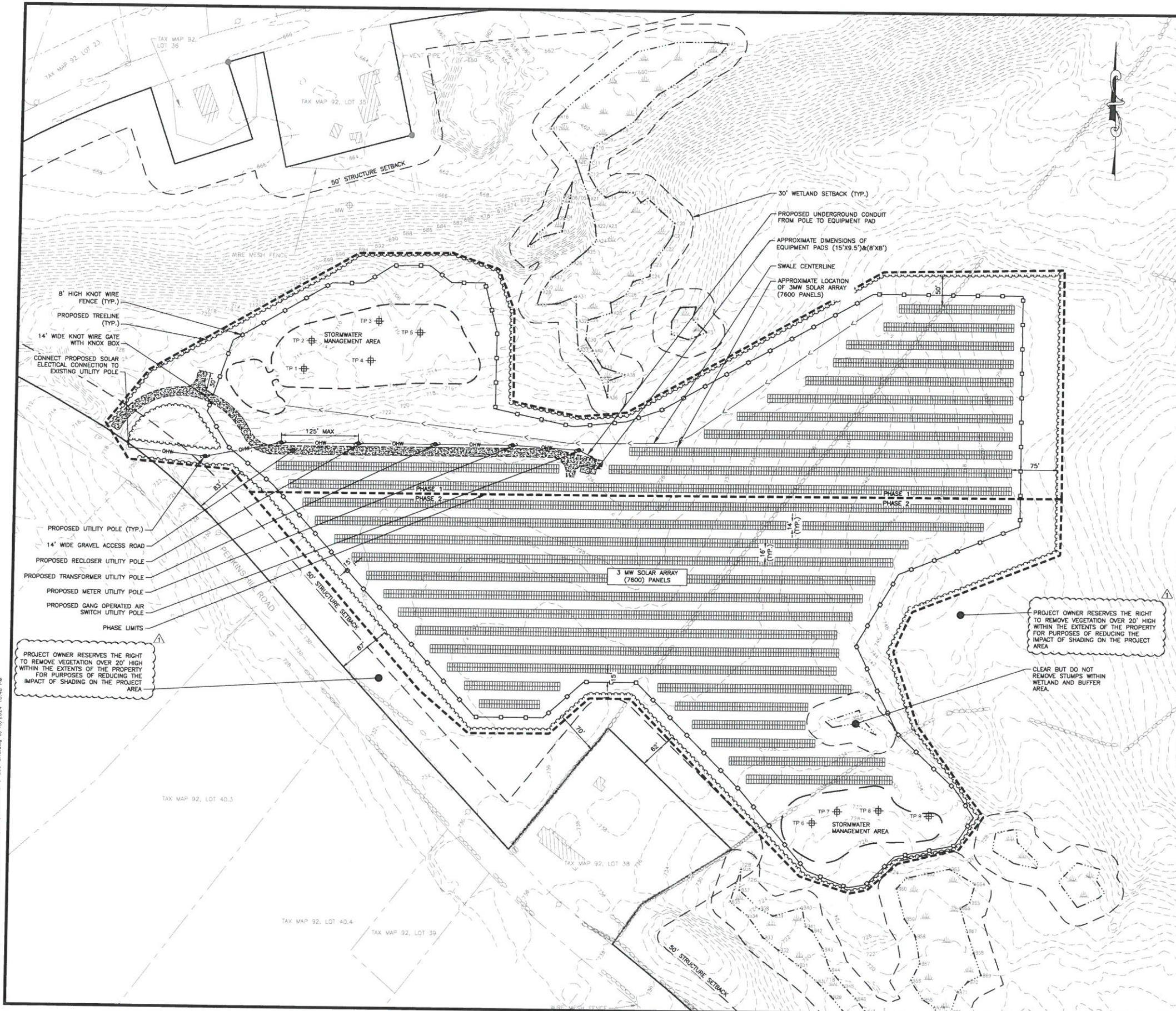
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DRAWN BY: W.D.C. / C.P.M.	DATE: DECEMBER 5, 2023
CHECKED BY: S.V.M.	DRAWING NO. 8054A
JOB NO. 8054	SHEET 3 OF 4

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FILE NAME: \\PROJECTS\NEW HAMPSHIRE\DATA\2023-12-05\PERKINS HILL ROAD\EXISTING CONDITIONS PLAN.dwg
DATE: 12/05/2023
TIME: 11:34am
USER: W.D.C.
PLOT: 1
PLOT DATE: 12/05/2023
PLOT TIME: 11:34am
PLOT USER: W.D.C.
PLOT DEVICE: HP DesignJet T1100e
PLOT SCALE: 1"=100'

\\100666.000-C-200-SITE.dwg 3/13/2024 10:48 PM



NOTES:

1. THE PURPOSE OF THIS PLAN IS TO DEPICT THE APPROXIMATE LOCATION OF THE PROPOSED PROVINCE LAKE ROAD SOLAR DEVELOPMENT RELATIVE TO ADJACENT PROPERTIES, ROADS, AND OTHER PERTINENT LAND FEATURES.
2. ALL BUILDING AND SITE CONSTRUCTION TO COMPLY WITH THE RULES AND REGULATIONS OF THE AMERICANS WITH DISABILITY ACT (ADA) LATEST EDITION.
3. DIMENSIONS SHOWN TAKE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR TO USE CAUTION WHEN SCALING REPRODUCED PLANS. IN THE EVENT OF A CONFLICT BETWEEN THIS PLAN SET AND ANY OTHER DRAWINGS AND / OR SPECIFICATIONS, THE ENGINEER WILL BE NOTIFIED BY THE CONTRACTOR.
4. JURISDICTIONAL WETLANDS WERE FOUND ON THE SUBJECT PARCEL BASED ON AN INSPECTION MADE BY STONEY RIDGE ENVIRONMENTAL'S CERTIFIED WETLAND SCIENTIST ON AUGUST 7, 11, 16 & 17, 2023.
5. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING DIG SAFE (1-888-DIG-SAFE) AT LEAST 72 HOURS PRIOR TO THE COMMENCEMENT OF WORK. THE CONTRACTOR WILL COORDINATE WORK WITH THE CITY FIRE, POLICE, AND COMMUNITY DEVELOPMENT DEPARTMENTS.
6. A MANDATORY PRE-CONSTRUCTION MEETING WILL NEED TO BE HELD PRIOR TO ISSUANCE OF ANY PERMITS TO DISCUSS INSPECTION FEES, CONSTRUCTION SCHEDULE, ETC.
7. REFER TO CONSTRUCTION DETAIL SHEETS FOR ALL APPLICABLE SITE DETAILS.
8. CONTRACTOR WILL NOTIFY ENGINEERS IMMEDIATELY IF SITE CONDITIONS DIFFER FROM WHAT IS SHOWN ON PLAN.
9. TEST PITS PERFORMED BY NOBIS GROUP, ON JANUARY 4, 2024. REFER TO TEST PIT LOGS FOR DETAILS.
10. REFER TO SHEET G-1 FOR GENERAL NOTES AND LEGEND.
11. PHASE 1 MUST BE COMPLETED AND STABILIZED PRIOR TO CONTRACTOR PROCEEDING WITH PHASE 2 CONSTRUCTION. REFER TO SHEET G-1 FOR STABILIZATION DEFINITION.
12. AS-BUILT PLANS SHALL BE DELIVERED TO THE BUILDING DEPARTMENT PRIOR TO A CERTIFICATE OF OCCUPANCY BEING ISSUED.

PLAN REFERENCES:

1. EXISTING CONDITIONS, TOPOGRAPHICAL INFORMATION, NORTH ORIENTATION, NORTH ARROW, AND COORDINATE VALUES DEPICTED ON THESE DRAWINGS ARE BASED ON PLANS TITLED "EXISTING CONDITIONS PLAN FOR NOBIS GROUP OF TAX MAP 93, LOT 34", DATED DECEMBER 05, 2023, PROVIDED TO NOBIS GROUP, BY DOUCET SURVEY LLC.

ZONING ANALYSIS:

TAX MAP/BLOCK/LOT:	MAP 92/LOT 34
ADDRESS:	PROVINCE LAKE ROAD & PERKINS HILL ROAD WAKEFIELD, NEW HAMPSHIRE
ZONING DISTRICT:	RESIDENTIAL III DISTRICT - 132.24 ACRES RESIDENTIAL II DISTRICT - 11.43 ACRES
MINIMUM LOT AREA	PROVIDED 130,680 SF 5,258,222 SF
MINIMUM LOT FRONTAGE	PROVIDED 150' 2642.37'
MINIMUM SETBACKS REQUIRED	REQUIRED
FRONT YARD	50'
SIDE YARD	20'
REAR YARD	15'
WETLANDS	30'

PROJECT OWNER RESERVES THE RIGHT TO REMOVE VEGETATION OVER 20' HIGH WITHIN THE EXTENTS OF THE PROPERTY FOR PURPOSES OF REDUCING THE IMPACT OF SHADING ON THE PROJECT AREA.

CLEAR BUT DO NOT REMOVE STUMPS WITHIN WETLAND AND BUFFER AREA.

APPROVED

BY THE WAKEFIELD PLANNING BOARD

THIS SITE PLAN IS APPROVED IN ACCORDANCE WITH THE TOWN OF WAKEFIELD DEVELOPMENT REGULATIONS.

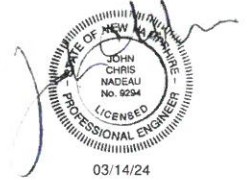
CHAIR OR VICE CHAIR

DATE



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FOR
CONSTRUCTION

PROVINCE LAKE ROAD SOLAR

PROVINCE LAKE ROAD
WAKEFIELD, NEW HAMPSHIRE

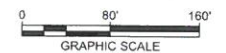
TAX MAP:
MAP 92 / LOT 34

OWNER(S):
SAVANNAH WOOD LLC
PO BOX 131
GRANTHAM, NH 03753

APPLICANT:
PROVINCE LAKE ROAD SOLAR, LLC
4445 EASTGATE MALL RD, STE 200
SAN DIEGO, CA 92121

NO.	DATE	TOWN COMMENTS	DESCRIPTION
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REVISIONS

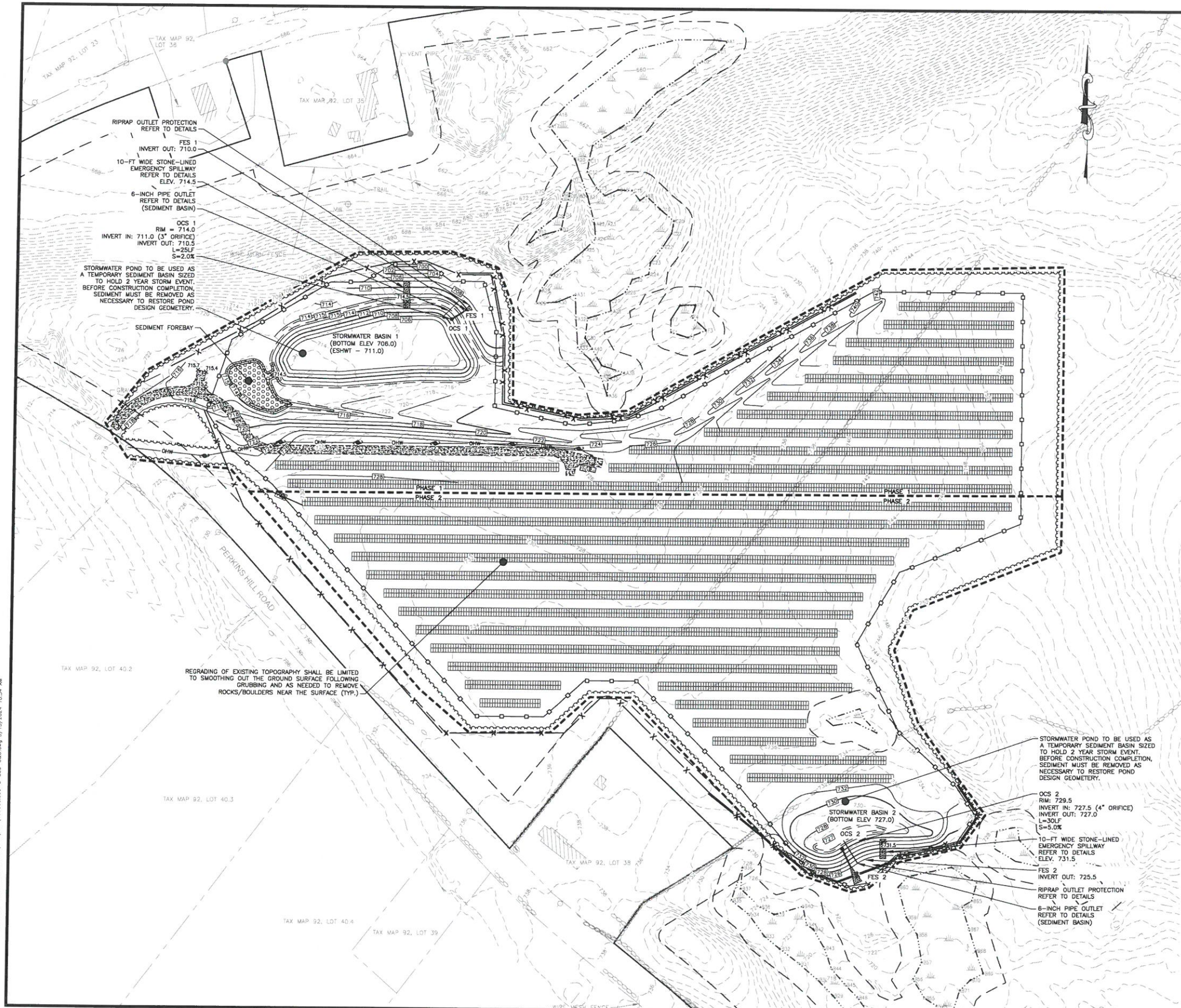


DATE:	MARCH 2024
NOBIS PROJECT NO.	100666.000
DRAWN BY:	GWS
CHECKED BY:	JCN
CAD DRAWING FILE:	100666.000-C-200-SITE.dwg
SHEET TITLE	

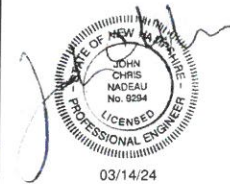
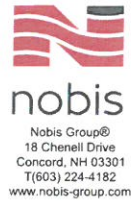
SITE PLAN

SHEET
C-2

A:\100666.000-Province Lake Road Solar Wakefield, NH\CAD\DWG\100666.000-C-300-G&D.dwg 3/13/2024 10:54 AM



- NOTES:
1. REFER TO SURVEYOR'S PLAN FOR BASE PLAN REFERENCES AND ADDITIONAL NOTES.
 2. ALL ELEVATIONS SHOWN ARE IN REFERENCE TO THE SURVEY PLAN AND MUST BE VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
 3. CONTRACTOR WILL NOTIFY OWNER & ENGINEER IMMEDIATELY IF SITE CONDITIONS DIFFER FROM WHAT IS SHOWN ON PLAN.
 4. LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES ARE APPROXIMATE ONLY AND ARE BASED ON RECORDS FROM THE UTILITY COMPANIES AND FIELD MEASUREMENTS OF VISIBLE STRUCTURES. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION AND WILL NOTIFY ENGINEER AND OWNER IMMEDIATELY OF ANY CONFLICTS.
 5. ALL WORK ON SITE. ALL UTILITY WORK AND ALL WORK WITH CITY R.O.W. WILL BE PERFORMED IN ACCORDANCE WITH THE TOWN OF WAKEFIELD SPECIFICATIONS, LATEST EDITION.
 6. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING DIG SAFE (1-888-DIG-SAFE) AT LEAST 72 HOURS PRIOR TO THE COMMENCEMENT OF WORK. THE CONTRACTOR WILL COORDINATE WORK WITH THE CITY FIRE, POLICE, AND COMMUNITY DEVELOPMENT DEPARTMENTS.
 7. ALL STORM DRAIN PIPING WITH LESS THAN 3.0 FEET OF COVER WILL BE OVERLAIN WITH 2" THICK RIGID INSULATION FOR THE FULL WIDTH OF PIPE TRENCH.
 8. REFER TO SHEET G-1 FOR GENERAL NOTES AND LEGEND.



NOT ISSUED
FOR
CONSTRUCTION

PROVINCE LAKE
ROAD SOLAR

PROVINCE LAKE ROAD
WAKEFIELD, NEW HAMPSHIRE

TAX MAP:
MAP 92 / LOT 34

OWNER(S):
SAVANNAH WOOD LLC
PO BOX 1340
GRANTHAM, NH 03753

APPLICANT:
PROVINCE LAKE ROAD SOLAR, LLC.
4445 EASTGATE MALL RD. STE 200
SAN DIEGO, CA 92121

NO.	DATE	DESCRIPTION
1	03/15/24	TOWN COMMENTS

REVISIONS



DATE: MARCH 2024
NOBIS PROJECT NO. 100666.000
DRAWN BY: GWS
CHECKED BY: JCN
CAD DRAWING FILE:
100666.000-C-300-G&D.dwg
SHEET TITLE

GRADING &
DRAINAGE PLAN

SHEET
C-3

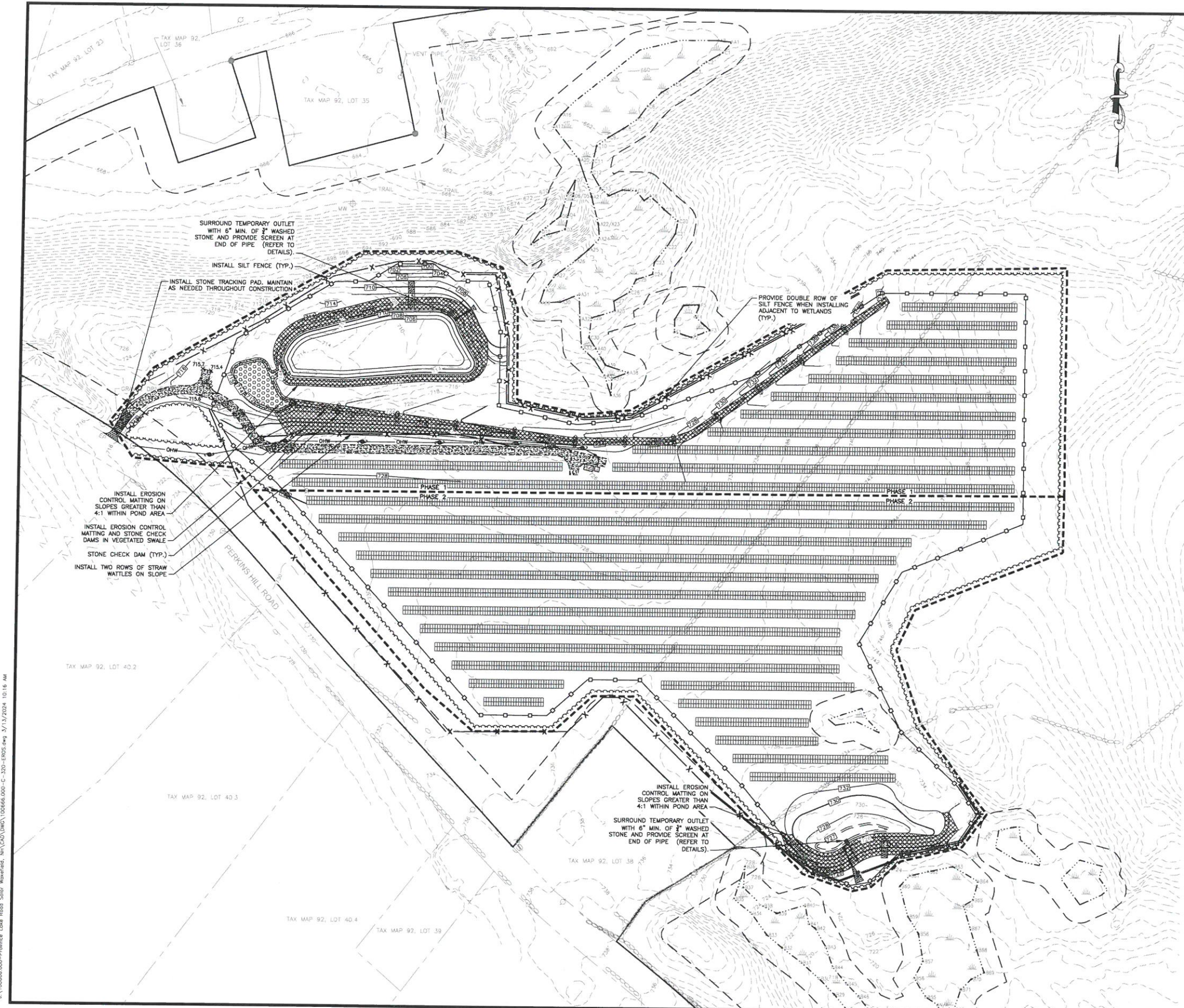
APPROVED

BY THE WAKEFIELD PLANNING BOARD
THIS SITE PLAN IS APPROVED IN ACCORDANCE WITH THE TOWN OF
WAKEFIELD DEVELOPMENT REGULATIONS

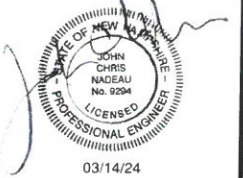
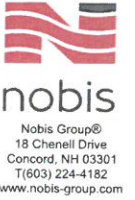
CHAIR OR VICE CHAIR

DATE

J:\100666.000-Provence Lake Road Solar Wakefield, NH\CAD\DWG\100666.000-C-320-EROS.dwg 3/13/2024 10:16 AM



- NOTES:
1. THIS PLAN IS NOT INTENDED TO SHOW PERMANENT DRAINAGE DESIGNS AND TO BE USED FOR TEMPORARY EROSION AND SEDIMENT CONTROL ONLY.
 2. CONTRACTOR TO GRADE ACTIVE EXCAVATION AREAS TO ALLOW MAXIMUM INFILTRATION OF STORMWATER AND MINIMIZE RUNOFF FROM DISTURBED AREAS.
 3. DISTURBANCES OF AREAS TO BE MINIMIZED. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED FOR LONGER THAN TWO WEEKS DURING THE GROWING SEASON. AREAS WHICH WILL NOT BE PERMANENTLY SEEDED WITHIN TWO WEEKS OF DISTURBANCE SHALL BE TEMPORARILY SEEDED AND MULCHED. ALL AREAS SHALL BE STABILIZED WITH SEED AND MULCH AND TACKIFIER WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE AND PRIOR TO THE END OF THE GROWING SEASON.
 4. FOR FURTHER INFORMATION ON BEST MANAGEMENT PRACTICES SEE COMPLETE PLAN SET AND STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR THIS PROJECT PREPARED BY NOBIS ENGINEERING, INC., (DATE).
 5. USE TEMPORARY EROSION AND SEDIMENT CONTROL PRODUCTS THAT EITHER DO NOT CONTAIN NETTING, OR THAT CONTAIN NETTING MANUFACTURED FROM 100% BIODEGRADABLE NON-PLASTIC MATERIALS SUCH AS JUTE, SISAL, OR COIR FIBER. DEGRADABLE, PHOTODEGRADABLE, UV-DEGRADABLE, OXO-DEGRADABLE, OR OXO-BIODEGRADABLE PLASTIC NETTING (INCLUDING POLYPROPYLENE, NYLON, POLYETHYLENE, AND POLYESTER) ARE NOT EQUIVALENT ALTERNATIVES. NETTING USED IN THESE PRODUCTS SHOULD HAVE A LOOSE-WEAVE WILDLIFE-SAFE DESIGN WITH MOVABLE JOINTS BETWEEN THE HORIZONTAL AND VERTICAL TWINES, ALLOWING THE TWINES TO MOVE INDEPENDENTLY AND THUS REDUCING THE POTENTIAL FOR WILDLIFE ENTANGLEMENT.
 6. AVOID THE USE OF SILT FENCES REINFORCED WITH METAL OR PLASTIC MESH OR IF POSSIBLE RECOMMEND THE USE OF EROSION CONTROL BERMS.
 7. WHEN NO LONGER REQUIRED, TEMPORARY EROSION AND SEDIMENT CONTROL PRODUCTS SHOULD BE REMOVED PROMPTLY FROM THE PROJECT SITE.
 8. USE NONWOVEN COIR FABRIC WHEN A SURFACE FABRIC TREATMENT IS REQUIRED FOR EROSION CONTROL AND STABILIZATION, SUCH AS 100% BIODEGRADABLE COCONUT FIBER MAT OR EQUAL AS REVIEWED AND APPROVED BY THE PROJECT DESIGN ENGINEER.
 9. USE WOVEN COIR FABRIC WHEN SITE CONDITIONS WARRANT. THE OUTER LAYER OF WOVEN COIR FABRIC SHOULD BE A HIGH STRENGTH, CONTINUOUSLY WOVEN MAT (I.E., WITHOUT SEAMS) AND MADE OF 100% COCONUT FIBER.
 10. REFER TO GENERAL NOTES AND LEGEND SHEET FOR ADDITIONAL EROSION CONTROL NOTES AND CONSTRUCTION SEQUENCE.



NOT ISSUED
FOR
CONSTRUCTION


PROVINCE LAKE ROAD SOLAR

PROVINCE LAKE ROAD
WAKEFIELD, NEW HAMPSHIRE

TAX MAP:
MAP 92 / LOT 34

OWNER(S):
SAVANNAH WOOD LLC
PO BOX 1340
GRANTHAM, NH 03753

APPLICANT:
PROVINCE LAKE ROAD SOLAR, LLC.
4445 EASTGATE MALL RD. STE 200
SAN DIEGO, CA 92121

	03/15/24	TOWN COMMENTS
NO.	DATE	DESCRIPTION

REVISIONS



DATE:	MARCH 2024
NOBIS PROJECT NO.	100666.000
DRAWN BY:	GWS
CHECKED BY:	JCN
CAD DRAWING FILE:	100666.000-C-320-EROS.dwg
SHEET TITLE	

EROSION CONTROL PLAN

SHEET
C-4

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FOR
CONSTRUCTION

**PROVINCE LAKE
ROAD SOLAR**

PROVINCE LAKE ROAD
WAKEFIELD, NEW HAMPSHIRE

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4445 EASTGATE MALL, RD. STE 200
SAN DIEGO, CA 92121

NO.	DATE	DESCRIPTION
1	03/15/24	TOWN COMMENTS

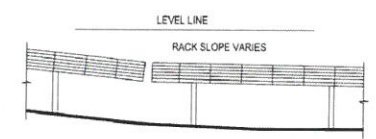
SCALE:
AS NOTED

DATE:	MARCH 2024
NOBIS PROJECT NO.	100666.000
DRAWN BY:	GWS
CHECKED BY:	JCN
CAD DRAWING FILE:	100666.000-C-500-DETAILS.dwg

**SOLAR ARRAY
CONSTRUCTION
DETAILS**

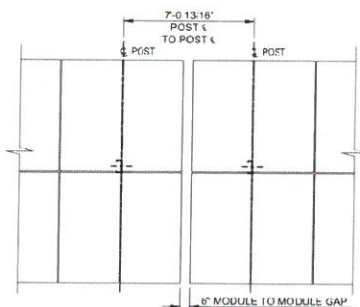
SHEET
C-5

RACK SYSTEM TOPOGRAPHIC RELATIONSHIP



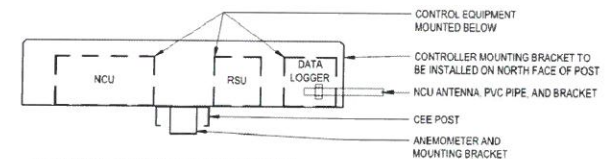
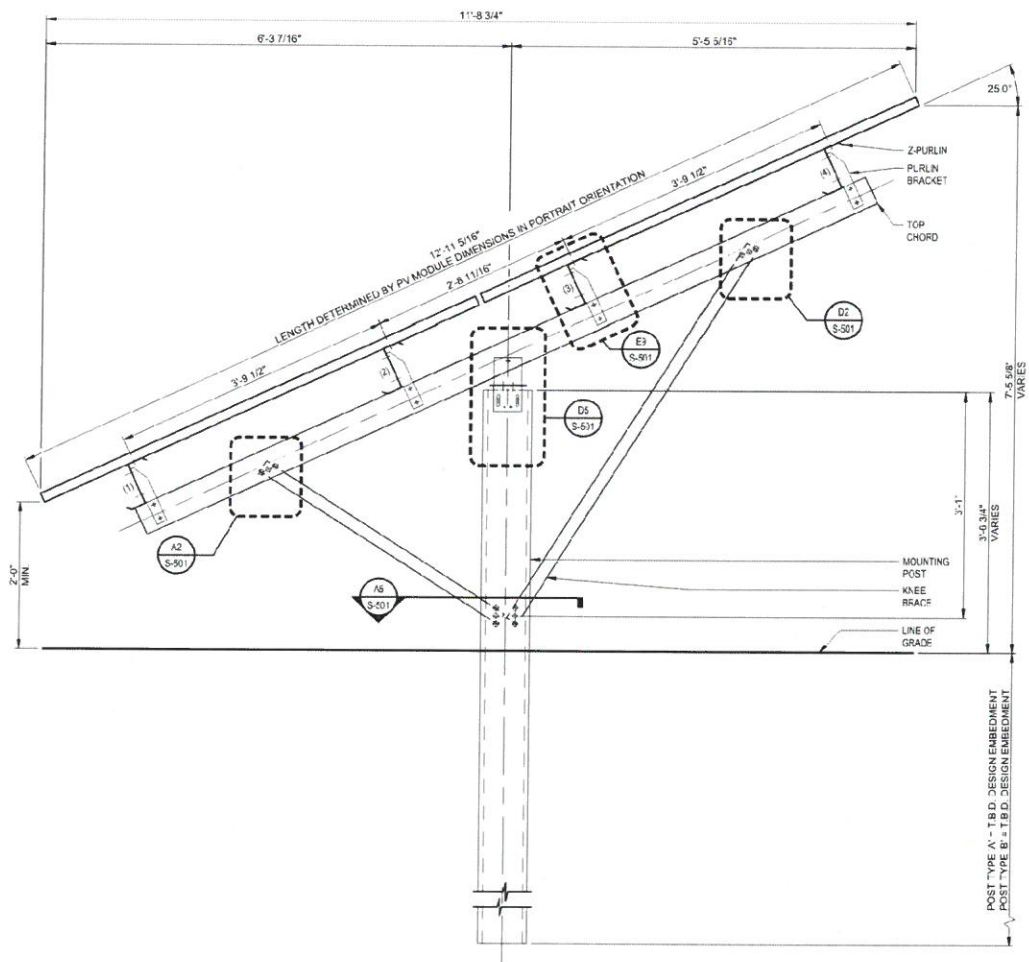
- KEY POINTS
1. RACK STRUCTURE IS PARALLEL TO SITE GRADE
 2. POST LENGTHS ARE EQUAL THROUGHOUT UNLESS NOTED OTHERWISE

FOLLOW GRADE



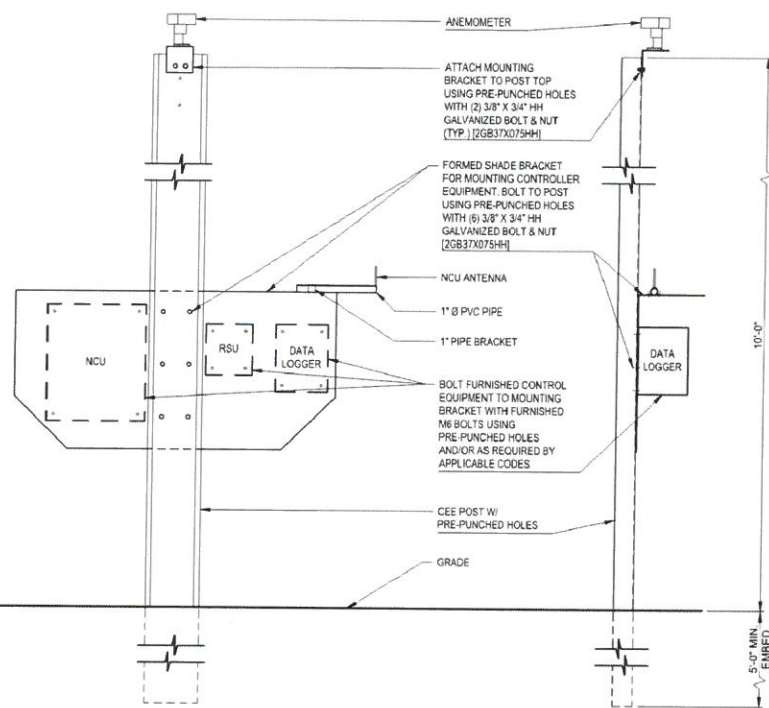
NOTE: COMPONENTS SHOWN MAY VARY FROM ACTUAL CONFIGURATION
SEE INDIVIDUAL BAY PLANS THIS SHEET FOR MORE DETAILED PLANS

**TYPICAL
ROW BREAK DETAIL**



NOTE: CONTROLLER POST IS TO BE INSTALLED WITH THE
WEB FACING NORTH AND FLANGES FACING SOUTH AS SHOWN

PLAN VIEW

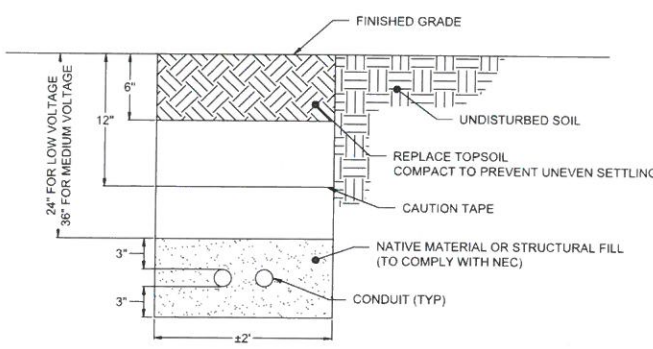


FRONT VIEW (LOOKING NORTH)

SIDE VIEW

- NOTE: ALTERNATE MOUNTING OPTIONS FOR NCU, RSU, AND WEATHER MONITORING EQUIPMENT ARE ALLOWED.
- A. EQUIPMENT SHALL BE MOUNTED PER THE EQUIPMENT INSTALLATION MANUAL WITH APPROVED HARDWARE.
 - B. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING MATERIAL AND DESIGN FOR ANY ALTERNATE MOUNTING FOR EQUIPMENT.
 - C. ANEMOMETER EQUIPMENT SHALL BE MOUNTED AT HEIGHT ABOVE GRADE SHOWN AND FLOOD SENSORS SHALL BE LOCATED PER EQUIPMENT INSTALLATION MANUALS WITH APPROVED REFERENCE PAD BELOW EQUIPMENT.
 - D. FURNISHED EQUIPMENT MAY VARY PER LOCATION.

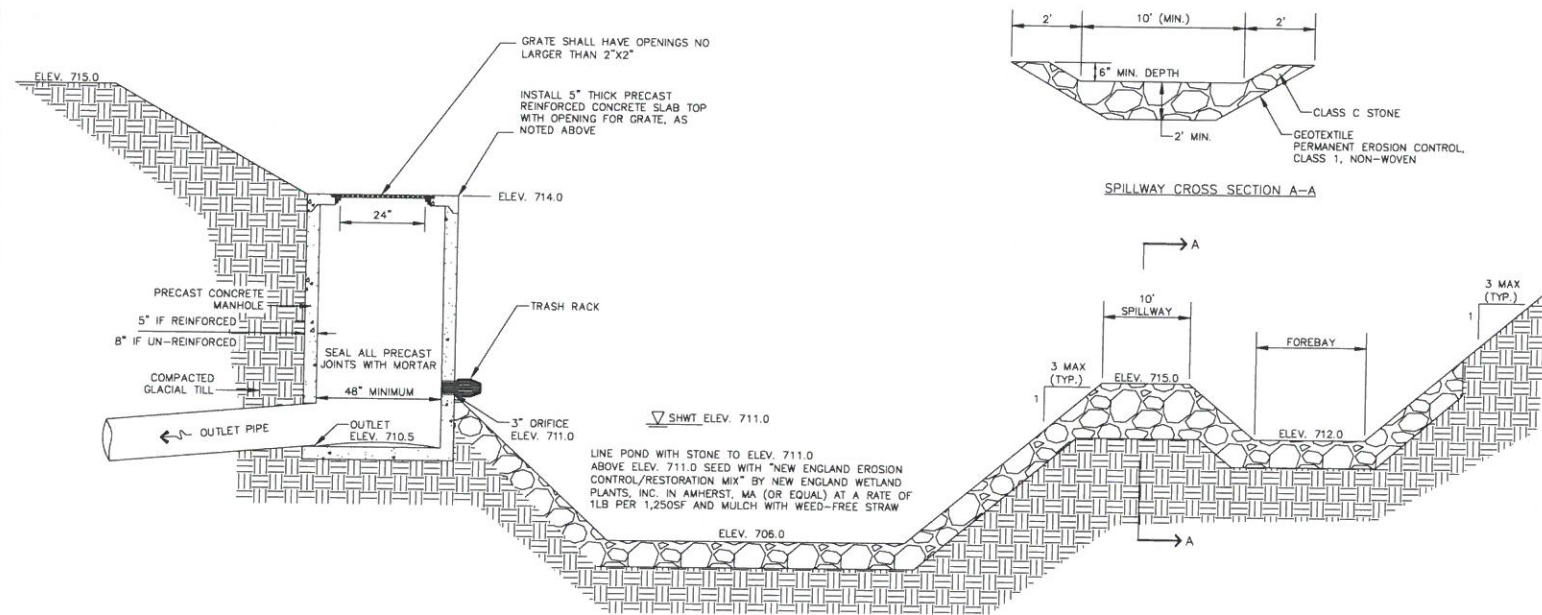
**CONTROLS EQUIPMENT
MOUNTING DETAIL**



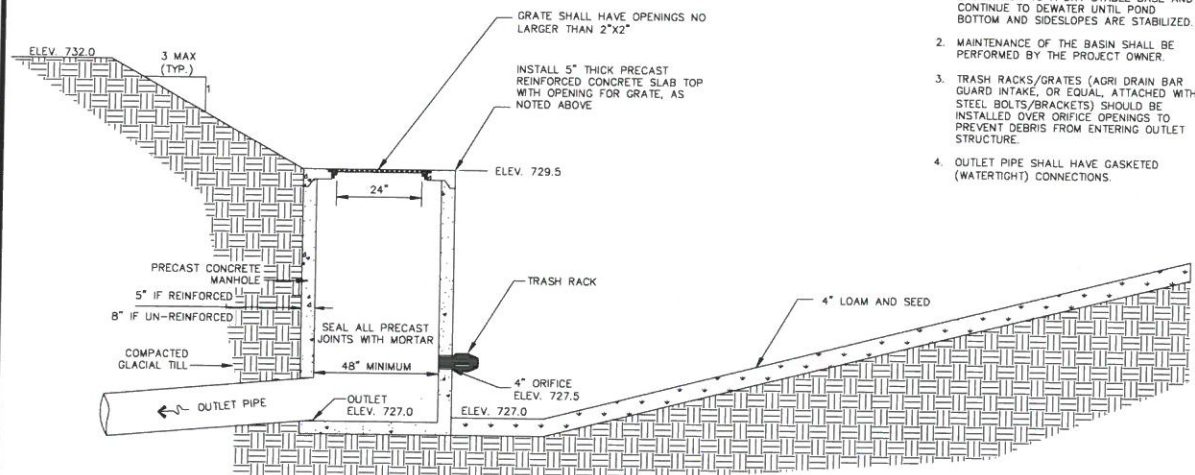
ELECTRICAL TRENCH (TYP.)
NOT TO SCALE

**DESIGN
RACK SECTION**

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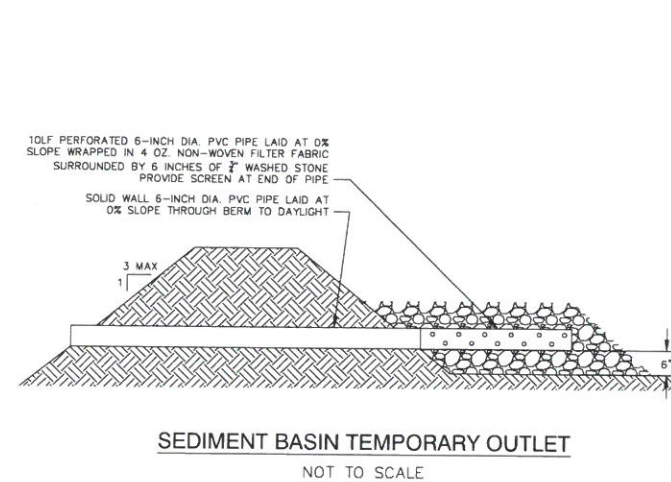
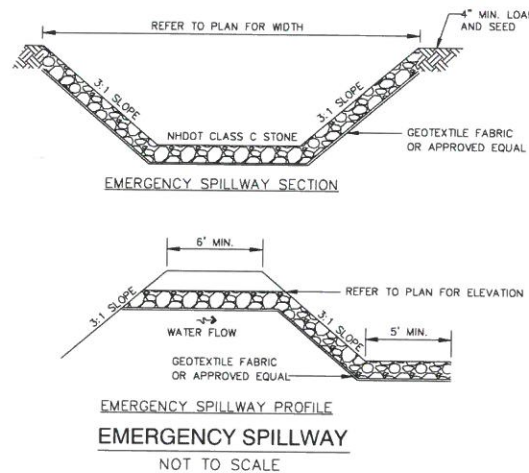


DETENTION BASIN 1 (WET POND) SECTION
NOT TO SCALE



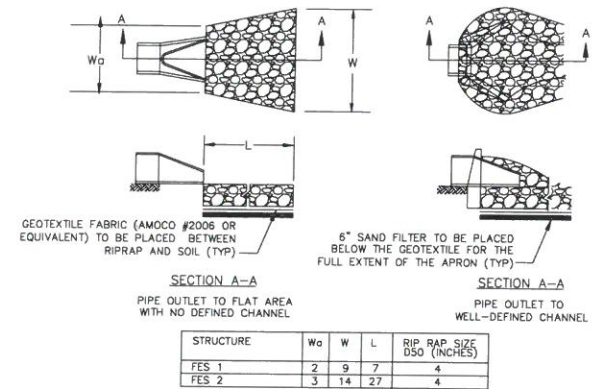
DETENTION BASIN 2 SECTION
NOT TO SCALE

- NOTES:
1. CONTRACTOR SHALL DEWATER THE EXCAVATION TO A DRY STABLE BASE AND CONTINUE TO DEWATER UNTIL POND BOTTOM AND SIDESLOPES ARE STABILIZED.
 2. MAINTENANCE OF THE BASIN SHALL BE PERFORMED BY THE PROJECT OWNER.
 3. TRASH RACKS/GRATES (AGRI DRAIN BAR GUARD INTAKE, OR EQUAL, ATTACHED WITH STEEL BOLTS/BRAKETS) SHOULD BE INSTALLED OVER ORIFICE OPENINGS TO PREVENT DEBRIS FROM ENTERING OUTLET STRUCTURE.
 4. OUTLET PIPE SHALL HAVE GASKETED (WATERTIGHT) CONNECTIONS.



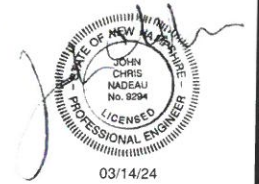
RIP RAP OUTLET PROTECTION APRON
NOT TO SCALE

- NOTES:
1. THE SUBGRADE FOR THE GEOTEXTILE FABRIC AND RIPRAP SHALL BE PREPARED TO THE LINES AND GRADES SHOWN ON THE PLANS.
 2. THE RIPRAP SHALL CONFORM TO THE SPECIFIED GRADATION.
 3. GEOTEXTILE FABRICS SHALL BE PROTECTED FROM PUNCTURE OR TEARING DURING THE PLACEMENT OF THE ROCK RIPRAP. DAMAGED AREAS IN THE FABRIC SHALL BE REPAIRED BY PLACING A PIECE OF FABRIC OVER THE DAMAGED AREA OR BY COMPLETE REPLACEMENT OF THE FABRIC. ALL OVERLAPS REQUIRED FOR REPAIRS OR JOINING TWO PIECES OF FABRIC SHALL BE A MINIMUM OF 12 INCHES.
 4. STONE FOR THE RIPRAP MAY BE PLACED BY EQUIPMENT AND SHALL BE CONSTRUCTED TO THE FULL LAYER THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO PREVENT SEGREGATION OF THE STONE SIZES.
 5. OUTLETS TO A DEFINED CHANNEL SHALL HAVE 2:1 OR FLATTER SIDE SLOPES AND SHOULD BEGIN AT THE TOP OF THE CULVERT AND TAPER DOWN TO THE CHANNEL BOTTOM THROUGH THE LENGTH OF THE APRON.
 6. MAINTENANCE: THE OUTLET PROTECTION SHOULD BE CHECKED AT LEAST ANNUALLY AND AFTER EVERY MAJOR STORM. IF THE RIPRAP HAS BEEN DISPLACED, UNDERMINED OR DAMAGED, IT SHOULD BE REPAIRED IMMEDIATELY. THE CHANNEL IMMEDIATELY BELOW THE OUTLET SHOULD BE CHECKED TO SEE THAT EROSION IS NOT OCCURRING. THE DOWNSTREAM CHANNEL SHOULD BE KEPT CLEAR OF OBSTRUCTIONS SUCH AS FALLEN TREES, DEBRIS, AND SEDIMENT THAT COULD CHANGE FLOW PATTERNS AND/OR TAILWATER DEPTHS ON THE PIPES. REPAIRS MUST BE CARRIED OUT IMMEDIATELY TO AVOID ADDITIONAL DAMAGE TO OUTLET PROTECTION.



STRUCTURE	W ₀	W	L	RIP RAP SIZE (INCHES)
FES 1	2	9	7	4
FES 2	3	14	27	4

TABLE 7-24--RECOMMENDED RIPRAP GRADATION RANGES			
THICKNESS OF RIPRAP = (2.25x d50) FEET (6"min)			
d50 SIZE = 4"	X	0 FEET	9 X INCHES
% OF WEIGHT SMALLER THAN THE GIVEN d50 SIZE	SIZE OF STONE (INCHES) FROM TO		
100%	(1.5xd50)	(2.0xd50)	
85%	(1.3xd50)	(1.8xd50)	
50%	(1.0xd50)	(1.5xd50)	
15%	(0.3xd50)	(0.5xd50)	



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ROAD SOLAR

PROVINCE LAKE ROAD
WAKEFIELD, NEW HAMPSHIRE

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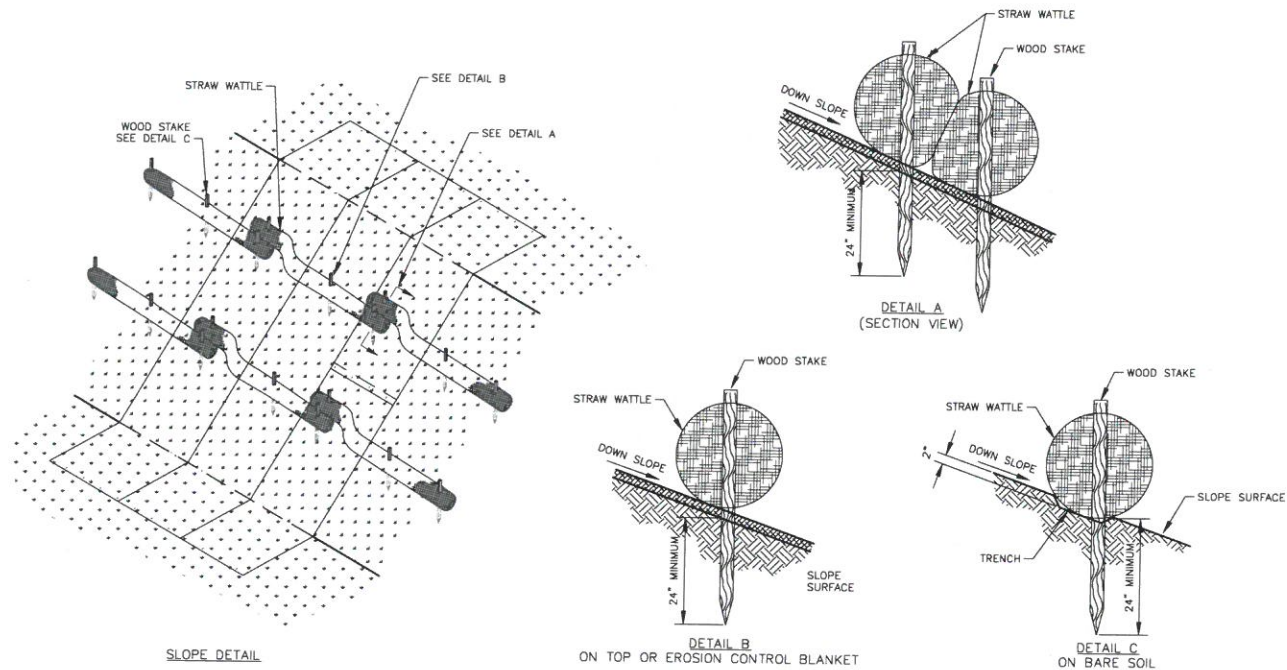
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CHECKED BY:	JCN
CAD DRAWING FILE:	100666.000-C-500-DETAILS.dwg
SHEET TITLE	

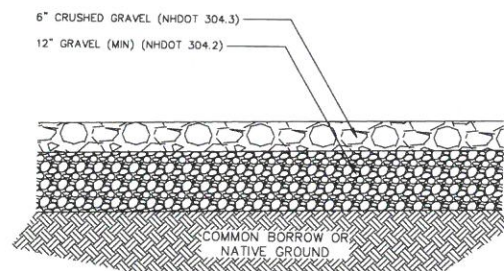
CONSTRUCTION
DETAILS

SHEET
C-6

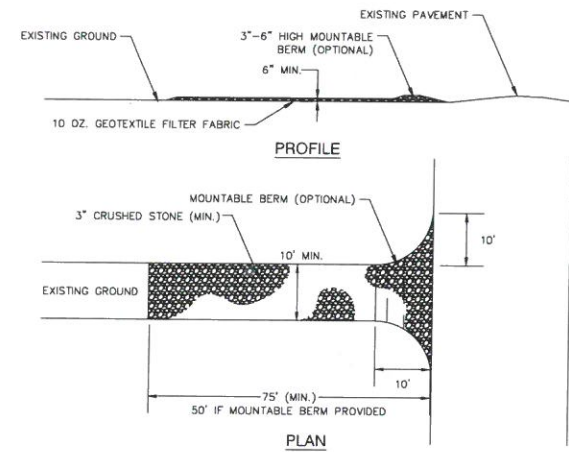
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SLOPE DETAIL WITH STRAW WATTLE
NOT TO SCALE

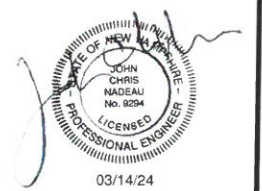


GRAVEL ACCESS ROAD SECTION
NOT TO SCALE



TRACKING PAD DETAIL
NOT TO SCALE

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ROAD SOLAR**

PROVINCE LAKE ROAD
WAKEFIELD, NEW HAMPSHIRE

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SHEET TITLE

**CONSTRUCTION
DETAILS**

SHEET
C-8