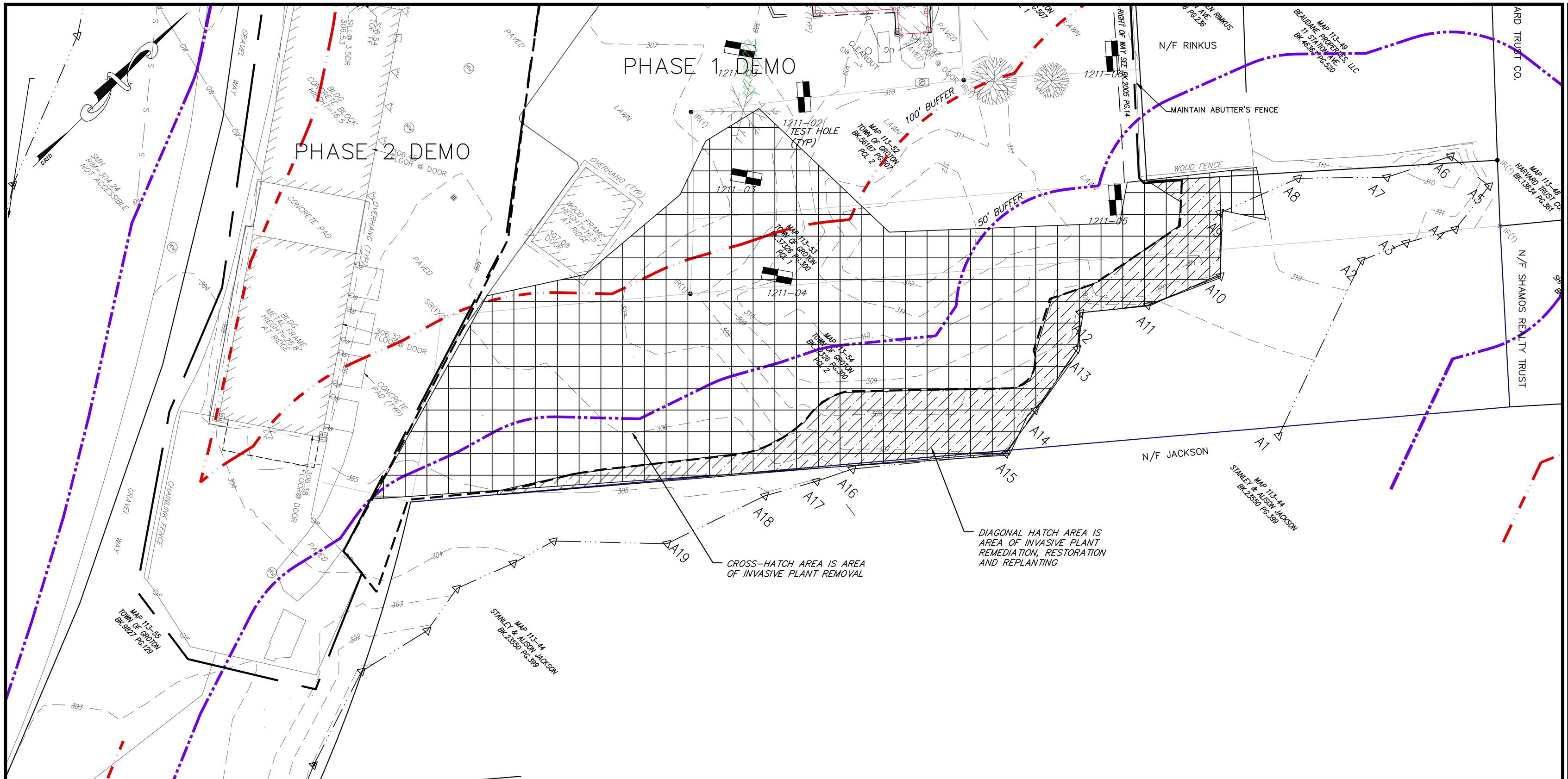

1. THE AREA DEPICTED IS APPROXIMATE ONLY. ACTUAL AREA FOR INVASIVE PLAN REMEDIATION SHALL BE BASED ON FIELD DELINEATION OF THE INDIVIDUAL PLANTS AND SPECIES WITHIN THE AREA OF WORK FOR THE CONSTRUCTION OF THE NEW GELD FACILITY. MARGINAL AREAS OUTSIDE OF THE AREA OF CONSTRUCTION MAY ALSO REQUIRE REMEDIATION. THE AREA DEPICTED HEREON IS 0.66 ACRES.

2. PRIOR TO INITIATING ANY INVASIVE SPECIES REMOVAL, THE AREA FOR REMEDIATION SHALL BE FIELD ESTABLISHED BY A BOTANIST OR OTHER PERSON WHO IS ABLE TO DEFINITIVELY DELINEATE INVASIVE SPECIES. SUCH SPECIES SHALL BE FLAGGED IN THE FIELD FOR CONFIRMATION BY OWNER'S REPRESENTATIVE (AND, IF REQUIRED) BY THE GROTON CONSERVATION COMMISSION. FIELD DELINEATION SHALL CONSIST OF FLAGGING, PAINT OR SOME OTHER SUITABLE MARKINGS THAT DELINEATE PARTICULAR PLANTS OR GROUPS OF PLANTS TO BE REMOVED.

3. EXCEPT AS NOTED IN ITEMS 1 & 2, ABOVE, AND ON A CASE-BY-CASE BASIS, NO ALTERATIONS SHALL BE PERMITTED IN THE DELINEATED WETLANDS AREAS.

4. EXCEPT AS OTHERWISE NOTED, ALL TOPSOIL 5' OUTSIDE OF THE PERIMETER OF AREAS DELINEATED WITH JAPANESE KNOTWEED SHALL BE EXCAVATED AND REMOVED FROM THE SITE. SUCH MATERIAL SHALL NOT BE RE-USED ANYWHERE ELSE IN THE COMMONWEALTH OF MASSACHUSETTS UNLESS STERILIZED OR OTHERWISE RENDERED FREE OF KNOTWEED RHIZOMES.

5. THIS REMEDIATION PLAN REQUIRES THE USE OF A HERBICIDE (GLYPHOSPHATE: WHICH IS SOLD UNDER THE BRANDS: ROUND-UP-PRO, RODEO & ACCORD).
   A. THE USE OF ANY AND ALL HERBICIDES – IF REQUIRED BY LAW OR REGULATION– SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS, AND SHALL BE APPLIED BY A LICENSED APPLICATOR.
   B. THE APPLICATOR SHALL BE SOLELY RESPONSIBLE FOR THE PROVISION OF ALL SAFETY GEAR, AND NOTIFICATION TAGS OR RELATED SAFETY PRECAUTIONS.
   C. THE APPLICATION OF HERBICIDES SHALL ONLY BY THE PAINTING OF THE PRODUCT ON THE TARGET PLANT OR BY THE USE OF SMALL HAND-HELD SPRAY BOTTLES OR OTHER SIMILAR TARGET SPECIFIC METHODS. SPRAY CONTAINERS OF MORE THAN 1 QUART SHALL NOT BE USED. BROADCAST SPRAYING IS NOT PERMITTED AS AN APPROVED REMEDIATION ACTIVITY.

6. BITTERSWEET SHALL BE CUT THROUGH AT THE BASE AND THE TOP VINES REMOVED. IF REMOVAL OF THE VINES REMAINING WILL CAUSE DAMAGE TO THE PARENT TREE, DEAD VINE PORTIONS MAY BE LEFT ON THE TREE ON A CASE BY CASE BASIS. IMMEDIATELY AFTER CUTTING THE REMAINING BASE SHALL BE TREATED WITH A SOLUTION OF GLYPHOSPHATE [ROUNDUP-PRO-UNDILUTED] TO THE REMAINING STEM, CUT AREA AND EXPOSED BARK. DO NOT TREAT OR EXPOSE ADJACENT VEGETATION TO THE HERBICIDE.

7. MULTIFLORA ROSE AND HONEYSUCKLE SHRUBS SHALL BE REMOVED BY CUTTING OR PULLING. IF CUT, THE REMAINING STEMS SHALL BE TREATED WITH A 41% SOLUTION OF GLYPHOSPHATE COVERING THE CUT END, THE BARK AND STEM.

8. ONCE THE INITIAL ROUND OF PLANT REMOVALS HAS OCCURRED, ALL DISTURBED SURFACES SHALL BE SPREAD WITH A NEW LAYER OF LOAM, MIN. 4" DEEP AND PLANTED WITH NEW ENGLAND WETLANDS PLANTS, INC., AMHERST MA 01002, SEMI-SHADE GRASS AND FORB MIX AT 30 LBS./ACRE. UTILIZE STRAW AS A MULCH LAYER.

9. AS DEPICTED ON THE LANDSCAPE PLAN, C-4, AREAS WHICH HAVE BEEN DISTURBED BY THE REMOVAL OF SHRUB LAYERS SHALL BE RE-ESTABLISHED BY THE PLANTING OF NATIVE, NON-INVASIVE SPECIES SHRUBS AND GROUND COVERS.

10. THE CONTRACTOR SHALL INCLUDE IN THE BASE BID, THE ON-GOING SERVICES NEEDED TO MONITOR AND MAINTAIN INVASIVE SPECIES REMOVAL AND REMEDIATION SERVICES FOR A MINIMUM OF ONE YEAR, MEETING THE FOLLOWING CRITERIA:
   A. WITHIN TWO WEEKS OF THE INITIAL REMOVAL OF INVASIVE SPECIES, A SITE VISIT AND SUPPLEMENTARY REMOVAL AND HERBICIDE APPLICATIONS SHALL BE MADE ON ANY EMERGENT GROWTH.
   B. A SITE VISIT AND REMEDIATION ACTIVITIES SHALL CONTINUE AT TWO WEEK INTERVALS FOR A MINIMUM OF TWO MONTHS; THEREAFTER, SITE VISITS SHALL BE CONDUCTED MONTHLY (DURING THE GROWING SEASON).
   C. EACH SITE VISIT SHALL BE DOCUMENTED AS TO THE STATUS OF INVASIVE SPECIES RE-GROWTH, THE GROWTH AND HEALTH OF PLANTED SPECIES AND A SUMMARY OF REMEDIAL ACTIONS TAKEN. REPORTS SHALL INCLUDE PHOTOGRAPHS OR DIGITAL IMAGES AT THE TIME OF THE SITE VISIT.

11. SEE ORDER OF CONDITIONS ISSUED BY GROTON CONSERVATION COMMISSION AND DEP FILE NO. 169-1073.

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REVISIONS		
Number	Description	Date
1	Bldg smaller, add exist trees, rain garden	1/11/12
2	EOW Field location, shift 5 parking spaces	2/29/12
3	Invasives Remediostion (this sheet added)	5/1/12
4	No Revisions this sheet	7/31/12
5	No Revisions this sheet	8/7/12
6	Planning Board Submission	9/19/12

Stamp:

ISSUED FOR:

REVIEW

GROTON ELECTRIC LIGHT NEW OFFICE & GARAGE FACILITIES
23 STATION AVENUE
GROTON, MA 01450

Key Plan:

Graphic Scale:

Project No.: 19284	
Date: March 30, 2012	**Scale:** 1"=20'
Designed By: WEM	**Drawn By:** WEM

Sheet Contents:
INVASIVES REMEDIATION PLAN

C-1.1
SHEET ___ OF ___