INVOICE

Alex Mas
The Nature Conservancy
14 Main Street, Suite 401
Brunswick ME 04011

E-mail: amas@tnc.org

Invoice # 60

Date: February 18, 2011

Bill To:

Environmental Protection
BLWQ
17 State House Station
Augusta ME 04333-0017

Vendor Code:

VC1000067626

	Description	
	In Lieu Fee for Wetland Compensation	**$5,211.00**
	DEP Number: #L-21920-TE-V-N Corps Number: #NAE-2010-02228	
	Internal transfer-invoice	
	Gary & Kathryn Simel-Check number 31603	
	Total	**$5,211.00**

IN-LIEU-FEE (ILF) PROJECT DATA WORKSHEET

DEP Invoice # 60

[Note: Will be filled in by ILF Administrator in Augusta]

Project name: Lot 18 Development

Applicant (s): Gary and Kathryn Simel

DEP/Corps permit #: L-21920-TE-V-N / NAE-2010-02228

ILF Contribution Amount: $5,211

Project address: Lot 18 of Meduncook Bay Subdivision, Lichen Glen, Cushing

Biophysical region: Penobscot Bay Coast Subsection

Size of total impact subject to compensation: 1,350 square feet

Resources Impacted: *[The resource table on page 2 MUST be filled in with all resource types impacted, amounts and functions.]*

DEP Project Manager: Eric Ham & Jay Clement

Note: The ILF Project Data Worksheet must be filled out by the PM within 3 days of receiving a contribution to the "Natural Resource Mitigation Fund" and faxed along with a copy of the check to James Cassida in Augusta at 592-1864. The distribution of ILF contributions is time sensitive.

The PM should also double check to make sure that the check has been routed to Augusta with the correct account number reference. The account # for the ILF program is 014.06A.1776.14

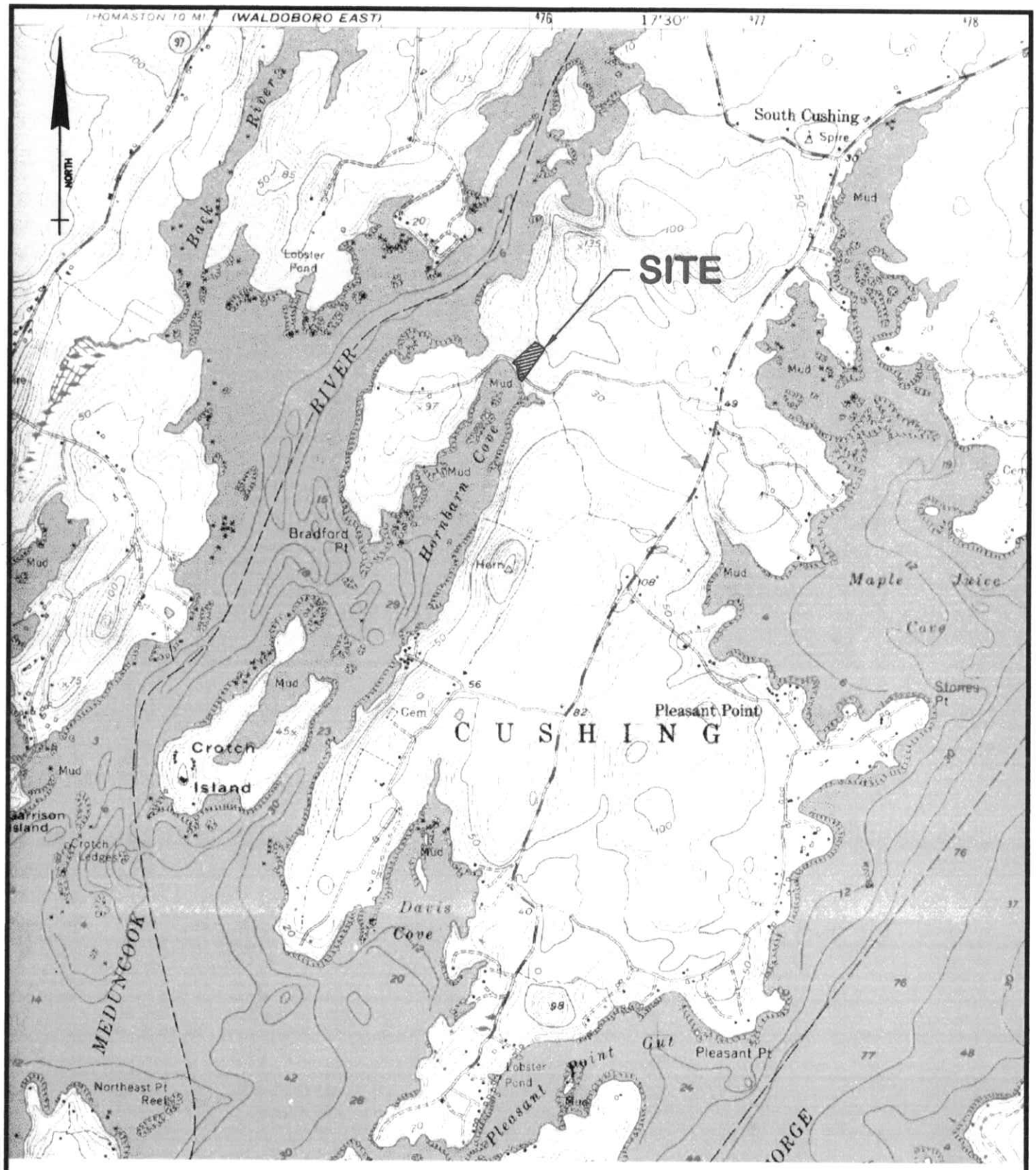
Resource(s) Impacted:

Resource Type: (Wetlands by NWI Type (PFO, PSS, M1, M2, E1, E2, etc), significant vernal pool (SVP), shorebird feeding & staging habitat (Shorebird), inland waterfowl & wading bird habitat (IWWH), tidal waterfowl & wading habitat (TWWH), and river, stream, or brook (RSB).

Wetland Functions & Values: Groundwater recharge/discharge (GWR); floodflow alterations(FF); fish & shellfish habitat(FSH); sediment toxicant retention (STR); nutrient removal (NR); production export (PE); sediment/shoreline stabilization (SS); wildlife habitat (WH); recreation (R); education/scientific value (ESV); uniqueness/heritage (UH); and visual quality/aesthetics (VQ).

Types of impacts: may include filling, dredging, vegetation conversion (e.g. forested to shrub/scrub), others.

Resource type (list all that apply)	**Functions (for wetland impacts)** (list all that apply, by resource type)	**Type of Impact** (by resource type)	**Sq Feet Impacted** (by resource type)
PFO		Fill	1,350 sf
		Total square feet impacted	1,350 sf



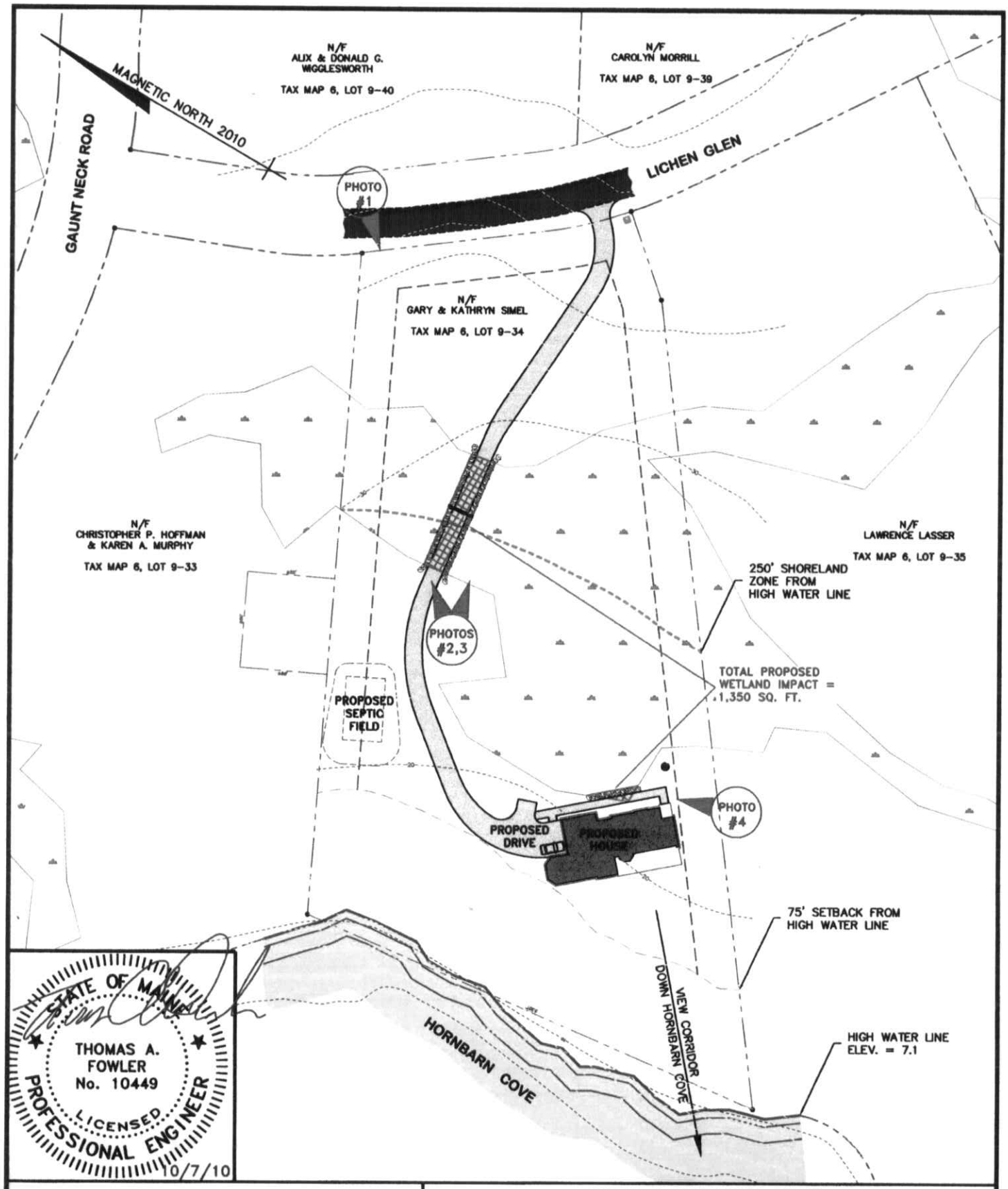
FROM THE FRIENDSHIP, MAINE 7.5 MINUTE USGS QUADRANGLE

LANDMARK CORPORATION
SURVEYORS & ENGINEERS
219 MEADOW STREET ROCKPORT, MAINE 04856 PHONE: (207) 236-6757 WWW.LANDMARKMAINE.COM

GARY & KATHRYN SIMEL
NRPA TIER 2 PERMIT APPLICATION
CUSHING, MAINE

SCALE: 1"=2000'

OCTOBER 2010



STATE OF MAINE
THOMAS A.
FOWLER
No. 10449
LICENSED
PROFESSIONAL ENGINEER
10/7/10

LANDMARK CORPORATION
SURVEYORS & ENGINEERS
219 MEADOW STREET ROCKPORT, MAINE 04856 PHONE: (207) 236-6757 WWW.LANDMARKMAINE.COM

GARY & KATHRYN SIMEL
NRPA TIER 2 PERMIT APPLICATION - OVERALL PLAN
CUSHING, MAINE

SCALE: 1"=80'

OCTOBER 2010

STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION
17 STATE HOUSE STATION
AUGUSTA, ME 04333

DEPARTMENT ORDER

IN THE MATTER OF

GARY AND KATHRYN SIMEL	) SITE LOCATION OF DEVELOPMENT ACT
Cushing, Knox County	) NATURAL RESOURCES PROTECTION ACT
LOT DEVELOPMENT	) FRESHWATER WETLAND ALTERATION
L-21920-L3-U-M (approval)	) WATER QUALITY CERTIFICATION
L-21920-TE-V-N	) FINDINGS OF FACT AND ORDER

Pursuant to the provisions of 38 M.R.S.A. Sections 481 et seq. and 480-A et seq., and Section 401 of the Federal Water Pollution Control Act, the Department of Environmental Protection has considered the application of GARY AND KATHRYN SIMEL with the supportive data, agency review comments, and other related materials on file and FINDS THE FOLLOWING FACTS:

1. PROJECT DESCRIPTION:

A. History of Project: In Department Order #L-21920-LI-A-N, dated August 11, 2004, the Department approved the development of Gaunt Neck Subdivision. In Department Order #L-21920-L3-C-N, dated December 29, 2004 and corrected on April 13, 2006, the Department approved the expansion of the Gaunt Neck Subdivision and a second related subdivision named Meduncook Point Subdivision. These two subdivisions and a third subdivision not under this license are known as Meduncook Bay Colony. The Department subsequently approved several amendments related the project. The developments are located on the Pleasant Point Road in the Town of Cushing. Department Order #L-21920-L3-T-T, approved the transfer of all Department Orders to Machias Savings Bank, excluding #L-21920-L3-R-M.

B. Summary: The applicants propose to alter 1,350 square feet of forested wetland on Lot #18 of the Meduncook Bay Colony subdivision to construct an access drive and a walkway from the driveway to the front door of the residence. The Department previously permitted 16,593 square feet of wetland impact for the creation of the subdivision road. The proposed project will bring the total wetland alteration for the project to 17,943 square feet. The proposed lot development is shown on a set of plans the first of which is entitled "Gary and Kathryn Simel, NRPA Tier 2 Permit Application – Overall Plan," prepared by Landmark Corporation, and last revised November 17, 2010. A small portion of the proposed wetland alteration is located within the shoreland zone. The applicants submitted a request to waive the project to a Tier 2 wetland alteration

permit. The Department granted the applicants request. The project site is located on the west side of Lichen Glen in the Town of Cushing.

The original subdivision design had a combined septic for Lot #17 and Lot #18. The applicants propose to construct a single septic system for the residence on Lot #18.

C. Current Use of Site: The site of the proposed project is a currently undeveloped house lot in the Meduncook Bay Subdivision. There are no structures on the property.

2. WILDLIFE AND FISHERIES:

The Maine Department of Inland Fisheries & Wildlife (MDIFW) reviewed the proposed project. In its comments, MDIFW stated that it found no records of any Essential or Significant Wildlife Habitats, or other wildlife habitats of special concern associated with this site. No fisheries concerns were identified.

The Department finds that the applicant has made adequate provision for the protection of wildlife and fisheries.

3. WASTEWATER DISPOSAL:

The proposed project was reviewed by staff from the Division of Environmental Assessment of the Bureau of Land and Water Quality (DEA). Based on DEA's review of the site, the Department finds that the applicants made adequate provisions to ensure that there will be no unreasonable adverse impacts on groundwater quality at or beyond the property boundary, or at any down gradient receptors provided that the subsurface wastewater disposal field and well are installed as shown on the plan referenced in Finding 1.

Based on DEA's comments, the Department finds that the proposed wastewater disposal system will be built on suitable soil types.

4. WATER SUPPLY:

The proposed project was reviewed by staff from the Division of Environmental Assessment of the Bureau of Land and Water Quality (DEA). DEA commented that the well should be placed outside of the 100-foot exclusion zone and not down gradient of the disposal field. DEA also commented that if bedrock is encountered at a depth of 10 feet or less during installation of the water supply well, the casing must be set and grouted a minimum of 20 feet below the solid bedrock surface.

The Department finds that the applicants have made adequate provision for securing and maintaining a sufficient and healthful water supply provided that the well is placed outside of the 100 foot exclusion zone and not down gradient of the disposal field and if

bedrock is encountered at a depth of 10 feet or less during installation of the water supply well, the casing must be set and grouted a minimum of 20 feet below the solid bedrock surface.

5. WETLAND IMPACTS:

The applicants propose to alter 1,350 square feet of forested wetland to construct an access drive and a walkway. Cumulative wetland impacts for the residential subdivision, total 17,943 square feet.

The Department's Wetlands and Waterbodies Protection Rules, Chapter 310, require the applicant to meet the following standards:

A. Avoidance. No activity may be permitted if there is a practicable alternative to the project that would be less damaging to the environment. Each application for a Tier 2 permit must provide an analysis of alternatives in order to demonstrate that a practicable alternative does not exist. The applicants submitted an alternative analysis as part of the application for the proposed project completed by Landmark Corporation. The applicants must cross the freshwater wetland to reach the buildable area of the lot. The applicants located the access drive in the narrowest portion of the wetland to avoid greater impacts. The house was orientated in a way to avoid all wetland impacts from the structure.

B. Minimal Alteration. The amount of wetland to be altered must be kept to the minimum amount necessary for meeting the overall purpose of the project. The applicants located the driveway and home to accomplish the most minimal wetland alteration. The roadway was reduced to 10 feet wide at the proposed wetland crossing. The side slopes of the road will be constructed as a nearly vertical boulder wall. The garage is orientated to allow the vehicles to enter in a way that requires no additional wetland impact.

C. Compensation. Compensation is required to achieve the goal of no net loss of wetland functions and values. The applicants elected to make a contribution into the In Lieu Fee (ILF) program of $5,211.00 for 1,350 square feet of permanent impact to a forested wetland. The approval granted pursuant to this Department Order shall not become effective until payment of the $5,211.00 is received by the ILF program administrator at 17 State House Station, Augusta, ME 04333.

The Department finds that the applicants have avoided and minimized wetland impacts to the greatest extent practicable, and that the proposed project represents the least environmentally damaging alternative that meets the overall purpose of the project provided that prior to the start of construction, the applicants submit the ILF payment to the Department.

5. ALL OTHER:

All other Findings of Fact, Conclusions and Conditions remain as approved in Department Order #L-21920-LI-A-N, and subsequent orders.

BASED on the above findings of fact, and subject to the conditions listed below, the Department makes the following conclusions pursuant to 38 M.R.S.A. Sections 480-A et seq. and Section 401 of the Federal Water Pollution Control Act:

A. The proposed activity will not unreasonably interfere with existing scenic, aesthetic, recreational, or navigational uses.

B. The proposed activity will not cause unreasonable erosion of soil or sediment.

C. The proposed activity will not unreasonably inhibit the natural transfer of soil from the terrestrial to the marine or freshwater environment.

D. The proposed activity will not unreasonably harm any significant wildlife habitat, freshwater wetland plant habitat, threatened or endangered plant habitat, aquatic habitat, travel corridor, freshwater, estuarine, or marine fisheries or other aquatic life provided that prior to the start of construction, the applicants submit the ILF payment to the Department.

E. The proposed activity will not unreasonably interfere with the natural flow of any surface or subsurface waters.

F. The proposed activity will not violate any state water quality law including those governing the classifications of the State's waters.

G. The proposed activity will not unreasonably cause or increase the flooding of the alteration area or adjacent properties.

H. The proposed activity is not on or adjacent to a sand dune.

I. The proposed activity is not on an outstanding river segment as noted in 38 M.R.S.A. Section 480-P.

BASED on the above findings of fact, and subject to the conditions listed below, the Department makes the following conclusions pursuant to 38 M.R.S.A. Sections 481 et seq.:

A. The applicants have provided adequate evidence of financial capacity and technical ability to develop the project in a manner consistent with state environmental standards.

B. The applicants have made adequate provision for fitting the development harmoniously into the existing natural environment and the development will not adversely affect existing uses, scenic character, air quality, water quality or other natural resources in the municipality or in neighboring municipalities.

C. The proposed development will be built on soil types which are suitable to the nature of the undertaking and will not cause unreasonable erosion of soil or sediment nor inhibit the natural transfer of soil.

D. The proposed development meets the standards for storm water management in Section 420-D and the standard for erosion and sedimentation control in Section 420-C.

E. The proposed development will not pose an unreasonable risk that a discharge to a significant groundwater aquifer will occur provided that the subsurface wastewater disposal field is installed as shown on the plan referenced in Finding 1, the well is placed outside of the 100 foot exclusion zone and not down gradient of the disposal field, and provided that if bedrock is encountered at a depth of 10 feet or less during installation of the water supply well, casing is set and grouted a minimum of 20 feet below the solid bedrock surface.

F. The applicants have made adequate provision of utilities, including water supplies, sewerage facilities, solid waste disposal and roadways required for the development and the development will not have an unreasonable adverse effect on the existing or proposed utilities and roadways in the municipality or area served by those services.

G. The activity will not unreasonably cause or increase the flooding of the alteration area or adjacent properties nor create an unreasonable flood hazard to any structure.

THEREFORE, the Department APPROVES the application of GARY AND KATHRYN SIMEL to develop Lot # 18 and to fill 1,350 square feet of freshwater wetlands to construct a driveway and walkway, as described in Finding 1, SUBJECT TO THE FOLLOWING CONDITIONS and all applicable standards and regulations:

1. The Standard Conditions of Approval, a copy attached.

2. In addition to any specific erosion control measures described in this or previous orders, the applicant shall take all necessary actions to ensure that their activities or those of their agents do not result in noticeable erosion of soils or fugitive dust emissions on the site during the construction and operation of the project covered by this approval.

3. Severability. The invalidity or unenforceability of any provision, or part thereof, of this License shall not affect the remainder of the provision or any other provisions. This License shall be construed and enforced in all respects as if such invalid or unenforceable provision or part thereof had been omitted.

4. The subsurface wastewater disposal field shall be installed as shown on the plan referenced in Finding 1.

5. The well shall be installed outside of the 100 foot exclusion zone and not down gradient of the disposal field as shown on the plan referenced in Finding 1.

6. If bedrock is encountered at a depth of 10 feet or less during installation of the water supply, the applicant shall install a grouted casing a minimum of 20 feet below the solid bedrock surface.

7. Prior to the start of construction, the applicants shall submit the ILF payment of $5,211.00 to the Department.

8. All other Findings of Fact, Conclusions and Conditions remain as approved in Department Order #L-21920-LI-A-N, and subsequent orders, and are incorporated herein.

THIS APPROVAL DOES NOT CONSTITUTE OR SUBSTITUTE FOR ANY OTHER REQUIRED STATE, FEDERAL OR LOCAL APPROVALS NOR DOES IT VERIFY COMPLIANCE WITH ANY APPLICABLE SHORELAND ZONING ORDINANCES.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

This permit has been digitally signed by Andrew C. Fisk on behalf of Acting Commissioner Beth Nagusky. It is digitally signed pursuant to authority under 10 M.R.S.A. § 9418. It has been filed with the Board of Environmental Protection as of the signature da
2010.11.23 08:56:02 -05'00'

PLEASE NOTE THE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES…

eh/l#21920umvn/ats#72638,72639

DEPARTMENT OF THE ARMY
NEW ENGLAND DISTRICT, CORPS OF ENGINEERS
696 VIRGINIA ROAD
CONCORD, MASSACHUSETTS 01742-2751

REPLY TO
ATTENTION OF

MAINE GENERAL PERMIT (GP)
AUTHORIZATION LETTER AND SCREENING SUMMARY

GARY & KATHRYN SIMEL
C/O LANDMARK CORPORATION
219 MEADOW STREET
ROCKPORT, MAINE 04856

CORPS PERMIT # NAE-2010-02228
CORPS PGP ID# 10-350
STATE ID# NRPA

DESCRIPTION OF WORK:
Fill approximately 1,350 s.f. (0.03 acres) of freshwater wetland off Lichen Glen Road at Cushing, Maine in order to develop a house lot within the Meduncook Bay Colony residential subdivision. Previously authorized work within the subdivision impacted 0.39 acres of wetland (Corps Permit No. NAE-2004-01524). Total cumulative impact to wetlands with this proposal is now 0.42 acres. This work is shown on the attached plans entitled "GARY & KATHRYN SIMEL, NRPA TIER 2 PERMIT APPLICATION, CUSHING, MAINE" in six sheets dated "OCTOBER 2010".

LAT/LONG COORDINATES : 43.9863746° N 69.2997412° W **USGS QUAD:** FRIENDSHIP, ME

I. CORPS DETERMINATION:
Based on our review of the information you provided, we have determined that your project will have only minimal individual and cumulative impacts on waters and wetlands of the United States. **Your work is therefore authorized by the U.S. Army Corps of Engineers under the enclosed Federal Permit, the Maine General Permit (GP).** Accordingly, we do not plan to take any further action on this project.

You must perform the activity authorized herein in compliance with all the terms and conditions of the GP [including any attached Additional Conditions and any conditions placed on the State 401 Water Quality Certification including any required mitigation]. Please review the enclosed GP carefully, including the GP conditions beginning on page 5, to familiarize yourself with its contents. You are responsible for complying with all of the GP requirements; therefore you should be certain that whoever does the work fully understands all of the conditions. You may wish to discuss the conditions of this authorization with your contractor to ensure the contractor can accomplish the work in a manner that conforms to all requirements.

If you change the plans or construction methods for work within our jurisdiction, please contact us immediately to discuss modification of this authorization. This office must approve any changes before you undertake them.

Condition 41 of the GP (page 18) provides one year for completion of work that has commenced or is under contract to commence prior to the expiration of the GP on October 12, 2015. You will need to apply for reauthorization for any work within Corps jurisdiction that is not completed by October 12, 2016.

This authorization presumes the work shown on your plans noted above is in waters of the U.S. Should you desire to appeal our jurisdiction, please submit a request for an approved jurisdictional determination in writing to the undersigned.

No work may be started unless and until all other required local, State and Federal licenses and permits have been obtained. **This includes but is not limited to a Flood Hazard Development Permit issued by the town if necessary.**

II. STATE ACTIONS: PENDING [ ], ISSUED[ ], DENIED [ ] DATE_____

APPLICATION TYPE: PBR:___, TIER 1:___, TIER 2 :___, TIER 3: X, LURC: ___ DMR LEASE: ___ NA: ___

III. FEDERAL ACTIONS:

JOINT PROCESSING MEETING: 11/4/10 LEVEL OF REVIEW: CATEGORY 1:___ CATEGORY 2: X

AUTHORITY (Based on a review of plans and/or State/Federal applications): SEC 10___, 404 X 10/404___, 103___

EXCLUSIONS: The exclusionary criteria identified in the general permit do not apply to this project.

FEDERAL RESOURCE AGENCY OBJECTIONS: EPA NO, USF&WS NO, NMFS NO

If you have any questions on this matter, please contact my staff at 207-623-8367 at our Manchester, Maine Project Office. In order for us to better serve you, we would appreciate your completing our Customer Service Survey located at http://per2.nwp.usace.army.mil/survey.html

Jay L. Clement
JAY L. CLEMENT
SENIOR PROJECT MANAGER
MAINE PROJECT OFFICE

fjd 12-6-2010
FRANK J. DEL GIUDICE **DATE**
CHIEF, PERMITS & ENFORCEMENT BRANCH
REGULATORY DISTRICT

US Army Corps
of Engineers ®
New England District

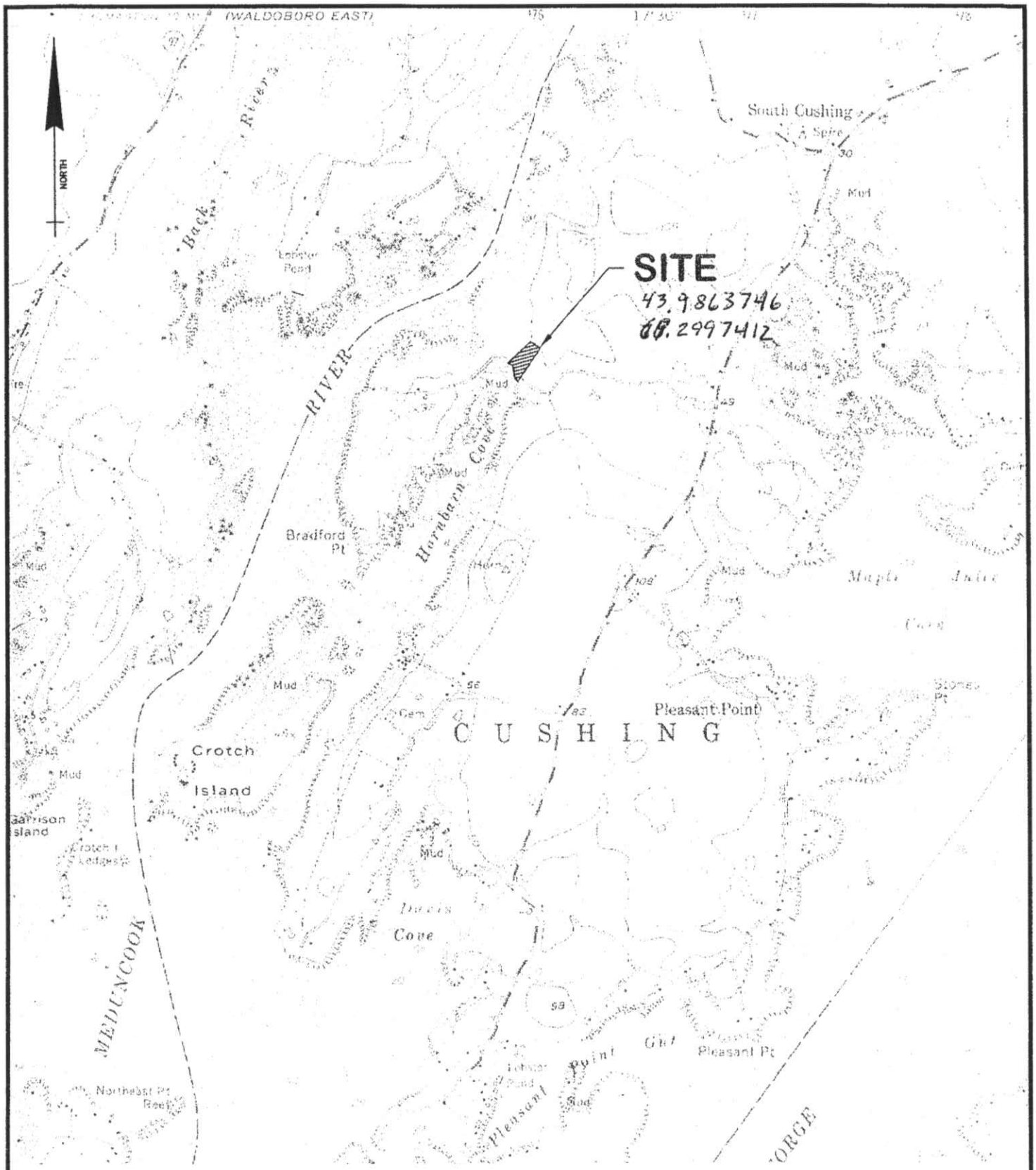
PLEASE NOTE THE FOLLOWING GENERAL CONDITIONS FOR
DEPARTMENT OF THE ARMY
GENERAL PERMIT
NO. NAE-2010-02228

1. The permittee shall assure that a copy of this permit is at the work site whenever work is being performed and that all personnel performing work at the site of the work authorized by this permit are fully aware of the terms and conditions of the permit. This permit, including its drawings and any appendices and other attachments, shall be made a part of any and all contracts and sub-contracts for work which affects areas of Corps of Engineers' jurisdiction at the site of the work authorized by this permit. This shall be done by including the entire permit in the specifications for the work. If the permit is issued after construction specifications but before receipt of bids or quotes, the entire permit shall be included as an addendum to the specifications. The term "entire permit" includes permit amendments. Although the permittee may assign various aspects of the work to different contractors or sub-contractors, all contractors and sub-contractors shall be obligated by contract to comply with all environmental protection provisions of the entire permit, and no contract or sub-contract shall require or allow unauthorized work in areas of Corps of Engineers jurisdiction.

2. Culverts placed at stream and/or wetland crossings shall be imbedded 6"-12" below the natural streambed or wetland so as not to impede fish or other aquatic life passage.

3. Adequate sedimentation and erosion control devices, such as geotextile silt fences or other devices capable of filtering the fines involved, shall be installed and properly maintained to minimize impacts during construction. These devices must be removed upon completion of work and stabilization of disturbed areas. The sediment collected by these devices must also be removed and placed upland, in a manner that will prevent its later erosion and transport to a waterway or wetland.

4. All exposed soils resulting from the construction will be promptly seeded and mulched in order to achieve vegetative stabilization.



FROM THE FRIENDSHIP, MAINE 7.5 MINUTE USGS QUADRANGLE

LANDMARK CORPORATION
SURVEYORS & ENGINEERS
219 MEADOW STREET ROCKPORT, MAINE 04856 PHONE: (207) 236-6757 WWW.LANDMARKMAINE.COM

GARY & KATHRYN SIMEL
NRPA TIER 2 PERMIT APPLICATION
CUSHING, MAINE

SCALE: 1"=2000'

OCTOBER 2010

LEGEND:

N/F	NOW OR FORMERLY
	APPROXIMATE PROPERTY LINE BASED ON SUBDIVISION PLAN
●	IRON PIN FOUND
	SETBACK (FROM HWL OR PL AS NOTED)
	250' SHORELAND ZONE
	EXISTING CONTOUR
	WETLAND BOUNDARY FROM SUBDIVISION PLAN
	PROPOSED WETLAND IMPACT
	PROPOSED BOULDER CUTOFF WALL
W	PROPOSED WELL
PHOTO #1	PHOTOGRAPH LOCATION

PLAN NOTES:

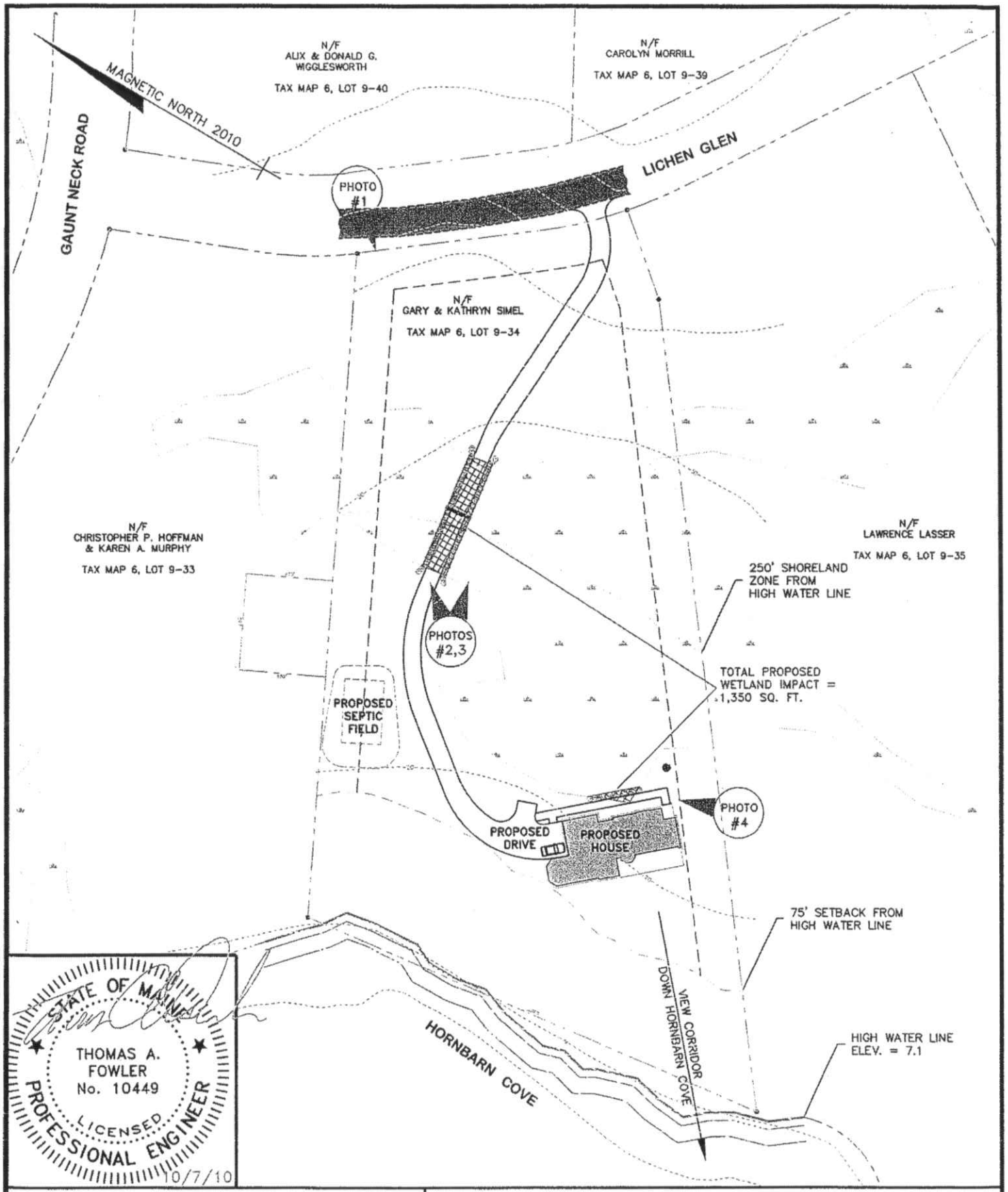
1. THESE PLANS ARE FOR THE PURPOSE OF NRPA TIER 2 WETLAND PERMITTING FOR THE PROPOSED SIMEL RESIDENCE ON LOT 18 OF THE MEDUNCOOK PLANTATION SUBDIVISION IN CUSHING, MAINE.
2. PROPERTY LINES SHOWN ON THESE PLANS WERE DERIVED FROM THE MEDUNCOOK PLANTATION SUBDIVISION PLAN, PREPARED BY ENGINEERING, DYNAMIC, INC., DATED 9/11/07 AND RECORDED IN CABINET 19, SHEET 116 OF THE KNOX COUNTY REGISTRY OF DEEDS.
3. APPARENT PROPERTY CORNER PINS WERE SURVEY-LOCATED BY LANDMARK CORPORATION SURVEYORS & ENGINEERS.
4. HIGH WATER LINE SHOWN ON THESE PLANS WAS LOCATED AND DETERMINED BY LANDMARK CORPORATION SURVEYORS & ENGINEERS USING THE DEP ELEVATION METHOD. THE HIGHEST ANNUAL TIDE ELEVATION WAS 7.1' (NGVD 1929).
5. THE 75' SETBACK AND SHORELAND ZONE BOUNDARIES SHOWN ON THESE PLANS ARE MEASURED FROM THE HIGH WATER LINE DESCRIBED ABOVE AND SHOWN ON THE PLANS.
6. WETLANDS SHOWN ON THE PLAN WERE DERIVED FROM THE MEDUNCOOK PLANTATION SUBDIVISION PLAN REFERENCED ABOVE.
7. TWO-FOOT CONTOURS ARE INTERPOLATED FROM THE FIVE-FOOT CONTOURS SHOWN ON THE MEDUNCOOK PLANTATION SUBDIVISION PLAN REFERENCED ABOVE.

STATE OF MAINE
THOMAS A. FOWLER
No. 10449
LICENSED
PROFESSIONAL ENGINEER
10/7/10

LANDMARK CORPORATION
SURVEYORS & ENGINEERS
219 MEADOW STREET ROCKPORT, MAINE 04856 PHONE: (207) 236-6757 WWW.LANDMARKMAINE.COM

GARY & KATHRYN SIMEL
NRPA TIER 2 PERMIT APPLICATION - LEGEND
CUSHING, MAINE

SCALE: NOT TO SCALE | OCTOBER 2010



LANDMARK CORPORATION

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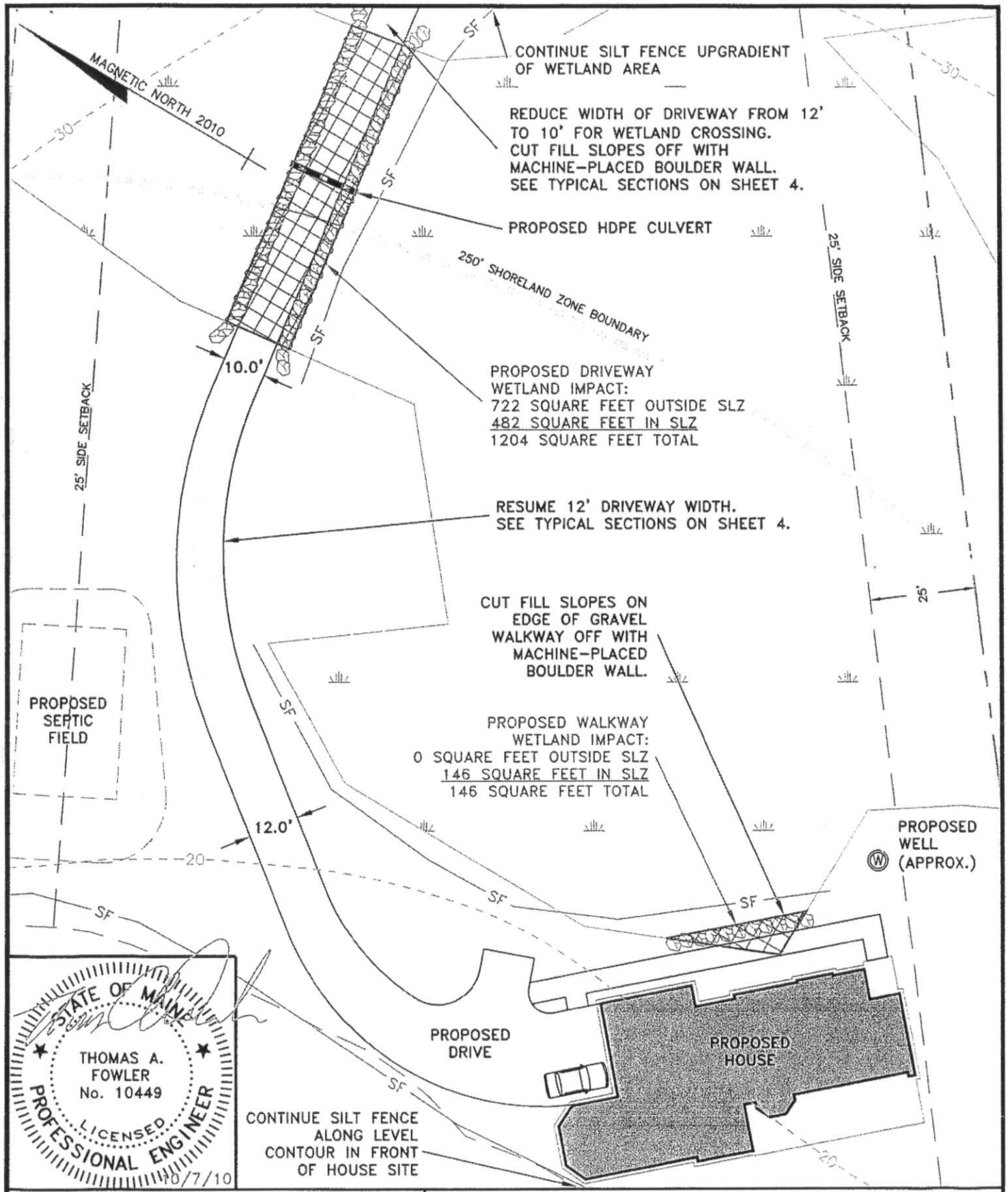
GARY & KATHRYN SIMEL
NRPA TIER 2 PERMIT APPLICATION - OVERALL PLAN
CUSHING, MAINE

SCALE: 1"=80'

OCTOBER 2010



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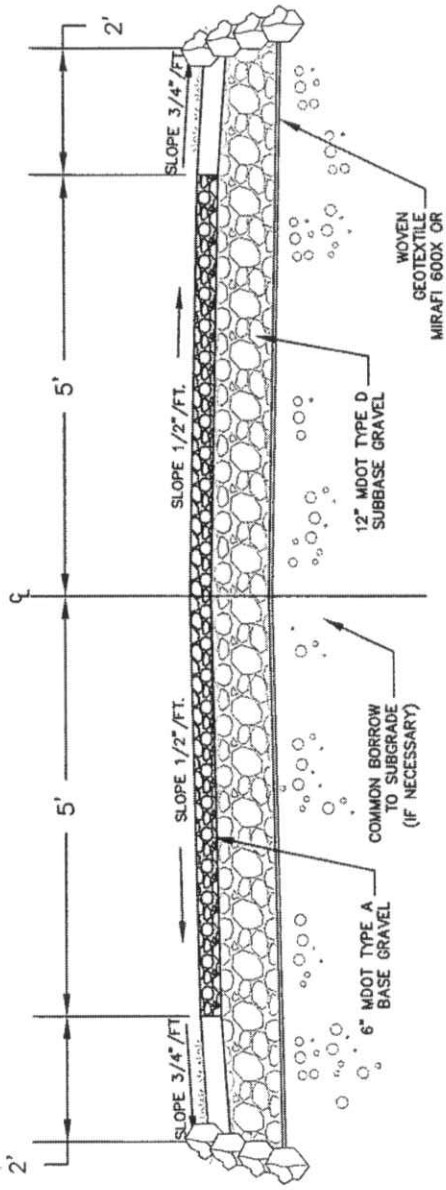
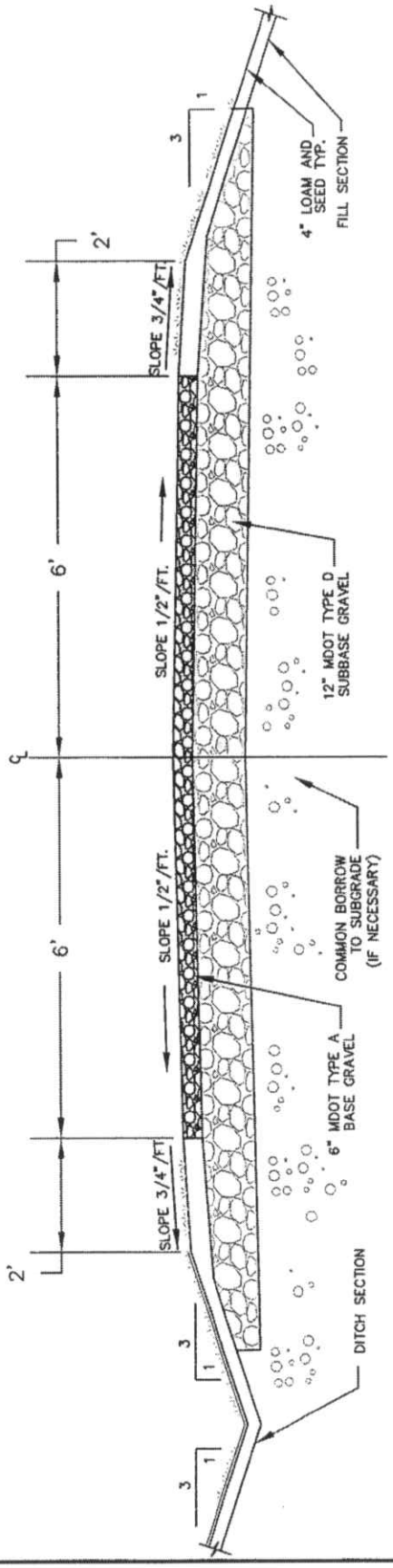
GARY & KATHRYN SIMEL
NRPA TIER 2 PERMIT APPLICATION - IMPACT PLAN
CUSHING, MAINE

SCALE: 1"=30' | OCTOBER 2010



TYPICAL 10' DRIVEWAY SECTION AT WETLAND CROSSING

NOT TO SCALE



TYPICAL 12' DRIVEWAY SECTION

NOT TO SCALE

STATE OF MAINE
THOMAS A. FOWLER
No. 10449
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10/7/10

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GARY & KATHRYN SIMEL
NRPA TIER 2 PERMIT APPLICATION - TYPICAL SECTIONS
CUSHING, MAINE

SCALE: NOT TO SCALE | OCTOBER 2010

EROSION & SEDIMENTATION CONTROL NOTES

IN ORDER TO PROTECT THE SOIL AND WATER RESOURCES OF THIS PROJECT AND ADJACENT LANDS, THE FOLLOWING ACTIONS WILL BE TAKEN:

A. EROSION CONTROL/TEMPORARY MEASURES

THE FOLLOWING TEMPORARY MEASURES TO CONTROL EROSION AND SEDIMENTATION SHALL BE USED.

1. SILT FENCE OR WOOD WASTE COMPOST/BARK FILTER BERM SHALL BE INSTALLED AROUND THE LIMITS OF SITE DISTURBANCE. THESE TWO SEDIMENTATION CONTROL DEVICES CAN BE USED INTERCHANGEABLY ON THIS SITE. SILT FENCE SHALL REMAIN IN PLACE UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED. SILT FENCING WILL BE INSTALLED TO SPECIFICATIONS OUTLINED IN THE MAINE EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR CONSTRUCTION: BEST MANAGEMENT PRACTICES.

2. EACH GROUND AREA, OPENED OR EXPOSED, WHETHER DIRECTLY OR INDIRECTLY DUE TO THE PROJECT CONSTRUCTION, SHALL BE MINIMIZED AND SHALL BE STABILIZED WITHIN 7 DAYS OF THE LAST WORKING OF THE MINERAL SOIL, AND SHALL BE PERMANENTLY STABILIZED WITHIN 7 DAYS OF FINAL GRADING.

3. TEMPORARY SOIL STABILIZATION SHALL BE EITHER BY TEMPORARY MULCHING, TEMPORARY SEEDING, OR PERMANENT BASE GRAVEL, AS FOLLOWS:

TEMPORARY SEEDING
SEED SHALL BE ANNUAL RYE APPLIED AT 2.60#/1000SF. LIME SHALL BE AGRICULTURAL GROUND LIMESTONE APPLIED AT 13.8#/1000SF. FERTILIZER SHALL BE 10-10-10 CLASSIFICATION APPLIED AT 13.8#/1000SF. MULCH SHALL CONSIST OF HAY OR STRAW MULCH AND SPREAD EVENLY AT A RATE OF 70-90#/1000SF. TEMPORARY SEEDING SHALL ONLY BE MADE BETWEEN APRIL 15TH AND OCTOBER 15TH, AND SHALL NOT BE PLACED OVER SNOW. IF THE SEEDING IS NOT COMPLETED BY OCTOBER 15TH, ADDITIONAL MULCH SHALL BE ADDED TO PROVIDE ADEQUATE WINTER PROTECTION. TEMPORARY SEED MAY BE APPLIED AS HYDROSEED PROVIDED THAT SEED, LIME, FERTILIZER, AND MULCH ARE APPLIED AT SPECIFIED RATES.

TEMPORARY MULCHING
MULCH SHALL CONSIST OF CHOPPED HAY OR STRAW MULCH AND SPREAD BY MECHANICAL BLOWER OR BY HAND EVENLY AT A RATE OF 150-200#/1000 SF. TEMPORARY MULCH SHALL BE REMOVED PRIOR TO PERMANENT SOIL STABILIZATION. MULCH MUST NOT BE PLACED OVER SNOW.

PERMANENT BASE GRAVEL
BASE GRAVEL ON DRIVEWAY SHALL BE SUITABLE AS TEMPORARY SOIL STABILIZATION UNDER THE FOLLOWING CONDITIONS:
A. SLOPES SHALL BE LESS THAN 5 PERCENT
B. GRAVEL SHALL BE SUITABLE FOR DRIVEWAY SURFACE APPLICATION.

B. EROSION CONTROL/PERMANENT CONSERVATION MIX SEEDING MEASURES

1. LOAM FOR GRASS AREAS SHALL CONTAIN 75% SCREENED TOPSOIL AND 25% ORGANIC COMPOST. SOIL SHALL BE WELL BLENDED PRIOR TO INSTALLATION. ALL VEGETATED AREAS TO RECEIVE LOAM AT A DEPTH OF 4".

2. PERMANENT SEEDING SHALL BE PERFORMED DURING CONSTRUCTION OPERATIONS AS EACH DISTURBED AREA HAS BEEN BROUGHT TO FINISH GRADE.

3. THE CONTRACTOR SHALL MAINTAIN THE SEEDED AND MULCHED AREAS UNTIL FINAL ACCEPTANCE OF THE WORK BY THE OWNER. MAINTENANCE SHALL CONSIST OF PROVIDING PROTECTION AGAINST TRAFFIC AND REPAIRING ANY AREAS DAMAGED DUE TO WIND, WATER, EROSION, FIRE OR OTHER CAUSES. SUCH DAMAGED AREAS SHALL BE REPAIRED TO RE-ESTABLISH THE CONDITION AND GRADE OF THE SOIL PRIOR TO SEEDING AND SHALL THEN BE RE-FERTILIZED, RE-SEEDED AND RE-MULCHED.

STATE OF MAINE
THOMAS A. FOWLER
No. 10449
LICENSED
PROFESSIONAL ENGINEER
10/7/10

LANDMARK CORPORATION
SURVEYORS & ENGINEERS
219 MEADOW STREET ROCKPORT, MAINE 04856 PHONE: (207) 236-6757 WWW.LANDMARKMAINE.COM

GARY & KATHRYN SIMEL
NRPA TIER 2 PERMIT APPLICATION - EROSION NOTES
CUSHING, MAINE

NOT TO SCALE | OCTOBER 2010

GARY SIMEL
KATHRYN A. SIMEL
32 COZINE RD.
CENTER MORICHES, NY 11934-1202

1-2/210 44369

1603

DATE 11/21/10

PAY TO THE ORDER OF TREASURER, STATE OF MAINE $ 5,211 xx

FIVE THOUSAND - TWO HUNDRED AND ELEVAN xx DOLLARS

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