

EROSION AND SEDIMENTATION CONTROL PLAN

Temporary erosion and sediment control measures include the use of siltation berm, stabilized construction entrance, erosion control blanket, and permanent stabilization with vegetation. The applicant and applicant's contractor shall be responsible for the repair/replacement/maintenance of all erosion control measures until all disturbed areas are stabilized to the satisfaction of the Town and consulting landscape architect.

EROSION CONTROL NOTES:

It is anticipated that construction may begin as soon as possible, following receipt of necessary permits.

BMPs: All soil erosion and sediment control shall be done in strict accordance with the Maine Erosion and Sediment Control Handbook for Construction: Best Management Practices, Cumberland County Soil and Water Conservation District, Department of Environmental Protection, as currently revised.

Pre-Construction: Prior to beginning construction, a stone construction entrance and temporary silt berm shall be installed.
Silt Berm: recommended fencing for all silt berm installation is shredded bark mulch, 36" wide at base. Inspect weekly for continuous berm at edge of work area. Silt berm shall be inspected immediately after each rainfall and at least daily during prolonged rainfall. Any required repairs will be made immediately. Sediment deposits shall be periodically removed from the upstream side of the silt barriers. This sediment will be spread and stabilized in areas of the site not subject to erosion. Silt fence will be replaced as necessary to provide proper filtering action.

Vegetation Removal: Removal of sod, trees, bushes, and other vegetation and soil disturbance will be only as permitted by SOD standards. Grubbings, non-native invasive species removed from the site, and any usable topsoil shall be stripped and removed from the project site and disposed of in an approved manner.

Grading Operations: General temporary diversion berms and drainage swales shall be constructed as necessary. The site shall be brought to approximate finish grades and stabilized without extended delays. Stabilization includes the application of erosion control blanket or mulch to all surfaces designated to be revegetated; construction of entrance road. Silt fence and other erosion and sediment control measures shall be installed and/or adjusted to suit construction immediately after a cut or fill slope has been formed. After initial disturbance, exposure the following erosion control measures will be undertaken:

- fill slopes, perimeter disturbance, and completed cuts: shall be rough graded, and covered with a heavy application of mulch prior to any significant rainfall event and/or at least weekly whether finished or not.
- Uncompleted cuts: shall be rough graded to drain to other erosion control measures prior to any significant rainfall event.
- Building areas and areas receiving surfacing: shall be graded to direct runoff to other erosion control measure at all times.
- Refer to the Construction Sequence for additional erosion and sedimentation control specifications.
- Areas which are to be built upon or surfaced, or areas to be vegetated which have not been stabilized prior to the end of seeding season, shall receive a thick layer of hay mulch (2 tons/acre) to protect the surface during spring rainfall conditions. A suitable binder such as Curazol or Terraclad shall be used to secure the hay mulch.

Loam and Seeding: Immediately following final grading all graded or disturbed areas not to be built upon or surfaced otherwise shall be covered with a minimum depth of 3" topsoil and seeded to establish permanent vegetative cover. Seeding recommendations:

- Dates: 4/1-9/15, inclusive
- Seed mix: Fescue 30%, Bluegrass 40%, Ryegrass 0%
- Fertilizer: Nitrogen 10%, Phosph. 10%, Potash 10%
- Application rates:
Seed 45 lbs/acre
Fertilizer 800 lbs/acre
Mulch: 2 tons/acre
Lime: 3 tons/acre
- if germination is unsuccessful (less than 75% catch) within 30 days of seeding or if there is unsatisfactory growth in the next year, the applicant shall reseed the area in accordance with the above specifications.

Erosion Control Blanket: Recommended erosion control blanket for all blanket installation is North American Green, C350 Three Phase Erosion Control / 1st Reinforcement Matting, or eq. Mulching or installation of erosion control blanket shall be done in conjunction with ALL seeding. Immediately after seedbed preparation, liming, fertilization and seeding, hay or wood fiber cellulose shall be spread uniformly. The mulch may be anchored in place by uniformly applying an acceptable mulch binder.

Winter Conditions: Silt fence: for frozen ground or the presence of large roots or stones, in lieu of providing the 4x4 trench the bottom 8"-12" of silt fence fabric may be laid on existing grade and backfilled with stone anchoring material, as shown on the drawing.

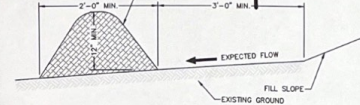
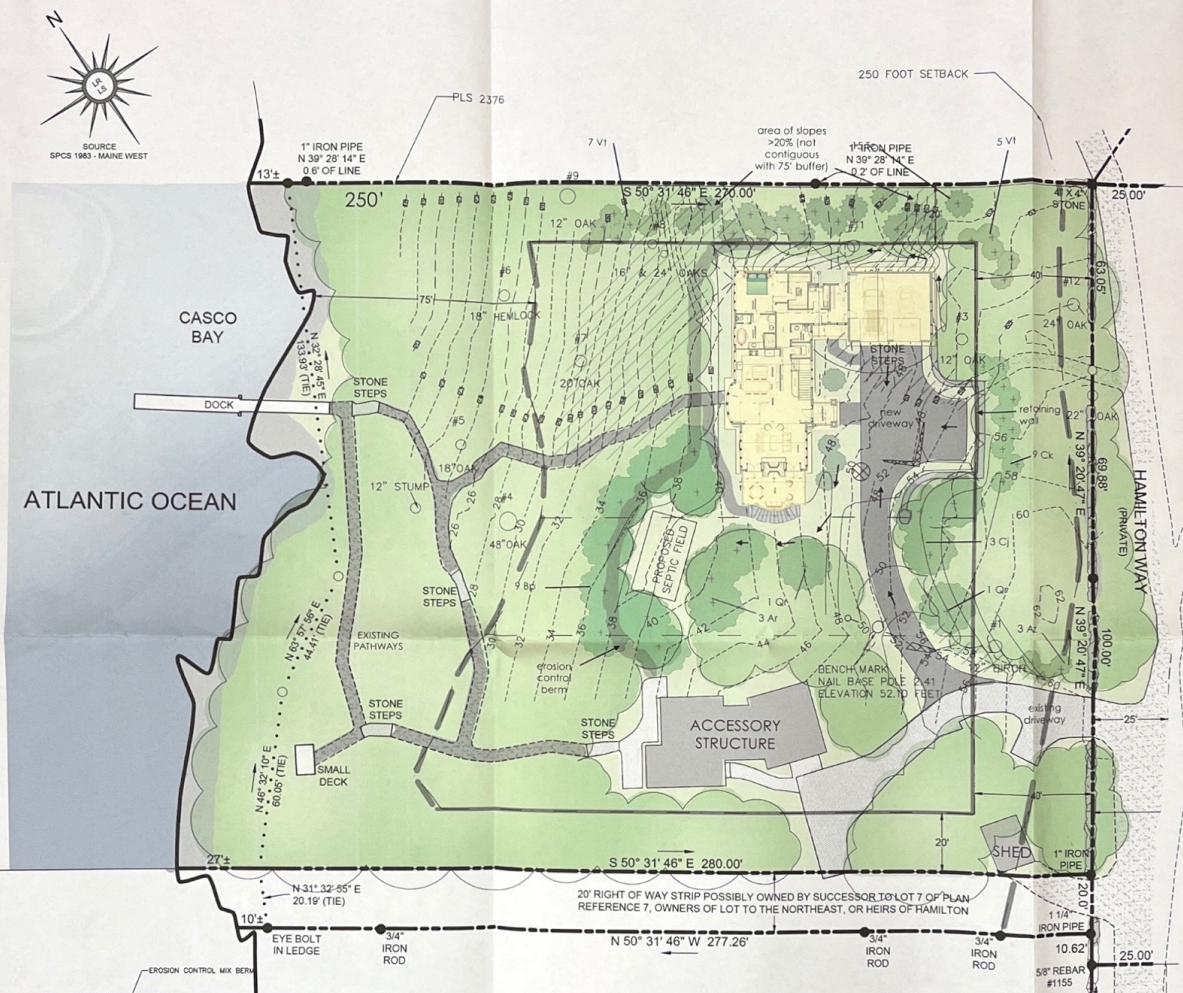
CONSTRUCTION SEQUENCE

General:

The project will be accessed from Yarmouth Maine existing roads.

Approximate Sequence of Operations:

- Clearing of area for driveway, preliminary grading, and culverts installed as shown.
- Installation of temporary stone entrance structure on new and old drive entrances.
- Silt berms installed.
- Vegetation cleared and removed as shown, stumps removed
- Earthwork for house foundations
- Construction of forms and pouring of concrete
- Backfill of forms, stabilization of all open areas as described above.
- House relocation, connections to existing or new well and septic system construction
- Final grading of disturbed areas, loam and seed.
- Installation of buffer planting areas as shown.
- Erosion and sedimentation control measures shall be maintained until all areas not prone to erosion, loamed and seeded, and the devices will be removed and disposed of properly.
- Water will be applied to the seeded areas as necessary depending on prevailing weather conditions, to establish a stable turf within the growing season.



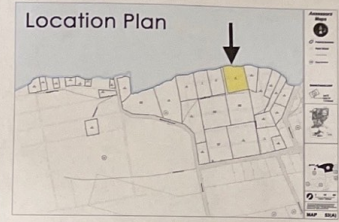
- NOTES:**
- THE EROSION CONTROL MIX BERM SHALL CONSIST PRIMARILY OF ORGANIC MATERIAL INCLUDING SHREDDED BARK, STUMP GRINDINGS, COMPOSTED BARK, OR ACCEPTABLE MANUFACTURED PRODUCTS. WOOD OR BARK CHIPS, GRASS, CONSTRUCTION DEBRIS, REPRODUCED WOOD PRODUCTS, REFUSE, PHYSICAL CONTAMINANTS, OR MATERIALS TOXIC TO PLANT GROWTH ARE NOT ACCEPTABLE.
 - THE MIX SHALL CONFORM TO THE FOLLOWING STANDARDS:
 A. ORGANIC MATERIAL: 80% TO 100% (BY WEIGHT)
 B. PARTICLE SIZE BY WEIGHT: 100% PASSING #4 SCREEN, 70%-80% PASSING #20 SCREEN
 C. ORGANIC CONTENT SHALL BE FIBROUS AND ELONGATED
 D. NO STONES LARGER THAN 4" IN DIAMETER
 E. NO LARGE PORTIONS OF SILTS, CLAYS, OR FINE SANDS
 F. SOIL SALTS CONTENT SHALL BE LESS THAN 4.0 meq/100g/cm
 G. pH SHALL BE BETWEEN 5.0 AND 8.0
 - THE COMPOSTED BERM SHALL BE PLACED, UNCOMPACTED, ALONG A RELATIVELY LEVEL CONTOUR.

EROSION CONTROL MIX BERM

NO SCALE

Revegetation and Buffer Plantings

Sym. #	Size	Name
Ar 3	1-1/2" cal	Acer rubrum / Red Maple
Az 3	3-4"	Azalea arborescens / Native Azalea
Bp 9	10-12"	Betula papyrifera / White Birch
Cj 3	6-7"	Cercidiphyllum japonicum / Katsura
Ck 9	3-4" ht	Cornus kousa / Kousa Dogwood
Qr 2	1-1/2" cal	Quercus rubra / Red Oak
Tc 15	6-7" ht	Tsuga canadensis / Hemlock
Vt 12	3-4 ht.	Viburnum plicatum trilobum / Doublefile Viburnum



Shoreland Calculations

Total Lot Area	66,135 sf
0-75' area	17,475 sf
75-250' area	47,090 sf
Lot in SZ	64,565 sf

Non-Vegetated Cover

	existing	new	total
Driveway	1,450	2,020	3,470
Walks/Patios	655	600	1,255
House	1,395	2,950	4,345
	3,500	5,570	9,070
% of SZ	5.4%	8.6%	14%

Vegetation Clearing in 75-250' zone

	existing	new	total
opening	6,800	9,200	16,000
% of all SZ	10.53%	14.25%	24.78%
volume in 75'-250'	14.44%	19.54%	33.97%
volume in 0-75'	0%	0%	0%

Zone: LDR with Shoreland Overlay

Tax Map ID	Map 53, Lot 29
Lot area:	66,135 sf
Setbacks:	20' side 40' front 75' water
Water Front	238.39'
Frontage on Road	232.93'

NOTE:
 See Little River Survey Retracement Survey rev. 12.19.2019 for plan references, sources, and deed notes.

Site Plan 60 Hamilton Way Yarmouth Maine

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scale: 1"=20'