

- NOTES:**
- 1) THIS PLAN DOES NOT SHOW ANY UNRECORDED OR UNWRITTEN EASEMENTS WHICH MAY EXIST. A REASONABLE AND DILIGENT ATTEMPT HAS BEEN MADE TO OBSERVE ANY APPARENT VISIBLE USES OF THE LAND; HOWEVER, THIS DOES NOT CONSTITUTE A GUARANTEE THAT NO SUCH EASEMENTS EXIST.
  - 2) THIS PARCEL LIES WITHIN AN AE (ELEVATION 6) FLOOD ZONE, SEE F.I.R.M. COMMUNITY PANEL 330146 0340 E MAP REVISED DATE SEPTEMBER 30, 2015.
  - 3) ELEVATIONS SHOWN HEREON ARE BASED ON THE N.G.V.D. 1929.

**SEALED SURFACE CALCULATIONS**

33,263 S.F. OF THIS LOT LIES WITHIN 250' OF NHDES SHORELAND JURISDICTION

	EXISTING	PROPOSED	POST CONSTRUCTION
SHED	126 S.F.	N/A	126 S.F.
DWELLING	1,957 S.F.	768 S.F.	2,725 S.F.
PAVEMENT	1,897 S.F.	N/A	1,897 S.F.
STONE DRIVEWAY	874 S.F.	N/A	874 S.F.
WALLS	18 S.F.	N/A	18 S.F.
WALKWAY/STEPS	152 S.F.	-71 S.F.	** 81 S.F.
TOTAL AREA	5,024 S.F./15.1%	854 S.F.	5,736 S.F./17.2%

\*\* A PORTION OF THE EXISTING WALKWAY IS TO BE REMOVED

**WETLANDS DELINEATION BY**  
 SERGIO BONILLA  
 CERTIFIED WETLAND  
 SCIENTIST (CWS) #261  
 P.O. BOX 4028  
 PORTSMOUTH, NH 03802  
 ON 12-13-2017

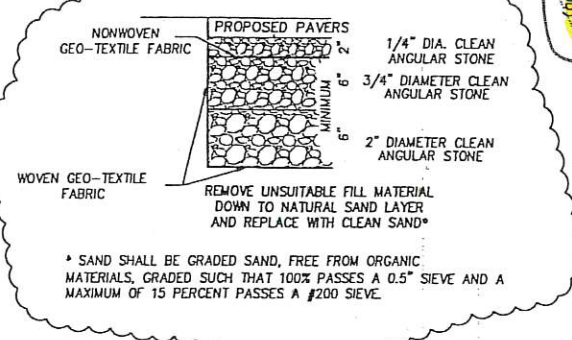
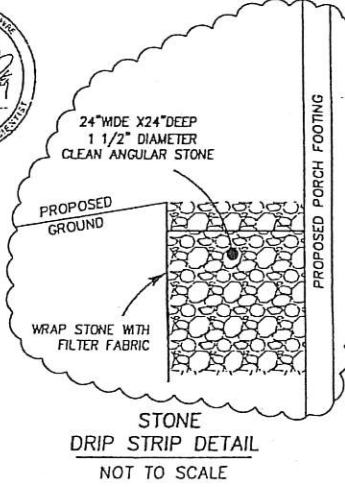
IN ACCORDANCE WITH THE REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST REGION (VERSION 2-TR-12-1, JANUARY 2012, AND THE TOWN OF DURHAM ZONING ORDINANCE, ARTICLES XIII AND XIV.

**LEGEND**

- I.P. IRON PIPE
- I ROD IRON ROD
- FND. FOUND
- ○ ASSESSORS MAP AND PARCEL
- ○ UTILITY POLE
- OHW --- OVER HEAD WIRE
- WETLAND
- W3 WETLAND FLAG
- 13 --- EXISTING CONTOUR ELEVATION
- --- EXISTING TREE LINE (INTERPOLATED FROM 2018 GOOGLE EARTH AERIAL)
- --- EXISTING EDGE OF GROUND COVER (INTERPOLATED FROM 2018 GOOGLE EARTH AERIAL)
- --- TEMPORARY IMPACT AREA
- --- BUFFER VEGETATION ENHANCEMENT AREA
- P1 PHOTO

**PAVER MAINTENANCE NOTE**

REGULAR CLEANING WILL HELP MAINTAIN A HIGH ENOUGH SURFACE INFILTRATION RATE TO SOAK THROUGH THE JOINTS. AT LEAST ONE INSPECTION AND CLEANING SHOULD BE PERFORMED DURING THE FIRST YEAR OF SERVICE AND THEREAFTER AS REQUIRED. CLEANING IS RECOMMENDED WHEN THE SURFACE INFILTRATION RATE IS LESS THAN 9.8"/HR OR 99% CLEANING CAN BE DONE WITH A VACUUM ADJUSTED TO MINIMIZE THE REMOVAL OF JOINT MATERIAL. IN WINTER, SNOW REMOVAL CAN BE DONE AS FOR ANY OTHER TYPE OF PAVING, BUT IT IS STILL RECOMMENDED THAT SNOW REMOVAL BLADES BE COVERED WITH A PROTECTIVE COATING AND RAISED 1". SEGMENTAL PERMEABLE PAVEMENT REQUIRE LESS DE-ICING MATERIAL THAN CONVENTIONAL PAVEMENT. SINCE MELTED WATER DOES NOT ACCUMULATE. IT WILL NOT RE-FREEZE ON THE SURFACE. IT IS NOT RECOMMENDED TO SPREAD SAND FOR TRACTION, AS THIS MAY CLOG THE JOINTS. INSTEAD, SPREAD THE SAME AGGREGATE USED FOR FILLING JOINTS.

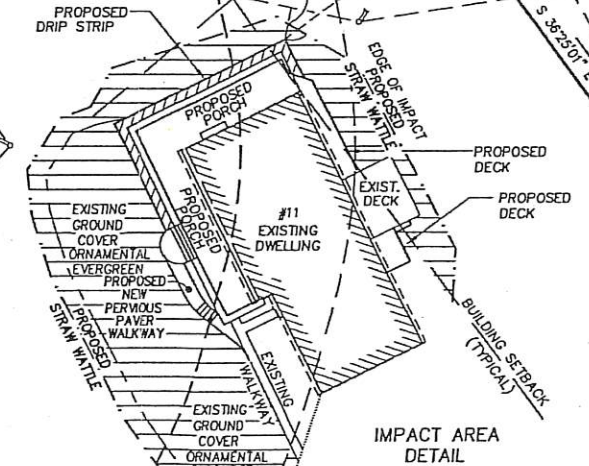


\* "TECHO-BLOC" PAVERS. REFER TO MANUFACTURERS SPECIFICATIONS AND INSTALLATION GUIDELINES PROVIDED HEREWITH.

**PROPOSED DWELLING INFILTRATION NOTE**

STONE INFILTRATION DRIP STRIPS ARE TO BE PLACED AT NEW PROPOSED PORCH WHERE APPROPRIATE TO RECEIVE ROOF RUNOFF. SEE DETAIL ABOVE. THESE DRIP STRIPS ARE TO BE INSPECTED TWICE PER YEAR (SPRING & FALL) AND MAINTAINED BY REMOVING ANY DEBRIS AND VACUUMING.

SEE BUILDING PLANS FOR DIMENSIONS AND DETAILS



**IMPACT AREAS**

AREA WITHIN 100' TIDAL BUFFER ZONE		AREA WITHIN 100' FRESH WATER BUFFER	
TEMPORARY (HATCHED)	1,864 S.F.	TEMPORARY (HATCHED)	3,407 S.F.
NEW PERMANENT	768 S.F.	NEW PERMANENT	1,072 S.F.
TOTAL IMPACT	2,632 S.F.	TOTAL IMPACT	4,479 S.F.

INCLUDES TIDAL BUFFER AREA AND PROTECTION OVERLAY DISTRICT

AREA WITHIN 125' PROTECTION OVERLAY DISTRICT		AREA OF SHORELAND IMPACT BEYOND 100' TIDAL BUFFER	
TEMPORARY (HATCHED)	2,906 S.F.	TEMPORARY (HATCHED)	1,494 S.F.
NEW PERMANENT	1,023 S.F.	NEW PERMANENT	304 S.F.
TOTAL IMPACT	3,929 S.F.	TOTAL IMPACT	1,798 S.F.

INCLUDES TIDAL BUFFER ZONE

**NATURAL WOODLAND BUFFER AREA**

AREA BETWEEN 50' AND 150' OF THE REFERENCE LINE	
VEGETATION	4,430 S.F.
LOT	15,667 S.F.
EXISTING %	28.3%

**PROPOSED CONDITIONS**

**SHORELAND/WETLAND PLAN**  
 IN  
**DURHAM, NH**

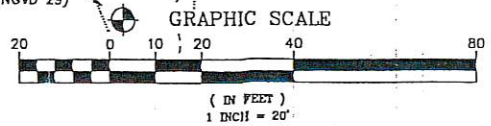
SHOWING  
 A PROPOSED ADDITION  
 AT 11 CEDAR POINT ROAD  
 (ASSESSORS MAP 12 LOT 1-25)

RECORD OWNERS  
 CHRISTOPHER J. & ANITA C. MIHOK  
 11 CEDAR POINT ROAD DURHAM, NH 03824

**MILLENNIUM ENGINEERING INC.**  
 ENGINEERS AND LAND SURVEYORS  
 P.O. BOX 745 13 HAMPTON ROAD EXETER, NH 03833  
 PHONE: (603) 778-0528 FAX: (603) 772-0689 WWW.MEI-NH.COM

SCALE: 1"=20' DRWN. BY: P.D.B. SHEET: 2 OF 2  
 DATE: MAR. 05, 2019 CHKD. BY: H.H.B. PROJECT: E172085

I CERTIFY:  
 THAT THIS ACTUAL SURVEY WAS MADE ON THE GROUND IN JANUARY OF 2018.  
 THAT THIS SURVEY CONFORMS TO THE REQUIREMENTS FOR ACCURACY FOR N.H. URBAN SURVEY.



NO.	DATE	DESCRIPTION	BY