



August 3, 2020

Mr. David Price
NH Department of Environmental Services Wetlands Bureau
Pease Office
222 International Dr., Ste. 175
Portsmouth, NH 03801

RE: Seacoast Reliability Project, Repair at Beswick Property, Newington (SEC Permit 2015-04; Corps Permit NAE-2015-00665)

Dear Dave,

This letter is following up on our letter dated July 2, 2020, in which we described a June 30 storm event that occurred soon after landscaping was completed at the Beswick property on Gundalow Landing in Newington. Some of the freshly installed loam and gravel, estimated to be approximately 4 cubic yards, was eroded during the intense rainfall and flowed onto the tidal flat. Almost all of the material was captured by the turbidity barrier currently installed in front of the toe of slope and was removed the next day, at the direction of Eversource and Normandeau. The landscaping contractors temporarily stabilized the site on July 1 while a more robust permanent solution was being developed. A draft final sketch was sent to your attention on July 10, followed by a site meeting on July 15. Based on that discussion, the sketch has been revised to address your comments, and is attached here.

In keeping with our permit conditions and approved design plans, the final design mimics pre-construction grades to the extent possible. The gravel path originally approved has been replaced with a subsurface gravel and stone drainage that collects water at the top of the slope via 8-foot wide granite curbing, and discharges water lower on the slope via 12-foot wide granite curbing. The curbing acts as a level spreader to diffuse flow through the system and onto the lower slope, which will act to slow water velocities prior to sheet flow on the grass slope above the bay. The approved and constructed stone swale and spreader will be extended approximately 20 feet to discharge parallel to the granite curbing, again to maximize sheet flow on the lower grassed slope. The subsurface swale will be top-dressed with 6 inches of loam and grassed. The portion of the gravel path below the granite curb will be removed and replaced with sod secured with a jute blanket to stabilize it until the roots establish. These two steps will result in an increased pervious surface compared to the gravel path proposed in the original restoration plan.

The toe of slope will be left in its current configuration, but re-shaped to add a second coir log at the bottom. The existing loam will be mixed with 6-inch angular stone to secure it better against wave action during extreme high tides. The goal is to provide a wave-resistant substrate that will contain enough loam to support plants tolerant of periodic inundation by seawater. These include species commonly found in the back of salt marshes in NH: bent grass (*Agrostis alba*), red festuca (*Festuca rubra*), prairie cordgrass (*Spartina pectinata*), switchgrass (*Panicum virgatum*) and seaside goldenrod (*Solidago sempervirens*). The bent grass and festuca will be applied as seed and secured with an erosion control blanket. The remaining species will be planted as plugs.

The work will be done under the supervision of the SRP Construction Representative and Environmental Monitor, and all necessary Best Management Practices will be employed. In an effort to complete restoration

activities in a timely manner, in consideration of the property owner, Rye Beach Landscaping would like to start work on the site in the coming weeks. Please let us know if you have any concerns about the final design by contacting Kurt Nelson (kurt.nelson@eversource.com, 603-634-3256) or me (sallen@normandeau.com, 603-637-1158).

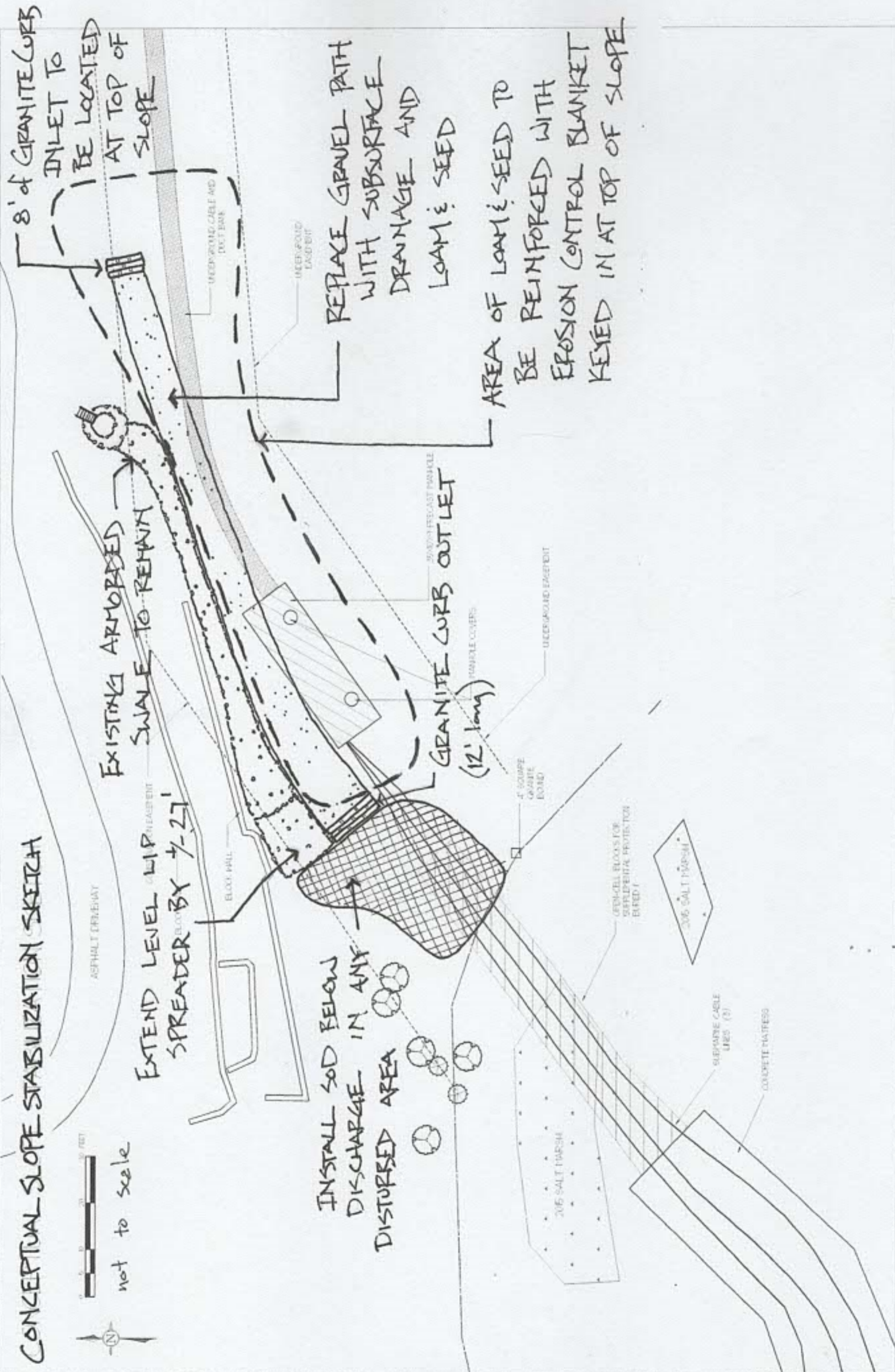
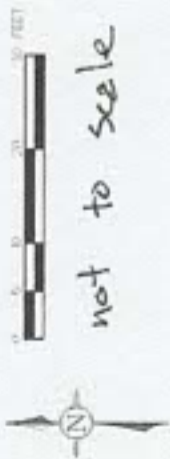
Sincerely,



Sarah Allen
Sr. Principal Scientist

cc:
Gregg Comstock (DES)
Lindsey Lefebvre (Corps of Engineers)
Pam Monroe (SEC)
Kurt Nelson (Eversource)
Dena Champy (Eversource)
Adam Dumville (McLane)

CONCEPTUAL SLOPE STABILIZATION SKETCH



8' of GRANITE CURBS INLET TO BE LOCATED AT TOP OF SLOPE

REPLACE GRAVEL PATH WITH SUBSURFACE DRAINAGE AND LOAM & SEED

AREA OF LOAM & SEED TO BE REINFORCED WITH EROSION CONTROL BLANKET KEYED IN AT TOP OF SLOPE

EXISTING ARMORED SWALE TO REMAIN

EXTEND LEVEL RIP HEADS BY 7-27' SPREADER

INSTALL SOD BELOW DISCHARGE IN ANY DISTURBED AREA

GRANITE CURB OUTLET (12' long) PARALLEL CURBS

GEN-CEL BLOCKS FOR SUPPLEMENTAL PROTECTION ERECT

SEWAGE CABLE LIES (3) CONCRETE MATRESS

206 SALT MARSH

206 SALT MARSH

ASPHALT DRIVEWAY

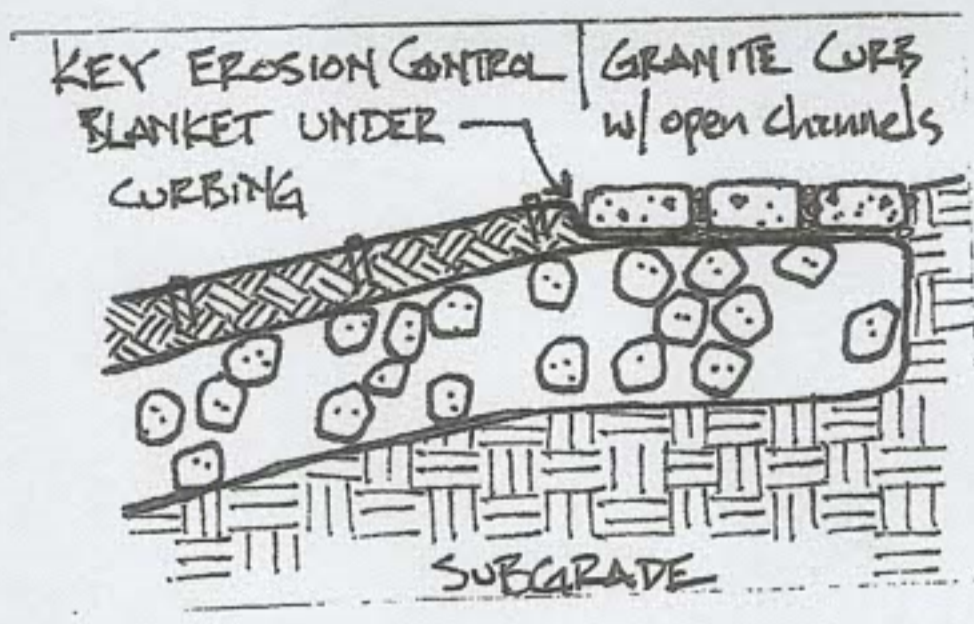
BLOCK WALL

DEEP POUD FAGEMENT

DEEP POUD FAGEMENT

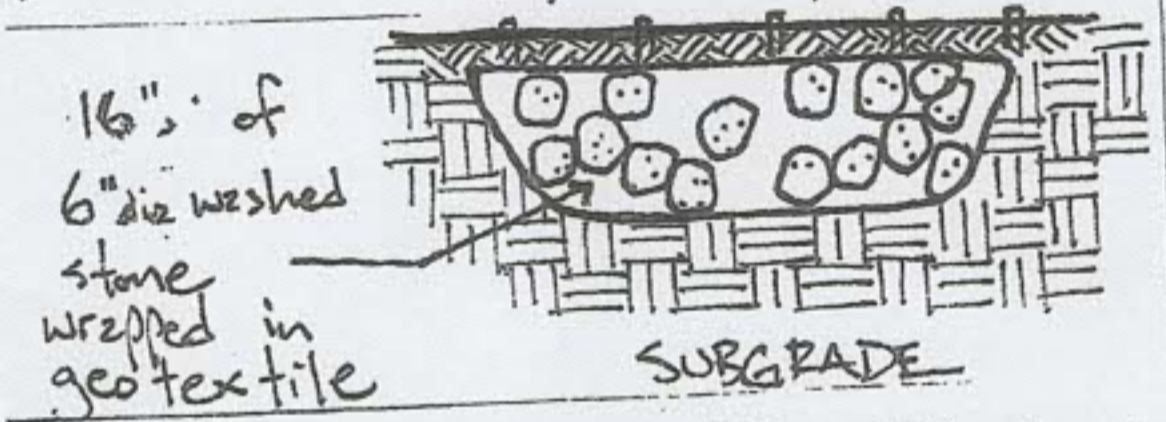
USE PRECAST PARALLEL CURBS

4 SQUARE GRANITE BOARD

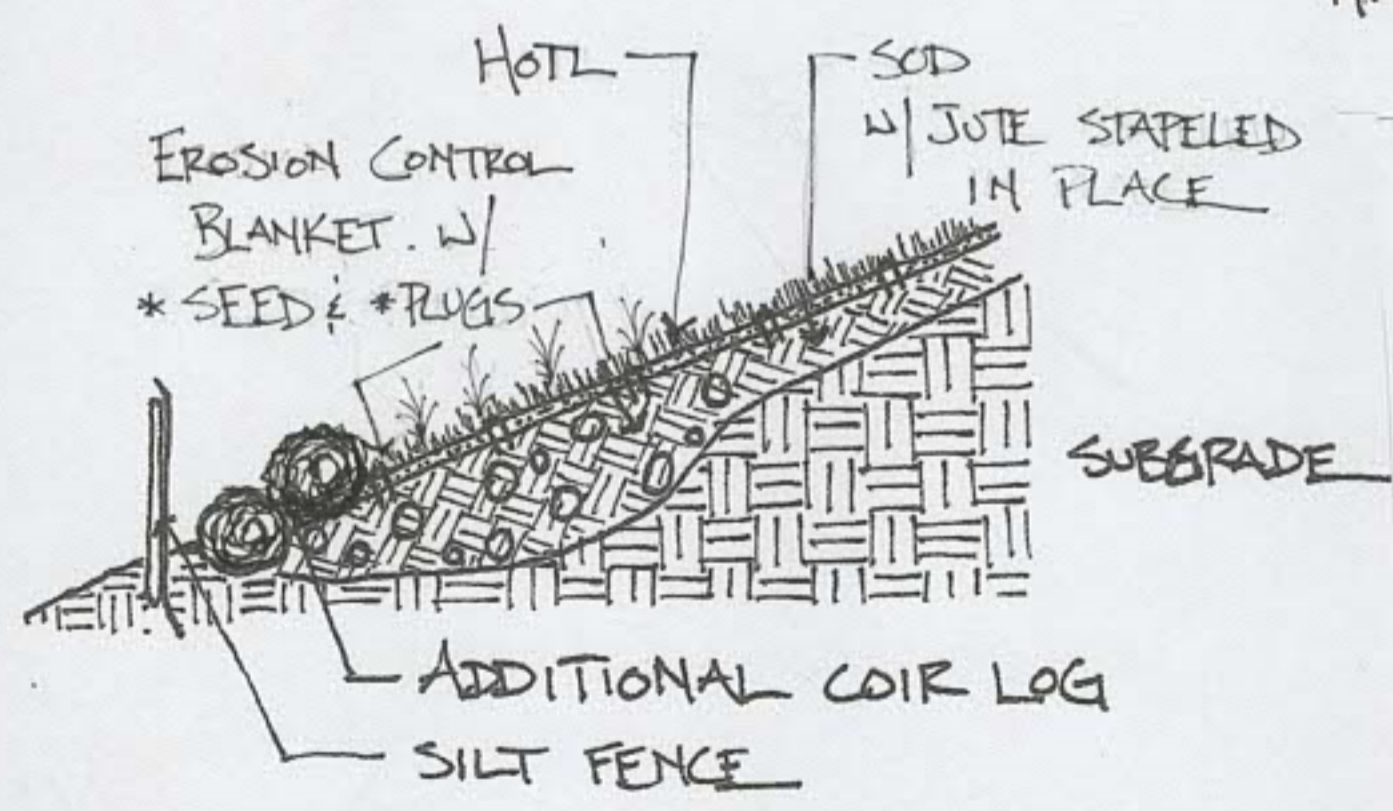


GRANITE CURB INLET
CROSS-SECTION
N.T.S.

6" SEED & LOAM - with
erosion control blanket
stapled in place



SUBSURFACE DRAINAGE
CROSS-SECTION
N.T.S.



TOE OF SLOPE
CROSS-SECTION
N.T.S.

PROPOSED PLANTING
EXAMPLES

- * SEED BELOW HOTL:
 - Agrostis alba
 - Festuca rubra 'fallax'
 - Festuca rubra 'rubra'
- * PLUGS BELOW HOTL:
 - Spartina pectinata
 - Penicum virginicum