



SITE ENGINEER:  
  
 CIVIL ENGINEERING ASSOCIATES, INC.  
 10 MANSFIELD VIEW LANE, SOUTH BURLINGTON, VT 05403  
 802-864-2323 FAX: 802-864-2271 web: www.cea-vt.com

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 DRAWN: SAL  
 CHECKED: DSM  
 APPROVED: DSM

OWNER:  
**HAYSTACK CROSSING, LLC**  
 c/o JOSEPH BISSONETTE  
 68 RANDALL STREET  
 SOUTH BURLINGTON, VT 05403  
 APPLICANT:  
**BLACKROCK CONSTRUCTION, LLC**  
 68 RANDALL STREET  
 SOUTH BURLINGTON, VT 05403

PROJECT:  
**HAYSTACK CROSSING**  
 SHELburnE FALLS ROAD  
 VERMONT ROUTE 116  
 HINESBURG, VERMONT 05461

DATE	CHECKED	REVISION
11/22/19	DSM	TOWN RESUBMITTAL
1/10/20	DSM	UPDATE PER TOWN COMMENTS
12/22/21	DSM	UPDATE PER STATE COMMENTS
3/4/22	DSM	REV. PER CONDITIONS OF APPROVAL

## GRAVEL WETLAND DETAILS

DATE: OCT. 4, 2019  
 SCALE: AS SHOWN  
 PROJ. NO.: 13127  
 DRAWING NUMBER: **C9.10**

SEED MIX SHALL BE OBTAINED FROM THE FOLLOWING VENDOR, OR SUBSTITUTE SUBJECT TO ENGINEER APPROVAL  
 VERMONT WETLAND PLANT SUPPLY, LLC  
 P.O. BOX 153  
 ORWELL, VT 05760  
 TELEPHONE: 802-948-2553  
 FAX: 802-948-2522  
 CELL: 802-989-4529  
 DREDONDO@VERMONTWETLANDPLANTS.COM

SEED MIX:  
 BROADCAST "DETENTION BASIN/WET MEADOW SEED MIX" IN WETLAND AREAS COVERING BASE UP TO BERM HEIGHT AT A RATE OF 35 LBS PER ACRES, 1 LB PER 1,200 S.F. BROADCAST TURF GRASS ALONG SLOPES OUTSIDE OF WETLANDS.

SPECIES COMPOSITION:  
 PANICUM VIRGATUM, ELYMUS VIRGINIUS, FESTUCA RUBRA, CAREX VULPINOIDEA, CAREX SCOPARIA, SCIRPUS CYPERINUS, SCIRPUS ATROVIRENS, BIDNES CERNUA, EUPATORIUM EFFOLIATUM, EUPATORIADELPHUS MACULATUS, JUNCUS EFFUSUS, ONCCLEA SENSIBILIS, VERBENA HASTATA, SYMPHYOTRIOHUM NOVA-ANGLIAEA

\* WOODY VEGETATION MAY NOT BE PLANTED OR ALLOWED TO GROW ON A DAM, WITHIN 15 FEET OF A DAM OR TOE OF THE EMBANKMENT, OR WITHIN 25 FEET OF A PRINCIPAL SPILLWAY OUTLET.

WETLAND SOIL SHALL BE POORLY DRAINED SOIL WITH A MEDIAN PARTICLE SIZE (D50) OF 0.15 MM AND IS A CLAY OR SILT LOAM IN THE USDA SOIL TEXTURAL TRIANGLE.  
 SURFACE INFILTRATION RATES OF WETLAND SOIL SHOULD BE SIMILAR TO A LOW HYDRAULIC CONDUCTIVITY WETLAND SOIL (0.1-0.01 FT/DAY).  
 WETLAND SOIL SHALL BE FREE OF CLAY CONTENTS IN EXCESS OF 15%, STONES, STUMPS, ROOTS, REFUSE, HARD DIRT, STIFF CLAY, OR OTHER SIMILAR OBJECTS LARGER THAN TWO INCHES. THE ORGANIC PORTION SHALL CONSTITUTE 15-20% OF THE MIXTURE. ANIMAL OR POUITRY MANURE, AT ANY STAGE OF DECOMPOSITION, SHALL NOT BE ACCEPTABLE.

NO OTHER MATERIALS OR SUBSTANCES SHALL BE MIXED OR DUMPED WITHIN THE GRAVEL WETLAND AREA THAT MAY BE HARMFUL TO PLANT GROWTH, OR PROVE A HINDRANCE TO THE PLANTING OR MAINTENANCE OPERATIONS. THE PLANTING SOIL SHALL BE FREE OF NOXIOUS WEEDS.  
 ONSITE EXCAVATED SOIL MATERIALS MAY BE ACCEPTABLE PROVING SPECIFICATIONS ARE MET.

THE PROPOSED PARTICLE SIZE DISTRIBUTION (PSD) FOR WETLAND SOIL IS AS FOLLOWS:

SIEVE SIZE (IN.)	PERCENTAGE PASSING BY WEIGHT
0.5	100%
NO. 10	75-90%
NO. 100	40-50%
NO. 200	25-50%