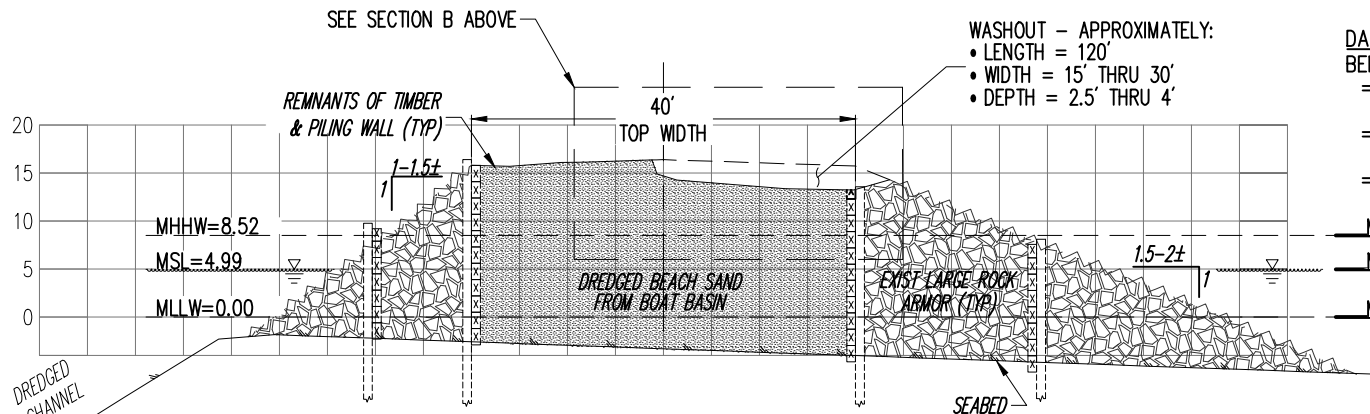


B
2 **REPAIR SECTION B**
SCALE: 1" = 5' ± (H&V)

NOTES:

1. GEOTEXTILE SHALL BE NON-WOVEN, HIGH SURVIVABILITY PER WSDOT 9-33.2(1), TABLE 3, FOR SOIL STABILIZATION.
2. PERMEABLE BALLAST SHALL BE PER WSDOT 9-03.9(2). GRADATION FOLLOWS:
 - 2½" - 100% PASSING
 - 2" - 65 TO 100%
 - 3/4" - 40 TO 80%
 - NO 4 - 5% MAX
3. QUARRY SPALLS SHALL BE PER WSDOT 9-13.6. GRADATION FOLLOWS:
 - 8" - 100% PASSING
 - 3" - 40% MAX PASSING
 - 3/4" - 10% MAX PASSING
4. ROCK FILL AND ARMORING SHALL BE PER WSDOT 9-13.7. APPROXIMATE WEIGHT AND SIZES FOLLOW:
 - 3 MAN ROCK - 700 TO 2000 POUNDS WITH AVERAGE DIMENSIONS OF 28" TO 36"
 - 4 & 5 MAN ROCK - 2000 TO 6000 POUNDS WITH AVERAGE DIMENSIONS OF 36" TO 54"
5. APPROXIMATE QUANTITIES:
 - EXCAVATE & SPREAD SAND 250-CY
 - GEOTEXTILE 650-SY
 - PERMEABLE BALLAST 150±TON
 - QUARRY SPALLS 300-TON
 - 3 MAN ROCK 750-TON
 - 4 & 5 MAN ROCK 500-TON
6. EXCAVATED SAND SHALL BE SPREAD ON TOP OF THE BREAKWATER WORK AREA. THE SAND SHALL BE MOUNDED ON THE 3 MAN ROCKS TO ACCOMMODATE EVENTUAL SETTLEMENT INTO THE ROCK VOIDS. (AN APPROXIMATE VOLUME OF 250 CY WILL REQUIRE AN AREA 30' WIDE X 225' LONG X 1' DEEP.) ALL DISTURBED AREAS ON TOP OF THE BREAKWATER SHALL BE RE-VEGETATED WITH PLANTS SUITED TO THIS ENVIRONMENT UPON COMPLETION OF ALL OTHER WORK.



A
2 **SECTION A**
SCALE: 1" = 20' ± (H&V)

WASHOUT - APPROXIMATELY:
 • LENGTH = 120'
 • WIDTH = 15' THRU 30'
 • DEPTH = 2.5' THRU 4'

DATUM REFERENCE:

BENCH MARK "R 257 1944"; EPOCH 1983-2001
 =PID# "TR0559" @ 19.22 NAVD-88, SUPERCEDES
 19.25 NAVD-88, NATIONAL GEODETIC SURVEY
 =VM# "1123" @ 20.33 ABOVE MLLW OF MAP
 STATION 9444900, NOAA/NOS/CO-OPS
 = "RM1" @ 15.79 NGVD29, FEMA FIRM
 COMMUNITY PANEL # 53000700010B

MHHW=8.52 MHW=7.84
 MSL=4.99 NGVD29=4.79 MTL=5.17
 MLLW=0.00 NAVD88=1.11 MLW=2.49

DATUM EQUALITY REFERENCE
 ELEVATIONS IN FEET

REFERENCE: PORT OF PORT TOWNSEND
 APPLICANT: PORT OF PORT TOWNSEND
 PROPOSED: BREAKWATER REPAIR
 LOCATION: PORT TOWNSEND BOAT HAVEN
 PN: 957602301
 SHEET 2 OF 2 DATE: 9/29/16