



LEGEND

- FINISHED CONTOUR
- EXISTING CONTOUR
- EXISTING EELGRASS
- MEAN HIGHER HIGH WATER
- LIMITS OF CONSTRUCTION
- CHAIN LINK FENCE
- PILE
- UPLAND GRASS
- EXISTING RIPRAP
- REVETMENT STONE
- ARMOR STONE
- BEDDING STONE
- SHORELINE PROTECTION
- BEACH COMPATIBLE MATERIAL

- ### NOTES
- ONSITE SAND MATERIAL (FREE OF DEBRIS AND RIPRAP) OBTAINED FROM DEMOLITION OR DREDGING WORK MAY BE REUSED TO MEET THE FILL AREA GRADES AND SLOPES.
 - CONTRACTOR TO INSTALL 6' CHAIN LINK FENCING WITH NO TRESPASSING SIGN. COORDINATE WITH PORT. SEE SPECIFICATIONS FOR FENCE REQUIREMENTS.
 - NEW SHORELINE PROTECTION STONE SHALL MATCH AND GRADE INTO THE EXISTING RIPRAP SLOPE.
 - CONTRACTOR SHALL INSTALL PORT PROVIDED SIGNS AS DIRECTED BY THE PORT AND SHALL USE STAINLESS STEEL SCREWS.
 - CONTRACTOR SHALL PROTECT IN PLACE AND PROVIDE TEMPORARY OR PERMANENT SHORING AS NECESSARY TO SUPPORT TSUNAMI SIGNAL FOUNDATION.
 - NEW BREAKWATER PILES ARE BATTER PILES, TOP OF PILE SHOWN.
 - CONTRACTOR SHALL ADJUST LOCATION TEMPORARILY SHEET TO MINIMIZE EXCAVATION.

NORTH BREAKWATER ALIGNMENT TABLE

POINT ID	STATION	NORTHING	EASTING	DESCRIPTION
NB1	10+00.00	413161.14	1172318.38	START BREAKWATER ALIGNMENT
NB2	11+85.13	412976.76	1172301.70	BREAKWATER CHANGE IN DIRECTION
NB3	13+00.00	412984.03	1172187.06	END BREAKWATER ALIGNMENT

SOUTH BREAKWATER ALIGNMENT TABLE

POINT ID	STATION	NORTHING	EASTING	DESCRIPTION
SB1	0+00.00	413029.55	1172085.57	START BREAKWATER ALIGNMENT
SB2	0+50.00	412986.47	1172110.95	MID LANDING WALKWAY PLATFORM
SB3	1+78.63	412875.76	1172176.29	BREAKWATER CHANGE IN DIRECTION
SB4	3+00.00	412866.12	1172297.24	END BREAKWATER ALIGNMENT
SB5	0+50.00	412966.60	1172076.22	END RAMP

BREAKWATER PLAN
 0 20 40
 SCALE IN FEET

BID SET

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Client

PORT OF TOWNSEND

Rev	Date	Drawn	Description	PY	EE
0	5/18/22	TM	Bid Set	PY	EE

Douglas Edgecomb
 5/18/22
 Project Number: 507100339
 B/O: 11
 Total: 27

Designed	E. Edgecomb	Eng check	P. Yu
Drawn	T. Morrison	Coordination	T. Morrison
Dwg check	P. McLaughlin	Approved	E. Edgecomb
Scale at ANSI D	Status	Rev	Security
As Noted			
Drawing Number			

Title
 Point Hudson Marina
 Breakwater Replacement
 New Breakwater Plan