

SEC. 9 & 10, T. 30 N., R. 1 W., W.M.
WETLAND MITIGATION PLAN
DISCOVERY ROAD
BIKEWAY ROADWAY & SIDEWALK PROJECT
 JEFFERSON COUNTY
 PORT TOWNSEND, WA

CITY OF PORT TOWNSEND APPROVES THE PLANS AND SPECIFICATIONS

Steve King

Steve King, PE, Public Works Director

GENERAL CONDITIONS

1. A PRE-CONSTRUCTION MEETING SHALL BE HELD WITH THE CITY PRIOR TO THE START OF CONSTRUCTION.
2. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CITY OF PORT TOWNSEND STANDARDS, THE 2022 WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION, AND PROJECT SPECIAL PROVISIONS.
3. THE DESIGN SHOWN IS BASED UPON THE ENGINEER'S UNDERSTANDING OF THE EXISTING CONDITIONS. THE EXISTING CONDITIONS SHOWN ON THIS PLAN SET ARE BASED UPON SURVEY, PREPARED BY 1 ALLIANCE GEOMATICS SURVEYING. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING FIELD CONDITIONS PRIOR TO BIDDING THE PROPOSED WORK IMPROVEMENTS. IF CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER OR ENGINEER PRIOR TO INSTALLATION OF ANY PORTION OF THE WORK WHICH WOULD BE AFFECTED.
4. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON THE PROJECT SURVEY AND OTHER RECORDS OF UTILITIES. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING UNDERGROUND LOCATE AT 1-800-424-5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION WORK.
5. THE CONTRACTOR SHALL HAVE A COPY OF THE APPROVED PLANS AND PERMITS AT THE CONSTRUCTION SITE AT ALL TIMES.

FEDERAL-AID HIGHWAY PROGRAM STPUS-7627(001)
 PEDESTRIAN & BICYCLE SAFETY PROGRAM 2018
 TRANSPORTATION IMPROVEMENT BOARD 8-2-151(004)-1
 CITY WORK ORDER #1025, 6033, 7033, 8017

SHEET INDEX	
SHEET TITLE	SHEET DESCRIPTION
CV-01	COVER SHEET
MT-1	MITIGATION NOTES
MT-2	MITIGATION PLAN
MT-3	MITIGATION SPECIES LIST AND PLANT COUNT

CONSULTANTS

SCJ ALLIANCE
 8730 TALLON LANE NE, STE 200
 LACEY, WA 98516
 (360) 352-1465
 CONTACT: SCOTT SAWYER, P.E.

SURVEY:
 1 ALLIANCE GEOMATICS
 1261A 120TH AVE NE
 BELLEVUE, WA 98005
 (425) 598-2200
 CONTACT: DAVID A. PEEBLER, P.L.S.

OWNER/APPLICANT

CITY OF PORT TOWNSEND:
 250 MADISON STREET
 PORT TOWNSEND, WA 98368
 PH: (360) 379-4432
 CL: (360) 774-3017
 CONTACT: LAURA PARSONS, P.E.
 lparsons@cityofpt.us

UTILITIES

POWER:
 PUBLIC UTILITY DISTRICT (PUD) #1
 OF JEFFERSON COUNTY
 (360) 302-0467
 CONTACT: SCOTT BANCROFT
 sbancroft@jeffpud.org

PHONE:
 LUMEN
 (253) 313-3666
 CONTACT: RAY JONES
 raymond.c.jones@lumen.com

STORMWATER/WASTEWATER/STREET:
 CITY OF PORT TOWNSEND
 (360) 531-4029
 CONTACT: BRIAN REID
 breid@cityofpt.us

WATER:
 CITY OF PORT TOWNSEND
 (360) 301-1023
 CONTACT: RICH KIESEL
 rkiesel@cityofpt.us

CABLE:
 ASTOUND
 POWERED BY WAVE BROADBAND
 (360) 912-7092
 CONTACT: MIKE STURGEON
 mike.sturgeon@astound.com

(360) 381-5091
 MICHAEL SPEARS
 mspears@cityofpt.us

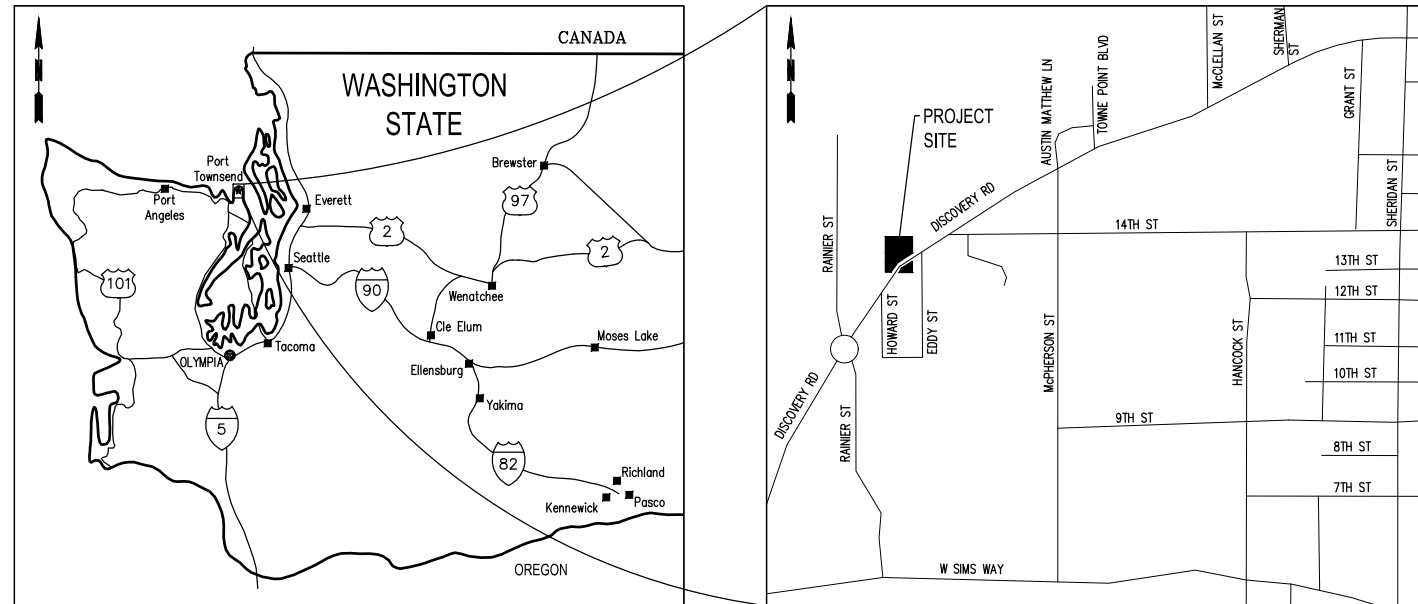
VERTICAL DATUM

VERTICAL DATUM: NAVD88
 (PORT TOWNSEND #0010951, ELEV = 256.47') FOUND MONUMENT IN CASE
 (PORT TOWNSEND #0011062, ELEV = 168.46') FOUND MONUMENT IN CASE
 PUBLISHED IN WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
 SURVEY INFORMATION SYSTEM.

HORIZONTAL DATUM

CITY OF PORT TOWNSEND GEODETIC CONTROL NETWORK PLAN (1997) DERIVED FROM
 THE WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD83(91), US
 SURVEY FOOT, AS RECORDED IN RECORD OF SURVEY, VOLUME 19, PAGES 61-70,
 RECORDS OF JEFFERSON COUNTY, WA.

THIS SURVEY WAS PERFORMED USING LEICA GS14 GPS AND LEICA MS60 TOTAL
 STATION.

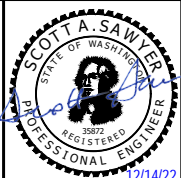


Date: 14, 2022 3:45:01pm User: rich.meyers@scj.com PROJECTS\0699\CITY OF PORT TOWNSEND\0699.14 DISCOVERY ROAD BIKEWAY AND SIDEWALK\PHASE 04 - NEPA-SEPA AND PERMITTING\CAD\0699.14 CV-01.DWG

BID SET

△	REVISIONS	DATE	BY	DESIGNED BY:	ISSUE DATE:
				W. HOLM	12/14/2022
				DRAWN BY:	JOB No.:
				N. MAYFIELD	0699.14
				CHECKED BY:	DRAWING FILE No.:
				S. SAWYER	0699.14 CV-01

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CITY OF PORT TOWNSEND
 250 MADISON STREET, SUITE 301
 PORT TOWNSEND, WA

MITIGATION PLAN DISCOVERY ROAD PORT TOWNSEND, WA	DRAWING No.: CV-01
COVER SHEET	SHEET No.:
	1 OF 4

SEC. 9 & 10, T. 30 N., R. 1 W., W.M.

CONTRACTOR INSTALLATION AND PLANTING PLAN MITIGATION NOTES:

THE OVERALL GOAL OF THE MITIGATION WILL BE TO DECREASE WEEDY VEGETATION AND REPLACE WITH A SUITE OF NATIVE PLANTS THAT CAN PROVIDE A WIDER RANGE OF HABITAT OPPORTUNITIES FOR BIRDS AND SMALL MAMMALS IN THE AREA. THE CONTRACTOR SHALL ENSURE THAT THE MINIMUM PERFORMANCE STANDARDS OF THE MITIGATION PLANTING PLAN TECHNICAL MEMO COMPLETED IN NOVEMBER 2022 BY SCJ ALLIANCE ARE MET AND FOLLOW THE INSTALLATION AND PLANTING PLAN PHASES BELOW. THE CONTRACT TIME IS ANTICIPATED TO BE 3 YEARS. SEE 1-08.5 TIME FOR COMPLETION IN THE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.

PHASE 1: WEED REMOVAL AND SITE PREPARATION

- CONTRACTOR TO PREPARE THE MITIGATION AREAS FOR PLANTING BY CLEARING THE PLANTING AREAS OF GARBAGE AND WEEDY PLANT SPECIES.
- CONTRACTOR TO FOLLOW THE PROGRAM FLYERS THAT ARE PROVIDED IN THE ATTACHED WETLAND MITIGATION TECHNICAL MEMORANDUM APPENDICES.
- IDENTIFY ALDERS FOR GIRDLING AND FELLING. CONFIRM ALDER LOCATIONS AND WORK PLAN WITH THE CITY. GIRDLING AND FELL ALDERS PER CITY APPROVED WORK PLAN.

PHASE 2: MITIGATION AREA PREP AND PLANTING SIGNAGE

- AT 50 FOOT SPACING INSTALL "WETLAND BUFFER, NO TRESPASSING" SIGNS ALONG THE ROADWAY SIDE OF THE MITIGATION AREAS FACING DISCOVERY ROAD.
- CONTRACTOR TO PROVIDE SURFACE MULCHING 3-4 INCHES DEEP AROUND NEW PLANTS.
- PLANTING OF THE MITIGATION AREA WILL BE CARRIED OUT WHEN PLANTS ARE DORMANT BETWEEN LATE FALL AND EARLY SPRING, FOLLOWING COMPLETION OF PHASE 1.
- PLANTINGS SHALL BE INSTALLED WITH PROTECTIVE WIRE CAGES TO PREVENT DAMAGE.
- PLANT SPECIES LISTS FOR BOTH WETLAND AND BUFFER AREAS ARE PROVIDED ON SHEET MT-3.

PHASE 3: PLANT ESTABLISHMENT

- THE CONTRACTOR IS RESPONSIBLE FOR 1 YEAR OF PLANT ESTABLISHMENT PER THE WSDOT STANDARD SPECIFICATIONS.
- ADDITIONAL MONITORING WILL BE REQUIRED BY OTHERS.

CITY OF PORT TOWNSEND WILL ENSURE THE CONTRACTOR IS FOLLOWING ALL INSTALLATION AND PLANTING PLAN PHASES. THE CITY IS RESPONSIBLE FOR MAKING SURE THE ANNUAL MONITORING IS CARRIED OUT CORRECTLY. MONITORING IMMEDIATELY AFTER INSTALLATION (BY THE CITY) WILL CONSIST OF:

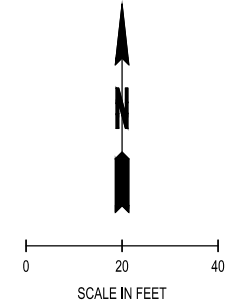
- EVALUATION OF THE PLANTINGS IMMEDIATELY AFTER INSTALLATION CONSTRUCTION TO DOCUMENT HOW THE PLAN WAS FOLLOWED;
- DOCUMENTATION OF CHANGES TO THE PLANTING PLAN;
- DOCUMENTATION THAT PLANTS WERE INSTALLED APPROPRIATELY; AND
- DOCUMENTATION OF WHAT PLANTS WERE INSTALLED OR SUBSTITUTED.

P:\PROJECTS\0699 CITY OF PORT TOWNSEND\0699.14 DISCOVERY ROAD BIKEWAY AND SIDEWALKS\PHASE 04 - NEPA-SEPA AND PERMITTING\CAD\0699.14 EXHIBIT 1.DWG
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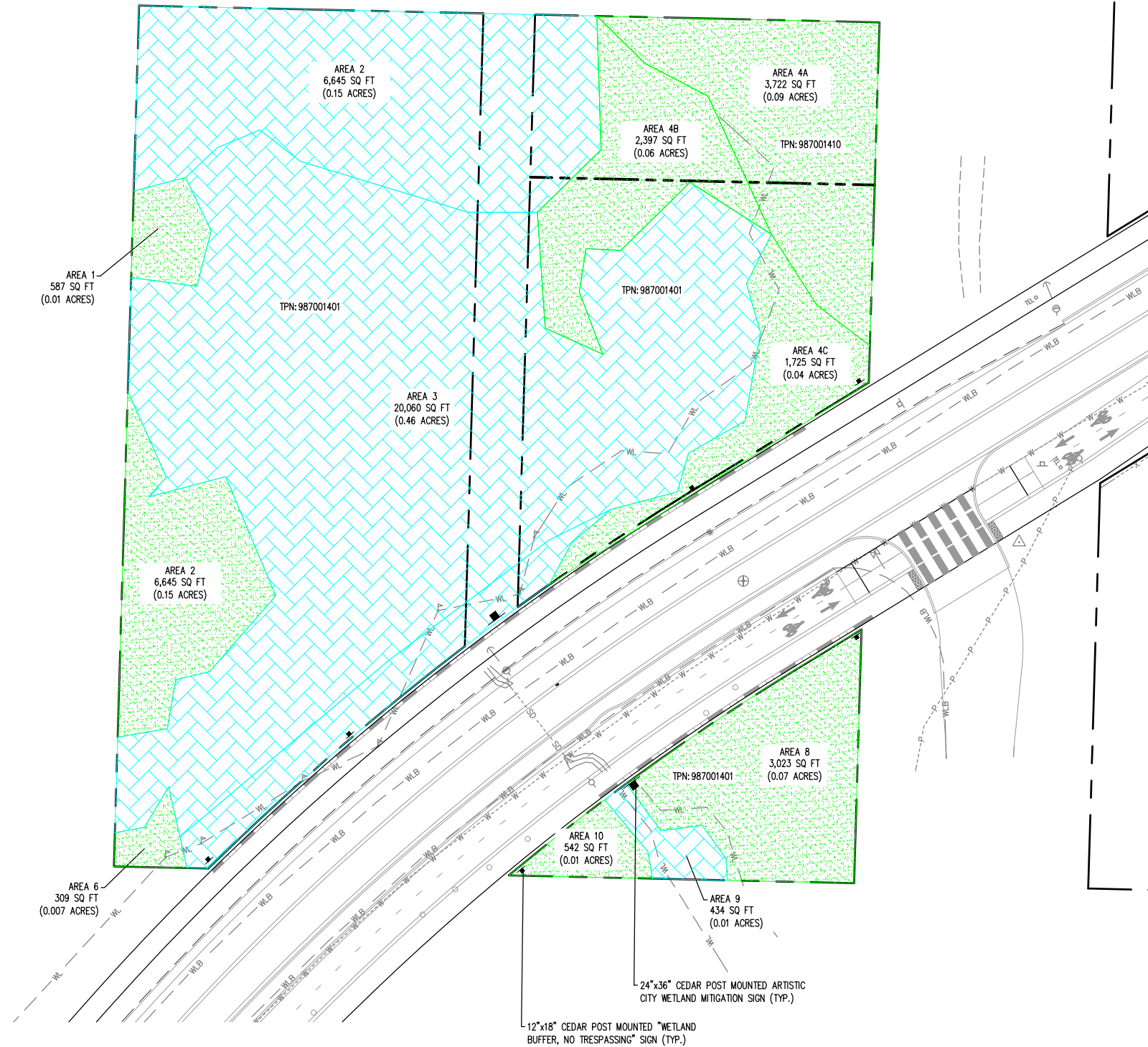
BID SET

△ REVISIONS	DATE	BY	DESIGNED BY: W. HOLM DRAWN BY: N. MAYFIELD CHECKED BY: S. SAWYER	ISSUE DATE: 12/14/2022 JOB No.: 0699.14 DRAWING FILE No.: _0699.14 Exhibit 1	ALL DIMENSIONS SHOWN IN FEET UNLESS OTHERWISE DESIGNATED		 <p style="font-size: small;"> 8730 TALLON LANE NE, SUITE 200, LACEY, WA 98516 P: 360.352.1465 F: 360.352.1509 SCJALLIANCE.COM </p>	CITY OF PORT TOWNSEND 250 MADISON STREET, SUITE 301 PORT TOWNSEND, WA	MITIGATION PLAN DISCOVERY ROAD PORT TOWNSEND, WA MITIGATION NOTES	DRAWING No.: MT-1 SHEET No.: 2 OF 4
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SEC. 9 & 10, T. 30 N., R. 1 W., W.M.



GENERAL NOTE: FOR BUFFER/WETLAND ENHANCEMENT AREA PLANTING SPECIES AND PLANT COUNT, SEE TABLES ON SHEET 4 AND THE SPECIAL PROVISIONS.



LEGEND

- BUFFER ENHANCEMENT AREA
18,950 SQ FT (0.44 ACRES)
- WETLAND ENHANCEMENT AREA
27,139 SQ FT (0.62 ACRES)
- 24"x36" CEDAR POST MOUNTED ARTISTIC CITY WETLAND MITIGATION SIGN
- 12"x18" CEDAR POST MOUNTED "WETLAND BUFFER, NO TRESPASSING" SIGN
- WL WETLAND
- WLB WETLAND BUFFER
- W WATER
- P POWER
- SD STORM

NOTE

CITY WILL PROVIDE THE ARTISTIC CITY WETLAND MITIGATION SIGNS. THE CONTRACTOR WILL BE RESPONSIBLE FOR MOUNTING AND INSTALLATION OF THE ARTISTIC CITY WETLAND MITIGATION SIGNS. THE CONTRACTOR SHALL REQUEST SIGNS TWO WEEKS IN ADVANCE OF INSTALLATION.

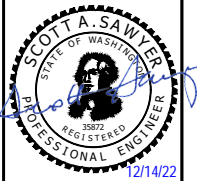
THE CONTRACTOR WILL BE RESPONSIBLE FOR FABRICATION, MOUNTING, AND INSTALLATION OF ALL OTHER SIGNS. ALL SIGNS WILL BE MOUNTED ON 4x4 CEDAR POST.

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 PROJECTS\0699\0699 - CITY OF PORT TOWNSEND\0699\14 EXHIBIT 1.DWG

BID SET

REVISIONS	DATE	BY	DESIGNED BY:	ISSUE DATE:
			W. HOLM	12/14/2022
			DRAWN BY:	JOB No.:
			N. MAYFIELD	0699.14
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			S. SAWYER	_0699.14 Exhibit 1

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CITY OF PORT TOWNSEND
 250 MADISON STREET, SUITE 301
 PORT TOWNSEND, WA

MITIGATION PLAN DISCOVERY ROAD PORT TOWNSEND, WA MITIGATION PLAN	DRAWING No.:	MT-2
	SHEET No.:	3 OF 4

SEC. 9 & 10, T. 30 N., R. 1 W., W.M.

North of Discovery Road ^[2]				
[2] This action is intended to enhance interior wetland habitat by girdling or felling aging alders and replacing them with longer-lived Oregon ash, black cottonwood or quaking aspen in appropriate upland islands and wetland areas.				
Polygon	Area (sqft)	Species list	Plant count	Comment
NOTE: All planting described below is only to occur after initial removal of garbage and weed control is deemed complete by the City of Port Townsend, and fencing/signage is constructed. Plant counts are based on interplanting between preserved native plants at about 3050% coverage rather than 100% – therefore plant counts are estimates and may be adjusted.				
#1: NW Buffer	587 sqft (20 plants)	<ul style="list-style-type: none"> Populus tremuloides (quaking aspen) Mahonia nervosa (low Oregon grape) Symphoricarpos albus (common snowberry) Polystichum munitum (sword fern) 	5 5 5 5	Interplanting after cleanup and weed control at about 25% density
#2: NW Wetland	6,645 sqft (80 woody & 300 herbaceous plants)	<ul style="list-style-type: none"> Salix scouleriana (Scouler's willow) Rosa nutkana (Nootka rose) Malus fusca (wild crabapple) Carex obnupta (slough sedge) Juncus effusus (soft rush) 	5 50 25 150 150	Densely plant willows and thorny plants near trail and around perimeter; rush and sedge in wetter interior.
#3: Central Wetland ^[2]	20,060 sqft (90 trees)	<ul style="list-style-type: none"> Fraxinus latifolia (Oregon Ash) Populus balsamifera (black cottonwood) Populus tremuloides (quaking aspen) 	40 30 20	Girdle or fell 30-50% of aging (larger) alders; interplant with ash, aspen, and cottonwood ^[2]
#4A: NE HBB patch	3,722 sqft (150 plants)	<ul style="list-style-type: none"> Symphoricarpos albus (common snowberry) Salix scouleriana (Scouler's willow) Malus fusca (wild crabapple) Rosa nutkana (Nootka rose) Polystichum munitum (sword fern) Tsuga heterophylla (western hemlock) 	40 20 30 30 25 5	Expect 90-100% cleared after HBB removal and control; native restoration
#4B: Wetland to Buffer transition	2,397 sqft (25 plants)	<ul style="list-style-type: none"> Symphoricarpos albus (common snowberry) Salix scouleriana (Scouler's willow) Rosa nutkana (Nootka rose) Polystichum munitum (sword fern) Tsuga heterophylla (western hemlock) 	10 3 5 5 2	Interplanting after cleanup and weed control at about 25% density of area 4A
#4C: SE Buffer	1,725 sqft (20 plants)	<ul style="list-style-type: none"> Symphoricarpos albus (common snowberry) Salix scouleriana (Scouler's willow) Malus fusca (wild crabapple) Rosa nutkana (Nootka rose) 	20 15 20 15	Interplanting after cleanup and weed control at about 25% density of area 4A
#6: SW Buffer N of DR	309 sqft (5 plants)	<ul style="list-style-type: none"> Malus fusca (wild crabapple) Rosa nutkana (Nootka rose) 	3 2	Interplanting after cleanup and weed control at about 25% density
#8: Strip of WL N of DR	1,597 sqft (20 plants)	<ul style="list-style-type: none"> Salix scouleriana (Scouler's willow) Malus fusca (wild crabapple) Rosa nutkana (Nootka rose) 	10 5 5	Interplant trees and barrier vegetation along edge of ROW

South of Discovery Road ^[3]				
[3] Throughout the block, in buffer areas that are currently Nutka rose dominated, the rose can be partially cleared, then the area interplanted at ~10 ft intervals to increase diversity, add a taller canopy layer, and provide for more variable habitat.				
Polygon	Area (sqft)	Species list	Plant count	Comment
NOTE: All planting described below is only to occur after initial removal of garbage and weed control is deemed complete by the City of Port Townsend, and fencing/signage is installed. Most plant counts are based on interplanting between preserved native plants at about 2550% coverage rather than 100%				
#8: East Buffer S of DR	3,023 sqft (30 plants)	<ul style="list-style-type: none"> Malus fusca (wild crabapple) Rosa nutkana (Nootka rose) Salix scouleriana (Scouler's willow) Tsuga heterophylla (western hemlock) 	5 15 5 5	Cut back wild rose and interplant to increase habitat diversity.
#9: Wetland Riparian Zone	434 sqft + riparian (~1,150 sqft)	<ul style="list-style-type: none"> Malus fusca (wild crabapple) Salix sitchensis (Scouler's willow) Salix hookeriana (Hooker's willow) 	5 10 5	Cut back wild rose and interplant both sides of swale to increase habitat diversity.
#10: SW Buffer S of DR	542 sqft (10 plants)	<ul style="list-style-type: none"> Salix scouleriana (Scouler's willow) Populus tremuloides (quaking aspen) 	5 5	Cut back wild rose and interplant to increase habitat diversity.

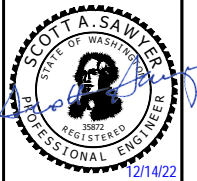
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REVISIONS	DATE	BY

BID SET

DESIGNED BY: W. HOLM	ISSUE DATE: 12/14/2022
DRAWN BY: N. MAYFIELD	JOB No.: 0699.14
CHECKED BY: S. SAWYER	DRAWING FILE No.: _0699.14 Exhibit 1

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CITY OF PORT TOWNSEND
250 MADISON STREET, SUITE 301
PORT TOWNSEND, WA

MITIGATION PLAN
DISCOVERY ROAD
PORT TOWNSEND, WA

MITIGATION SPECIES LIST AND PLANT COUNT

DRAWING No.:
MT-3

SHEET No.:
4 OF 4