Port of Seattle

Lustar EXHIBIT NO. 208 2-1-0-2 M. Green

December 18, 1996

Mr. Jack Kennedy
U.S. Army Corps of Engineers
Scattle District Office
P.O. Box 3755
Scattle, Washington 98124-2255

Dear Mr. Kennedy:

The Port of Seattle is pleased to submit this Section 404 Application to place fill material into waters of the United States at Seattle Tacoma International Airport associated with the Master Plan Update improvements, as well as associated backup information.

1. Background

The Port Commission's approval of the Master Plan Update in August 1996 was the culmination of nearly ten years of regional process regarding the need for additional airport capacity in the Puget Sound Region. It is the result of significant technical and environmental analyses; a comprehensive public information and involvement program; and extensive review of the airport capacity issue by airlines, other Airport users, citizens, and local and regional policy makers.

A 39-member panel with representatives from cities and counties throughout the Region, aviation industry experts, citizens, and the State - known as the Puget Sound Air Transportation Committee (PSATC) - was assembled and conducted the three-year long Flight Plan Study. The purpose of the Flight Plan was to develop a regional solution that would meet the Region's commercial air travel needs to the year 2020 and beyond. The PSATC conducted a thorough review of a wide range of options, including a replacement airport, supplemental airports, new navigational technologies, demand management, and high speed rail. The PSATC, Port and PSRC prepared and issued for public review and comment a report examining the potential environmental impacts of the studied alternatives. Following its deliberations, the PSATC recommended a multiple airport system that includes a new air carrier runway at Sea-Tac Airport.

On April 29, 1993, the PSRC General Assembly adopted by a vote of 89% in favor, Resolution A-93-03 which stated that "The third run:vay shall be authorized by April 1, 1996," subject to three conditions: 1) a regional feasibility study of potential supplemental airport sites; 2) consideration of demand & system management measures; and 3) independent evaluation of whether noise reduction goals at Sea-Tac Airport have been met. PSRC made this decision as a result of the three year "Flight Plan" study which evaluated a range of potential options for addressing the region's long-term air travel needs and based on a subsequent six month review process.

The first condition for PSRC runway approval was fulfilled on October 27, 1994 with the PSRC Executive Board adoption of Resolution EB-94-01 which concluded that "there are no feasible sites for a major supplemental airport within the four-county region." This finding was based on PSRC evaluation and public review of twenty-six existing and potential new airport sites. A number of technical documents that were prepared as part of this effort will be supplied to the Army Corps of Engineers in

Seattle-Tacoma International Airport P.O. (by 63727 Soattl,, WA 68163 U.S.A. TELECTO0471 FM (2001411-5912 support of this determination. Included in these studies were consideration of the wetland and natural resource impacts associated with a supplemental or replacement airport. The studies indicated that a supplemental or replacement airport would result in greater wetland impacts than would occur through development of a third runway at Sea-Tac Airport.

The second condition was fulfilled in 1995 when after a year of review, the independent PSRC Expert Panel (Panel) determined that a range of demand and system management measures would neither obviate nor defer the need for the third runway. The Panel's specific findings are discussed in written documents it released on July 27, 1995 and December 8, 1995. The third condition was fulfilled in 1996 when the PSRC General Assembly adopted Resolution A-96-02 which amends the Metropolitan Transportation Plan (MTP) to include a third runway with additional noise reduction measures. The PSRC General Assembly adopted this resolution by a vote of 84% in favor.

2. Environmental Impact Statement

In February 1996, the Federal Aviation Administration (FAA) and the Port of Seattle issued a joint National Environmental Policy Act (NEPA) and State Environmental Policy Act (SEPA) Final EIS for the proposed improvements. The U.S. Army Corps of Engineers was a cooperating agency on the EIS. The Final EIS presented the impacts of the proposed Master Plan Update improvements by examining impacts to 24 environmental and social conditions.

The following four purpose and need statements were defined in the Final Environmental Impact Statement:

- (1) Improve the poor weather airfield operating capability in a manner that accommodates aircraft activity with an acceptable level of aircraft delay;
- (2) Provide sufficient runway length to accommodate warm weather operations without restricting passenger load factors or payloads for aircraft types operating to the Pacific Rim;
- (3) Provide Runway Safety Areas (RSAs) that meet current FAA standards; and
- (4) Provide efficient and flexible landside facilities to accommodate future aviation demand.

The wetland impacts associated with each of these purpose and need statements are:

Third Parallel Runway
34R Extension by 600 feet
Runway Safety Areas (16L/R)

0 acres 2.34 acres

Terminal/Landside improvements

2.51 acres (associated with the South Aviation Support Area and North Employee Parking Lot)

7.38 acres (including on-site borrow sources)

Subtoral 12.23 acres

The primary impacts to wetlands are a result of the Port's desire to remedy the poor weather operating constraints to the existing airfield. The close spacing (800 feet) between Sea-Tac's existing two parallel numbers does not allow for two arrival streams whenever cloud ceilings drop below 5,000 feet or whenever visibility is reduced below 5 miles. These conditions occur, which occur about 44% of the year, reduce the total number of arrivals that can be accommodated from 60 per hour to as low as 24,

resulting in inefficient operations and aircraft delay. This condition exists today, but is expected to become increasingly severe as air traffic increases. Because pilots can not maintain visual separation in these conditions, FAA air traffic control rules require at least 2,500 feet between parallel runways for two staggered (dependent) arrival streams in such "poor weather". Over 85 percent of total Sea-Tac delays are incurred by arriving aircraft.

While Sea-Tac currently has sufficient operating capability during good weather conditions, the existing runway system produces extensive arrival delays during poor weather. For instance, when weather worsens from Visual Flight Rule 1 (VFR1) to VFR2, average arrival delay increases by more than tenfold (from 1 minute to 11.4 minutes). Delays further worsen when Instrument Flight Rule (IFR1/2/3) conditions occur. In these cases, average arrival delay increases more than twenty-fold over VFR1 (21.7 minutes Vs 1.0 minutes). Because these delay statistics represent averages, some flights experience less delay, while others experience substantially higher delay. The FAA's National Plan of Integrated Airport Systems concludes that when annual average delay exceed 9 minutes an airport is experiencing severe delay.

Using average aircraft operating costs developed by the FAA, Sea-Tac aircraft delays cost the airlines about \$42 million annually under 1992 demand. When annual aircraft operations reach 425,000, delay costs are anticipated to exceed \$176 million annually. Without the third parallel runway at this level of activity, average VFR2 arrival delay would exceed 40 minutes and IFR delay would exceed 70 minutes.

The third parallel runway, located 2,500 feet west of the existing 16R/34L, would permit staggered dual stream arrivals in poor weather conditions. It would decrease average arrival delays by about 80 percent in comparison to the Do-Nothing and result in a savings of \$132 million per year.

Your prompt attention to the processing of this permit application is appreciated.

Sincerely,

Barbara Hinkle

Senior Environmental Specialist

C.\DATA\WORINFOSTEISWIN-TRNS DOC

AGENCY USE ONLY					
Agency Reference #:	Date Received:				
SEPA Lead Agency:					
Other:					

-JARPA APPLICATION FORM-

- for use in Washington State-

PLEASE TYPE OR PRINT IN BLU	
Based on the preceding checklist, I am sending copies of this application to the Local Government: for shoreline Substantial Development Floodplain Management Critical Areas Ordinance	the following: (check all that apply) Conditional Use Variance Exemption; or
☐ Washington Department of Fish and Wildlife for HPA	
 ✓ Washington Department of Ecology Approval to Allow Temporary ☐ 401 Water Quality Certification Nationwide Permits 	Exceedance of Water Quality Standards
☐ Corps Engineers for Section 404 or Section 10 permit(s)	
SECTION A - Use for all permits covered by this application. Be sure to a applications.	lso complete Section C (Signature Block) for all permit
Applicant Port of Seattle contact: Barbara Hinkle	
Mailing Address P.O. Box 68727	
Seattle, WA 98168	
Wark Phone: (206) 728-3193 Home Ph	none: ()
Fax Number: (206) 431-4458	
If an agent is acting for the applicant during the permit process, complete #2	& 3.
2. Authorized Agent	
Mailing Address	
Work Phone: () Home Ph	one: ()
Fax Number: ()	
3. Designation of Authorized Agent, if applicable:	
I hereby designate	to act as my agent in matters related to this
application for permit(s). I understand that if a Federal permit is issued,	I must sign the permit.
Signature of Applicant	Date
4. Relationship of applicant to property: ☑ Owner ☑ Purchaser ☐ Lesse	ee 🗆 Other ()
5. Name, address, and phone number of property owner(s), if other than ap	plicant:
The Port of Seattle will purchase the properties affected by implementation of these owners is available on request. Owners of properties (other than the Poanswer to question 19 of this application.	f the proposed improvements to the Airport. A list of ort) with waters of the United States are listed in the
	PARA 0000336

August 1995 (PMX 1280.4)

Application Page 1 of 5

6.	Location where proposed activity exists or will occur:	Waterbody_	Miller Creek; wetlands		
	Construction of the contract o		Type (if known) Type :	}	
	Street Address Seattle-Tacoma International Airport, 17801 Pacific Highway South	Tributary of Puget Sound			
		Legal Descri	ption: See Attachment A		
	Seattle, King, Washington 98185	Tax Parcel N	o.: See Attachment A		
1	City, County, State, Zip Code				
			0		
		14 14	Section	Township	Range
			20, 21, 28, 29, 32, 33	-	4E
<u> </u>			4, 5	22N	4E
7.	Describe the current use of the property, and structures existing completed on this property, indicate month and year of complete		ty. If any portion of the	proposed acti	vity is already
air; wil	e majority of the project site is owned by the Port of Seattle and cort. The area south of Runway 34R, also owned by the Port, is also occur to the west of the existing Port property. This area, multi-family housing. No portion of the proposed activity is considered.	s currently leas , which will be	sed to a golf course opera	tor. Impacts	to wetlands
	Is the property agricultural land? □ Yes ☒ No Are you a U	JSDA program	participant? 🗆 Yes 💆	No	
8.	Describe the proposed activity, and the activity's purpose. Incl to reduce the duration and severity of those impacts and provid- should be provided for all work waterward of the Ordinary Hig and for all work if applying for a shoreline permit. If addition	e proper prote h Water Mark	ction for fish life. Comp or Line, including types	lete plans and of equipment	specifications
	overall project purpose is to implement certain development act third parallel runway. The purpose of these actions is to meet			port including	g construction
•	Improve poor weather airfield operating capability to accommode Provide sufficient runway length to accommodate either warm variously payloads for aircraft types operating to the Pacific Rim; Provide runway safety areas (RSAs) that meet current FAA star Provide efficient and flexible landside facilities to accommodate	weather operations and	ions without restricting pa		
fou The	Federal Aviation Administration (FAA) and the Port of Seattle r needs. A Final EIS on the Master Plan Update (in which the tellar identified the following necessary improvements to meet the denoted with an asterisk):	Corps was a co	operating agency) was re	leased in Febr	ruary 1996.
•	Addition of a third parallel runway with a length of up to 8,500 Extension of Runway 34R by 600 ft* Establishment of standard RSAs for existing runways* Addition of a new air traffic control tower Improvements and expansion of the main terminal and access sy Development of new parking facilities and expansion of existing Development of a new north unit terminal, roadway system, an Development of the South Aviation Support Area (SASA) for concepts of the South Aviation of Support facilities.	ystem g parking* d parking facil argo and/or m	lity	onal aids*	
(Se	e Attachment B)				
	Preparation of drawings: See Appendix A - sample drawings a good quality reproducible drawings <u>must</u> be attached. NOTE: but these do not substitute for drawings. THE CORPS OF EN SHEETS. Larger drawings may be required by other agencies.	Applicants and GINEERS RE	e encourage to submit ph	otographs of t	he project site

 Proposed Starting Date: mid-1997 Estimated duration of activity: Full build-out in 2020. Activities disturbing we stream will be completed in 2004 			
	Will the project be constructed in stages? ⊠Yes □ No		
10.	Will any structures be placed: a. waterward of the Ordinary High Water Mark or Line for fresh or tidal water?	—————————————————————————————————————	s 🗆 No
	b. waterward of Mean High Water Line in tidal waters?	□ Ye	s 🛮 No
11.	Will til material (rock, fill, bulkhead, pilings or other material) be placed waterward		
	of Ordinary High Water Mark or Line for fresh or tidal waters?	⊠ Ye	s 🗆 No
	 a. If "yes," in fresh water indicate volume in cubic yards: 12.13 acres of wetlands + 1,080 ft of Miller Creek drainage channels x depth of fill (up to 160 ft - average range 30 ft to 100 ft) b. If "yes," in tidal waters, indicate volume in cubic yards waterward of the line of mean higher high water: 	<u>+1,400</u>	ft of
12.	Will Material be placed in wetlands? ✓ Yes □ No If yes, impacted area: 12.13*		(acres)
*Th deli	nis is an estimate. Most wetlands have been delineated. However, some wetlands are on private property and ha ineated due to lack of access. See Attachment C. If yes:	ve not b	
	a. Has a delineation been completed? Yes (partial) No (If yes, please submit with application.)		
	 b. Type and composition of fill material (e.g., sand, etc.): Engineered fill using various grades of material fill c. Material source: Approved sources 		
	d. List all soil series (type of soil) located at the project site, & indicate if they are on the county's list of hydric information can be obtained from the Natural Resources Conservation Service (NRCS), formerly Soil Conservation (SCS). Alderwood gravelly sandy loam; Arents, Alderwood material; Bellingham silt loam (hydric); Everett sloam; Indianola loamy fine sand; Norma sandy loam (hydric)	vation S	ervice
13.	Will proposed activity cause flooding or draining of		
	wetlands? ☐ Yes ☑ No If yes, impacted area:		_ (acres)
14.	Will excavation or dredging be required in water or wetlands? If yes, impacted area: unknown at this time (cubic yards)	⊠ Ye	s 🗆 No
	 a. Composition of material removed: <u>Material removed from wetland areas will selectively be used for fill as ap</u> b. Disposal site for excavated material: <u>Construction area at airport</u> c. Method of dredging: <u>Bull dozer, back hoe</u> 	propriat	e
15.	List other applications, approvals, or certifications from other Federal, state or local agencies for any structures, of discharges, or other activities described in the application (i.e., preliminary plat approval, health district approval permit, SEPA review, FERC license, Forest Practices Application, etc.) Also indicate whether work has been continuous all existing work on drawings.	, buildin	ıg
T	ype of Approval Issuing Agency Identification No. Date of Application Date Approved	Comple	
	Attachment D.	Yes or	NO
	h the exception of the permits covered by this application, no permits have been applied for.		
•			
SEP	PA Lead Agency: Port of Seattle SEPA Decision Date: FEIS issued February 1996; Port Commission decision A	lugust l	996.

16. Has any agency denied approval for the activity described herein or for any activity directly related herein? ☐ Yes ☒ No If yes, explain:	to the activity described
SECTION B - Use for Shoreline & Corps of Engineers permits only:	
17. Total cost of Project. This means the fair market value of the project, including materials, labor, m	nachine rentals, etc.
\$1.5 billion for all the Master Plan Update improvements	
18. Local government w/ jurisdiction: Port of Seattle*	
*Sea-Tac Airport is located within the City of SeaTac. The jurisdiction of the City of SeaTac is the process between the Port and the City. Certain wellands in borrow sources are located in the City mitigation site is located within the City of Auburn.	e subject of an interlocal of Des Moines. The wetland
Shoreline Environment designation: NA Zon	ning designation: Airport
19. For Corps permits, provide names, addresses, and telephone numbers of adjoining property owners,	lessees, etc.,
See Attachment E	
PLEASE NOTE: Shoreline management compliance may require additional notice—consult your	local government.
SECTION C - Complete for any permit covered by this application	
20. Application is hereby made for a permit or permits to authorize the activities described herein. I cet the information contained in this application, and that to the best of my knowledge and belief, such complete, and accurate. I further certify that I possess the authority to undertake the proposed activ agencies to which this application is made, the right to enter the above-described location to inspect work.	information is true, rities. I hereby grant to the
Parlara Rolle,	oc. 18 1996
Signature of Applicant or Authorized Agent (REQUIRED)	te
Signature of Landowner (REQUIRED if other than applicant) Date of Landowner (REQUIRED if other than applicant)	te
This application must be signed by the applicant. If an authorized agent is to be designated, the applicant. #3.	plicant must also sign at Item

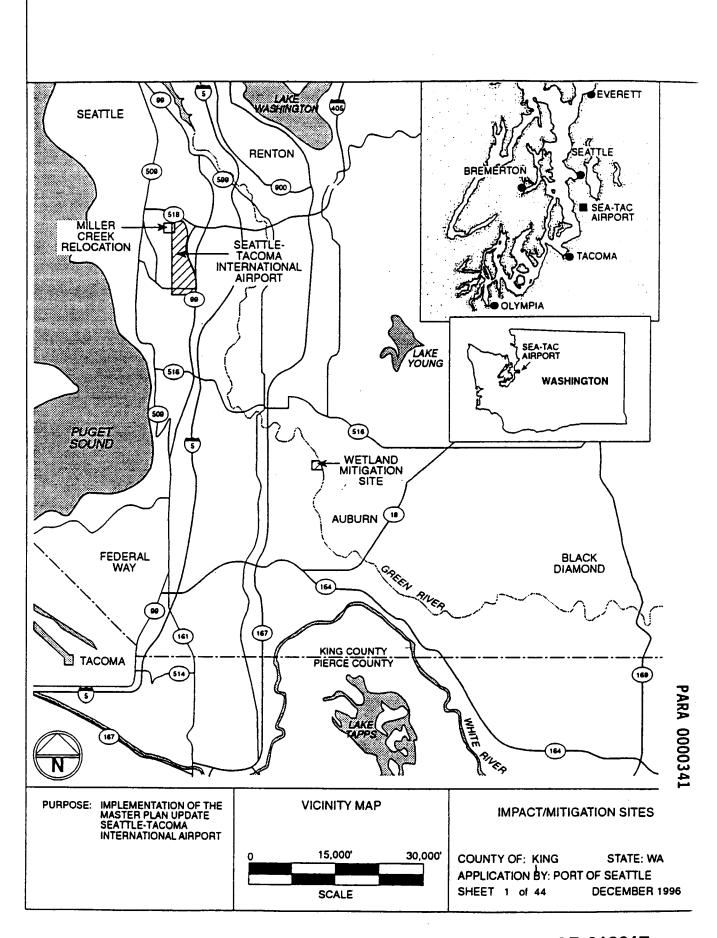
18 U.S.C. §1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly falsifies, conceals, or covers up by any trick, scheme, or device a material fact or makes any false, fictitious, or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious, or fraudulent statement or entry, shall be fined not more than \$10,000 or imprisoned not more than 5 years or both.

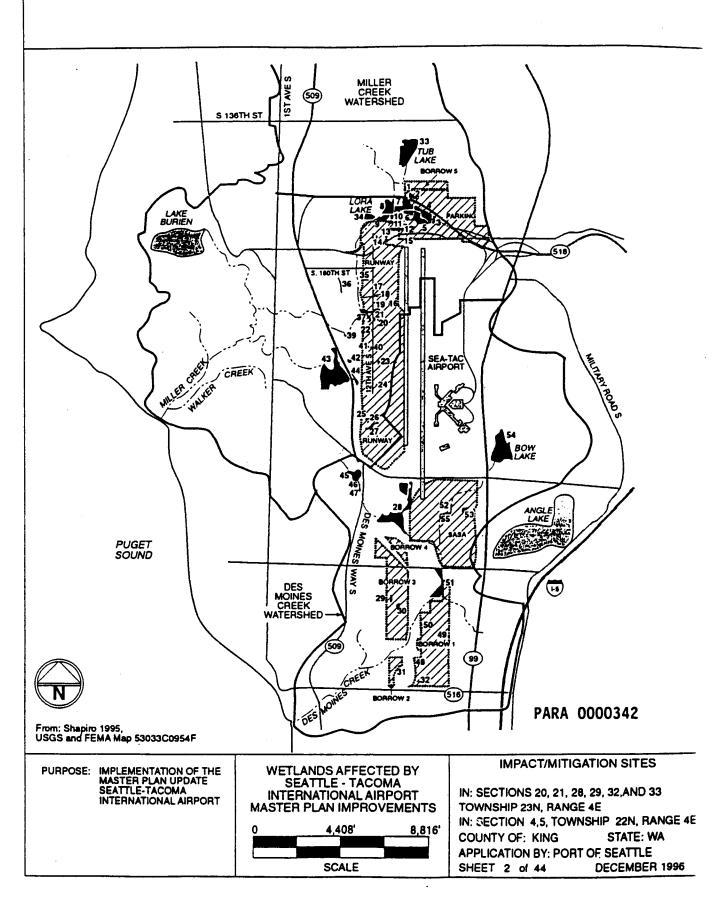
DO NOT SEND FEDERAL PROCESSING FEE WITH APPLICATION

	TO BE COMPLETED BY LOCAL OFFICIAL
A .	Nature of the existing shoreline. (Describe type of shoreline, such as marine, stream, lake, lagoon, marsh, bog, swamp, flood plain, floodway, delta; type of beach, such as accretion, erosion, high bank, low bank, or dike; material such as sand, gravel, mud, clay, rock, riprap; and extent and type of bulkheading, if any:)
B.	In the event that any of the proposed buildings or structures will exceed a height of thirty-five feet above the average grade level, indicate the approximate location of and number of residential units, existing and potential, that will have an obstructed view:
c.	If the application involves a conditional use or variance, set forth in full that portion of the master program which provides that the proposed use may be a conditional use, or, in the case of a variance, from which the variance is being sought:

These Agencies are Equal Opportunity and Affirmative Action employers.

For special accommodation needs, please contact the appropriate agency from Appendix A.





				•	(ACRES)	
WETLAND NUMBER	CLASSIFICATION1	WETLAND SIZE (ACRES)	(ACRES)	FORESTED	SHRUB- SCRUB	EMERGENT
1 F	Forested	0.07	0.07	0.07	_	_
2 F	Forested/Emergent					
	60/40)	0.74	0.74	0.44	_	0.29
3 F	orested	0.56	0.19	0.19	_	-
4 F	orested	5.02	0.46	0.46	_	_
	Forested/Shrub-Scrub 10/90)	4.58	1.69	0.17	1.52	_
6	Shrub-Scrub	0.87	0.00	_	_	_
7 F	orested/Open					
	Vater/Emergent	6.70	0.00	_	_	_
	Shrub-Scrub/Emergent	4.95	0.00	_	_	_
	Emergent/Forested					
	60/40)	2.85	0.13	0.05	_	0.08
•	Shrub-Scrub	0.31	0.00	-	_	_
11 F	orested/Emergent					
	80/20)	0.50	0.47	0.37	_	0.09
•	Emergent/Forested					
	80/20)	0.21	0.21	0.04	_	0.16
•	Emergent	0.05	0.05	_	_	0.05
	orested	0.19	0.19	0.19	_	-
15 E	mergent	0.28	0.28	_	_	0.28
	mergent	0.06	0.06	_	_	0.06
	mergent	0.03	0.03	_		0.03
	orested	0.12	0.12	0.12	_	_
19 F	orested	0.57	0.57	0.57	_	-
20 5	Shrub-Scrub/Emergent					
	90/10)	0.06	0.06	-	0.06	0.01
	orested	0.22	0.22	0.22	_	-
22 E	mergent/Shrub-Scrub	· · · · ·	•	V.64		
	90/10)	0.06	0.06	_	0.01	0.05
-	mergent	0.78	0.78	_	_	0.78
	mergent	0.14	0.14	_	_	0.14
	orested	0.06	0.06	0.06	_	_
26 E	mergent	0.02	0.02	-	_	0.02
	imergent²	0.00	0.00	_	_	_
	pen Water/					
	Shrub-Scrub (O/100)	18.10	0.06	_	0.06	_
	orested	0.74	0.74	0.74	-	_
		•	9.7 4	0.7-4		DADA OOG
				· · · · · ·		PARA 000

0343

PURPOSE: SEATTLE-TACOMA INTERNATIONAL AIRPORT

PROPOSED SEATTLE - TACOMA INTERNATIONAL AIRPORT MASTER PLAN UPDATE STUDY AREA

SITES

COUNTY OF: KING STATE: WA APPLICATION BY: PORT OF SEATTLE SHEET 3 of 44 DECEMBER 1996

				VEGETATION	COVER TYP	PES IMPACTED
WETLAND NUMBER	CLASSIFICATION ¹	WETLAND SIZE (ACRES)	TOTAL IMPACT (ACRES)	FORESTED	SHRUB- SCRUB	EMERGENT
30	Forested/Shrub-Scrub					
	(80/20)	0.50	0.50	0:40	0.10	_
31	Emergent	0.05	0.00	_	_	_
32	Emergent	0.05	0.05	_	_	0.05
33	Forested/Shrub-Scrub/		-,			
	Emergent/Open Water	17.60	0.00	_	_	_
34	Open Water	1.40	0.00	_	-	_
35	Emergent	0.21	0.18		_	0.18
36	Forested/Emergent	0.30	0.00	_	_	_
37	Forested/Shrub-Scrub		0.00	•		
	(70/30)	2.41	1.68	1.17	_	0.15
38	Emergent/Shrub-Scrub³	0.00	0.00	_	_	_
39	Forested	0.07	0.00	_	_	_
40	Forested	0.09	0.09	0.09	_	_
41	Emergent	0.08	0.08	_	_	0.08
42	Emergent	0.50	0.00	_	_	_
43	Emergent/Shrub-Scrub/	5.55	0.00			
	Forested/Open Water	30.30	0.00	_	_	_
44	Forested/Shrub-Scrub	0.07	0.00	_	_	_
45	Emergent	5.00	0.00	_	_	_
46	Open Water	0.06	0.00	_	_	_
47	Open Water	0.20	0.00	_	_	-
48	Emergent	0.04	0.00	_	_	_
49	Emergent	0.03	0.03	_	_	0.03
50	Shrub-Scrub	0.12	0.12	_	0.12	_
51	Forested	8.10	0.48	0.48	_	_
52	Forested/Shrub-Scrub					
	(90/10)	1.00	1.00	0.90	0.10	_
53	Forested	0.60	0.60	0.60	-	_
54	Shrub-Scrub/Open Water	25.70	0.00	-	_	_
55	Shrub-Scrub	0.04	0.04	_	0.04	_
TOTAL4		143.86	12.23	7.34	2.01	2.88

All wetland are palustrine based on USFWS classification system (Cowardin et al. 1979). Where more than one cover type, the percent impact to each cover type is shown in parenthesis.

Fill of this wetland completed with an approved Section 404 Nationwide 26 permit.

This wetland was determined not to be a regulated wetland by the City of Sea-Tac and the Corps of Engineers.

Values are rounded to two significant figures. Actual values differ slightly due to the effects of rounding.

PURPOSE: IMPLEMENTATION OF THE MASTER PLAN UPDATE SEATTLE-TACOMA

INTERNATIONAL AIRPORT

CLASSIFICATION, SIZE AND IMPACTS TO WETLANDS IN THE PROPOSED SEATTLE - TACOMA INTERNATIONAL AIRPORT MASTER PLAN UPDATE STUDY AREA

IMPACT/MITIGATION SITES

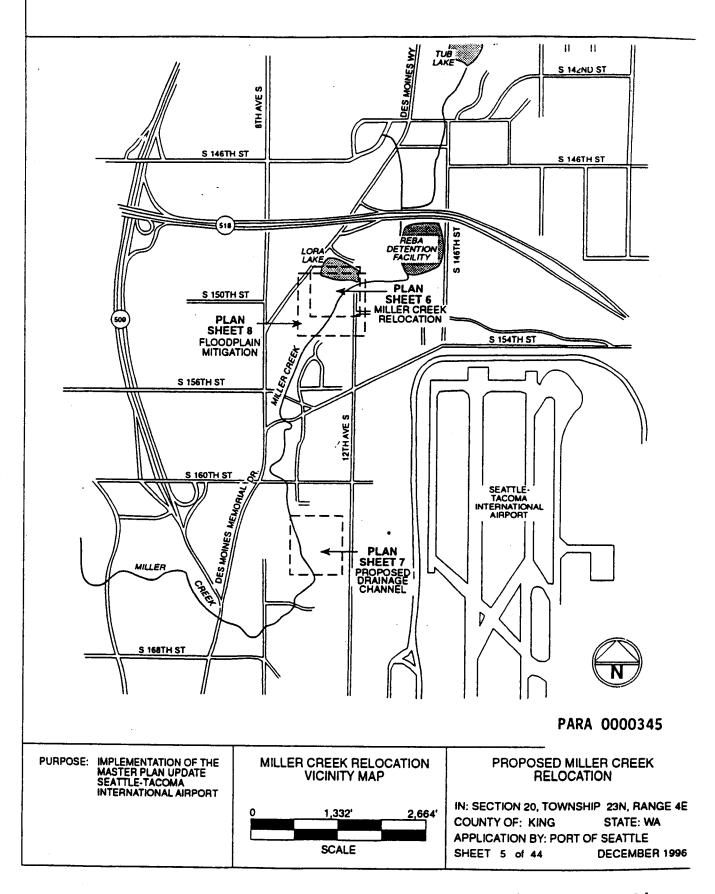
PARA 0000344

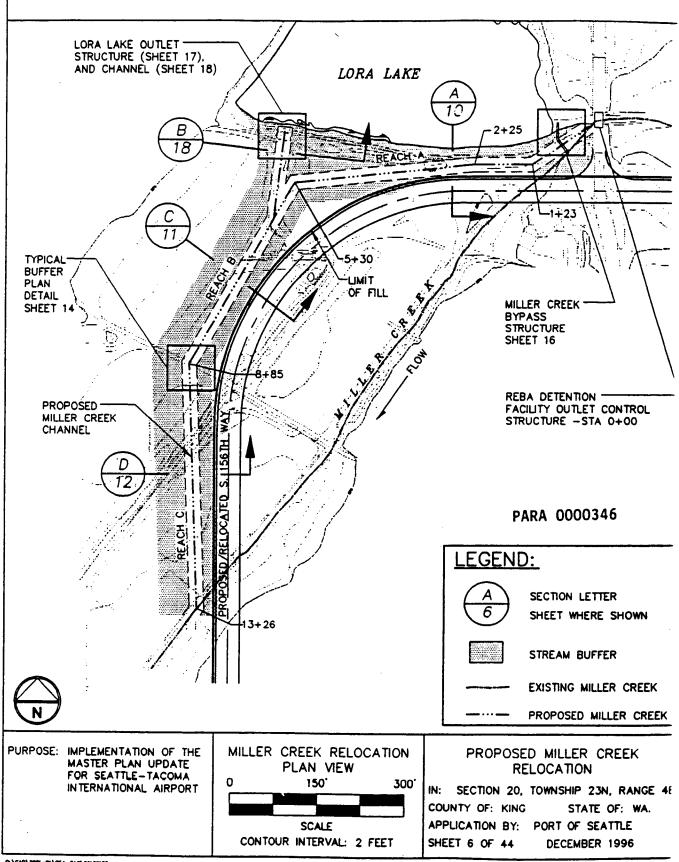
COUNTY OF: KING

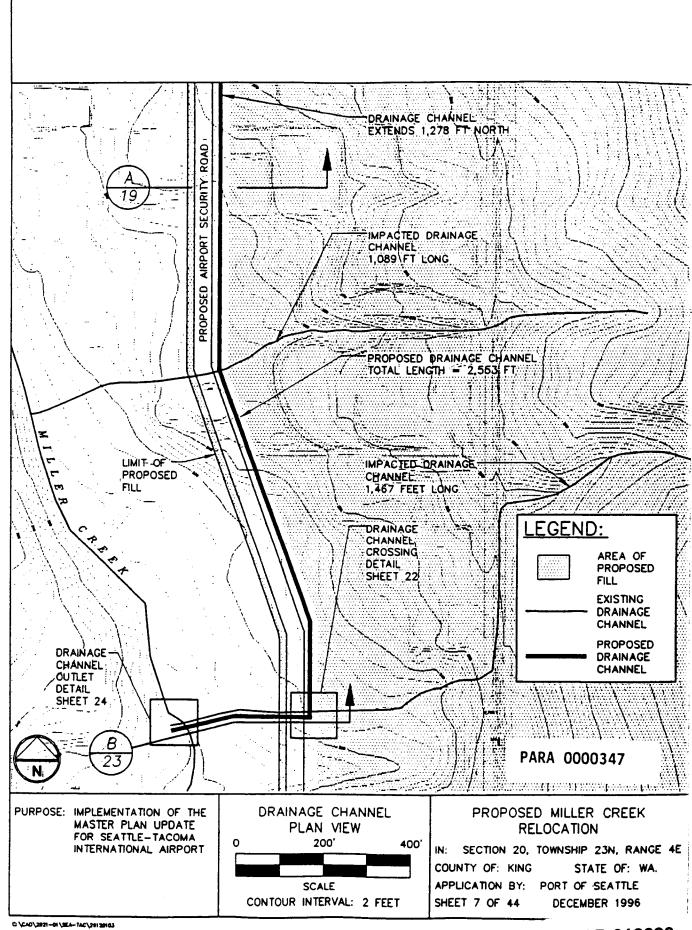
STATE: WA APPLICATION BY: PORT OF SEATTLE

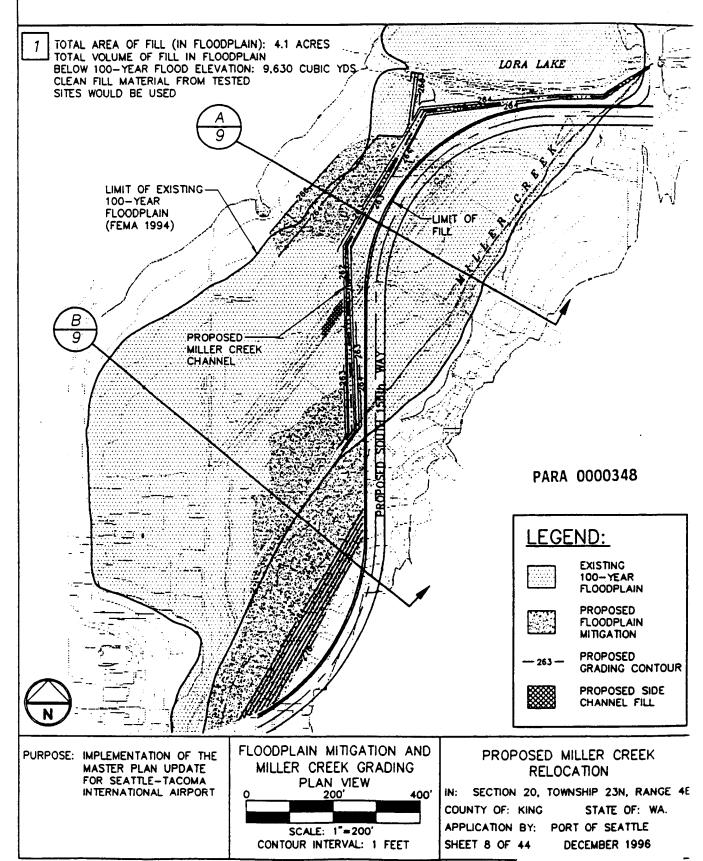
SHEET 4 of 44

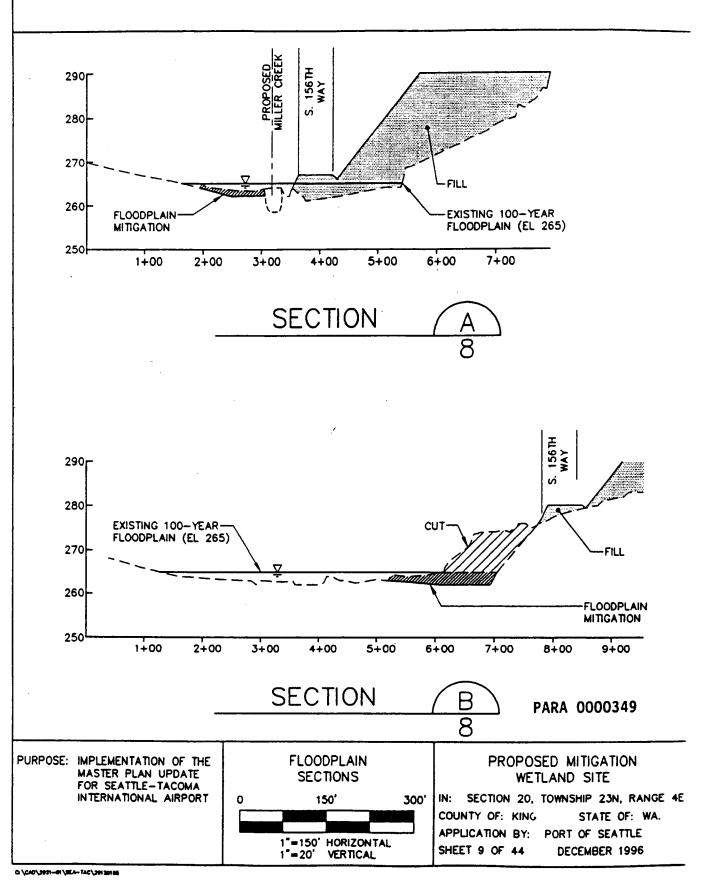
DECEMBER 1996

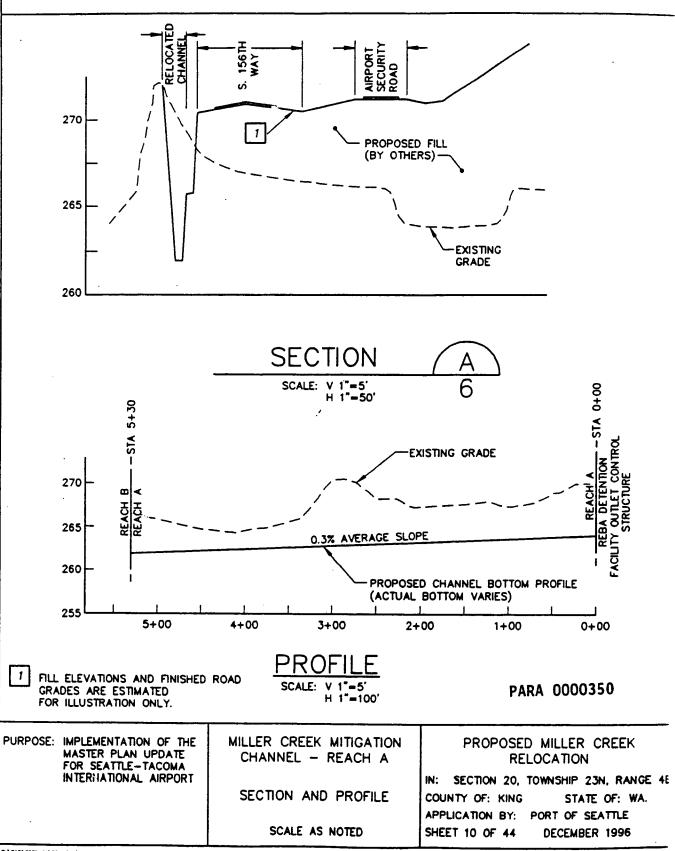


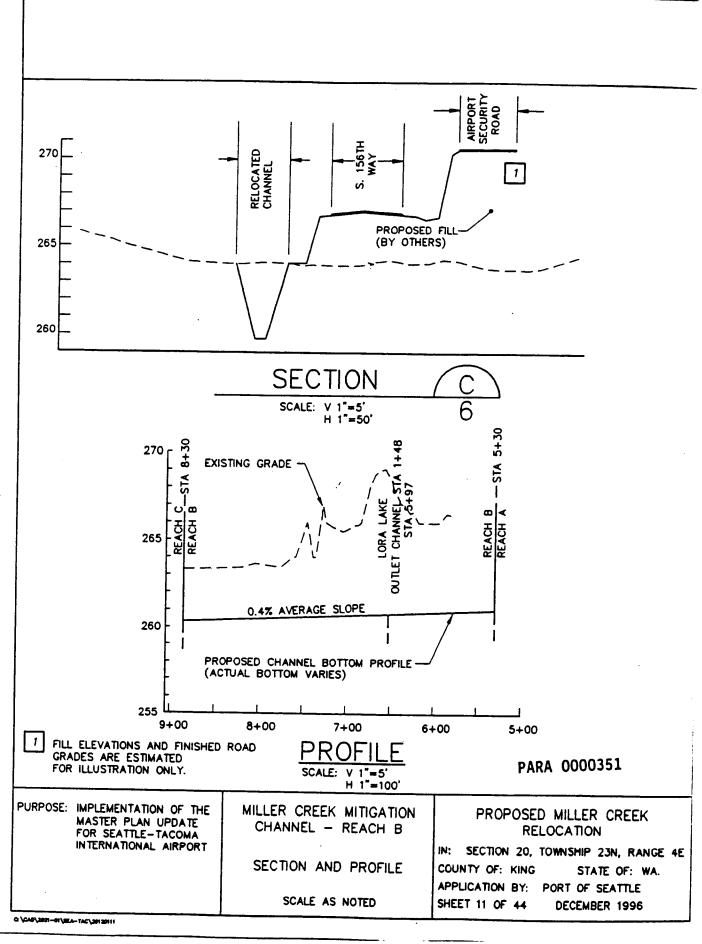


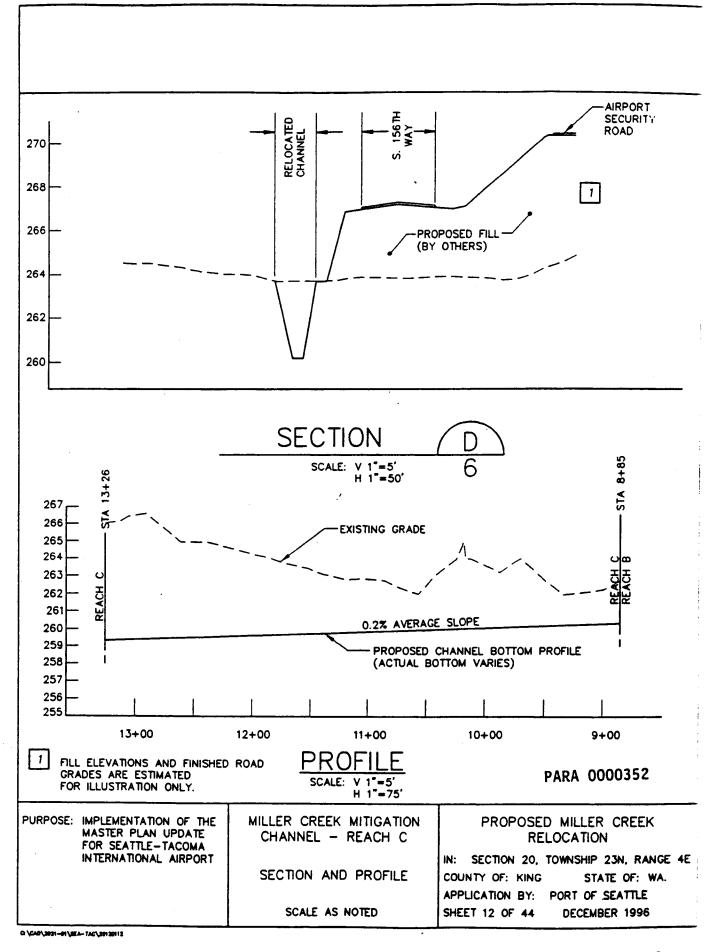


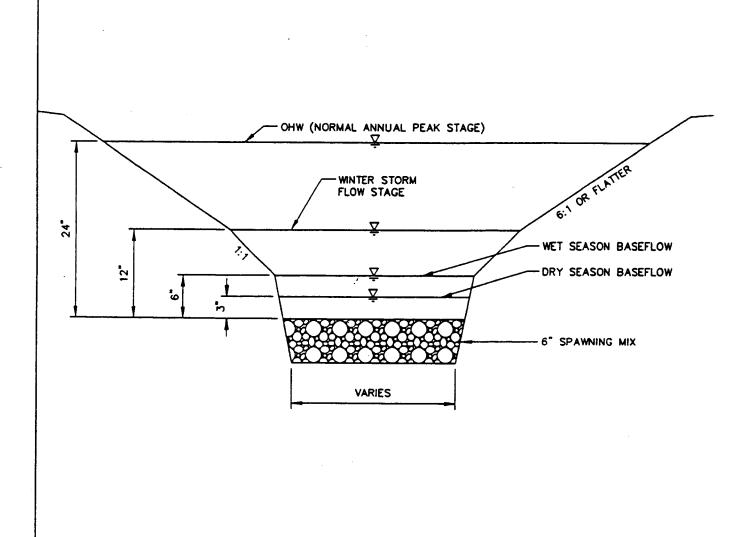












TYPICAL MILLER CREEK

CHANNEL SECTION

NOT TO SCALE

PURPOSE: IMPLEMENTATION OF THE

Q \CA5\2821-01\EA-TAC\28130160

MASTER PLAN UPDATE

FOR SEATTLE-TACOMA INTERNATIONAL AIRPORT

DECEMBER 1996

STATE OF: WA.

PARA 0000353

PROPOSED MILLER CREEK

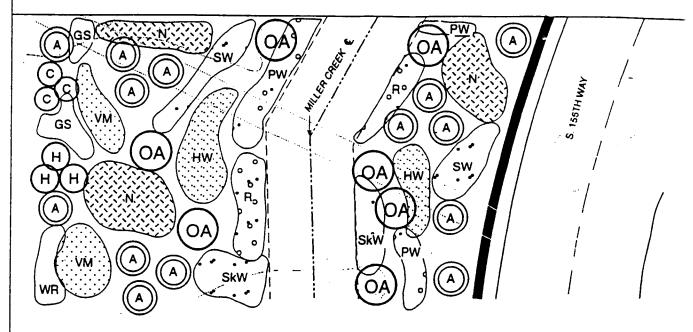
RELOCATION

IN: SECTION 20, TOWNSHIP 23N, RANGE 4E

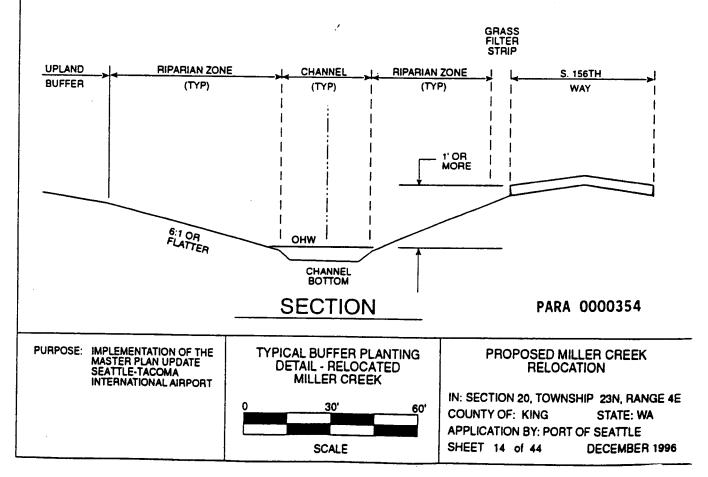
APPLICATION BY: PORT OF SEATTLE

COUNTY OF: KING

SHEET 13 OF 44



TYPICAL PLAN



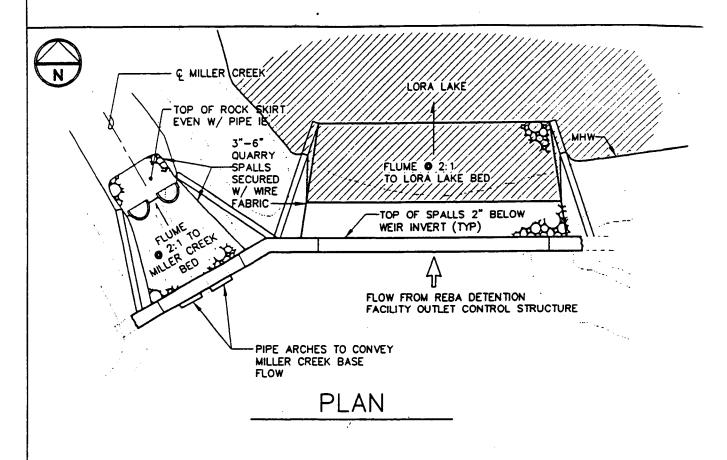
Plant species proposed for	Miller Creek streamside zone
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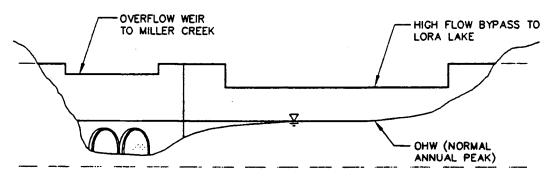
Scientific Name	Common Name	Symbol	Condition	Comments
Trees				
Alnus rubra	red alder	©	container	At least 100 trees/
Fraxinus latifolia	Oregon ash	(OA)	container	acre would be planted
Salix lasiandra	Pacific willow	PW	bareroot	in this area.
Shrubs				
Acer circinatum	vine maple	·VM·	container	35 to 50% of
Cornus stolonifera	red osier dogwood	© R →	bareroot	the area would be
Physocarpus capitatus	Pacific ninebark		container	planted with shrubs.
Salix hookerana	Hooker's willow	(HW)	bareroot/lives	take
Salix scouleriana	Scouler's willow	(sw)	bareroot/lives	take
Salix sitchensis	Sitka willow	SkW	bareroot/lives	take

Plant species proposed for Miller Creek upland buffer

Scientific Name	Common Name	Symbol	Condition	Comments
Trees	· · · · · ·			
Alnus rubra	red alder		container	At least 100 trees/
Corylus cornuta	Western hazelnut	Ĥ	container	acre would be planted
Rhamnus purshiana	cascara	Ö	container	in the upland buffer.
Shrubs				
Acer circinatum	vine maple	○VM •	container	30 to 40% of the
Gaultheria shallon	salal	GS	container	buffer zone would be
Physocarpus capitatus	Pacific ninebark	END	container	planted with shrubs.
Rosa woodsii	Wood's rose	WR	container	

PURPOSE: IMPLEMENTATION OF THE MASTER PLAN UPDATE SEATTLE-TACOMA INTERNATIONAL AIRPORT	PLANTING SCHEDULE - RELOCATED MILLER CREEK	PROPOSED MILLER CREEK RELOCATION IN: SECTION 20, TOWNSHIP 23N, RANGE 4E
		COUNTY OF: KING STATE: WA APPLICATION BY: PORT OF SEATTLE SHEET 15 of 44 DECEMBER 1996





ELEVATION

PARA 0000356

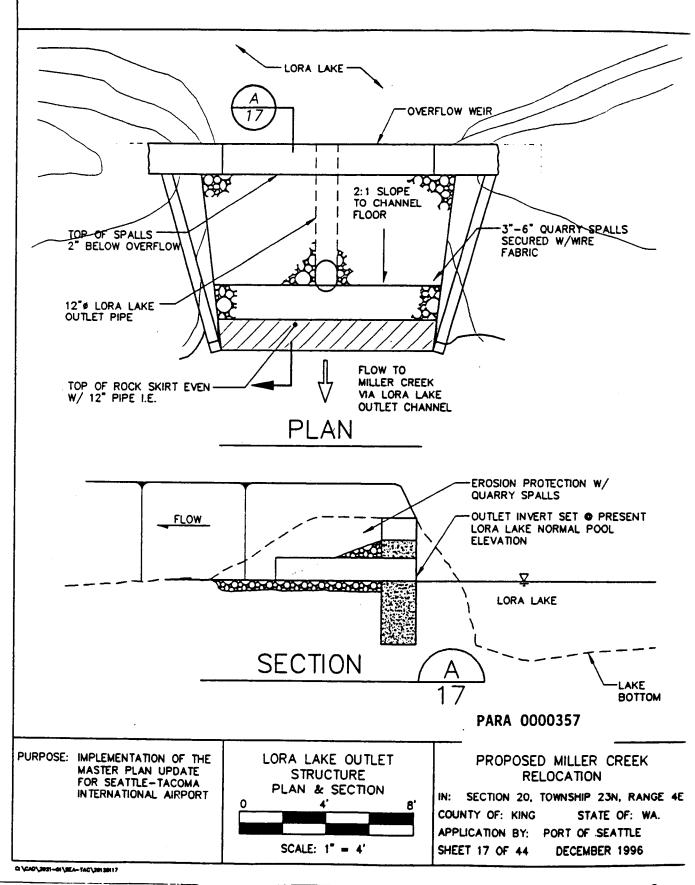
PURPOSE: IMPLEMENTATION OF THE MASTER PLAN UPDATE FOR SEATTLE-TACOMA INTERNATIONAL AIRPORT

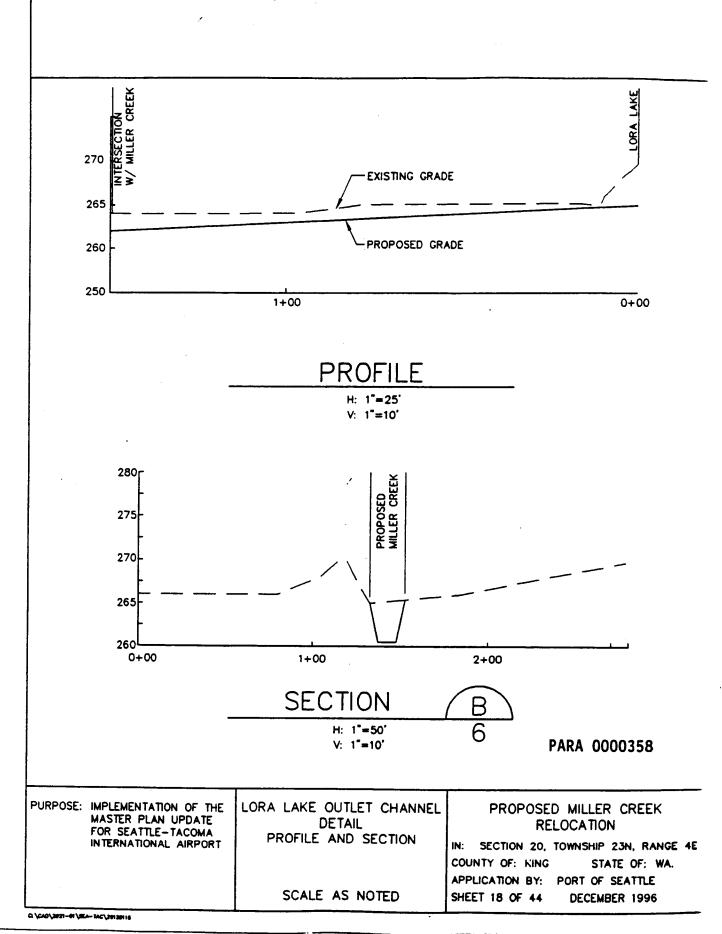
MILLER CREEK HIGH FLOW
BYPASS STRUCTURE
PLAN & ELEVATION
0 6' 12'

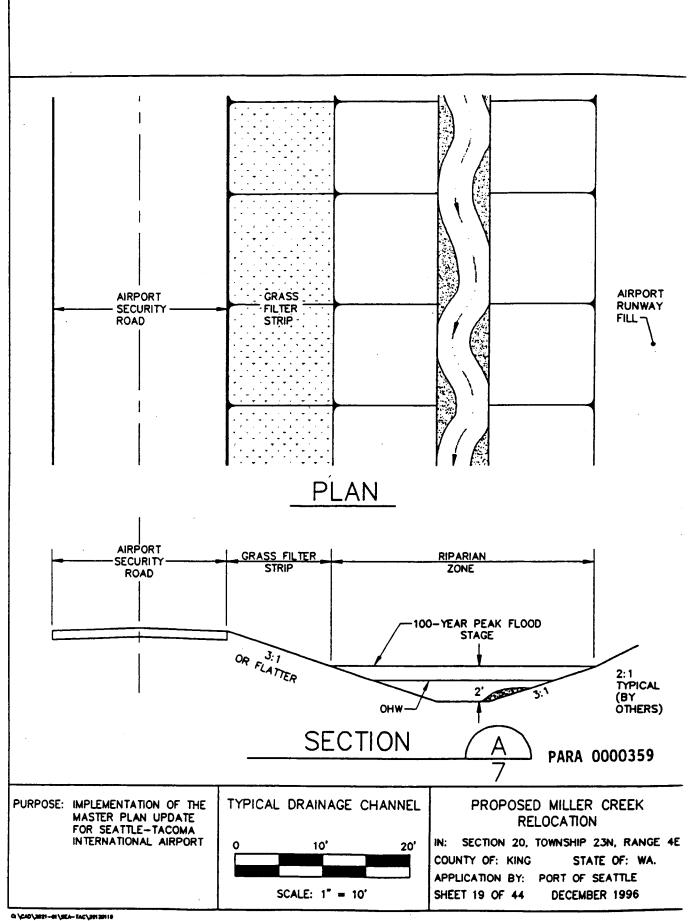
SCALE: 1" = 6'

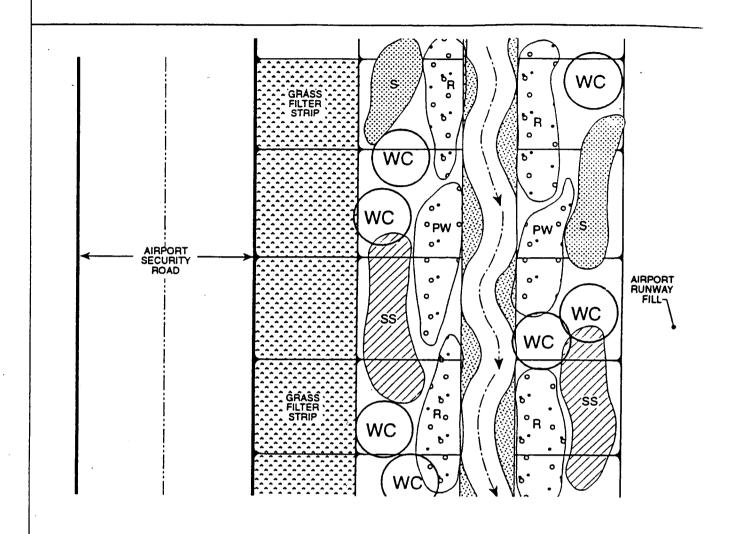
PROPOSED MILLER CREEK RELOCATION

IN: SECTION 20, TOWNSHIP 23N, RANGE 4E COUNTY OF: KING STATE OF: WA. APPLICATION BY: PORT OF SEATTLE SHEET 16 OF 44 DECEMBER 1996

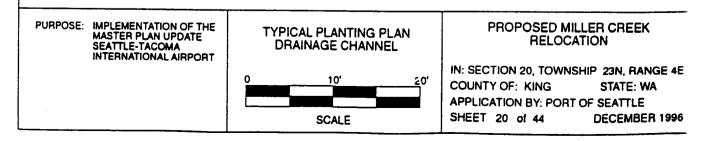








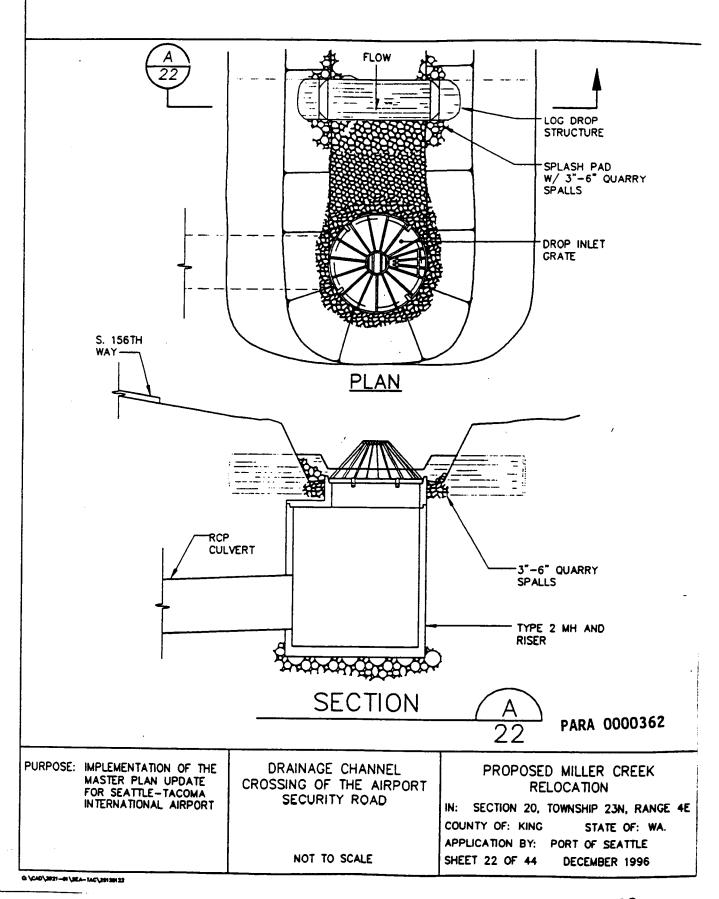
TYPICAL PLAN

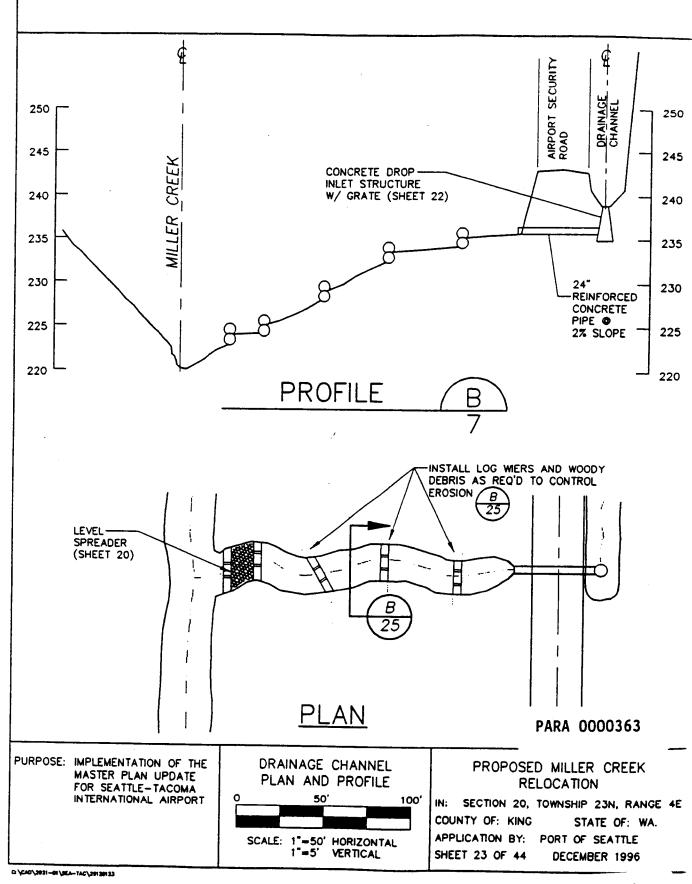


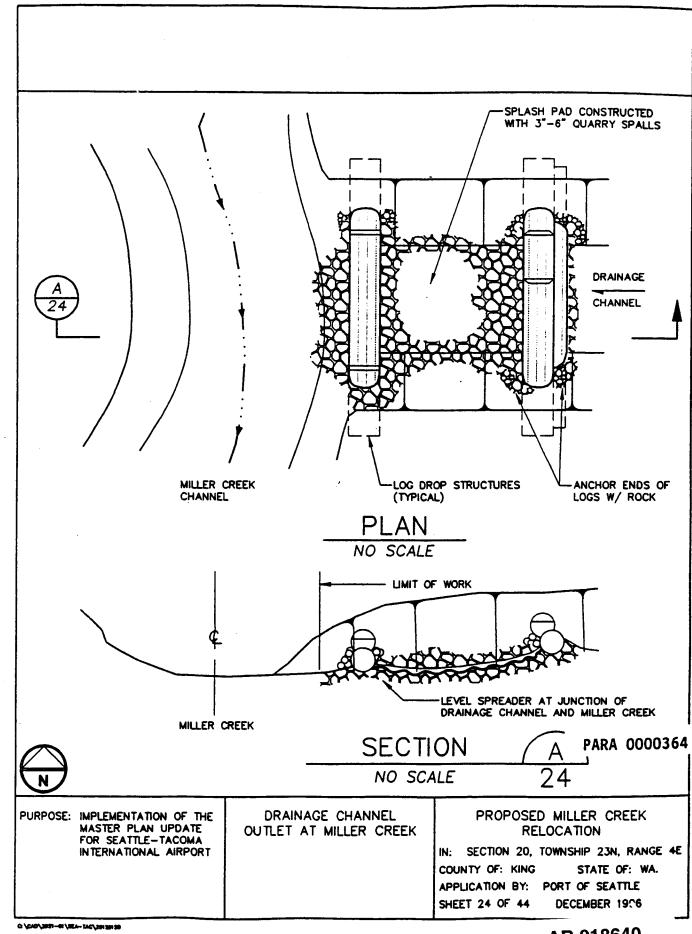
Plant species proposed for drainage channel plantings

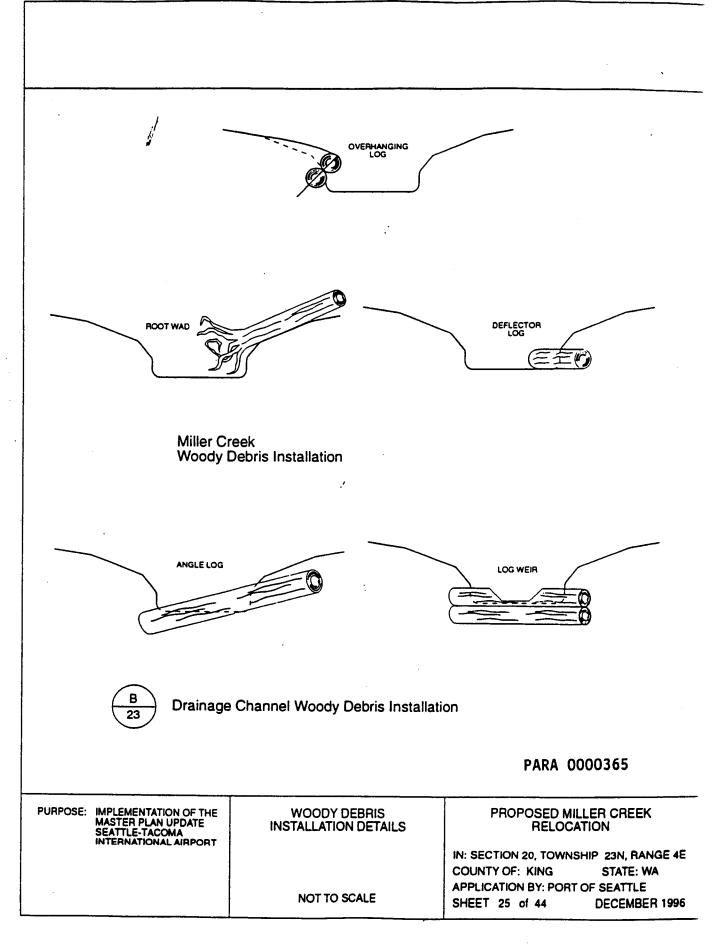
Scientific Name	Common Name	Symbol	Condition	Comments
Shrubs				
Cornus stolonifera	red osier dogwood	(R)	container	50 to 70% of these
Pyrus fusca	Western crabapple	(wc)	container	areas would be
Rubus spectabilis	salmonberry		bareroot/livestake	planted with shrubs.
Salix lasiandra	Pacific willow	PW	bareroot/livestake	
Salix scouleriana	Scouler's willow	SW	bareroot/livestake	

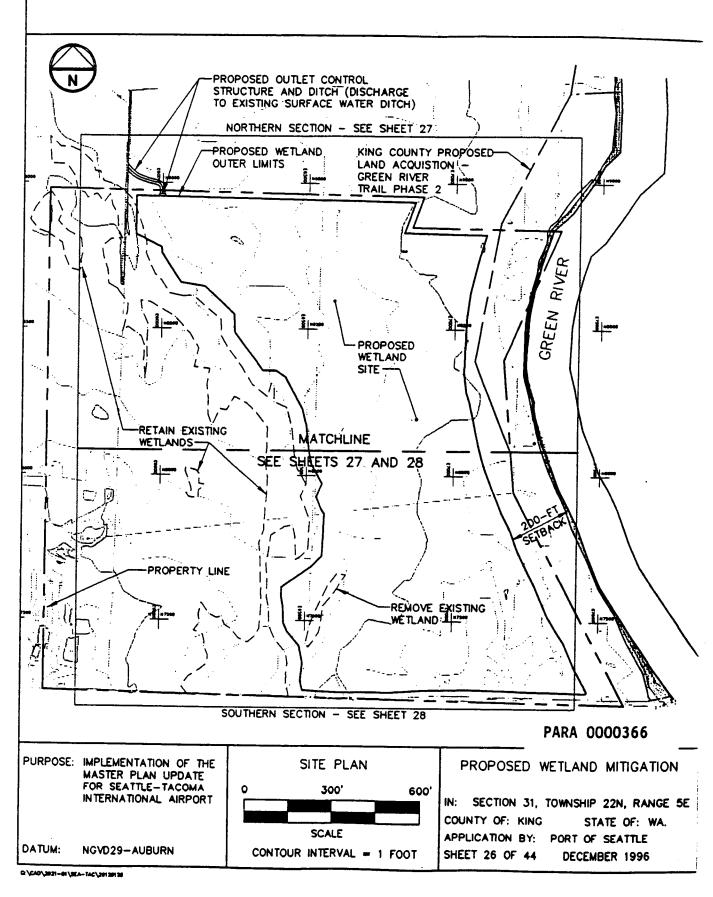
PURPOSE: IMPLEMENTATION OF THE MASTER PLAN UPDATE SEATTLE-TACOMA INTERNATIONAL AIRPORT	TYPICAL PLANTING PLAN SCHEDULE - DRAINAGE CHANNEL	PROPOSED MILLER CREEK RELOCATION
		IN: SECTION 20, TOWNSHIP 23N, RANGE 4E COUNTY OF: KING STATE: WA APPLICATION BY: PORT OF SEATTLE SHEET 21 of 44 DECEMBER 1996

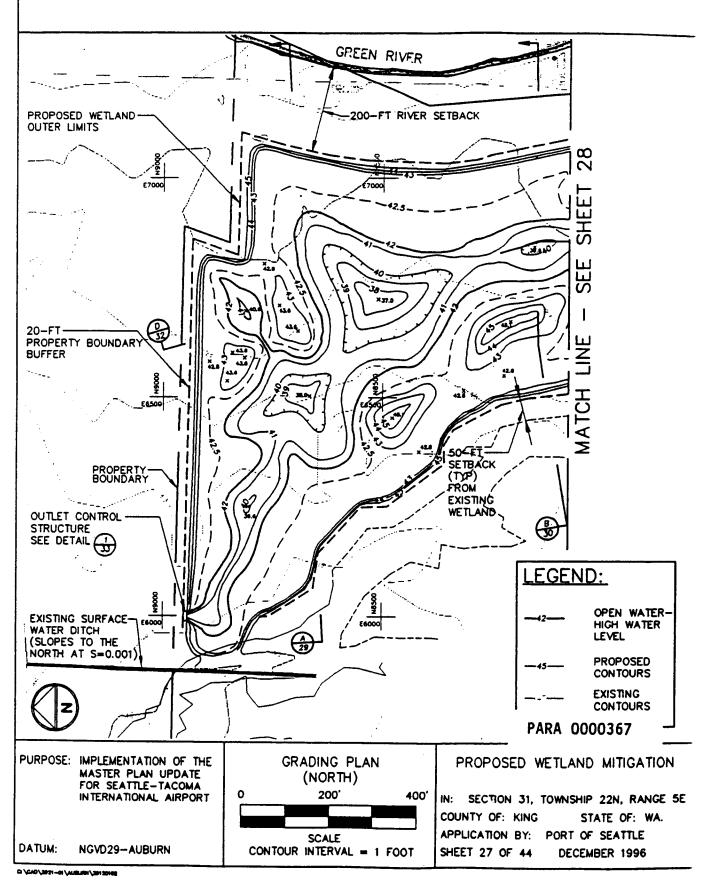


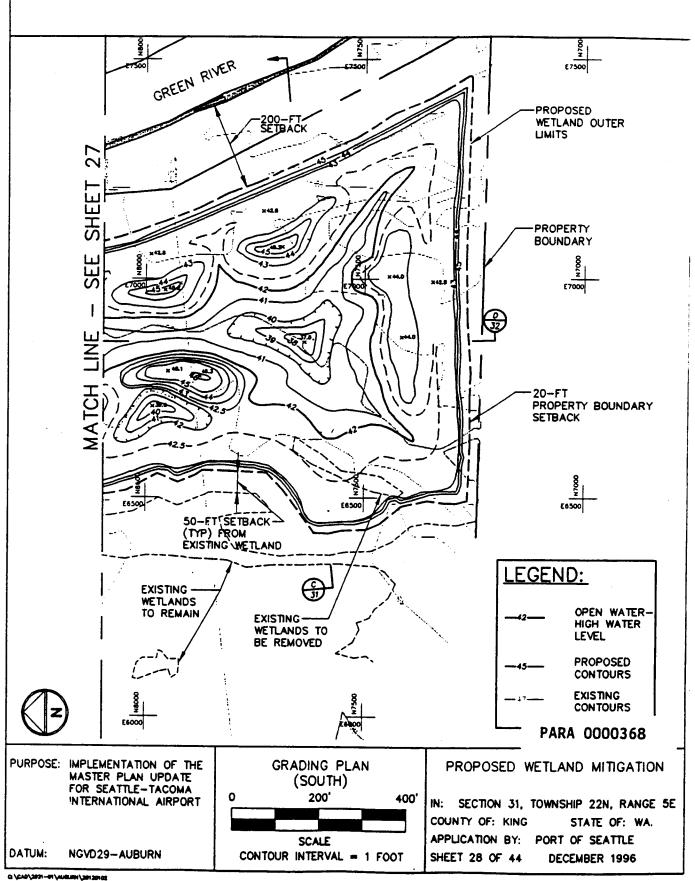


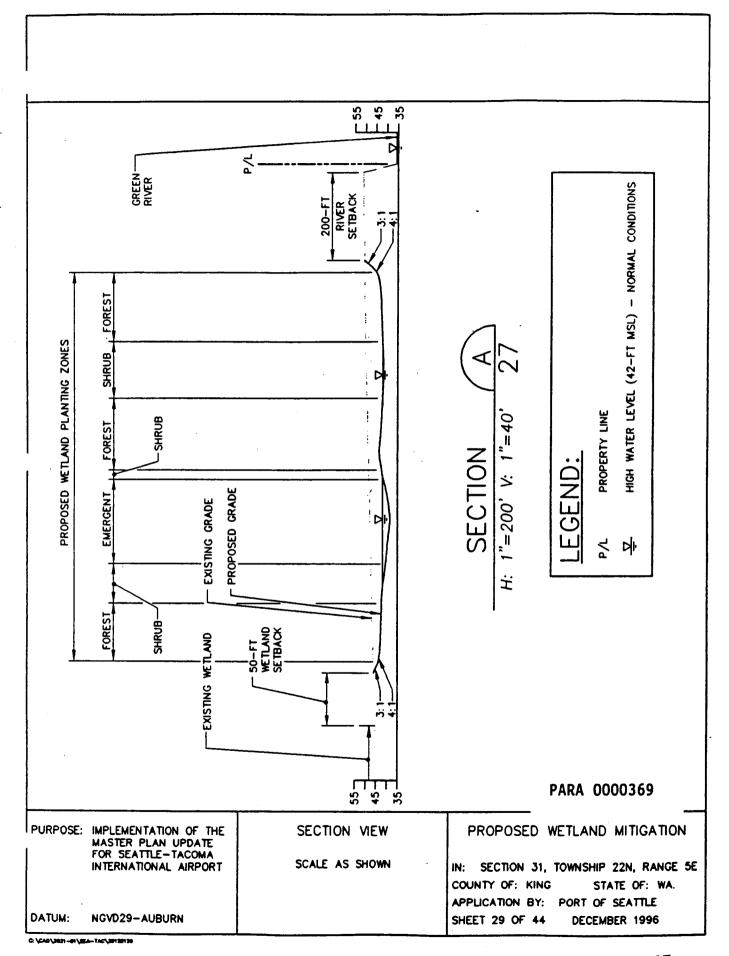


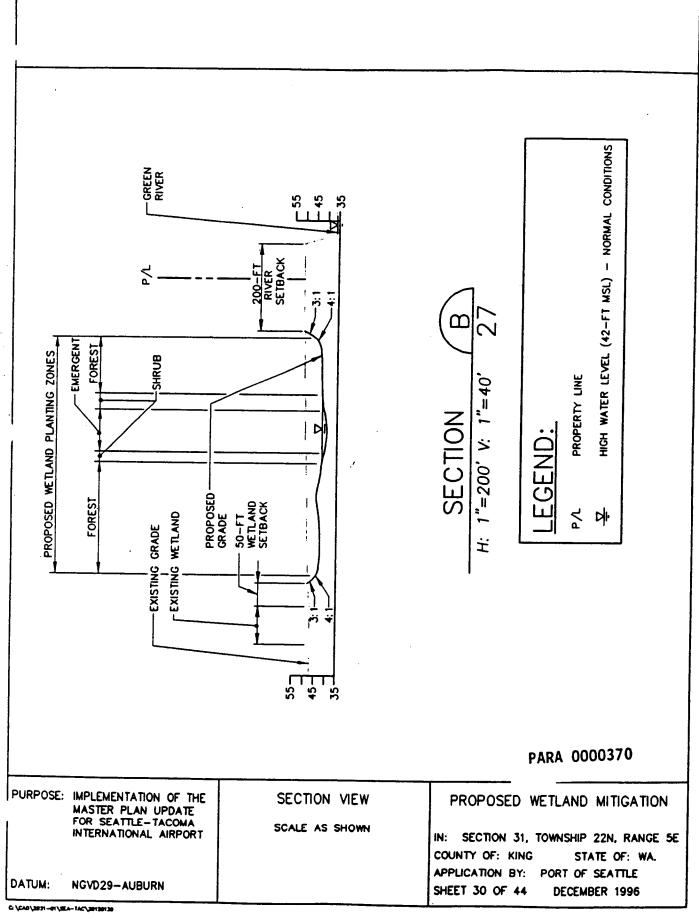


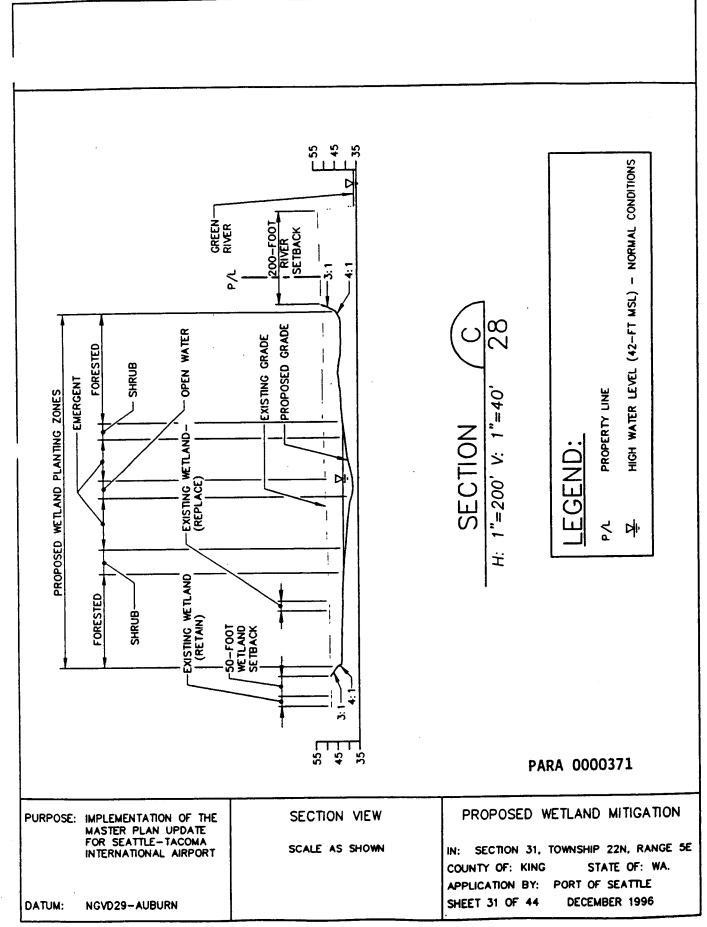


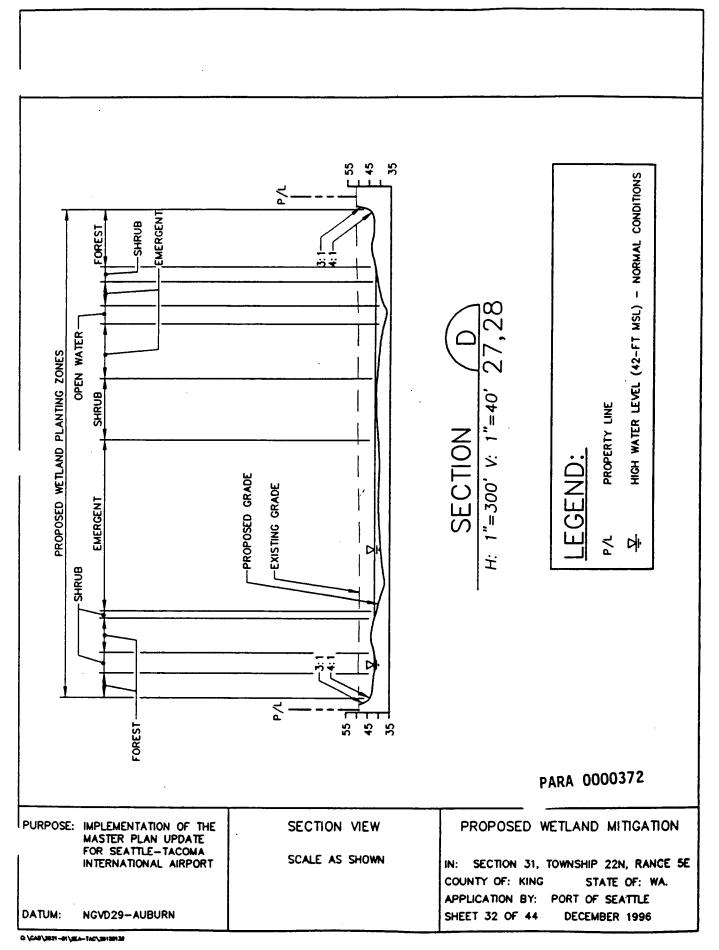


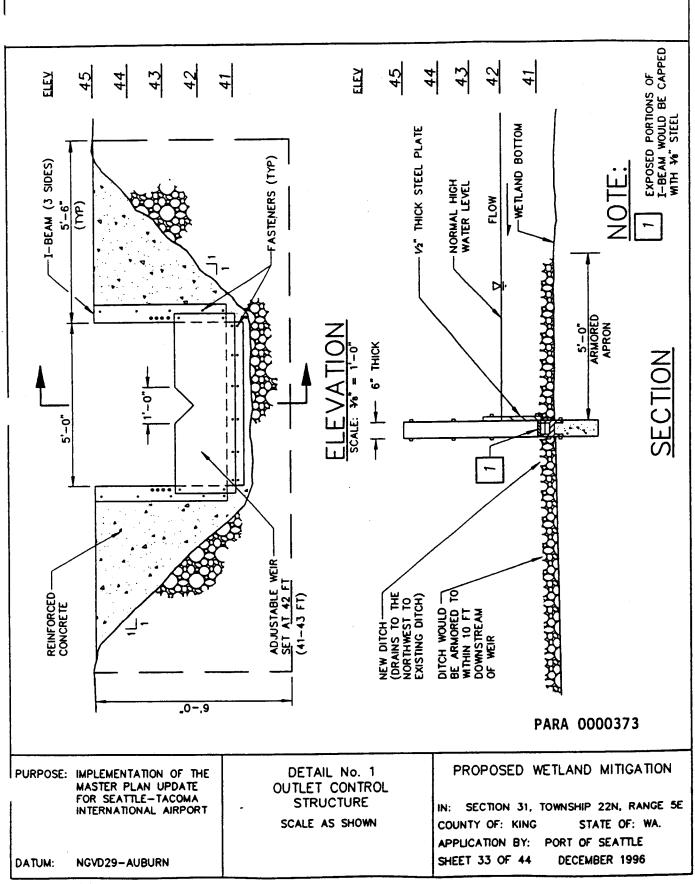


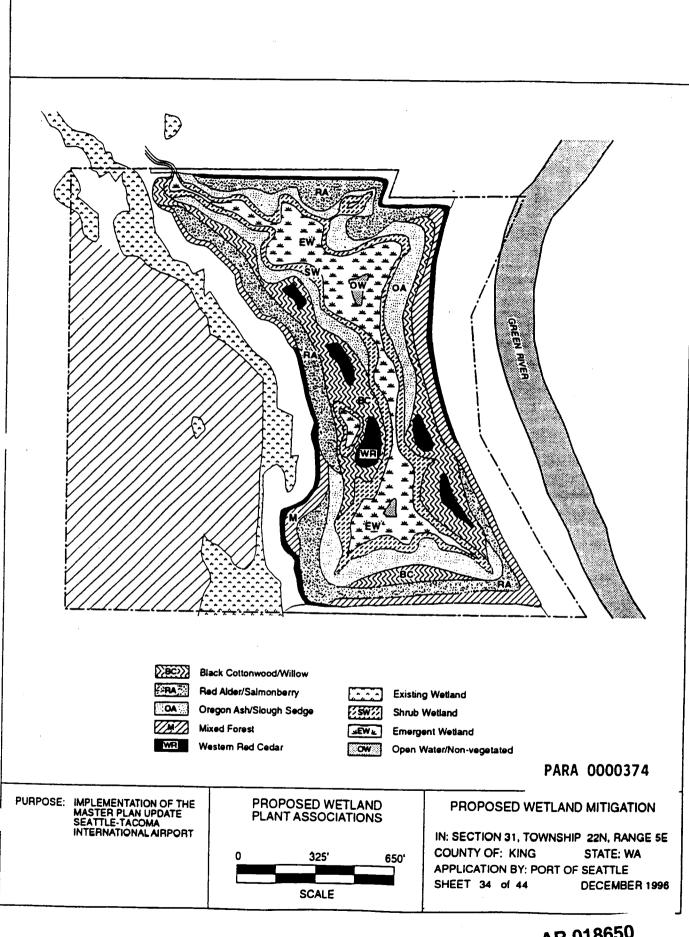


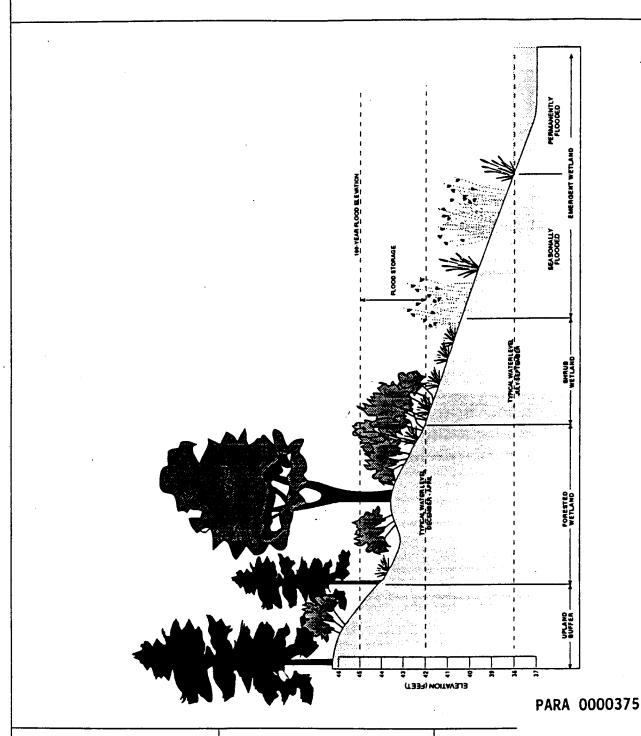












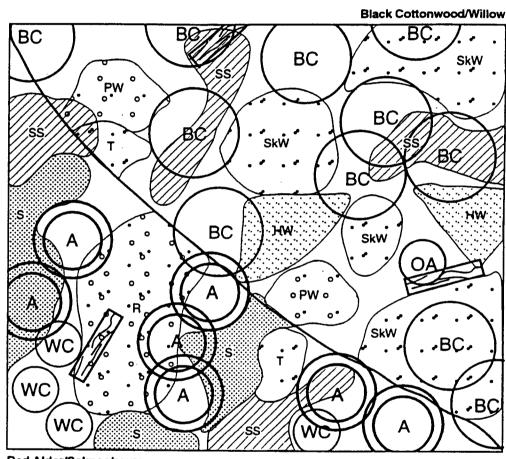
PURPOSE: IMPLEMENTATION OF THE MASTER PLAN UPDATE SEATTLE-TACOMA INTERNATIONAL AIRPORT

RELATIONSHIP OF SEASONAL WATER LEVEL VARIATIONS TO PROPOSED WETLAND VEGETATION

NOT TO SCALE

PROPOSED WETLAND MITIGATION

IN: SECTION 31, TOWNSHIP 22N, RANGE 5E COUNTY OF: KING STATE: WA APPLICATION BY: PORT OF SEATTLE SHEET 35 of 44 DECEMBER 1996



Red Alder/Salmonberry

PARA 0000376

PURPOSE: IMPLEMENTATION OF THE MASTER PLAN UPDATE SEATTLE-TACOMA INTERNATIONAL AIRPORT

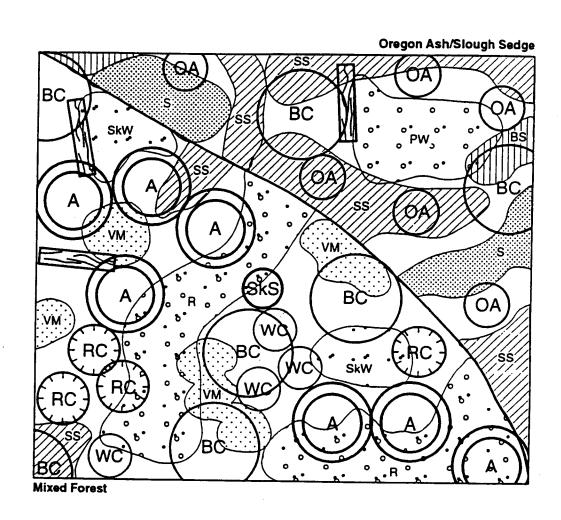
TYPICAL PLANTING PLAN BLACK COTTONWOOD/ WILLOW AND RED ALDER/ SALMONBERRY ZONES

NOT TO SCALE

PROPOSED WETLAND MITIGATION

IN: SECTION 31, TOWNSHIP 22N, RANGE 5E COUNTY OF: KING STATE: WA APPLICATION BY: PORT OF SEATTLE SHEET 36 of 44 **DECEMBER 1996**

Black Cottonwood/Will			0	Comments
Scientific Name	Common Name	Symbol	Condition	Comments
Trees				
Fraxinus latifolia	Oregon ash	OA)	container	Trees would be planted at densities of at least 120 plants per acre.
Populus trichocarpa Salix lasiandra	black cottonwood Pacific willow	BC PW _p	container/bareroot bareroot/livestake	
Shrubs Lonicera involucrata	twinberry	<u></u>	container	Approximately 35 to 50% of this association would be planted with shrub: Spacing would be about 5 ft on center.
Salix hookeriana Salix sitchensis	Hooker's willow Sitka willow	SkW	bareroot/livestake bareroot/livestake	
Herbs Carex obnupta	slough sedge	(\$\$)	plug/seed	10 to 15% of the association would be planted with slough sedge. The remainin area would be seeded with a grass groundcover.
Downed Log				
Red Alder/Salmonbern	v Zone			
Scientific Name	Common Name	Symbol	Condition	Comments
_				
Trees Alnus rubra	red alder		container	Trees would be planted at densities of at least 120 plants per acre.
Pyrus fusca	western crabapple	wc	container	•
Shrubs				
Cornus stolonifera	red-osier dogwood	I [®] R₀	bareroot/livestake	40 to 50% of the area would be planted with shrubs at an approximate spacing 5 ft on center.
Lonicera involucrata Rubus spectabilis	twinberry salmonberry	T	container container/bareroot	•
Herbs Carex obnupta	slough sedge	(SS)	plug/seed	Slough sedge would be planted in 10 to 20% of the association. The remaining area would! be seeded with a grass
Downed Log			3	groundcover. PARA 0000377
PURPOSE: IMPLEMENTATIO MASTER PLAN U SEATTLE-TACON INTERNATIONAL	PDATE B	LACK COT LOW AND	NTING PLAN TONWOOD/ RED ALDER/ RRY ZONES	PROPOSED WETLAND MITIGATION IN: SECTION 31, TOWNSHIP 22N, RANGE 5 COUNTY OF: KING STATE: WA APPLICATION BY: PORT OF SEATTLE SHEET 37 of 44 DECEMBER 1996



PURPOSE: IMPLEMENTATION OF THE MASTER PLAN UPDATE SEATTLE-TACOMA INTERNATIONAL AIRPORT

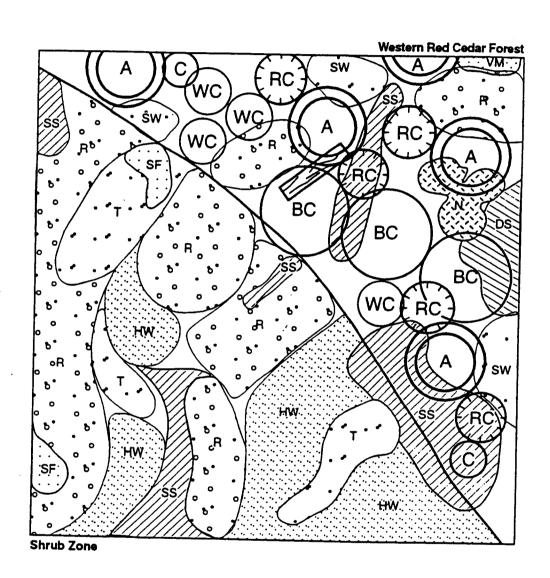
TYPICAL PLANTING PLAN OREGON ASH/SLOUGH SEDGE AND MIXED FOREST ZONES

NOT TO SCALE

PROPOSED WETLAND MITIGATION

IN: SECTION 31, TOWNSHIP 22N, RANGE 5E COUNTY OF: KING STATE: WA APPLICATION BY: PORT OF SEATTLE SHEET 38 of 44 **DECEMBER 1996**

Scientific Name	Common Name	Symbol	Condition	Comments
Trees				
Fraxinus latifolia	Oregon ash	OA)	container	At least 150 trees per acre would planted in this association.
Salix lasiandra	Pacific willow	PW	bareroot	planted in this association.
Populas trichocarpa	Black Cottonwood	BC	container/livesta	ake
Shrubs Rubus spectabilis	salmonberry		container/barero	oot 10 to 20% of the area would be plant with salmonberry at spacings of at least 5 ft on center.
Herbs				
Carex obnupta	slough sedge	(\$S)	plug/seed	40 to 50% of this association would be planted and/or seeded with sloug sedge. The remaining area would be
Carex rostrata	beaked sedge	(BS)	plug	seeded with a grass groundcover.
Downed Log				
Mixed Forest Zone				
Scientific Name	Common Name	Symbol	Condition	Comments
Trees				
Alnus rubra	red alder	(a)	container	At least 120 trees per acre would be planted in this association.
Picea sitchensis Populus trichocarpa Pyrus fusca Thuja plicata	Sitka spruce black cottonwood western crabapple western red cedar	(8) (8) (8) (8)	container container/barero container container	
Shrubs				
Acer circinatum	vine maple	(VM)	container	40 to 50% of the area would be plant with shrubs at spacings of
Cornus stolonifera Salix sitchensis	red-osier dogwood Sitka willow	R . SkW	bareroot/livestak	•
lerbs				
Carex obnupta Downed Log	slough sedge	(\$\$)	plug/seed	2 to 10% of the area would be plant with slough sedge. The remaining are would be seeded with a grass groundcover.
				PARA 0000379
OSE: IMPLEMENTATION OF MASTER PLAN UPDATE TAXONAL		L PLANTII ON ASH/S	NG PLAN	PROPOSED WETLAND MITIGATION
SEATTLE-TACOMA INTERNATIONAL AIRP	ORT SED	GE AND N REST ZO	MIXED	IN: SECTION 31, TOWNSHIP 22N, RANGE 58 COUNTY OF: KING STATE: WA APPLICATION BY: PORT OF SEATTLE SHEET 39 of 44 DECEMBER 1996



PURPOSE: IMPLEMENTATION OF THE MASTER PLAN UPDATE SEATTLE-TACOMA INTERNATIONAL AIRPORT

TYPICAL PLANTING PLAN WESTERN RED CEDAR FOREST AND SHRUB ZONES

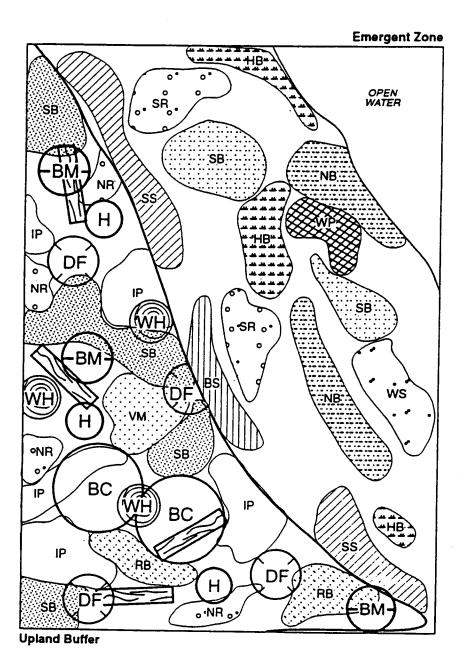
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NOT TO SCALE

PROPOSED WETLAND MITIGATION

IN: SECTION 31, TOWNSHIP 22N, RANGE 5E COUNTY OF: KING STATE: WA APPLICATION BY: PORT OF SEATTLE SHEET 40 of 44 DECEMBER 1996

Scientific Name	Common Name	Symbol	Condition	Comments
Trees				
Alnus rubra	red alder			A.A
Alfius rubra	red alder	(a)	container	At least 150 trees per acre would be planted in this association.
Populus trichocarpa	black cottonwood	(BC)	container/barero	•
Pyrus fusca	western crabappie	₩ €	container	
Rhamnus purshiana	cascara	(a)	container	
Thuja plicata	western red cedar	(AC)	container	
Shrubs				
Acer circinatum	vine maple	(VM)	container	20 to 30% of the area would be
	····o mapic		Container	planted with shrubs. Spacing would
				be approximately 5 ft on center.
Cornus stolonifera	red-osier dogwood	(°R .)	bareroot/livestake	
Physocarpos capitatus		CONS.	container	
Salix scouleriana	Scouler's willow		bareroot/livestake	
		(we)	Dai Crooviii estant	•
Herbs				
Carex deweyana	Dewey's sedge	OS	plug	15 to 25% of the area would be planted
			, •	with sedges. The remaining area
				would be seeded with a grass
		_		groundcover.
Carex obnupta	slough sedge	(\$\$	plug/seed	· ·
			.'	
Shrub Zone				
Scientific Name	Common Name	Symbol	Condition	Comments
2hh				
Shrubs <i>Cornus stolonifer</i> a				
Cornus Stoionilera	red-osier dogwood	(H)	bareroot/livestake	Shrubs would be planted in
				approximately 85 to 90% of the shru
				zone at spacings ranging from 5 to 8
Lonicera involucrata				ft on center.
	4.4.4.	(T)		
Saliv hookeriana	twinberry		container	
Salix hookeriana	twinberry Hooker's willow		container bareroot/livestake	
Salix hookeriana Herbs				
Herbs	Hooker's willow	Fiw.)	bareroot/livestake	5 to 10% of the about a rose would be
		Fiw.)		
Herbs	Hooker's willow	Fiw.)	bareroot/livestake	planted and/or seeded with emerger
lerbs	Hooker's willow	Fiw.)	bareroot/livestake	planted and/or seeded with emerger species. The remaining area would be
lerbs	Hooker's willow	(SS)	bareroot/livestake	planted and/or seeded with emerger
ilerbs Carex obnupta	Hooker's willow	(SS)	bareroot/livestake	5 to 10% of the shrub zone would be planted and/or seeded with emerger species. The remaining area would be seeded with a grass groundcover.
ierbs Carex obnupta	Hooker's willow slough sedge small-fruited	(SS)	bareroot/livestake	planted and/or seeded with emerger species. The remaining area would be seeded with a grass groundcover.
ilerbs Carex obnupta	Hooker's willow slough sedge small-fruited	(SS)	bareroot/livestake	planted and/or seeded with emerger species. The remaining area would be
Herbs Carex obnupta Scirpus microcorpus	Hooker's willow slough sedge small-fruited bulrush	SF S	bareroot/livestake plug/seed seed	planted and/or seeded with emerger species. The remaining area would be seeded with a grass groundcover. PARA 0000381
Herbs Carex obnupta Scirpus microcorpus PRPOSE: IMPLEMENTATION O	Hooker's willow slough sedge small-fruited bulrush F THE TYPIC	SF S	bareroot/livestake plug/seed seed	planted and/or seeded with emerger species. The remaining area would be seeded with a grass groundcover.
Herbs Carex obnupta Scirpus microcorpus RPOSE: IMPLEMENTATION O MASTER PLAN UPDA SEATTLE-TACOMA	Hooker's willow slough sedge small-fruited bulrush F THE TYPIC WESTER	SF S	bareroot/livestake plug/seed seed ING PLAN DAR FOREST	planted and/or seeded with emerger species. The remaining area would be seeded with a grass groundcover. PARA 0000381 PROPOSED WETLAND MITIGATION
Herbs Carex obnupta Scirpus microcorpus RPOSE: IMPLEMENTATION O	Hooker's willow slough sedge small-fruited bulrush F THE TYPIC WESTER	SF S	bareroot/livestake plug/seed seed ING PLAN DAR FOREST	planted and/or seeded with emerger species. The remaining area would be seeded with a grass groundcover. PARA 0000381 PROPOSED WETLAND MITIGATION IN: SECTION 31, TOWNSHIP 22N, RANGE 5
Aerbs Carex obnupta Scirpus microcorpus APOSE: IMPLEMENTATION O MASTER PLAN UPDA SEATTLE-TACOMA	Hooker's willow slough sedge small-fruited bulrush F THE TYPIC WESTER	SF S	bareroot/livestake plug/seed seed ING PLAN DAR FOREST	planted and/or seeded with emerger species. The remaining area would be seeded with a grass groundcover. PARA 0000381 PROPOSED WETLAND MITIGATION IN: SECTION 31, TOWNSHIP 22N, RANGE 5 COUNTY OF: KING STATE: WA
Herbs Carex obnupta Scirpus microcorpus RPOSE: IMPLEMENTATION O MASTER PLAN UPDA SEATTLE-TACOMA	Hooker's willow slough sedge small-fruited bulrush F THE TYPIC WESTER	SF S	bareroot/livestake plug/seed seed ING PLAN DAR FOREST	planted and/or seeded with emerger species. The remaining area would be seeded with a grass groundcover. PARA 0000381 PROPOSED WETLAND MITIGATION IN: SECTION 31, TOWNSHIP 22N, RANGE 5



PROPOSED WETLAND MITIGATION

PURPOSE: IMPLEMENTATION OF THE MASTER PLAN UPDATE SEATTLE-TACOMA INTERNATIONAL AIRPORT

TYPICAL PLANTING PLAN **EMERGENT AND UPLAND BUFFER ZONES**

COUNTY OF: KING

IN: SECTION 31, TOWNSHIP 22N, RANGE 5E

APPLICATION BY: PORT OF SEATTLE

STATE: WA

SHEET 42 of 44

DECEMBER 1996

NOT TO SCALE

Scientific Name	Common Name	Symbol	Condition	n Comments
Herbs Carex obnupta	slough sedge	(SS)	plug	50 to 75% of the emergent zone wou be planted with the listed plant specie The remaining area would be seeded (with grasses, sedges, and rushes) or
Carex rostrata Eleocharis palustris Oenanthe sarmentosa Polygonum amphibian Scirpus acutis Scirpus microcarpus Sparganium emersum	beaked sedge common spike-rusi water parsley water smartweed hardstem bulrush small-fruited bulrus narrow-leaf burreed Hydroseed mix/ Natural colonization	H SB	plug plug container container plug seed plug	
Upland Buffer Zone Scientific Name	Common Name	Symbol	Condition	Comments
Trees Acer macrophyllum	big-leaf maple	⊕M)	container	At least 120 trees per acre would be planted in the upland buffer.
Populus trichocarpa Pseudotsuga menziesii Tsuga heterophylla	black cottonwood Douglas-fir western hemlock	6	container/ba container container	reroot
Shrubs				
Acer circinatum	vine maple	(VM)	container	30 to 40% of the area would be planted with shrubs at spacings ranging from 5 to 6 ft on center.
Corylus cornuta Oemeleria cerasiformis Rosa nutkana Symphoricarpos albus	hazelnut Indian plum nootka rose snowberry	IP O	container container container container	PARA 0000383
POSE: IMPLEMENTATION OF TH MASTER PLAN UPDATE SEATTLE-TACOMA INTERNATIONAL AIRPOR	EMERGE	PLANTING NT AND UPI FER ZONES	LAND	PROPOSED WETLAND MITIGATION IN: SECTION 31, TOWNSHIP 22N, RANGE 5E COUNTY OF: KING STATE: WA APPLICATION BY: PORT OF SEATTLE SHEET 43 of 44 DECEMBER 1996

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PARA 0000384

PURPOSE: IMPLEMENTATION OF THE MASTER PLAN UPDATE FOR SEATTLE—TACOMA INTERNATIONAL AIRPORT

DATUM: NGVD29—AUBURN

PROPOSED WETLAND MITIGATION

IN: SECTION 31, TOWNSHIP 22N, RANGE 5E

COUNTY OF: KING STATE OF: WA.

APPLICATION BY: PORT OF SEATTLE

SHEET 44 OF 44 DECEMBER 1996

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ATTACHMENT A

SEA-TAC INTERNATIONAL AIRPORT

Portions of the east half of Section 20, Section 21, Section 28, the east half of Section 29, the east half of Section 32 and Section 33, all in Township 23 North, Range 4 East, W.M. in the King County, Washington described as follows: Beginning at the intersection of the east margin of 12th Avenue South with the south margin of State Sign Route 518; thence easterly and southerly along said south margin and then continuing along the westerly margin of the Sea-Tac Airport Access Freeway to the projected south margin of South 160th Street; thence easterly along said south margin to the projected south margin of South 160th Street; thence easterly along said south margin to the easterly margin of said freeway; thence along said easterly margin to a point where it intersects the westerly margin of International Boulevard (SR 99); thence southerly along said westerly margin to the south line of the northeast quarter of Section 33, Township 23 North, Range 4 East; thence west along said line to the projected west margin of 28th Avenue South; thence southerly along said margin to the intersection with the north margin of South 188th Street; thence westerly and northwesterly along said north margin of South 188th Street and 12th Place South to the intersection with the easterly margin of State Sign Route 509; thence northerly along said margin to intersection with the south margin of South 176th Street; thence easterly along said south margin to the east margin of 12th Avenue South; thence northerly along said easterly margin of 12th Avenue South to the point of beginning.

Assessed in Tax Lot 16 in the Southeast quarter of Section 28, Township 23 North, Range 4 East, W.M.

ATTACHMENT B

POTENTIAL IMPACTS TO WATER QUALITY AND FISHERIES

A complete description of impacts to surface water, fisheries, and wetlands is included in Sections 10, 11, and 16 of Chapter IV, and Appendices F, H, and P, of the Final EIS for Proposed Master Plan Update Development Actions at Seattle-Tacoma International Airport (1996), and summarized below.

Impacts to Des Moines Creek will occur in later phases of construction activity. Specific construction plans have not been developed for the later phases, therefore a separate permit application for construction in Des Moines Creek will be submitted later once precise impacts to Des Moines Creek and its tributary are known. However, certain impacts, such as the addition of surface water volume into the stream as a result of increased impervious surface in the watershed and wetland fill can be reasonably quantified now and will be discussed here.

Streams

Although salmonids have not been captured in the reach of Miller Creek most affected by the Master Plan Update Improvements, cutthroat trout may occur there. Downstream reaches do support other salmonids and contain spawning habitat. Potential construction impacts to streams and fisheries resources relate to short-term increases in total suspended solids (TSS) from erosion and sedimentation and temporary loss of habitat due to creek relocation. Contaminants such as heavy metals and oil and grease from construction machinery tend to cling to sediments. The primary mechanism for delivery of sediment from the construction sites to the streams is in stormwater runoff as suspended solids. Since Phase I of the Master Plan Update Improvements covers the most area, it is likely to have the greatest impact on water resources. Construction of all phases is expected to increase TSS from 11 to 27 percent in Miller Creek and 14 to 36 percent for Des Moines Creek during and immediately after construction. As vegetation becomes established the first year after construction, sediment loading should decrease exponentially. Following construction, overall increase of sediment inputs into both Miller and Des Moines Creek will increase up to 4 percent per year compared to existing total loading.

Phase I construction will directly impact Miller Creek in three areas (see Miller Creek Relocation Plan, attached). Fill material will be placed in portions of the channelized mainstem and two drainage channels.

Operational impacts associated with the Master Plan Update Improvements are related to increased stormwater runoff due to the increase in impervious surfaces. Additional stormwater runoff will potentially increase the rate and duration of flows within the stream channels after storms. Proposed stormwater management facilities will remove most of the pollutants contained within the stormwater, but minor increases in heavy metals and oil and grease are likely to reach Miller and Des Moines Creeks. Stormwater runoff may also contain glycols and urea (used as de-icers in the winter).

B-1

Increased impervious surface area will contribute to reduced groundwater recharge, possibly reducing baseflows to the streams within the affected watersheds. Reduced baseflows could increase stream temperature and decrease dissolved oxygen levels which, in turn, could affect stream-dwelling organisms.

Stream Mitigation - Methods identified to reduce the duration and severity of both construction and operational impacts to surface water quality and fisheries resources are described in detail in the Final EIS. Generally, the following measures will be implemented before and during construction:

- An approved stormwater pollution prevention plan (including wet vaults and bioswales);
- An erosion and sedimentation control plan (including mulching, silt fencing, sediment basins, and check dams);
- Infiltration facilities;
- · A spill prevention, control and countermeasures plan; and
- Best Management Practices.

In order to compensate for filling portions of Miller Creek as part of Phase I construction, a new segment of stream will be created. A thorough discussion of these mitigation measures are included in the attached Miller Creek Relocation Plan.

Wetlands

Approximately 12.23 acres of wetlands will be filled. The wetlands that will be filled are generally in close proximity to the existing airport facilities. Affected wetland classes are: 7.34 acres of forested wetland; 2.01 acres of scrub/shrub wetland; and 2.88 acres of emergent wetland. The affected wetlands are typically small and isolated from true aquatic or high quality upland habitat. For these reasons, and because they lack complex habitat features, they are generally of low functional value. A complete description of wetlands in the impact area is included in the attached Wetland Mitigation Plan.

Riparian wetlands along Miller and Des Moines Creeks downstream of the proposed projects may be indirectly affected by increased stormwater runoff. Since the mitigation measures mentioned above will be implemented prior to commencing construction activities, indirect impacts to wetlands should be minimal.

Wetland Mitigation - In order to reduce the duration and severity of impacts to wetlands, numerous mitigation measures have been undertaken, including avoidance. For example, Borrow Area 8 was identified as affecting a large area of higher quality wetlands. To reduce wetland impacts, Borrow Area 8 was eliminated from the project, reducing wetland fill from about 26 acres to 12.23 acres.

Compensatory wetland mitigation is proposed on an off-site location to maximize the benefits of replacing many small wetlands with one large wetland. An overall replacement ratio of 1.7:1 will be achieved at one location in Auburn, Washington. Since the mitigation site is adjacent to the Green River, it will function as part of a larger ecosystem. The attached Wetland Mitigation Plan describes the mitigation program in detail.

ATTACHMENT C JURISDICTIONAL WETLAND DELINEATION

ATTACHMENT D

Federal Permits/Approvals

Federal Aviation Administration
Record of Decision
Air Quality Conformity Decision
Approval of Airport Layout Plan

United States Army Corps of Engineers Section 404 Permit*

State Permits/Approvals

Department of Ecology
Water Quality Certification*
National Pollutant Discharge Elimination System
Temporary Modification of Water Quality*
Dam Safety Approval

Department of Fish and Wildlife Hydraulic Project Approval*

Department of Natural Resources
Forest Practices Permit

Governors Clean Air and Water Certification

Local Permits/Approvals

Puget Sound Regional Council review
Port of Seattle Commission project decisions
City of SeaTac Comprehensive Plan and Zoning process
City of Auburn Clearing and Grading permit
Demolition permits

*=Covered by this application

WETLAND DETERMINATION INTERMEDIATE-LEVEL ONSITE METHOD SOILS, HYDROLOGY & SUMMARY

SOILS

Project Number: 6943017

Project/Site: SeaTac - Borrow sites - Area 8

Field Investigator(s): AS/JT

Date: 12/12/94

Sample Piot #: 26

SCS Mapping Unit: Not mapped (Urban land)

Field Identification: Inclusion Is soil on hydric soils list? no

Is soil a histosol? no

Histic epipedon present? yes

Is soil mottled? yes -

is soil gleyed? yes

Horizon	Horizon Depth	Texture	Matrix Color	Mottle Color	Occurrence of Mottles	Color	Organic Content
Oa	0-10	mucky loam	10YR 3/1				
В	10-18	sandy loam		7.5YR 4/6	f, 1, f	5Y 2.5/1	

Landform/Topography: depression in flat area in rolling terrain

Comments:

Hydric Soils? YES

Basis: Histic epipedon, low chroma, mottles

ls ground surface inunda	ited? no	Surface water depth:	
ls soil saturated? yes		Depth to saturation: surface	
Depth to free-standing w	ater in pit: 14 inches		
☐ Yes 図 No -On	idized root zones	☐ Yes 配 No -Water-stained leaves	
☐ Yes 🎛 No -Wa	iter marks	Yes No -Surface scoured areas	
☐ Yes 図 No -Dr	ft lines		
∏ Yes 55 NoW	iter-borne sediment deposits	Yes No -Wetland drainage patterns Yes No -Morphological plant adaptations	

Comments:

Wetland Hydrology? YES

Basis: Saturated at 14 inches

SUMMARY

Do normal environmental conditions exist at the plant community? yes Has the vegetation, soils, and/or hydrology been significantly disturbed? no

Disturbed area? no

Basis: no recent disturbance

Problem area? no

Basis: normal environmental conditions observed

Comments:

is the hydrophytic vegetation criterion met? YES

Is the hydric soil criterion met?

YES

Is the wetland hydrology criterion met?

YES

is the vegetation unit or plot wetland?

YES

Rationale for jurisdictional decision: All three parameters satisfy wetland criteria.

Project Number: 6943017

Project/Site: SeaTac - Borrow sites - Area 8

Date: 12/12/94

Sample Plot #: 27

Field	investi	gator(s):AS/JT

Herbs & Bryophytes	Indicator Status**	% Areal Cover	Cover Class	Midpoint	Rank
Glyceria grandis	OBL	2	1	3.0	3
Scirpus microcarpus	OBL	10	2	10.5	2
Epilobium watsonii	FACW	8	2	10.5	2
Juncus effusus	FACW	6	2	10.5	2
Phalaris arundinacea	FACW	30	4	38.0	1*
Equisetum arvense	FAC	5	1	3.0	3
Polystichum munitum	FACU	10	2	10.5	2
Athyrium filix-lemina	FAC	50	4	38.0	1*
	Sum	of Midpoint	s:	124.0	
		ce Threshold		620	

Shrubs	indicator Status	% Areal Cover	Cover	Midpoint	Rank
Rubus discolor	FACU	25	3	20.5	1*

Sum of Midpoints: Dominance Threshold:

20.5 10.3

Indicator Status** Cover Saplings Midpoint Rank Populus trichocarpa FAC 20 3 -20.5 1. Sum of Midpoints: 20.5

Dominance Threshold:

10.3

Indicator % Areal Cover Class Trees Status" Midpoint Cover Rank

Sum of Midpoints: Dominance Threshold:

% of Dominants that are OBL, FACW, and/or FAC:

3/4 - 75%

Hydrophytic Vegetation?

YES

Comments: PEM.

WETLAND DETERMINATION INTERMEDIATE-LEVEL ONSITE METHOD SOILS. HYDROLOGY 2 SUMMARY

SOILS. HYDROLOGY & SUMMARY Project Number: 6943017 Date: 12/12/94 Project/Site: SeaTac - Borrow sites - Area 8 Sample Plot #: 27 Field Investigator(s): AS/JT SOILS SCS Mapping Unit: Not mapped (Urban land) Is soil a histosol? no Field identification: Urban land Histic epipedon present? no Is soil on hydric soils list? no is soil mottled? yes Is sail gleyed? yes Horizon Depth Matrix Color Lottle Color Horizon Texture Color of Motties A 0-12 bam 10YR 2/0 В 12-18 sandy loam 7.5YR 4/6 c, 1-2, d 10Y 4/1 10GY4/1 Landform/Topography: Slight slope. Slight depression. Comments: Hydric Soils? YES Basis: Low chroma, mottles, gley HYDROLOGY = Is ground surface inundated? no Surface water depth: Is soil saturated? yes Depth to saturation: surface Depth to free-standing water in pit: ☐ Yes ☐ No -Oxidized root zones ☑ Yes ☐ No -Water-stained leaves Yes No -Water marks ☐ Yes █ No -Surface scoured areas ☐ Yes 🖾 No -Drift lines Yes No -Wetland drainage patterns ☐ Yes ☑ No -Water-borne sediment deposits ☐ Yes ☑ No -Morphological plant adaptations Comments: Water slowly seeping into pit at about 6 inches. Inundated areas throughout the wetland - 1-6 inches. Wetland Hydrology? YES Basis: Saturation to surface SUMMARY Do normal environmental conditions exist at the plant community? yes Has the vegetation, soils, and/or hydrology been significantly disturbed? no Disturbed area? no Basis: no recent disturbance Problem area? no Basis: normal environmental conditions observed Comments: Is the hydrophytic vegetation criterion met? YES is the hydric soil criterion met? YES Is the wetland hydrology criterion met? YES Is the vegetation unit or plot wetland? YES

Rationale for jurisdictional decision: All three parameters satisfy wetland criteria.

Project Number: 6943017

Date: 12/20/94

Project/Site: SeaTac - Borrow sites - Area 8

Sample Plot #: 28

Field investigator(s): AS/CW

Herbs & Bryophytes	indicator Status	% Areal Cover	Cover Ciass	Midpoint	Rank	
Cirsium arvense	FACU+	18	3	20.5	2*	
Festuca arundinacea	FAC-	2	1	3.0	4	
Urtica dioica	FAC+	10	2	10.5	3	-
Phalaris arundinacea	FACW	25	3	20.5	2•	
Brassica nigra	FAC**	10-	2	10.5	3	
Agrostis stolonifera	FAC*	40	4	38.0	1*	
	Sum	of Midpoint	s :	103.0		

Dominance Threshold:

51.5

Indicator Cover Shrubs Status** Cover Rank **Midpoint**

> Sum of Midpoints: Dominance Threshold:

Indicator Status** % Area Cove Saplings Cover Midpoint

> Sum of Midpoints: Dominance Threshold:

Indicator % Areal Trees Status" Cover Midpoint

> Sum of Midpoints: Dominance Threshold:

% of Dominants that are OBL, FACW, and/or FAC:

2/3 - 67%

Hydrophytic Vegetation?

YES

Comments: PEM.

Plot located in flat area east of Lake Reba.

To determine dominants, first rank spaces by midpoints. Then sum midpoints in or until 50% of total for all spaces (dominance streament) is immediately exceeded. All spaces commissions to this curruntive total plus any others having 20% of the total midpoint value are marked with an assent.

WETLAND DETERMINATION INTERMEDIATE-LEVEL ONSITE METHOD SOILS. HYDROLOGY & SUMMARY

Project Number: 6943017

Date: 12/20/94

Project/Site: SeaTac - Borrow sites - Area 8

Sample Plot #: 28

Field Investigator(s): AS/CW

SOILS

SCS Mapping Unit: Not mapped (Urban land)

is soil a histosol? no

Field Identification: Urban land

Histic epipedon present? no

Is soil on hydric soils list? no

Is soil mottled? no

Is soil gleyed? m

Horizon	Horizon Depth	Texture	Matrix Color	Mottle Color	Occurrence of Mottles	Caley Color	Organic Content
A .	0-8	loam	10YR 2/1				m
В	8-12+	gravelly sandy loam	10YR 2/1				m/h

Landform/Topography: flat

Comments: wood chunks below 8 inches.

Hydric Soils? YES

Basis: Low chroma

s ground surface inuncts soil saturated?	jated? no yes	Surface water depth: Depth to saturation: surface
☐ Yes 図 No -W	oxidized root zones Vater marks	☐ Yes ☑ No -Water-stained leaves ☐ Yes ☑ No -Surface scoured areas ☐ Yes ☑ No -Wetland drainage patterns ☐ Yes ☑ No -Morphological plant adaptations
neden. Did dura durina an	orm with heavy precipitation.	

We

SUMMARY

Do normal environmental conditions exist at the plant community? yes Has the vegetation, soils, and/or hydrology been significantly disturbed? no

Disturbed area? no

Basis: no recent disturbance

Problem area?

Basis: normal environmental conditions observed

Comments:

Co

is the hydrophytic vegetation criterion met? YES is the hydric soil criterion met? YES is the wetland hydrology criterion met? YES Is the vegetation unit or plot wetland? YES

Rationale for jurisdictional decision: All three parameters satisfy wetland criteria.



Project/Site: SeaTac - Operations area

Field Investigator(s): AS, CW

Sample Plot #: 29 Date: 9/1/94

Herbs & Bryophytes	Indicator Status**	% Areal Cover	Cover Class	Midpoint	Rank	
Equisetum arvense	FAC	60	60 5		1*	
Typha latifolia	OBL	15	2	10.5	2	
Epilobium watsonii	FACW	12	2	10.5	2	
Holcus lanatus	FAC	6	2	10.5	2	
Agrostis sp.	FACW-FACU	1	1	3.0	3	
	Sum	97.5				

Dominance Threshold:

48.8

Shrubs	Indicator Status**	% Areal Cover	Cover Class	Midpoint	Rank
Rubus laciniatus	FACU+	1	1	3.0	2
Rubus discolor	FACU	10	2	10.5	. 1*
· .	Sui	m of Midpoin		13.5	

Dominance Threshold:

6.8

Indicator Status Cove Saplings Cover Midpoint Rank

> Sum of Midpoints: Dominance Threshold:

Indicator Cover Trees Cover Midpoint Rank

> Sum of Midpoints: Dominance Threshold:

% of Dominants that are OBL, FACW, and/or FAC:

1/2 = 50%

Hydrophytic Vegetation?

YES

Comments:

and a common section of the sections are the constitutions are also because the constitution of the consti

WETLAND DETERMINATION INTERMEDIATE-LEVEL ONSITE METHOD SOILS, HYDROLOGY & SUMMARY



Project/Site: SeaTac - Operations area

Field Investigator(s): AS, CW

Sample Plot #: 29

Date: 9/1/94

TOILS

SCS Mapping Unit: Unclassified (Urban Land)

Field Identification: Urban Land Is soil on hydric soils list? NO

ls soil a histosol? Histic epipedon present? NO

is soil mottled? YES

Is soil gleyed? YES

and a straight at the and the Complete wanter the print the construction of the construction of the

Horizon Matrix Mottle Occurrence Organic Content Horizon Texture Color Depth Color of Mottles 10YR 4/2 0-6 bam med/hi В 6-12silt loam 5Y5/2 10YR 5/6 C.1.P **5**Y**5**/1

Landform/Topography: Steep fill material.

Comments: Soil on steep fill material deposited as foundation for runways

Hydric Soils? YES

Basis: Low chroma, mottles

HYDROLOGY

Is ground surface inundated? NO Is soil saturated?

YES

Surface water depth: NA

Depth to saturation: 8"

Depth to free-standing water in pit: 12"

X Oxidized root zones

Water marks Drift lines

Water-borne sediment deposits

Water-stained leaves Surface scoured areas

Wetland drainage patterns Morphological plant adaptations

Comments: Water discharges along steep hillside (up to 45%).

Wetland Hydrology? YES

Basis: Saturation, wetland drainage patterns, oxidized root zones.

Do normal environmental conditions exist at the plant community? YES

Has the vegetation, soils, and/or hydrology been significantly disturbed? NO

Disturbed area? NO

Basis: no recent disturbance

Problem area? NO

Basis: normal environmental conditions observed

SUMMARY

Comments: Wetland associated with a hillside seep.

is the hydrophytic vegetation criterion met? YES

is the hydric soil criterion met?

YES

is the wetland hydrology criterion met?

YES

Is the vegetation unit or plot wetland?

Rationale for jurisdictional decision: All three wetland parameters met



Project/Site: SeaTac - Operations area

Field Investigator(s): AS, CW

Sample Plot #: 30

Date: 8/25/94

Herbs & Bryophytes	lerbs & Bryophytes Indicator Status**		Cover Class	Midpoint	Rank
Athyrium filix-lemina	FAC	35	4	38.0	1*
Polystichum munitum	FACU	10	2	10.5	3
Equisetum telmateia	FACW	25	3	20.5	2*
Lysichitum americanum	OBL	10	2	10.5	3
Phalaris arundinacea	FACW	5	1	3.0	4

Sum of Midpoints:

82.5 41.3

Dominance	Threshold:

Shrubs	indicator Status**	% Areal Cover	Cover Class	Midpoint	Rank
Rubus spectabilis	FAC+	35	4	38.0	.1*
Oemleria cerasiformis	FACU	5	1	3.0	2
Rubus ursinus	FACU	5	1	3.0	2
Corylus comuta	FACU	3.0	2		
	Su	n of Midpoin	ts:	47.0	
		nce Thresho		23.5	
Saplings	Indicator Status	% Areal Cover	Cover	Midpoint	Rank

Sum of Midpoints: Dominance Threshold:

Trees	Indicator Status**	% Area! Cover			Rank
Alnus rubra	FAC	70	5	63.0	1*
Acer macrophyllum	FACU	10	2	10.5	2
	Sur	n of Midpoin	ts:	73.5	
	Domina	36.8			

% of Dominants that are OBL, FACW, and/or FAC:

4/4 = 100%

Hydrophytic Vegetation?

YES

Comments:

To determine dominants, first rank species by mispeints. Then aum mispeints in one until SONs of testil or all species (dominance hierarchild) is introducibly exceeded. All species contributing to this cumulative straig plus any others having 20% of the total mispers with a misser of the first with the similar of the straight of "Species that do not appear on the National List (Reed, 1986) may have been assigned an indicate

WETLAND DETERMINATION INTERMEDIATE-LEVEL ONSITE METHOD SOILS, HYDROLOGY & SUMMARY



Project/Site: SeaTac - Operations area

Field Investigator(s): AS, CW

Sample Plot #: 30

THE THE PARTY OF T

Date: 8/25/94

SOILS

SCS Mapping Unit: Unclassified (Urban Land)

Field Identification: Urban Land Is soil on hydric soils list? NO

Is soil a histosol? NO

Histic epipedon present? NO

Is soil mottled? NO Is soil gleyed? YES

Hortzon	Horizon Depth	Texture	Matrix Color	Mottle Color	Occurrence of Mottles	Gley Color	Organic Content
A	0-10°	sandy loam	10YR 3/1		· · · · · · · · · · · · · · · · · · ·		med/hi
В	10-18"	sandy loam				5GY 4/1 5Y 4/1	med/hi

Landform/Topography: East-west oriented ravine.

Comments:

Hydric Soils? YES

Basis: Low chroma, gleyed colors

HYDROLOGY

Is ground surface inundated? NO

Is soil saturated?

YES

Depth to free-standing water in pit: 20"

Service to the commence of the service of the servi Surface water depth: NA

Depth to saturation: Surface

Oxidized root zones

Water marks Drift lines

Water-borne sediment deposits

Water-stained leaves Surface scoured areas

Wetland drainage patterns Morphological plant adaptations

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Comments: Plot located adjacent to small stream.

Wetland Hydrology? YES

Basis: Saturation, wetland drainage patterns, water-stained leaves

Do normal environmental conditions exist at the plant community? YES

Has the vegetation, soils, and/or hydrology been significantly disturbed? NO

Disturbed area? NO

Problem area? NO

Basis: no recent disturbance

Basis: normal environmental conditions observed

SUMMARY

Comments: Located at west end of ravine. Stream enters culvert at this end and exits at 12th.

Is the hydrophytic vegetation criterion met? YES

Is the hydric soil criterion met?

YES

is the wetland hydrology criterion met?

YES YES

is the vegetation unit or plot wetland? Rationale for jurisdictional decision: All three wetland parameters met.



Project/Site: SeaTac - Operations area

Field Investigator(s): AS, CW

Sample Plot #: 31

Date: 8/19/94

Herbs & Bryophytes	indicator Status*		Cover Class	Midpoint	Rank	
Holcus lanatus	FAC	30	4	38.0	1*	
Agrostis stolonifera	FAC*	30	4	38.0	1*	
Agrostis tenuis	FAC	25	3	20.5	2	
Rumex crispus	FAC+	1	1	3.0		
Juncus effusus	FACW	6	2	10.5		
Anthoxanthum odoratum	FACU	10	2	10.5		
Epilobium watsonii	FACW	1	1	3.0		
	Sum	of Midpoint	:s:	123.5		
	Dominane	61.8				
Shrubs	indicator Status™	% Areal Cover	Cover	Midpoint	Rank	

Shrubs	indicator Status™	% Areal Cover	Cover Class	Midpoint	Rank
Rubus discolor	FACU	5	1	3.0	1*
Cytisus scoparius	UPL**	2	1	3.0	1*
	Sum	of Midpoin	its:	6.0	
•	Dominan	ce Thresho	ld:	3.0	
Santinos	Indicator	% Area	Cover		

Southern SAr	real Cov	er	
Saplings Status" Cov			Rank

Sum of Midpoints: Dominance Threshold:

	indicator	% Areai	Cover		
Trees	Status"	Cover	Class	Midpoint	Rank

Sum of Midpoints: Dominance Threshold:

% of Dominants that are OBL, FACW, and/or FAC:

2/4 = 50%

Hydrophytic Vegetation?

YES

Comments: DEPRESSIONAL AREA AT TOE OF SLOPE, SOME ALDER AND WILLOW TREES ALONG WETLAND EDGES AT SOUTHERN END. SHRUBS LARGELY ROOTED OUTSIDE OF WETLAND.

To determine dominante, first rank species by midpointe. Then sum midpoints in order until 30% of total for all species (dominance investroid) is immediately estimated. All appeals contributing to the cumulative total plus any others having 20% of the total midpoint value are marked with an asterial.

WETLAND DETERMINATION INTERMEDIATE-LEVEL ONSITE METHOD SOILS, HYDROLOGY & SUMMARY



Project/Site: SeaTac - Operations area

Field Investigator(s): AS, CW

Sample Plot #: 31

Date: 8/19/94

SOILS

SCS Mapping Unit: Unclassified (Urban Land)

Field Identification: Urban Land Is soil on hydric soils list? NO

Is soil a histosol? NO

Histic epipedon present? NO

Is soil mottled? YES

is soil gleyed? YES

Hortzon	Horizon Depth	Textu	re	Matrix Color	Mottle Color	Occurrence of Mottles	Gley Color	Organic Content
A	0-4"	loam	•	2.5Y 4/2				medium
В	4-12	loam		2.5Y 4/2	7.5YR 4/6	M, 2, D		medium
C	12 - 18"	sandy loam		5Y 5/2				low

Landform/Topography: Depression at toe of slope. Comments: B horizon is densely compacted hardpan.

Hydric Solis? YES

Basis: Low chroma, mottles

HYDROLOGY

Is ground surface inundated? NO

is soil saturated?

Surface water depth: NA

Depth to saturation: NA

Depth to free-standing water in pit: NA

X Oxidized root zones

Water marks **Drift lines**

Water-borne sediment deposits

Water-stained leaves Surface scoured areas

Wetland drainage patterns

Morphological plant adaptations

Comments: Depression at toe of slope, exidized root zones in upper portion of B horizon. Root penetration to 9 inches.

Wetland Hydrology? YES

SUMMARY

Do normal environmental conditions exist at the plant community? YES

Has the vegetation, soils, and/or hydrology been significantly disturbed? NO

Disturbed area? NO

Basis: No recent disturbance.

Problem area?

Basis: Normal environmental conditions exist.

Comments: Wetland occurs between roadway and toe of slope, drains south to drop structure.

is the hydrophytic vegetation criterion met? YES

Is the hydric soil criterion met?

YES

Basis: Oxidized root zones, wetland drainage patterns, hydric soil.

Is the wetland hydrology criterion met? Is the vegetation unit or plot wetland?

YES YES

Rationale for jurisdictional decision: All three wetland parameters met.



Project/Site: SeaTac - Operations area

Field Investigator(s): AS, CW

Sample Plot #: 32

Date: 8/25/94

Herbs & Bryophytes	indicator Status	% Areai Cover	Cover Class	Midpoint	Rank
Polystichum munitum	FACU	4	1	3.0	1*
	_ Sum of Midpoint	its:	3.0		
	Dominan	ce Thresho	ld:	1.5	

Shrubs	Indicator Status	% Areal Cover	Cover Class	Midpoint	Rank
Rubus spectabilis	FAC+	25	3	20.5	2.
Rubus discolor	FACU	40	4	38.0	1*
Unknown shrub		5	1	3.0	3
Rubus ursinus	FACU	20	3	20.5	2.
llex sp.	FACU**	2	1	3.0	3
	Sur	n of Midpoin	ts:	85.0	

Dominance Threshold: Indicator Status Saplings Midpoint Rank

Sum of Midpoints: Dominarice Threshold:

Trees	indicator Status	% Area! Cover	Cover Class	Midpoint	Rani
Acer macrophyllum	FACU	15	2	10.5	2
Alnus rubra	FAC	60	5	63.0	1*
Corylus comuta	FACU ,	10	2	10.5	2
	Sur	n of Midpoin	Midpoints:	84.0)
	Dominance Threshold			42.0	

% of Dominants that are OBL, FACW, and/or FAC:

2/5 = 40%

42.5

Hydrophytic Vegetation?

NO

Comments:

ATTACHMENT E - ADJOINING PROPERTY OWNERS

WA 98148 WA 98166 WA 98148 WA 98148 WA 98148 WA 98148 WA 98148 WA 98148	WA 98148 WA 98042 WA 98148 WA 98148 WA 98148	WA 98188 Beach CA 92660 WA 98104 WA 98104
Seattle Seattle Seattle Seattle Seattle Kent Seattle Seattle Seattle Seattle	Scattle Scattle Kent ScaTac Scattle Scattle Scattle	Scattle Newport Beach Scattle Scattle
Mailing Address 15831 5th Pt S 15325 6th Ave SW #1 15831 5th Pt S 1824 SW 166th Pt 15325 10th Ave S 14113 SE 243rd St 15325 10th Ave S 15325 10th Ave S 15325 10th Ave S	15006 Des Moines Way S 3644 Corliss Ave N 26924 140th Ave SE 1021 S 150th St 1029 S 150th St 1031 S 150th St 1041 S 150th St	3554 S 173rd St 363 San Miguel Dr#100 500 KC Admin Bldg 500 KC Admin Bldg
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Vacca Brougham Vacca Genzale Scarsella Grant Kehrer Scarsella Scarsella	Wilcher Eisiminger Wardall Brose Ventimiglio Wooding	Tyler
I ax Fayer Tony & Betty J Marlene Tony & Betty J Anthony Antonio Eric W Howard W Antonio Antonio Shawn D	James W & Virginia William F Georgia Mark J & Ilona Robert Kenneth E & Leona	Beverly S Pacific Gulf Properties King County King County
7arcel No. 202304 9065 202304 9074 202304 9012 202304 9144 202304 9453 369680 0010 371180 0015	440140 0005 440140 0010 440140 0015 440140 0025 440140 0035	292304 9079 042204 9032 042204 9031 666300 0101