Appendix S Terminal Building Programs

The information contained in this appendix was developed by WSF Terminal Engineering in early 2012.

TERMINAL BUILDINGS & ENCLOSURES SPACE SUMMARY			Typical Size [1] (SF per each)	Anacortes	Lopez	Shaw	Orcas	Friday Harbor	Sidney	Port Townsend	Keystone	Mukilteo	Clinton	Edmonds	Kingston	Seattle	Bainbridge Island	Bremerton	Southworth	Fauntleroy	Vashon	Point Defiance	Tahlequah
Chapter 400 Passenger Buildings	400	**Passenger Building**																					
		Facility Entry																					
		Facility Entry/Vestibule	See Note [2]	E				E		E	E		E	E	E	E	E	E		E	E	E	
		Customer Information																					
		Customer Information Booth	120	E												E							
		Certified Folders/Brochures	72	E					E	E	E	E	E	E		E	E	E	E	E	E	E	E
		Ticketing & Queuing																					
		Passenger Ticket Sales Area	96	E	E	E	E	E	E		D	E		E		E		E		E		E	
		Electronic Fare System (EFS) Kiosk	6	E	E		E	E		E	E	E	E	E	E	E	E	E	E	E	E	E	
		Ticket Sales Queuing	See Note [3]	R								R		R		R				R		R	
		EFS Kiosk Queuing	30	R						R	R	R		R		R				R		R	
		Passenger Waiting Areas																					
		Indoor Passenger Waiting Area	See Note [4]	E	E	E	E	E	E	E	E	E	E	E	D	E	E	E	E	E	E	E	
		Outdoor Passenger Waiting Area	See Note [4]	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
		Passenger Conveniences	50-100																				
		Food & Snack Vending	See Note [5]	E			E	E	E	E	E			E		E	E	E	E	E	E	E	
		Newspaper & Magazine Vending	See Note [5]	E	E		E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
		ATM Machine	See Note [5]	E												E							
		Change Machine	See Note [5]	Provide a change machine wherever arcade games are provided																			
		Telephone Area	See Note [5]	E	E		E	E	E		E	E	E	E	E	E	E	E	E	E	E	E	
		Passenger Security Screening Area																					
		Passenger Security Screening Area	See Note [6]	Consult with WSF Company Security Officer for security requirements at time of design																			
		Lost and Found																					
		Lost and Found	64 [7]	E					E							E							
		Attendant Control Station																					
		Attendant Control Station	30													E							
		Passenger Control Point																					
		Standard Turnstiles (3-ft opening)	20	E						E	E	E		E		E				E	E		
		Paddle Turnstiles (4-foot opening)	30	R						D	D	R	R			E							
		Manual Gate (4-ft opening)	30	E						E	E	E								E	E		
		Turnstiles Queuing Area	30-40 [8]	R						R	R	R		R		R				R	R		
		Turnstile Mixing Area	30-40 [8]	R						R	R	R		R		R				R			
		Storage																					
		Luggage Cart & Wheelchair Storage	72	E	R		R	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	
		Security Interview Room																					
		Security Interview Room	80						E														
		Restrooms & Water Fountains																					
		Terminal Building - Public Restrooms	See Note [9]	E		E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	
		Terminal Building - ADA Restrooms	64	E	R	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	
		Water Fountains		E	D	D	D	E	D	D	D	D	D	E	E	E	E	E	D	D	D	D	
		Janitor Storage																					
		Janitor Storage	100	E	D	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	
		IT Equipment Network Room																					
		IT Equipment Network Room	120	E	R	R	R	E	R	E	E	E	E	E	E	E	E	E	E	E	E	R	
		Terminal Electrical Room																					
		Terminal Electrical Room	200	E				E					E		E			E			E		
		Retail, Concessions, and Lease Space																					
		Coffee Cart Concession	36	E												E							
		Retail Space (without seating)	650	Justification for providing retail includes predesign study and return on investment business case analysis, refer to Ch 420. (existing retail at Anacortes, Lopez and Seattle)																			
		Retail Space (with seating)	850																				

TERMINAL BUILDINGS & ENCLOSURES SPACE SUMMARY			Typical Size [1] (SF per each)	Anacortes	Lopez	Shaw	Orcas	Friday Harbor	Sidney	Port Townsend	Keystone	Mukilteo	Clinton	Edmonds	Kingston	Seattle	Bainbridge Island	Bremerton	Southworth	Fauntleroy	Vashon	Point Defiance	Tahlequah
		Public Display / Art																					
		Terminal Building Public Display / Art	0-120	See Chapter 620 for more information																			
		Circulation																					
		Stairs	See Note [11]																				
		Elevators	80 per floor													E							
		Elevator Machine Room	80													E							
		Escalators (sf/ea)	230 [12]									R				R							
		Building Circulation, Structure, and Envelope Multiplier (25%)	See Note [13]																				
Chapter 500 Terminal Supervisor Building	500	**Terminal Supervisor Building**																					
		Terminal Supervisor Building Spaces																					
		Terminal Supervisor Office	224	E	R		R	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	
		Accounting / Safe Room	96	E						E	E	E	E	E	E	E	E	E	E	E		E	
		Seller Safe Room	120	E						E	E	E	E	E	E	E	E	E	E	E		E	
		Facility Engineer Office	64	E																			
		Visiting Manager Office	150	E												E		E					
		Employee Restrooms	64 [14]	E						D	D	E	E	E	D	E	D	E	D	D	D	D	
		Janitor Storage	80	E	D	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
		VATS Room	120									D	E	D	E	E	E	E					
		Conference Room / Training Room / Library	300	E								E	E			E		E					
		Employee Lunch/Break Room	100 [15]	E						E		E	E	E	E	E	E	E					
		Employee Locker Room	See Note [16]	E						E	E	E	E	E	E	E	E	E	E	E	E	E	
		Overnight Employee Room	100	E																			
		Vessel Crew Room	150																				
		Office Storage	80	E	D		D	E	E	E	E	E	E	E	E	E	E	E	E		E	E	E
		Shower Facility	64													E							
		Circulation																					
		Stairs	See Note [11]																				
		Elevators	80 per floor																				
		Elevator Machine Room (see Chapter 400)	80																				
		Building Circulation, Structure, and Envelope Multiplier (25%)	See Note [17]																				
Chapter 510 Maintenance Buildings, Enclosures & Support Areas	510	**Maintenance Buildings, Enclosures & Support Areas**																					
		Terminal Maintenance Building																					
		Terminal Maintenance Storage	120																				
		Cone/Barrel & Sign Storage	48	E	E		D	E	E	E	E	E	E	E	E	E	E	E	E	E			
		Building Electrical Room	64	E									E		E	E		E					
		Building Mechanical Room	80													E		E					
		Dock Bull Garage	120	E						E	E		E										
		Structure, and Envelope Multiplier (7%)	See Note [18]																				
		Vessel Maintenance Building																					
		Vessel Rope /Supplies Locker	120	E						E	E		E		E		E	E				R	
		Vessel Linens Locker	120	E						E		E			E	E		E					
		Breathing Pack Bottle Storage	15	E						E			E		E	E	E	E	E		E	E	
		Oil Boom Containers	190	E						E			E		E		E	E			E	E	
		Man Lift Storage	16	E									E		E	E		E					
		Structure, and Envelope Multiplier (7%)	See Note [19]																				
		Miscellaneous Structures, Enclosures and Support Areas																					
		Operator Control Station for OHL	48	E										E	E	E	E	E					
		Vehicle Tollbooths	68	E			E		E	E	E	E	E	E	E	E	E	E	E	E		E	
		Vehicle / Traffic Attendant Booth	48	E													R	E					

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Chapter 510 Maintenance Buildings, Enclosures & Support Areas		Traffic Attendant Office	120	E					E	E	E	E	E	E	E	E	E	E	E	E	E		
		Vehicle/Passenger Staff Restroom	64 [14]	E				E					E	E	E			E	E	E			
		Vessel Hazardous Materials Storage Locker	120	E						E			E		E	E	E	E			E	E	
		Flammable Materials Locker	12	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
		Oil Spill Supply Barrel	9	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
		Oil Spill Response Kit	6	E	E	E	E	E	R	E	E	E	E	E	E	E	E	E	E	E	E	E	E
		TE Damage Assessment Kit	9	E	E	E	E	E		E	E	E	E	E	E	E	E	E	E	E	E	E	E
		Garbage & Recycling	1200	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
		Cart Storage	128	E												E	E	E					
		Vendor Storage & Office Space	See Note [20]	E												E							
		Service Transformer Area	204	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
		Emergency Generator	450	E	E	D	E	E	D	R	E	E	E	E	E		E	E	E	D	E	R	D
		Isolation Transformers	40 [21]	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
		Transfer Span Electrical Enclosures	200	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
		Hydraulic Power Unit Enclosures	96														E						
		Backflow Preventer Enclosures	64	E				E					E	E		E	E	E		E	E	E	
		Sewage/Storm Water Lift Station	90	E				E		E		E		E	E	E		E	E	E	E	E	
		Structure, and Envelope Multiplier (7%)	See Note [22]																				

Notes:

[1] Typical size given is an approximate number for scoping purposes; actual size will vary.
[2] 6' minimum running dimension x width of existing
[3] Ticket sales queuing is included in calculated passenger waiting
[4] Refer to Chapter 410 for waiting area sizing guidelines
[5] Refer to Chapter 410 for individual amenity space requirements
[6] Coordinate with WSF Company Security Officer (CSO) for requirements
[7] Typically included in Customer Information Area
[8] 10 feet deep by width of all turnstiles, redundant turnstiles and manual gate.
[9] Minimum size per UPC or current IBC requirement with terminal occupant load.
[10] Not used
[11] Number and width of stairs sized per IBC and caluculated occupancy load
[12] Seattle will have up and down. Mukilteo may only have up.
[13] Apply 25% multiplier to sum of all spaces under Passenger Building except the Passenger Waiting Area.
[14] If under 10 employees the building official may allow one unisex restrom. Otherwise two restrooms will be required.
[15] Assume 30 sf per employee + 30 sf of counter/refrigerator space (15'x2').
[16] Assume 15 sf per employee.
[17] Apply 25% multiplier to sum of all spaces under Terminal Supervisor Building
[18] Apply 7% multiplier to sum of all spaces under Terminal Maintenance Building
[19] Apply 7% multiplier to sum of all spaces under Vessel Maintenance Building
[20] Provide space for min. convenience coffee and news sales area (100 sf/ea); office space if available
[21] One per slip
[22] Apply 7% multiplier to sum of all spaces under Miscellaneous Structures, Enclosures & Support Areas

Notes

LEGEND

E **Existing Space at Terminal**

R **Required Space at Future Terminal**

D **Desired Space at Future Terminal**