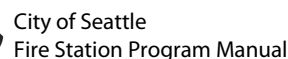




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## Renovation / Expansion Projects

Station:	2	14	17	28	41
Facility Baseline:	B	B	B+M	N-III	N-I
On-Duty Personnel:	11	8	13	10	4
Assigned Personnel:	15	11	15	12	6

### Core & Operations Support

	6	5	7	3	2
Apparatus Bay					
Engine	1,340		1,340	1,340	1,340
Ladder	1,340	1,340	1,340	1,340	
Aid	1,206	1,206	1,206		
Medic			1,206	1,206	
BC	1,206	1,206	1,206		
Reserve - Engine					
Reserve - Ladder					
Reserve - Aid					
Reserve - Medic	1,206				
Reserve - BC	1,206	1,206	1,206		
Specialty - Air (Cascade; 1 on-duty)					
Specialty - Air (w/cylinder storage)					
Specialty - Rescue		1,462			
Specialty - Tunnel			1,206		
Specialty - Hose Tender					
Specialty - Mass Casualty					
Specialty - Incident Command					
Specialty - Mobile Ventilation (BFF)					
Specialty - Mobile Compressor					
Specialty - Decon Unit					
Specialty - HazMat					
Specialty - Trailer Mounted Generator					
Specialty - Marine Support Unit					
Specialty - Marine Van					
Specialty - Historic Parade Engine					1,206
Specialty - Dive Team		400			
Hose Dryer & Storage Alcove	120	120	120	120	120
Report Desk / Dispatch Counter	24	24	24	24	24
Battery Charging Alcove	24	24	24	24	24
Bunker Gear Cleaning Room	130	130	130	130	130
Maintenance Area (Size Varies)	200	200	200	200	100
Compressor	20	20	20	20	20
Bunker Gear Room (Size Varies)	620	620	620	620	243
EMS Storage (Size Varies)	200	200	200	200	110
Apparatus Equip Storage--Ladder	150	150	150	150	
Apparatus Equip Storage--Engine	100		100	100	100
Major Disaster Supply Storage (Size Varies)	240	240	240	200	80
Receiving Area	64	64	64	64	64
Decon / Wash Alcove	175	175	175	175	175
Apparatus Restroom - Unisex	60	60	60	60	60
Drilling Platform	0	216	216		
Hose Storage	192	192	192		
BC Storage	80	80	80		
SCBA / Air Fill	0	240	240		

## Replacement Projects

32	6	9	20	21	22	30	35	37	38	39
B	N-II	N-I	N-I	N-I	N-I	N-I	N-I	N-I	N-I	N-I
11	8	5	4	4	4	4	4	4	4	4
13	12	7	6	6	6	6	6	6	6	6

6	2	2	2	2	2	3	2	2	3
1,340	1,340	1,340	1,340	1,340	1,340	1,340	1,340	1,340	1,340
1,340	1,340								
1,206									
1,206									
		1,206			1,206	1,206	1,206	1,206	1,206
1,206						1,206			
1,206									
		1,206							
									1,460
			1,206						
				1,206					
		256							
120	120	120	120	120	120	120	120	120	120
24	24	24	24	24	24	24	24	24	24
24	24	24	24	24	24	24	24	24	24
130	130	130	130	130	130	130	130	130	130
200	160	100	100	100	100	100	100	100	100
20	20	20	20	20	20	20	20	20	20
620	460	243	243	243	243	243	243	243	243
200	110	110	110	110	110	110	110	110	110
150	150								
100	100	100	100	100	100	100	100	100	100
240	160	80	80	80	80	80	80	80	80
64	64	64	64	64	64	64	64	64	64
175	175	175	175	175	175	175	175	175	175
60	60	60	60	60	60	60	60	60	60
216									
192									
80									
240									



### Renovation / Expansion Projects

Station:	<b>2</b>	<b>14</b>	<b>17</b>	<b>28</b>	<b>41</b>
Facility Baseline:	B	B	B+M	N-III	N-I
On-Duty Personnel:	11	8	13	10	4
Assigned Personnel:	15	11	15	12	6

#### Administration Area

Public Lobby	140	140	140	140	140
Station Office (Size Varies)	414	414	414	414	270
Officer's Quarters (Engine)	340		340	340	340
Officer's Quarters (Ladder)	340	340	340	340	
Accessible Restroom(s) - Unisex	120	120	120	60	60
Janitor	36	36	36	36	36
BC Office & Quarters	493	493	493		
General Office Support Area	64	64	64		

#### Crew Area

Beanery - Kitchen & Dining (Size Varies)	593	593	593	593	428
Day Room (Size Varies)	360	360	360	360	180
Physical Training	480	480	480	480	480

#### # of Single Bunk Rooms:

	<b>8</b>	<b>6</b>	<b>10</b>	<b>8</b>	<b>3</b>
Firefighter Bunk Rooms & Locker Alcoves (126sf/ea)	1,008	756	1,260	1,008	378

#### # of Double Bunk Rooms:

	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>0</b>
Double Firefighter Bunk Room (144sf/ea)	288	288	288	288	0

#### # of Toilet/Shower Rooms:

	<b>4</b>	<b>3</b>	<b>5</b>	<b>4</b>	<b>2</b>
Toilet / Shower Rooms (81sf/ea)	324	243	405	324	162

Laundry / Utility	90	90	90	90	90
Janitor at Second Floor	36	36	36	36	36

#### Equipment and Circulation

Electrical Room	100	100	100	100	80
Communication Room	64	64	64	64	64
Mechanical Room	200	200	200	200	150
General Storage	150	150	150	150	100

#### Training

Training Room		1,038	1,038		
Table / Chair Storage		104	104		
Service Area		48	48		
Training Storage		88	88		

### Replacement Projects

<b>32</b>	<b>6</b>	<b>9</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>30</b>	<b>35</b>	<b>37</b>	<b>38</b>	<b>39</b>
B	N-II	N-I	N-I	N-I	N-I	N-I	N-I	N-I	N-I	N-I
11	8	5	4	4	4	4	4	4	4	4
13	12	7	6	6	6	6	6	6	6	6

140	140	140	140	140	140	140	140	140	140	140
414	315	270	270	270	270	270	270	270	270	270
340	340	340	340	340	340	340	340	340	340	340
340	340									
120	60	60	60	60	60	60	60	60	60	60
36	36	36	36	36	36	36	36	36	36	36
493										
64										

593	496	428	428	428	428	428	428	428	428	428
360	266	180	180	180	180	180	180	180	180	180
480	480	480	480	480	480	480	480	480	480	480

<b>8</b>	<b>6</b>	<b>4</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>
1,008	756	504	378	378	378	378	378	378	378	378

<b>2</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
288	288	0	0	0	0	0	0	0	0	0

<b>4</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>
324	243	162	162	162	162	162	162	162	162	162

90	90	90	90	90	90	90	90	90	90	90
36	36	36	36	36	36	36	36	36	36	36

100	80	80	80	80	80	80	80	80	80	80
64	64	64	64	64	64	64	64	64	64	64
200	150	150	150	150	150	150	150	150	150	150
150	130	100	100	100	100	100	100	100	100	100

1,038										
104										
48										
88										



### Renovation / Expansion Projects

Station:	<b>2</b>	<b>14</b>	<b>17</b>	<b>28</b>	<b>41</b>
Facility Baseline:	B	B	B+M	N-III	N-I
On-Duty Personnel:	11	8	13	10	4
Assigned Personnel:	15	11	15	12	6

#### Vertical Circulation

Fire Poles	128	128	128	128	64
Allowance for Stairs	720	720	720	720	720
Allowance for Elevator & Machine Room	156	156	156	156	156
Allowance for Circulation/Structural	2,970	2,970	2,970	2,210	1,210
<b>Subtotal:</b>	<b>19,517</b>	<b>19,794</b>	<b>22,790</b>	<b>14,210</b>	<b>8,940</b>

#### Other Program Elements

Wellness / Fitness	8,376				
Fragmentation Cache	800				
USAR / MMRS				5,400	
<b>Subtotal:</b>	<b>9,176</b>	<b>0</b>	<b>0</b>	<b>5,400</b>	<b>0</b>

<b>Total Program Required Sq. Ft. (12/15/06):</b>	<b>28,693</b>	<b>19,794</b>	<b>22,790</b>	<b>19,610</b>	<b>8,940</b>
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<b>Allocated Sq. Ft. (5/5/03):</b>	34,216	19,348	22,110	18,101	6,460
(Per Fire Levy Operations Summary Matrix)*					

<b>Under / Over Allocated Square Footage:</b>	<b>(5,523)</b>	<b>446</b>	<b>680</b>	<b>1,509</b>	<b>2,480</b>
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\* The 2003 Fire Levy planning did not include all programmed space or funding to bring existing fire stations to the uniform operational standards the levy applied to new fire stations. Space compromises will be required at existing fire stations.

### Replacement Projects

<b>32</b>	<b>6</b>	<b>9</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>30</b>	<b>35</b>	<b>37</b>	<b>38</b>	<b>39</b>
B	N-II	N-I	N-I	N-I	N-I	N-I	N-I	N-I	N-I	N-I
11	8	5	4	4	4	4	4	4	4	4
13	12	7	6	6	6	6	6	6	6	6

128	64	64	64	64	64	64	64	64	64	64
720	720	720	720	720	720	720	720	720	720	720
156	156	156	156	156	156	156	156	156	156	156
2,970	1,760	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210
<b>21,251</b>	<b>11,447</b>	<b>9,066</b>	<b>9,196</b>	<b>8,940</b>	<b>8,940</b>	<b>8,940</b>	<b>10,146</b>	<b>8,940</b>	<b>8,940</b>	<b>10,402</b>

800										800
<b>800</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>800</b>

<b>22,051</b>	<b>11,447</b>	<b>9,066</b>	<b>9,196</b>	<b>8,940</b>	<b>8,940</b>	<b>8,940</b>	<b>10,146</b>	<b>8,940</b>	<b>8,940</b>	<b>11,202</b>
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19,922	13,058	8,178	8,434	8,178	8,178	8,178	9,384	8,178	8,178	10,440
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<b>2,129</b>	<b>(1,611)</b>	<b>888</b>	<b>762</b>	<b>762</b>	<b>762</b>	<b>762</b>	<b>762</b>	<b>762</b>	<b>762</b>	<b>762</b>
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### Seismic / Safety Projects

Station:	<b>18</b>	<b>25</b>	<b>31</b>	<b>8</b>	<b>11</b>	<b>13</b>	<b>16</b>	<b>24</b>	<b>26</b>	<b>27</b>	<b>29</b>	<b>33</b>	<b>34</b>	<b>36</b>	<b>40</b>
Facility Baseline:	B	B	N-III	N-II	N-I	N-I	N-I	N-I	N-I	N-I	N-I	N-I	N-I	N-I	N-I
On-Duty Personnel:	11	12	10	8	4	4	4	4	4	4	4	4	4	4	4
Assigned Personnel:	15	14	12	12	6	6	6	6	6	6	6	6	6	6	6

### Core & Operations Support

	# of vehicle bays:		<b>8</b>	<b>9</b>	<b>6</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>
Apparatus Bay																
Engine	1,340	1,340	1,340	1,340	1,340	1,340	1,340	1,340	1,340	1,340	1,340	1,340	1,340	1,340	1,340	1,340
Ladder	1,340	1,340	1,340	1,340	1,340	1,340	1,340	1,340	1,340	1,340	1,340	1,340	1,340	1,340	1,340	1,340
Aid		1,206														
Medic	1,206	1,206	1,206													
BC	1,206	-														
Reserve - Engine										1,206		1,206	1,206	1,206		1,206
Reserve - Ladder	1,206	1,206						1,206								
Reserve - Aid		1,206														
Reserve - Medic	1,206	1,206	1,206													
Reserve - BC	1,206															
Specialty - Air (Cascade; 1 on-duty)																
Specialty - Air (w/cylinder storage)										1,206						
Specialty - Rescue																
Specialty - Tunnel																
Specialty - Hose Tender	1,206													1,206		
Specialty - Mass Casualty																
Specialty - Incident Command																
Specialty - Mobile Ventilation (BFF)		1,206														
Specialty - Mobile Compressor		1,206														
Specialty - Decon Unit											1,206					
Specialty - HazMat			1,206													
Specialty - Trailer Mounted Generator			1,206													
Specialty - Marine Support Unit																
Specialty - Marine Van															1,206	
Specialty - Historic Parade Engine																
Specialty - Dive Team																
Hose Dryer & Storage Alcove	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Report Desk / Dispatch Counter	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
Battery Charging Alcove	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
Bunker Gear Cleaning Room	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130
Maintenance Area (Size Varies)	200	200	200	160	100	100	100	100	100	100	100	100	100	100	100	100
Compressor	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Bunker Gear Room (Size Varies)	620	620	620	460	243	243	243	243	243	243	243	243	243	243	243	243
EMS Storage (Size Varies)	200	200	200	110	110	110	110	110	110	110	110	110	110	110	110	110
Apparatus Equip Storage--Ladder	150	150	150	150												
Apparatus Equip Storage--Engine	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Major Disaster Supply Storage (Size Varies)	240	240	200	160	80	80	80	80	80	80	80	80	80	80	80	80
Receiving Area	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64
Decon / Wash Alcove	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175
Apparatus Restroom - Unisex	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
Drilling Platform	216	216														
Hose Storage	192	192														
BC Storage	80	80														
SCBA / Air Fill	240	240														



### Seismic / Safety Projects

Station:  
Facility Baseline:  
On-Duty Personnel:  
Assigned Personnel:

18	25	31	8	11	13	16	24	26	27	29	33	34	36	40
B	B	N-III	N-II	N-I	N-I	N-I	N-I	N-I	N-I	N-I	N-I	N-I	N-I	N-I
11	12	10	8	4	4	4	4	4	4	4	4	4	4	4
15	14	12	12	6	6	6	6	6	6	6	6	6	6	6

#### Administration Area

Public Lobby	140	140	140	140	140	140	140	140	140	140	140	140	140	140
Station Office (Size Varies)	414	414	414	315	270	270	270	270	270	270	270	270	270	270
Officer's Quarters (Engine)	340	340	340	340	340	340	340	340	340	340	340	340	340	340
Officer's Quarters (Ladder)	340	340	340	340										
Accessible Restroom(s) - Unisex	120	120	60	60	60	60	60	60	60	60	60	60	60	60
Janitor	36	36	36	36	36	36	36	36	36	36	36	36	36	36
BC Office & Quarters	493	0												
General Office Support Area	64	64												

#### Crew Area

Beanery - Kitchen & Dining (Size Varies)	593	593	593	496	428	428	428	428	428	428	428	428	428	428
Day Room (Size Varies)	360	360	360	266	180	180	180	180	180	180	180	180	180	180
Physical Training	480	480	480	480	480	480	480	480	480	480	480	480	480	480

#### # of Single Bunk Rooms:

Firefighter Bunk Rooms & Locker Alcoves (126sf/ea)	8	10	8	6	3	3	3	3	3	3	3	3	3	3
	1,008	1,260	1,008	756	378	378	378	378	378	378	378	378	378	378

#### # of Double Bunk Rooms:

Double Firefighter Bunk Room (144sf/ea)	2	2	2	2	0	0	0	0	0	0	0	0	0	0
	288	288	288	288	0	0	0	0	0	0	0	0	0	0

#### # of Toilet/Shower Rooms:

Toilet / Shower Rooms (81sf/ea)	4	5	4	3	2	2	2	2	2	2	2	2	2	2
	324	405	324	243	162	162	162	162	162	162	162	162	162	162

Laundry / Utility  
Janitor at Second Floor

Laundry / Utility	90	90	90	90	90	90	90	90	90	90	90	90	90	90
Janitor at Second Floor	36	36	36	36	36	36	36	36	36	36	36	36	36	36

#### Equipment and Circulation

Electrical Room	100	100	100	80	80	80	80	80	80	80	80	80	80	80
Communication Room	64	64	64	64	64	64	64	64	64	64	64	64	64	64
Mechanical Room	200	200	200	150	150	150	150	150	150	150	150	150	150	150
General Storage	150	150	150	130	100	100	100	100	100	100	100	100	100	100

#### Training

Training Room	1,038	1,038												
Table / Chair Storage	104	104												
Service Area	48	48												
Training Storage	88	88												



### Seismic / Safety Projects

Station:	<b>18</b>	<b>25</b>	<b>31</b>	<b>8</b>	<b>11</b>	<b>13</b>	<b>16</b>	<b>24</b>	<b>26</b>	<b>27</b>	<b>29</b>	<b>33</b>	<b>34</b>	<b>36</b>	<b>40</b>
Facility Baseline:	B	B	N-III	N-II	N-I	N-I	N-I	N-I	N-I	N-I	N-I	N-I	N-I	N-I	N-I
On-Duty Personnel:	11	12	10	8	4	4	4	4	4	4	4	4	4	4	4
Assigned Personnel:	15	14	12	12	6	6	6	6	6	6	6	6	6	6	6

#### Vertical Circulation

Fire Poles	128	128	128	64	64	64	64	64	64	64	64	64	64	64	64
Allowance for Stairs	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720
Allowance for Elevator & Machine Room	156	156	156	156	156	156	156	156	156	156	156	156	156	156	156
Allowance for Circulation/Structural	2,970	2,970	2,210	1,760	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210
<b>Subtotal:</b>	<b>23,663</b>	<b>24,709</b>	<b>17,828</b>	<b>11,447</b>	<b>8,940</b>	<b>7,734</b>	<b>7,734</b>	<b>8,940</b>	<b>8,940</b>	<b>8,940</b>	<b>8,940</b>	<b>8,940</b>	<b>10,146</b>	<b>8,940</b>	<b>8,940</b>

#### Other Program Elements

Wellness / Fitness															
Fragmentation Cache															
USAR / MMRS															
<b>Subtotal:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

<b>Total Program Required Sq. Ft. (12/15/06):</b>	<b>23,663</b>	<b>24,709</b>	<b>17,828</b>	<b>11,447</b>	<b>8,940</b>	<b>7,734</b>	<b>7,734</b>	<b>8,940</b>	<b>8,940</b>	<b>8,940</b>	<b>8,940</b>	<b>8,940</b>	<b>10,146</b>	<b>8,940</b>	<b>8,940</b>
<b>Allocated Sq. Ft. (5/5/03):</b>	21,000	18,560	13,658	6,149	6,259	5,020	5,000	4,970	5,900	5,960	5,754	5,509	4,413	5,305	6,100
(Per Fire Levy Operations Summary Matrix)*															
<b>Under / Over Allocated Square Footage:</b>	<b>2,663</b>	<b>6,149</b>	<b>4,170</b>	<b>5,298</b>	<b>2,681</b>	<b>2,714</b>	<b>2,734</b>	<b>3,970</b>	<b>3,040</b>	<b>2,980</b>	<b>3,186</b>	<b>3,431</b>	<b>5,733</b>	<b>3,635</b>	<b>2,840</b>

\* The 2003 Fire Levy planning did not include all programmed space or funding to bring existing fire stations to the uniform operational standards the levy applied to new fire stations. Space compromises will be required at existing fire stations.



## 4. OVERALL OBJECTIVES

### 4.1 Sustainability

“Humans merely share the Earth. We can only protect the land, not own it”

- Chief Seattle

***City of Seattle Policy.*** It is the policy of the City of Seattle to finance, plan, design, construct, manage, renovate, maintain, and commission its facilities and buildings to be sustainable. This applies to both new construction and major remodels. All design teams selected for building or renovating Seattle’s fire stations shall be familiar with the City of Seattle’s Sustainable Building Policy, which is included in the appendix of this Program Manual.

***LEED Rating.*** The US Green Building Council’s LEED (Leadership in Energy and Environmental Design) rating system shall be used as a design and measurement tool to determine what constitutes sustainable building by national standards. All Fire Levy Program projects over 5,000 gross square feet of occupied space shall meet a minimum LEED Silver rating. Design and project management teams are encouraged to meet higher LEED rating levels.

***Sustainable Strategies for Fire Stations.*** Demonstrating the City’s commitment to sustainable design practices, the City of Seattle hosted two sustainability workshops during the month of October, 2006. These workshops were facilitated by recognized sustainability leaders, and focused on sustainable practices specific to fire stations. Materials presented and conclusions drawn shall be added to the appendix of this Program Manual when they become available.

### 4.2 Gender Neutral Facilities

***Changes in the Fire Service.*** Once thought to be a career exclusive for men, the national trend in fire service today sees an ever increasing number of women amongst the ranks. This includes firefighters to chief officers. Seattle has been no exception. Unfortunately, many of Seattle’s fire stations that were built in the era of “men” firefighters have significant shortcomings today in regards to accommodating two genders under the same roof. Specifically, inadequate privacy separation exists in some of Seattle’s older stations in the area of locker rooms, bathrooms, showers, and sleeping accommodations. Design teams building and/or renovating Seattle’s fire stations must address these building areas for both gender neutrality and equality.

***No Exception Allowed.*** City of Seattle will allow no exception to the design of their fire stations being gender neutral and gender equal, regardless of being new construction, major renovation, or repair.





### **A. Firefighter Bunk Rooms.**

All sleeping accommodations shall be private, individual sleep rooms, without differentiation between those intended for men or women.

No multi-person dorm rooms will be acceptable. Existing multi-person dorm rooms, including those that may have installed temporary privacy partitions, shall be converted to private, individual sleep rooms.

Exceptions: Certain stations may include a limited number of 2-person sleep rooms. These are intended only for visiting chief officers, ride-alongs, and medical personal where there are clear and demonstrated advantages for such rooms. In these cases, adequate privacy provisions must be incorporated into the design to accommodate the possibility of two individuals of differing gender to be sharing this room.

### **B. Locker Room Alcoves.**

Locker Rooms shall be located and situated such that privacy can be afforded to station personnel regardless of gender.

### **C. Toilet / Shower Rooms**

All personal hygiene areas of the station shall be designed with personal privacy and gender neutrality in mind.

In the "Crew Areas" of the station, restrooms and shower areas shall be individual and private as described in the program and room data sheets contained in this Program Manual. Additionally, these restrooms and showers shall be unisex, and not be designated as either men's or women's.

In the "Administrative" and "Core & Operations" areas of the station, restrooms shall be unisex and not designated as either men's or women's.

No urinals shall be specified or installed in any fire station project. In existing stations that are undergoing a major renovation or remodel, any existing urinals shall be removed and replaced with toilets.

## **4.3 ADA --- Americans with Disabilities Act**

Access to civic life by people with disabilities is a fundamental goal of the Americans with Disabilities Act (ADA). To ensure that this goal is met, the ADA requires State and local governments to make their programs and services accessible to persons with disabilities. This requirement extends not only to physical access at government facilities, programs, and events – but also to policy changes that governmental entities must make to ensure that all people with disabilities can take part in, and benefit from, the programs and services of State and local governments. In addition, governmental entities must ensure effective communication – including the provision of necessary auxiliary aids and services – so that individuals with disabilities can participate in civic life.



### Codes and Regulations *(as of September, 2006):*

<i>Federal:</i>	Americans with Disabilities Act (ADA) Americans with Disabilities Act Accessibility Guidelines (ADAAG)
<i>State:</i>	International Building Code (IBC), Chapter 11*, as amended by Washington State Building Code (WSBC, WAC 51-50) ANSI A117.1-2003 "Accessible and Usable Buildings and Facilities"
<i>City:</i>	IBC as amended by State of Washington Accessibility regulations for existing buildings are found in Seattle Building Code Section 3406.

*\* Note: Employee work areas are expressly exempt from Chapter 11 of the International Building Code. For the purpose of Seattle's Fire Levy Program projects, the definition of "employee work areas" has been interpreted to include the Beanery, Sleep Rooms, Lockers, and most of the operational spaces in the station.*

### City of Seattle Policies for Fire Levy Capital Projects

**Accessibility.** It is the policy of City of Seattle that all portions of the fire station shall be provided with at least one accessible route of travel that connects all spaces and elements of the station with each other, and with all site features.

#### *Exceptions:*

1. *Accessible routes are not required in renovation and remodel projects where it is demonstrated to be structurally impractical to do so.*

**Elevators.** Passenger elevators shall be installed to serve all levels in all multi-story fire stations, including new, renovation, and remodel projects. This requirement applies to mezzanines as well, unless specifically exempted by code. *Note: Designer to verify with FFD Project Manager that this scope of work is part of project.*

**Beanery.** Kitchens shall be provided with an accessible route of travel from all other areas of the station. Defined as an "employee work area," station kitchens shall not be subject to IBC Chapter 11 (i.e., countertop height; knee space at sinks; location of stove controls; height of range hood controls, etc.). However, station kitchens shall be designed to be adaptable to IBC Chapter 11 standards where practical and cost effective.

**Sleep Rooms.** Sleeping facilities shall be provided with an accessible route of travel from all other areas of the station. Defined as an "employee work area," sleep rooms shall not be subject to IBC Chapter 11.

**Restrooms.** At the unisex restrooms in the "Administrative" and "Core & Operations" areas of the station, one restroom shall be designated and designed to be accessible in



compliance with IBC Chapter 11. In the "Crew Area" of the station, one restroom shall be designed to be accessible as well.

**Parking.** Accessible parking spaces shall only be provided when required by code.

*Note: City of Seattle staff is currently in discussion with the Washington State Barrier Free Officer regarding application of Washington's accessibility standards on fire station projects. The outcome of those discussions shall be added to the appendix of this Program Manual when available.*

#### 4.4 Security Measures

As noted in Chapter 1, safety and security of Seattle Fire Department's personnel and property is of high importance. This stems from a surprisingly large number of acts of vandalism over the years. This has included damage to station personnel cars, break-ins through windows left open when station personnel leave on a call, and trespass through apparatus bay doors as they are shutting.

It is the City's belief that some of the best safety and security measures come simply from good design practices. It is not acceptable to the City to rely on electronic devices and equipment as a deterrent or primary prevention measure to criminal activity and vandalism.

The following strategies shall be considered and incorporated as applicable based on the unique characteristics of each individual station site, program, and neighborhood environment.

**Site Measures.** Crime Prevention through Environmental Design (CPTED) strategies shall be used. Instead of promoting "fortressing", station design teams shall focus on the ability to see what is going on in and around the station property. Good lighting, open landscaping, fences you can see through, and windows that are strategically placed will deter unwelcome activities.

**Exterior Lighting.** Provide good, well spaced lighting at parking areas, alleys, driveways, and building entrances. Motion-sensing lights perform the double duty of providing light when needed and letting trespasser know that "they have been seen."

**Landscaping.** Avoid hiding places. Follow the 3-8 Rule-of-Thumb --- hedges no higher than 3 feet and tree canopies starting no lower than 8 feet, especially around entryways and windows.

**Fencing.** Fences, when installed, shall be open visually to allow people to see in. Fences built for privacy or screening must also be of a design that is not too tall and provides some visibility.

**Visual Measures.** Windows shall be strategically located to look out on streets and alleys to provide good surveillance of parking areas, aprons, and driveway entrances.



**Exterior (people) Doors.** All exterior doors shall be “locked-always” and tied into the City’s existing proximity card system. Doorways shall be widely visible from areas outside the station and not positioned in alcoves or hidden areas.

**Exterior (apparatus) Doors.** Apparatus doors shall be opened by hard wired switches inside the bay and by remotes inside the apparatus cabs. Apparatus doors shall be closed by remotes in the apparatus cab, activated as the apparatus leaves the station and clears the opening. For safety and security, SFD has a strong preference for bi-fold apparatus doors over the conventional sectional overhead doors. The closing action is much quicker with the bi-folds and provides less opportunity for the rolling trespasser to enter the bay before the doors are fully shut.

**Exterior Windows.** While natural ventilation is highly desirable, operable windows located on the ground floor of any station must limit the ability of an intruder to enter the station when the station personnel have left the building. The windows most often compromised by an intruder are Sleep Rooms and Kitchens.

**Video Monitoring.** Electronic surveillance systems were not included in any of the Fire Levy Program project budgets. Station dependant, the City may request a design team to include empty conduits and junction boxes for installation of surveillance system in the future.

**Security Alarm Systems.** “Burglar” alarm systems are not practical in fire stations with the number of personnel leaving and entering the building and shall therefore not be provided.

#### 4.5 Training Opportunities

While the building programs do not include square footage for constructing training elements in the station projects, incorporating routine training opportunities into these projects is of great value. Design teams need to look creatively for these opportunities which are often site and building specific.

**Stairways.** Stairs that may be required for exiting and are located adjacent to a paved area can be used as a training prop. Exterior metal stairways and interior stair enclosures both offer training opportunities for working with standpipes, carrying hose, and laddering techniques.

**Fire Hydrants.** Strategically located, hydrants can be used for both routine training and as a convenient water source for refilling water tanks on a returning apparatus.

**Extrication.** Every Seattle fire station receives a “new” car every so often to practice extrication skills. These cars have typically been in accidents and are already wrecked. For a nominal fee, these cars are delivered to the station and later removed when the station crew is through with it. During the site planning phase, design teams are strongly encouraged to identify a designated space for the extrication car.

**Ladder Skills.** Second story window openings into a drill platform, hose tower, or stair enclosure provide opportunity for station personnel to reinforce their laddering skills. Likewise, a parapet with adequate roof membrane protection can also provide excellent ladder technique training. Providing these training opportunities as part of the building



add little cost to the overall project for the benefit they provide. Areas intended for repetitive ladder training should incorporate anchor tie offs, and building protection devices (timber caps on parapets, timber window sills, etc.).

**Ecology Blocks.** A few ecology blocks can be used for cribbing and lifting skills, relevant to search and rescue in the event of a collapsed building or structure.

#### 4.6 Public Art

One percent of City of Seattle capital improvement project funds are set aside for the commission, purchase and installation of artworks throughout Seattle.

For the Fire Levy Program, the City's Office of Arts and Cultural Affairs (OAC) has identified which fire stations will participate in the City's Municipal Art Plan and One Percent for Art program. OAC has a roster of artists and will work with FFD to determine the artist selection procedure for those station projects. It is anticipated that design teams will be involved in the artist selection process and will coordinate with the artist during their design phase.

#### 4.7 Temporary Relocation

During the construction phase of each project, all fire station operations will be relocated to a temporary location as determined by FFD and the Fire Department. The A/E design team is not required to plan or design the relocation facilities, though schedule coordination will be necessary so that FFD and the Fire Department can adequately prepare for the relocation.

#### 4.8 Commissioning

Each fire station will undergo a comprehensive commissioning process as part of the design and construction process. The City's proposed Commissioning Standards Manual (under development; completion anticipated in spring of 2007) will describe the systems to be commissioned at fire stations, and to what level of rigor the systems are to be tested. The Commissioning Standards Manual will contain draft pre-functional checklists and draft functional tests for equipment and system tests anticipated at fire stations, and a draft commissioning plan intended to help direct, standardize, and reduce the cost of commissioning. LEED requirements, Code requirements, as well as the extent of work proposed at any given fire station will determine the equipment and systems to be commissioned on any specific project.

Additionally, if the project is to be LEED certified, the commissioning process shall meet the requirements of LEED NC V2.2.

#### 4.9 Post Occupancy Evaluation

At the conclusion of each project, it is anticipated that each design team will participate in an informal session with FFD and SFD as a way of understanding each project's challenges, successes, and other "lessons learned" that may be used to further improve upcoming projects. Additionally, each design team shall give feedback regarding the content of this Program Manual upon project completion for revisions and additions for future editions of the manual.



## 5. SPECIFICATIONS

**"Standard" Materials.** City of Seattle's staff understands, appreciates and welcomes the value brought to projects through the A/E's creative abilities, including their recommendations on products, materials and equipment. Working closely with the A/E teams, Seattle Fleets & Facilities will oversee selection of certain methods and materials to ensure "lessons learned" from other City of Seattle projects are incorporated. These standard specifications are written to guide and assist the A/E team, not stifle their creativity.

**Product Selection.** This chapter shall guide A/E teams in their discussion and selection of products and materials with City representatives. Substitutions are allowed in many cases, but certainly not in all. Some items are absolute, and shall not be altered without approval from FFD. Important will be assuring that all products are heavy duty, durable, long lasting, and sustainable. Product selections are to be based on a 50-year building life.

**Maintenance.** Funds for ongoing maintenance and operation of Seattle fire stations are separate from levy program funds. Maintenance funds are limited and it is incumbent on the A/ E teams to select products that will keep future maintenance and operating costs as low as practical. These standard specifications will assist in avoiding decisions and material choices that City staff has learned could be problematic during the life of the building. Together, the City's staff and A/E can plan buildings that are easy to operate and maintain.

**Continuous Improvement.** These standard specifications compile years of experience from City of Seattle staff, as well as many design professionals. The listed products set a minimum level of quality. However, the City recognizes that new and innovative products will likely become available over the life of the Capital Levy Program. For this reason, the City anticipates that A/E teams will suggest many alternative products. Upon completion of construction, A/E teams are to submit a list of all the products utilized for inclusion in these standard specifications. Post-construction, all A/E's shall participate in an assessment and evaluation of products installed. This information shall be incorporated into these specifications as well, making them an ongoing "work in progress."



## Division 00 Procurement and Contracting Requirements

### SECTION 00 21 00 — INSTRUCTIONS FOR PROCUREMENT

#### PART 1 - SUMMARY

- 1.1 Bidding requirements and procedures.

#### PART 2 - GENERAL

- 2.1 Section includes Instructions to Bidders and any Supplementary Instructions to Bidders. These will be provided by the Owner as standard documents to be included in each project manual.

#### PART 3 - REQUIREMENTS

##### 3.1 PREFERRED

- A. No Requirements.

##### 3.2 REQUIRED

- A. City of Seattle standard documents for bidding requirements.
- B. Pre-bid walkthroughs: May be mandatory or non-mandatory, determined on a case-by-case basis.

##### 3.3 NOT ACCEPTABLE

- A. Revisions to these documents, except by FFD Project Manager.

END OF SECTION



## SECTION 00 40 00 — PROCURMENT FORMS AND SUPPLEMENTS

### PART 1 - SUMMARY

- 1.1 Bid Form and other documentation submitted by Contractors at bid time.

### PART 2 - GENERAL

#### 2.1 Section includes

- A. Bid Form.
- B. Procurement Form Supplements: Bid Security Form.
- C. Representations and Certificates: Bidder's Qualifications, Non-Collusion Affidavits, MBE/WBE Affidavits, and Other Certifications.

### PART 3 - REQUIREMENTS

#### 3.1 PREFERRED

- A. No Requirements.

#### 3.2 REQUIRED

- A. City of Seattle standard procurement forms as provided by FFD project manager. These will be provided by the Owner as standard documents to be included in each project manual.

#### 3.3 NOT ACCEPTABLE

- A. Revisions to these documents, except by FFD Project Manager.

END OF SECTION





## SECTION 00 50 00 — CONTRACTING FORMS AND SUPPLEMENTS

### PART 1 - SUMMARY

- 1.1 Owner-Contractor Agreement Form.

### PART 2 - GENERAL

- 2.1 Section includes:

- A. City of Seattle Standard Form of Agreement – Stipulated Sum.

### PART 3 - REQUIREMENTS

- 3.1 PREFERRED

- A. No Requirements.

- 3.2 REQUIRED

- A. City of Seattle standard agreement forms as provided by FFD project manager.
- B. All projects will be design/bid/build, with no GC/CM projects anticipated.

- 3.3 NOT ACCEPTABLE

- A. Revisions to these documents, except by FFD Project Manager.

END OF SECTION



## SECTION 00 60 00 — PROJECT FORMS

### PART 1 - SUMMARY

- 1.1 Required forms and certificates submitted by Contractor with agreement and used during the course of construction.

### PART 2 - GENERAL

#### 2.1 Section includes

- A. Bond Forms: Performance and Payment Bond Form, Instructions for Retainage.
- B. Certificates and Other Forms: Certificate of Insurance, MBE/WBE Certification.
- C. Clarification and Modification Forms.
- D. Closeout Forms: Certificate of Substantial Completion Form, Certificate of Completion Form, Release of Liens, Consent of Surety to Final Payment.

### PART 3 - REQUIREMENTS

#### 3.1 PREFERRED

- A. No Requirements.

#### 3.2 REQUIRED

- A. City of Seattle standard forms and documents as provided by FFD project manager.

#### 3.3 NOT ACCEPTABLE

- A. Revisions to these documents, except by FFD Project Manager.

END OF SECTION



SECTION 00 70 00 — CONDITIONS OF THE CONTRACT

PART 1 - SUMMARY

- 1.1 General and Supplementary Conditions of the construction Contract.

PART 2 - GENERAL

- 2.1 Section includes
  - A. General Conditions (00700)
  - B. Modifications to the General Conditions (00710)
  - C. Supplementary Conditions (00800)

PART 3 - REQUIREMENTS

- 3.1 PREFERRED
  - A. No Requirements.
- 3.2 REQUIRED
  - A. Documents noted above will be provided by FFD project manager. These will be provided by the Owner as standard documents to be included in each project manual.
- 3.3 NOT ACCEPTABLE
  - A. Revisions to these documents, except by FFD Project Manager.

END OF SECTION



## Division 01 General Requirements

### SECTION 01 10 00 — SUMMARY OF WORK

#### PART 1 - SUMMARY

1.1 Work by Owner.

1.2 Work restrictions.

#### PART 2 - GENERAL

- 2.1 The Owner will perform some items of work, either with their own forces or through their own subcontractors.
- 2.2 The A/E is to review with the Owner the scope of this work and clearly describe work that will be performed by the Owner, requiring the Contractor to provide access to the site and include time in the construction schedule for this work. A/E to coordinate with Section 01 10 00 Summary of Work and Section 01 32 00 – Construction Progress Documentation.
- 2.3 The A/E is to require the Contractor to provide advance notice to the Owner of when work by the Owner is required, notice of changes to the schedule and to request product data for Owner furnished or provided items for coordination with other work.

#### PART 3 - REQUIREMENTS

##### 3.1 PREFERRED

A. No Requirements.

##### 3.2 REQUIRED

- A. Work by Owner: City of Seattle Department of Information Technology (DoIT) will perform design and installation of the telephone and data system cabling, switching equipment and services, Locution, Cochran Box, and alert lighting system.
- B. Other Work by Owner:
- C. Site Work Restrictions: Abide by City of Seattle Noise Ordinances and Conditional Use Permit requirements per DPD.
- D. Coordinate this section with Owner provided Division 00 and Owner provided Division 01 contract documents.



3.3 NOT ACCEPTABLE

- A. Revisions to these documents, except by FFD Project Manager.

END OF SECTION



## SECTION 01 20 00 — PRICE AND PAYMENT PROCEDURES

### PART 1 - SUMMARY

1.1 Contract modification procedures.

1.2 Payment procedures.

### PART 2 - GENERAL

2.1 This Section and forms will be provided by the FFD project manager.

### PART 3 - REQUIREMENTS

#### 3.1 PREFERRED

A. No Requirements.

#### 3.2 REQUIRED

A. Progress Payment Procedures: Format and submittal requirements. Contractor to use forms as provided by FFD Project Manager.

B. Contract Modification procedures: Required forms for Construction Change Directives and Change Orders, Proposal requests: As provided by FFD Project Manager.

#### 3.3 NOT ACCEPTABLE

A. Revisions to these documents, except by FFD Project Manager.

END OF SECTION



## SECTION 01 40 00 — QUALITY REQUIREMENTS

### PART 1 - SUMMARY

- 1.1 Testing and Inspection Services and other Owner and consultant inspections.

### PART 2 - GENERAL

- 2.1 Construction materials testing and inspection services will be provided by the Owner under separate contract.
- 2.2 Owner may also elect to obtain the services of a third-party weatherization consultant for roofing and building envelope inspections.
- 2.3 Owner site visits: FFD Project Manager will coordinate any site visits by FFD maintenance crew chiefs during construction.

### PART 3 - REQUIREMENTS

#### 3.1 PREFERRED

- A. No Requirements.

#### 3.2 REQUIRED

- A. During design phases: Coordinate with Owner's third-party testing & inspection agent and weatherization consultant during design and documentation phases for review of drawings and specifications.
- B. During construction: Coordinate with Owner's third-party testing & inspection agent and weatherization consultant for review of work progress and execution during construction.

#### 3.3 NOT ACCEPTABLE

- A. Revisions to these documents, except by FFD Project Manager.

END OF SECTION



## SECTION 01 42 00 — REFERENCES

### PART 1 - SUMMARY

- 1.1 The following documents from the City of Seattle, Fleets and Facilities Department are incorporated by reference into this Standard.
- 1.2 Standard signature blocks and title block contents.
- 1.3 The following definitions are applicable in all sections of this document, unless specifically noted otherwise.

### PART 2 - GENERAL

- 2.1 These definitions are for use in this standards document and are not intended to be used literally in Contract Documents for construction.

### PART 3 - REQUIREMENTS

- 3.1 Required document production references
  - A. Project manual and specification format: CSI MasterFormat 2004 edition.
  - B. *Computer Aided Design and Drafting (CAD) Standards for Fleets and Facilities Department*, as issued by FFD.
- 3.2 Additional Drawing Requirements
  - A. The A/E shall show mechanical and electrical equipment (panels, annunciators, thermostats, etc.) on interior elevations for coordination purposes.
  - B. Provide FFD standard signature block and required title block information on all sheets.
- 3.3 Definitions
  - A. "A/E": The design consultant, prime Architect or Engineer, and all subconsultants.
  - B. "Contract Documents": The Project Manual, Specifications and Drawings prepared by the A/E for the bidding and the construction of the project, including review sets provided to the Owner for review during the design process.





- C. "Contractor": The prime construction contractor.
- D. "Owner": City of Seattle, as represented by Department of Fleets and Facilities.
- E. "Not Acceptable": The products/systems/installation methods shall not be designed/specified without specific written prior approval from the Owner.
- F. "Preferred": The products/systems/installation methods are typical of aesthetics, quality, durability, and cost of those used at the City's fire station facilities. They have been found to meet the FFD's needs and shall be specified where deemed appropriate by the design professional. Where not appropriate for a specific project, products/systems/installation methods of similar aesthetics, quality, durability and cost shall be specified.
- G. "Required": The listed products/systems/installation methods shall be designed/specified unless a written variance is granted by the Owner.

END OF SECTION



## SECTION 01 77 00 — EXECUTION AND CLOSEOUT REQUIREMENTS

### PART 1 - SUMMARY

- 1.1 Demonstration and Training of FFD Personnel.
- 1.2 Maintenance Materials, i.e. "Extra Stock".
- 1.3 As-built CAD drawings.
- 1.4 Warranties

### PART 2 - GENERAL

- 2.1 Requirements for extra stock and training are as noted below.

### PART 3 - REQUIREMENTS

#### 3.1 PREFERRED

- A. No Requirements.

#### 3.2 REQUIRED

- A. Demonstration and Training of FFD Personnel:
  - 1. Requirements for demonstration and training is to be specifically identified in each technical specification section and cross-referenced with the requirements of this section.
  - 2. Requirements for demonstration and training to be confirmed with the Owner prior to preparing the final specifications.
  - 3. Specifications shall clearly state that demonstration and training is to include operation of all safeties, normal shut-down procedures, normal start-up procedures, emergency shut-down procedures, alarms and fault indicators.
  - 4. Specifications shall clearly state that demonstration and training is not to take the place of Contractor's start-up/programming activities. For example, if a demonstration is started and it reveals that a system component is not installed or operating correctly, the demonstration is to be discontinued until the system is rendered complete and fully operational by the Contractor.
  - 5. Demonstration and training shall be required for the following:
    - 1) Temperature control systems – 16 hours minimum for large projects.
    - 2) Irrigation systems.
    - 3) Fire suppression systems.



- 4) All electronic systems such as power, fire alarm, communications, etc.
  - 5) Virtually anything that is operable.
  - 6) All motor operated equipment such as rolling shutters, lifts and gates.
  - 7) Requirement that a "Listing of Required Training & Demonstrations" be submitted prior to the Required Training.
  - 8) Specialty Fire Department Equipment
- B. Maintenance Materials, i.e. "Extra Stock":
1. Requirements for extra stock are to be specifically identified in each technical specification section and cross-referenced with the requirements of this section.
  2. Requirements for extra stock to be confirmed with the Owner prior to preparing the final specifications. Typical items include paint, carpet, ceiling tile, floor tile, etc.
  3. The specification shall require extra stock to be delivered to the Owner in new, un-opened boxes or cans, and clearly labeled. Transmittals are to be used to document what is sent and who receives it.
  4. Requirement that a "Listing of Required Extra Stock" be submitted prior to the Project Closeout.
- C. As-built drawings: Final as-built drawings will be performed by the A/E at the closeout of the project. Drawings will be done in CAD format, per *Computer Aided Design and Drafting (CAD) Standards for Fleets and Facilities Department*.
- D. Warranty Schedule: Contractor to provide a warranty schedule for each product used in the project. Schedule to indicate warranty start date, expiration date, and duration. Include all products on schedule, including those covered under contractor's standard 1-year warranty.

### 3.3 NOT ACCEPTABLE

- A. Maintenance Materials, i.e. "Extra Stock":
- a. Surplus construction materials not specified or desired by the Owner are not to be left as additional "extra stock" and are to be disposed of by the Contractor.

END OF SECTION



## Division 02 Existing Conditions

### SECTION 02 26 00 — HAZARDOUS MATERIALS ASSESSMENT

#### PART 1 - SUMMARY

- 1.1 Notes to the A/E regarding Hazardous Materials Assessments for existing buildings and as found during construction.

#### PART 2 - GENERAL

- 2.1 Section includes
  - A. Hazardous materials (asbestos, underground storage tanks, PCB's, lead paint, etc).

#### PART 3 - REQUIREMENTS

##### 3.1 PREFERRED

- A. No Requirements.

##### 3.2 REQUIRED

- A. At existing facilities where hazardous materials are know or suspected, the following procedure will take place:
  - 1. The A/E will obtain the services of a hazardous materials consultant to review and test materials in the building and/or the site.
  - 2. Where materials are known or discovered prior to bid, the hazardous materials consultant will prepare documents for inclusion in the A/E's bid package.
  - 3. Where materials are discovered during construction, the hazardous materials consultant will prepare documentation for issuance to the contractor during construction.

##### 3.3 NOT ACCEPTABLE

- A. No requirements.

END OF SECTION



## SECTION 02 42 00 — REMOVAL AND SALVAGE OF CONSTRUCTION MATERIALS

### PART 1 - SUMMARY

- 1.1 Notes to the A/E regarding existing artwork.

### PART 2 - GENERAL

- 2.1 Section includes
  - A. Existing artwork to remain.
  - B. Existing artwork to be removed or relocated.

### PART 3 - REQUIREMENTS

#### 3.1 PREFERRED

- A. FFD will determine which existing art pieces are to be removed and reinstalled, and those to remain in place during construction. Protection measures, regardless of whether removed or left in place during construction, shall be coordinated through the Office of Arts and Cultural Affairs (OAC).

#### 3.2 REQUIRED

- A. Where artwork is to remain during construction, coordinate with the Office of Arts and Cultural Affairs (OAC) Project Manager to verify protection procedures or other requirements regarding artwork. Note: all artwork is owned by the OAC.
- B. Where artwork is to be removed or relocated: City of Seattle Office of Arts and Cultural Affairs will relocate. A/E to coordinate with FFD and OAC Project Managers.

#### 3.3 NOT ACCEPTABLE

- A. No Requirements.

END OF SECTION



## Division 03 Concrete

### SECTION 03 00 00 — CONCRETE

#### PART 1 - SUMMARY

1.1 Concrete apparatus aprons (ramps).

1.2 Concrete sidewalks.

1.3 Apparatus bay floors

#### PART 2 - GENERAL

2.1 Concrete slabs at aprons and apparatus bays need to be designed to accommodate loads imposed by fire and emergency service vehicles. All slabs to be designed for the heaviest vehicle (ladder/tiller).

#### PART 3 - REQUIREMENTS

##### 3.1 PREFERRED

A. Consider stained concrete at interiors, where approved by FFD.

##### 3.2 REQUIRED

A. Apron and sidewalk finish: Light broom.

B. Apparatus bay finish: Provide a slip resistant and mop-cleanable surface throughout. Consider an integral floor finish system such as Retroplate.

##### 3.3 NOT ACCEPTABLE

A. No requirements.

END OF SECTION



## Division 04 Masonry

### SECTION 04 00 00 — MASONRY

#### PART 1 - SUMMARY

- 1.1 Mortar, stone, brick, or concrete masonry products.

#### PART 2 - GENERAL

- 2.1 Where masonry is proposed, pay careful attention to flashings, copings, and sealers.

#### PART 3 - REQUIREMENTS

##### 3.1 PREFERRED

- A. Flashings: Stainless steel.

##### 3.2 REQUIRED

- A. No requirements.

##### 3.3 NOT ACCEPTABLE

- A. No requirements.

END OF SECTION



## Division 05 Metals

### SECTION 05 00 00 — METALS

#### PART 1 - SUMMARY

- 1.1 Metal Stairs, Landings, and Guardrails.
- 1.2 Fire poles.

#### PART 2 - GENERAL

- 2.1 Metal Stairs: Stairway tread shall be of a nonskid design. Examples of nonskid: Grip strut grating, serrated edge grating, metal grating, aluminum safety tread, abrasive metal stair tread, or pressure sensitive nonskid type (WAC 296-305-06503).
  - A. Stair and landing protection: Stairways, guardrails, landings, and handrails shall be constructed to the requirements of chapter 19.27 RCW the State Building Code Act, and chapter 296-24 WAC, Part J-1 (WAC 296-305-06503).
  - B. A standard guard railing for a landing platform shall include a toeboard, which is a vertical barrier, at floor level erected along exposed edges of a floor opening, wall opening, platform, runway or ramp to prevent falls of material (WAC 296-305-06503).
  - C. Cable railings: Where A/E proposes cable railings, confirm cable spacing and construction requirements with Seattle Building Department.
  - D. Fire Poles: Brass.
  - E. Where exterior steel is used, ensure that pigeon roosts are not created!

#### PART 3 - REQUIREMENTS

##### 3.1 PREFERRED

- A. Steel finishes: bare galvanized or high performance coatings. No paint.

##### 3.2 REQUIRED

- A. Exterior steel: galvanize all pieces.

##### 3.3 NOT ACCEPTABLE

- A. No requirements.

END OF SECTION





## Division 06 Wood, Plastics, and Composites

### SECTION 06 10 00 — ROUGH CARPENTRY

#### PART 1 - SUMMARY

- 1.1 Blocking and backing for wall and ceiling mounted items.
- 1.2 Backing board for MDF equipment and telephone boards.

#### PART 2 - GENERAL

- 2.1 A/E to specify materials and locations for blocking and backing required for work included as part of the construction contract and for accessories provided by the Owner after construction is complete.
- 2.2 Provide fire retardant treated wood or steel materials as required by code requirements depending upon the building construction type.

#### PART 3 - REQUIREMENTS

##### 3.1 PREFERRED

- A. Provide for ample blocking and backing in the base construction contract for all possible future wall mounted accessories.

##### 3.2 REQUIRED

- A. A/E to review project specific requirements for accessories provided by SFD after construction that require blocking or backing.
- B. Blocking and backing shall be designed by the A/E to support the anticipated accessory dead load and for the bracing requirements of code required seismic design criteria.
- C. Blocking and backing shall be designed to consider possible live loads applied due to unintended use, vandalism, or mischief. Examples include persons standing on countertops and persons hanging/swinging from wall mounted devices.
- D. Examples of items for which blocking and backing the A/E shall include in the construction contract:
  - 1) Telephone, data, patch panels, security and other electronic systems equipment.
  - 2) Toilet accessories.
  - 3) Wall mounted door stops.
  - 4) Handrails.



- 5) Visual display boards such as whiteboards, tackboards, and bulletin boards.
  - 6) Wall mounted shelving and countertops.
  - 7) Fire extinguishers.
  - 8) Lockers and locker benches.
  - 9) Grab bars.
  - 10) Furniture panels, furniture system tack boards and furniture system shelf standards.
  - 11) Display and exhibit systems.
  - 12) Projection screens, projectors, monitors, televisions.
  - 13) Signage and graphics.
  - 14) Artwork.
  - 15) Building dedication plaques
  - 16) Cable TV mounting brackets
- E. MDF Room walls: Fire retardant plywood with fire retardant paint finish. See Room Data Sheet, TT. Communications Room.

### 3.3 NOT ACCEPTABLE

- A. Mounting accessories with hollow wall anchors or toggle bolts.

END OF SECTION



## SECTION 06 20 00 — FINISH CARPENTRY

### PART 1 - SUMMARY

- 1.1 Interior wainscot materials.

### PART 2 - GENERAL

- 2.1 Apparatus bay wainscot: Durable, water and abuse resistant surfaces from floor slab level to 8'-0" above finish floor.

### PART 3 - REQUIREMENTS

#### 3.1 PREFERRED

- A. Apparatus bay wainscots: Plywood, stainless steel, impact resistant gypsum wallboard, or other material meeting requirements noted above.

#### 3.2 REQUIRED

- A. No requirements.

#### 3.3 NOT ACCEPTABLE

- A. Fiberglass Reinforced Plastic (FRP).

END OF SECTION



## SECTION 06 41 00 — ARCHITECTURAL WOOD CASEWORK

### PART 1 - SUMMARY

#### 1.1 Plastic Laminate Clad Architectural Cabinets.

### PART 2 - GENERAL

- 2.1 Construction:  $\frac{3}{4}$ " thick MDF for all components, including drawers and doors. Commercial grade.
- A. Exterior cabinet finish, including shelves: High pressure laminate.
  - B. Interior finish: polyester.
  - C. Countertops:
    - 1. Counters in residential and administrative areas: any sustainable, durable product appropriate for application. Recycled content desirable.
    - 2. Restrooms: As above, with marine-grade plywood substrate.
    - 3. Beanery: See 3.2 below.

### PART 3 - REQUIREMENTS

#### 3.1 PREFERRED

- A. No requirements.

#### 3.2 REQUIRED

- A. Beanery countertops: Stainless steel, fully welded and ground smooth on all edges. Provide rolled edges. Marine grade plywood substrate.

#### 3.3 NOT ACCEPTABLE

- A. Plastic laminate countertops at Beanery.
- B. Tile countertops or any application with grout.
- C. Corian or any similar solid surface material.

END OF SECTION



## Division 07 Thermal and Moisture Protection

### SECTION 07 30 00 — STEEP SLOPE ROOFING

#### PART 1 - SUMMARY

- 1.1 Preferred types of Steep Slope Roofing.

#### PART 2 - GENERAL

- 2.1 Proposed systems should be in keeping with the 50-year life span of each project. Low slope roof systems may be used as well.
- 2.2 Owner may obtain the services of a third party weatherization consultant to review details and proposed construction assemblies. A/E to coordinate with FFD and weatherization consultant.

#### PART 3 - REQUIREMENTS

##### 3.1 PREFERRED

- A. No requirements.

##### 3.2 REQUIRED

- A. Provide fall protection for maintenance crews.

##### 3.3 NOT ACCEPTABLE

- A. No requirements.

END OF SECTION



## SECTION 07 40 00 — ROOFING AND SIDING PANELS

### PART 1 - SUMMARY

- 1.1 Preferred types of siding and roofing panels.

### PART 2 - GENERAL

- 2.1 Proposed systems should be in keeping with the 50-year life span of each project.
- 2.2 Owner may obtain the services of a third party weatherization consultant to review details and proposed construction assemblies. A/E to coordinate with FFD and weatherization consultant.

### PART 3 - REQUIREMENTS

#### 3.1 PREFERRED

- A. No requirements.

#### 3.2 REQUIRED

- A. Provide fall protection for maintenance crews to satisfy all local and state codes.

#### 3.3 NOT ACCEPTABLE

- A. No exposed zinc or zincalume finishes due to environmental concerns (Kynar finishes over zinc or zincalume are acceptable).
- B. No exposed fastener panel systems.

END OF SECTION



## SECTION 07 50 00 — MEMBRANE ROOFING

### PART 1 - SUMMARY

- 1.1 Membrane roofs (built-up, modified bituminous, elastomeric, thermoplastic, etc).

### PART 2 - GENERAL

- 2.1 Proposed systems should be in keeping with the 50-year life span of each project.
  - A. Provide walkway mats from access points to all roof mounted equipment.
  - B. Provide walkway mats from access points to all windows or skylights accessible from roof for ease of cleaning.
  - C. Provide walkway mats for any area designated for training purposes.

### PART 3 - REQUIREMENTS

#### 3.1 PREFERRED

- A. Provide opportunities for training: at designated training wall parapets, provide wood cap over flashings to allow safe laddering exercises. Provide 36" wide walkway protection on roof membrane along parapet for laddering exercises.

#### 3.2 REQUIRED

- A. Provide fall protection for maintenance crews to satisfy all local and state codes.

#### 3.3 NOT ACCEPTABLE

- A. Requirements.

END OF SECTION



## Division 08 - Openings

### SECTION 08 11 00 — METAL DOORS AND FRAMES

#### PART 1 - SUMMARY

##### 1.1 Hollow Metal Standard Steel Doors and Frames.

#### PART 2 - GENERAL

##### 2.1 Front Doors to be painted "red" as specified by SFD.

#### PART 3 - REQUIREMENTS

##### 3.1 PREFERRED

- A. All hollow metal frames to be standard 2 inch nominal face dimension. Head to be nominal 4 inch face dimension in masonry to match coursing.
- B. Exterior hollow metal doors shall be ANSI physical-endurance Level 3 and physical performance Level A (Extra Heavy Duty), Model 2 (Seamless).
- C. Interior hollow metal doors shall be ANSI physical-endurance Level 3 and physical performance Level B (Heavy Duty), Model 2 (Seamless).

##### 3.2 REQUIRED

- A. All hollow metal door frames to be welded.
- B. All exterior hollow metal frames to be galvanized.
- C. Provide vision panels where practical.

##### 3.3 NOT ACCEPTABLE

- A. Exterior wood door frames, unless required by Landmarks Preservation Board.
- B. Interior wood door frames, unless required by Landmarks Preservation Board.
- C. "Knock-down" hollow metal door frames.

#### END OF SECTION





## SECTION 08 14 00 — WOOD DOORS

### PART 1 - SUMMARY

#### 1.1 Wood Doors.

### PART 2 - GENERAL

#### 2.1 Wood doors are acceptable for interior use only.

### PART 3 - REQUIREMENTS

#### 3.1 PREFERRED

- A. Wood door finish, as determined by individual design teams:
  - 1. Wood veneer: factory applied transparent finish.
  - 2. MDO: field applied painted finish.
- B. Wood doors with vision panels to have wood stops. Fire rated veneer doors to have metal stops as required to meet rating with wood veneer surfacing.

#### 3.2 REQUIRED

- A. Solid core wood doors with minimum 5-ply particleboard core, or more as required by manufacturer to meet fire rating.
- B. Provide vision panels where practical.

#### 3.3 NOT ACCEPTABLE

- A. No plastic laminate faced doors.

END OF SECTION



## SECTION 08 31 00 — ACCESS DOORS

### PART 1 - SUMMARY

#### 1.1 Flush Metal Access Doors for Walls and Ceilings.

### PART 2 - GENERAL

- 2.1 Access doors to be provided in walls, mechanical chases and hard ceilings to access mechanical and electrical equipment. Access door locations in ceilings to be shown on reflected ceiling plans. All other access door locations shall be shown in the plans or if the access door is located on a wall that is elevated in the drawings, shown on the elevation drawing. Size access doors to provide complete access for servicing of equipment, minimum size is 18 inches x 18 inches, or larger as required to access work platforms.

### PART 3 - REQUIREMENTS

#### 3.1 PREFERRED

- A. Flush steel panel access doors. Access doors with recess for tile, gypsum wallboard or acoustic tile inserts may be permitted in special situations with prior approval by the Owner.

#### 3.2 REQUIRED

- A. No requirements.

#### 3.3 NOT ACCEPTABLE

- A. No Requirements.

END OF SECTION



## SECTION 08 36 00 — PANEL DOORS

### PART 1 - SUMMARY

- 1.1 Sectional overhead doors at Apparatus Bays.
- 1.2 Four-fold doors at Apparatus Bays.

### PART 2 - GENERAL

- 2.1 Apparatus bay doors: Four-fold doors preferred at front apparatus exits. Sectional overhead doors may be used at rear apparatus entrances/exits.
- 2.2 All panel door systems need to be designed for heavy industrial/commercial usage with high cycle, heavy duty hardware and operators specified.
- 2.3 Panel door size: 14'-0" x 14'-0", typical all bays.

### PART 3 - REQUIREMENTS

- 3.1 PREFERRED: Four Fold Doors
  - A. Construction: 14 ga steel sheeting and steel tube frames. 2 inch thick minimum panel thickness.
  - B. Opening performance: 2 feet per second.
  - C. Operator: Electro-mechanical/hydraulic.
  - D. Security: Tamper-proof fasteners and operator enclosures.
- 3.2 REQUIRED
  - A. Apparatus bay door color to be "red" as specified by SFD.
  - B. Sectional Overhead Doors:
    - 1. Track: 3 inch wide rolled steel track, galvanized.
    - 2. Lift mechanism: Minimum 75,000-cycle torsion spring with braided steel lifting cables. Consider counterweights in lieu of spring mechanisms.
    - 3. Hinge and Roller Assemblies: Heavy-duty hinges and adjustable roller holders of galvanized steel; floating hardened steel bearing rollers at top of each panel.



4. Operator: Sized to move door in either direction at not less than 2/3 foot/second, nor more than 1 foot per second.
5. Remotes: Provide 1 remote and spare per opening. Provide 2 remotes per opening if vehicles are stacked. Remotes need to be heavy-duty quality.

### 3.3 NOT ACCEPTABLE

- A. No Requirements.

END OF SECTION



## SECTION 08 40 00 — STOREFRONT AND WINDOWS

### PART 1 - SUMMARY

#### 1.1 Storefront and Windows.

### PART 2 - GENERAL

#### 2.1 Windows and Doors:

- A. Limit opening windows on ground floors to prevent intrusion.
- B. Provide commercial grade windows with low-maintenance finishes. Construction of window should be compatible with station LEED goals.

### PART 3 - REQUIREMENTS

#### 3.1 PREFERRED

- A. Aluminum storefront and window framing: Thermally broken extruded aluminum with anodized or fluoropolymer three coat finish.
- B. Aluminum storefront doors: Fully welded frames with anodized or fluoropolymer three coat finish.
- C. Other types as may be required by Seattle Landmarks Preservation Board.

#### 3.2 REQUIRED

- A. No requirements.

#### 3.3 NOT ACCEPTABLE

- A. Vinyl windows.
- B. Unclad, painted windows.

END OF SECTION



## SECTION 08 70 00 — FINISH HARDWARE

### PART 1 - SUMMARY

#### 1.1 Finish Hardware for Doors and Accessories.

### PART 2 - GENERAL

#### 2.1 Finish hardware colors and finishes to be selected by A/E to coordinate with building color scheme. Review proposed finishes and colors with the Owner.

### PART 3 - REQUIREMENTS

#### 3.1 PREFERRED

##### A. Wall stops or surface mounted overhead stops preferred. Avoid floor stops.

#### 3.2 REQUIRED

- A. Provide removable cores keyed to building system in this Section for all other accessory items such as locks in rolling doors/shutters, overhead doors, access doors, display cases and electric panels.
- B. Locksets to be full mortise with lever handle. Lever handles to have return. Locksets and 6-pin, removable lock cores. Preferred manufacturer: Schlage.
- C. Panic devices to be rim style, with removable mullions with cylinder locks keyed to building system. Preferred manufacturer: Von Duprin.
- D. For doors normally controlled with card readers: Provide a mechanical key override (i.e. mortise lockset).
- E. Provide key card system at staff entrance doors, front door, MDF/IDF Room, and parking gates (where applicable) and as determined by FFD. Approved manufacturer compatible with City security system: American Magnetics.
- F. All keying performed by FFD. Contractor to coordinate with City.
- G. Extra stock for finish hardware items required. Confirm exact requirements with the Owner for each project.
- H. Electrical engineer to coordinate electric strike power with key card reader locations.
- I. Provide kick plates at all doors.



3.3 NOT ACCEPTABLE

A. Pairs of doors that require coordinators.

END OF SECTION



## Division 09 Finishes

### Section 09 00 00 Finishes

#### PART 1 - SUMMARY

- 1.1 Preferred types of interior wall, floor, and ceiling finishes.

#### PART 2 - GENERAL

- 2.1 Proposed systems should be in keeping with the 50-year life span of each project. Systems should be durable, sustainable, long-lasting, and easy to maintain and clean.
- A. Materials and finishes noted below are a starting point only and each station crew will be allowed a say in materials to be used. Confirm all interior finish materials with FFD.
  - B. Provide extra stock: confirm extra stock requirements with FFD for each type of material.
  - C. Where gypsum wallboard ceilings are utilized, verify that access is provided to above ceiling equipment, wiring, etc. Use GWB judiciously at ceilings.
  - D. Provide impact resistant gypsum wallboard in corridors and other areas where wall damage is likely.
  - E. Ceramic tile at bathroom or restroom areas: 4 inch minimum size preferred. Confirm grout colors with FFD.
  - F. If concrete floors are used extensively throughout station, consider acoustic wall or ceiling treatments to prevent overly reverberant or noisy spaces.

#### PART 3 - REQUIREMENTS

##### 3.1 PREFERRED

- A. Finish Type A – Apparatus Bay Finishes
  - 1. Locations: Apparatus Bay
  - 2. Floors: See Section 03 00 00—Concrete.
  - 3. Walls: Concrete masonry units, impact-resistant gypsum wallboard, or other durable, water-resistant, nonporous material
  - 4. Ceilings: As determined by design team.





- B. Finish Type B – Administration and Crew Areas
  - 1. Locations: Public Lobby, Station Offices, Officers Quarters, Beanery, Day Room, Physical Training, and Bunk Rooms, Stairs, Laundry/Utility, BC Office and Quarters, General Office Support Area, Locker Room Alcoves, Training Room.
  - 2. Floors: Ceramic tile, terrazzo, stained concrete, institutional grade linoleum (with heat or chemical-welded seams), commercial carpet/carpet tiles.
  - 3. Walls: Gypsum wall-board; impact resistant at hallways and high traffic areas. "Slab-to-slab" for acoustical privacy where suspended ceilings are used.
  - 4. Ceilings: Suspended acoustic tile or gypsum wallboard
- C. Finish Type C – Operation Support Areas
  - 1. Locations: Decontamination/Clean Room, Hose Drying & Storage, Report Desk/Dispatch Counter, Battery Charging Alcove, Maintenance Work Area, Bunker Gear Room, EMS Storage, Apparatus Equipment Storage, Disaster Supply Storage, Receiving Area, Wash Alcove, and all Janitor Rooms.
  - 2. Floors: Sealed concrete with non-skid, stained finish
  - 3. Walls: Concrete masonry units, impact-resistant gypsum wallboard, or other durable, water-resistant, nonporous material. Epoxy finish at Decon. Room floor and walls.
  - 4. Ceilings: Suspended ACT with non-porous tiles or gypsum wallboard.
- D. Finish Type D – Equipment Rooms
  - 1. Locations: Electrical Room, Communications Room, Mechanical Room, General Storage, Compressor, and Elevator.
  - 2. Floors: Sealed concrete.
  - 3. Walls: GWB or impact resistant GWB, as required.
  - 4. Ceilings: As selected by A/E.
- E. Finish Type E – Bathrooms and restrooms.
  - 1. Locations: Accessible Restroom – Unisex, Toilet/Shower Rooms. Apparatus Restroom
  - 2. Floors: Ceramic tile or sheet linoleum with integral base.
  - 3. Walls: Ceramic tile or other water resistant material.
  - 4. Ceilings: GWB or suspended acoustic ceiling.

### 3.2 REQUIRED

- A. Provide stainless steel corner guards at all locations where impact damage is likely.
- B. Gypsum wallboard finish: Smooth; no texture.

### 3.3 NOT ACCEPTABLE

- A. Carpet in beanery kitchen and dining areas.
- B. Vinyl products or vinyl composition tile (VCT). Rubber products are acceptable.

END OF SECTION



## SECTION 09 90 00 — PAINTS & COATINGS

### PART 1 - SUMMARY

#### 1.1 Interior and Exterior Painting.

### PART 2 - GENERAL

#### 2.1 Painting systems shall be specified with multiple manufacturers. Specify Low-VOC paints.

### PART 3 - REQUIREMENTS

#### 3.1 PREFERRED

##### A. No Requirements.

#### 3.2 REQUIRED

##### A. Sheen

##### 1. Occupied spaces: Semi-gloss, typical; verify with FFD.

##### 2. Service Spaces: Semi-gloss, typical; verify with FFD.

##### B. Toilet Rooms, Janitor Rooms, Decon Rooms: Two-part water based epoxy system.

##### C. Extra stock required. Specify extra stock to be provided in new, un-opened cans, labeled with color name, number and manufacturer's color formula. Verify quantity with the Owner.

#### 3.3 NOT ACCEPTABLE

##### A. No Requirements.

### END OF SECTION



## Division 10 – Specialties

### Section 10 14 00 Signage

#### PART 1 - SUMMARY

1.1 Interior Building Signage.

1.2 Exterior Building Signage.

1.3 Dedication Plaque

#### PART 2 - GENERAL

2.1 Specify and schedule signs to be provided as part of the construction contract. Permanent information such as room name and number to be provided in both raised letters and braille.

1. Restrooms:
  - a. Name.
  - b. Pictograph.
2. Firefighter Bunk Rooms, wardroom lockers, and food lockers
  - a. Name or number; verify with FFD and station crews.
3. Permanent Mechanical, Electrical, Storage, Service Rooms, etc:
  - a. Name, i.e. "Electrical".
4. Other signage as required by code, such as ADA signs for parking and building entrances.

*Note: This section will require further clarification by CPD regarding specific signage standards and types of holders for individual firefighter names. Coordinate with CPD project manager.*

2.2 Specify and schedule building name signage. Review requirements with the Owner during design.

2.3 Specify and schedule all other code required signage such as building number, building address, floor level numbers in stairwells, posting of allowable floor loading, posting of maximum occupant load in assembly spaces and emergency egress plans. Review with the Owner and the Authority Having Jurisdiction during design.

A. Specify and schedule building dedication plaque. Review requirements with the Owner during design.

#### PART 3 - REQUIREMENTS



3.1 PREFERRED

- A. No requirements.

3.2 REQUIRED

- A. Exterior Building Signage: Individual letters.
  - 1. Material: As selected by A/E.
  - 2. Height: Height to meet building design intent. Building address numbers to meet height requirements of Authority Having Jurisdiction.
  - 3. Font: Arial
- B. Building Dedication Plaque
  - a. Text and Graphics: As determined by Owner.

3.3 NOT ACCEPTABLE

- A. No Requirements.



## Section 10 28 00 Toilet, Bath, and Laundry Accessories

### PART 1 - SUMMARY

#### 1.1 Toilet Accessories.

### PART 2 - GENERAL

#### 2.1 All toilet accessories to be surface mounted and provided as part of the general construction contract. No accessories will be vendor provided.

##### A. General toilet accessory notes:

1. Sanitary Napkin Disposal: Not required.
2. Sanitary Napkin/Tampon Dispenser: Not required.
3. Medicine cabinets not desired.
4. Soap dispensers: not required.
5. Paper towel dispensers: Large roll type (7" Ø x 8" wide), surface mounted; no hand dryers.
6. Trash receptacles: Floor standing or in cabinetry.
7. Towel racks: Provide hotel style with several rods for hanging wet towels.
8. All accessories to be simple and keyless; without spring loaded parts.
9. Provide a means for hanging an extra roll of toilet paper near toilet.

##### B. Ironing Cabinet: Wall mounted, with full size ironing board

### PART 3 - REQUIREMENTS

#### 3.1 PREFERRED

##### A. No Requirements

#### 3.2 REQUIRED

##### A.

#### 3.3 NOT ACCEPTABLE

##### A. See above.

### END OF SECTION



## SECTION 10 80 00 —FLAGPOLES

### PART 1 - SUMMARY

#### 1.1 Flagpoles.

### PART 2 - GENERAL

#### 2.1 Provide a flagpole at each station.

### PART 3 - REQUIREMENTS

#### 3.1 PREFERRED

- A. Flagpole: Aluminum construction with internal halyard.
- B. Lighting: Provide lighting at flagpole for nighttime display.

#### 3.2 REQUIRED

- A. No requirements.

#### 3.3 NOT ACCEPTABLE

- A. No requirements.

END OF SECTION



## Division 11 Equipment

### SECTION 11 20 00 — COMMERCIAL EQUIPMENT

#### PART 1 - SUMMARY

- 1.1 Operations and other non-kitchen equipment.

#### PART 2 - GENERAL

- 2.1 Fixed equipment such as extractors, bunker gear racks, hose dryers and compressors (both shop air and SCBA breathing air compressors) will be specified for inclusion as part of the general construction contract.
- 2.2 Audio/visual equipment and projectors will be furnished and installed by the Owner. Mounting devices to be provided and installed by Contractor.
- 2.3 Portable equipment such as hose racks and hose washers will be furnished and installed by the Owner.

#### PART 3 - REQUIREMENTS

##### 3.1 PREFERRED

- A. Bunker Gear Racks: As manufactured by Gear Grid.
- B. Other equipment models and manufacturers as provided by Owner.

##### 3.2 REQUIRED

- A. No requirements.

##### 3.3 NOT ACCEPTABLE

- A. No Requirements.

END OF SECTION



## SECTION 11 30 00 — RESIDENTIAL EQUIPMENT

### PART 1 - SUMMARY

- 1.1 Beanery kitchen equipment.

### PART 2 - GENERAL

- 2.1 Kitchen appliances: FFD will generate a selection of appliance models for selection/specification by the A/E

### PART 3 - REQUIREMENTS

#### 3.1 PREFERRED

- A. No requirements.

#### 3.2 REQUIRED

- A. No Requirements.

#### 3.3 NOT ACCEPTABLE

- A. No Requirements.

END OF SECTION





## Division 12 Furnishings

### SECTION 12 50 00 —FURNITURE

#### PART 1 - SUMMARY

##### 1.1 Office Furniture

##### 1.2 Residential Furniture and Beds.

#### PART 2 - GENERAL

2.1 Steelcase is the City of Seattle's standard for office furnishings. These items will be provided as part of a separate contract. (Purchased and installed by City of Seattle.)

2.2 A/E to coordinate with City's furnishings vendor.

#### PART 3 - REQUIREMENTS

##### 3.1 PREFERRED

A. No Requirements.

##### 3.2 REQUIRED

A. Beds: Single bed must accommodate extra long mattress.

##### 3.3 NOT ACCEPTABLE

A. No requirements.

END OF SECTION



## Division 14 Conveying Equipment

### SECTION 14 20 00 —ELEVATORS

#### PART 1 - SUMMARY

##### 1.1 Elevators.

#### PART 2 - GENERAL

- 2.1 Provide rugged, durable finishes in elevator cabs: consider concrete floors and stainless steel diamond plate steel wall finishes.

#### PART 3 - REQUIREMENTS

##### 3.1 PREFERRED

- A. No requirements.

##### 3.2 REQUIRED

- A. No Requirements.

##### 3.3 NOT ACCEPTABLE

- A. No Requirements.

END OF SECTION



## Division 21 Fire Suppression

### SECTION 21 10 00 —WATER-BASED FIRE SUPPRESSION SYSTEMS

#### PART 1 - SUMMARY

##### 1.1 Fire sprinkler systems.

#### PART 2 - GENERAL

##### 2.1 Provide NFPA 13 sprinkler system at all new stations and evaluate providing sprinkler systems at existing stations to be remodeled or renovated.

#### PART 3 - REQUIREMENTS

##### 3.1 PREFERRED

###### A. Semi-recessed heads in ceilings. Exposed heads with guard covers.

##### 3.2 REQUIRED

###### A. Schedule 40 black steel or thinwall steel pipe. Threaded or grooved end fittings.

##### 3.3 NOT ACCEPTABLE

###### A. No Requirements.

END OF SECTION



## Division 22 Plumbing

### SECTION 22 10 00 —PLUMBING PIPING AND PUMPS

#### PART 1 - SUMMARY

- 1.1 Plumbing piping.
- 1.2 Compressed air system.
- 1.3 Natural gas.

#### PART 2 - GENERAL

- 2.1 Fire Sprinkler System: Provide NFPA 13 sprinkler system at all new stations and evaluate providing sprinkler systems at existing stations to be remodeled or renovated.
- 2.2 Compressed air system: Size to provide air for vehicle exhaust system, power tools in shop and apparatus bay drops. Tank mounted reciprocating type compressor with filters and air dryer.

#### PART 3 - REQUIREMENTS

##### 3.1 PREFERRED

- A. No Requirements.

##### 3.2 REQUIRED

- A. Below grade water piping: Type 'K' copper.
- B. Above grade water piping: Type 'L' copper
- C. Below grade waste piping: Cast iron or plastic.
- D. Vent piping: Cast iron or plastic.
- E. Gas piping: Schedule 40 black iron.
- F. Hydronic Piping: Type "L" copper.
- G. Pipe insulation: Preformed fiberglass with white laminated jacket. Molded PVC covers.



- H. Natural gas piping: A normally open solenoid valve is required to shut off gas to the kitchen range and any outdoor BBQ automatically on station call alarm, with a wall mounted manual reset in Beanery. Coordinate with electrical engineer.

3.3 NOT ACCEPTABLE

- A. No Requirements.

END OF SECTION



## SECTION 22 30 00 —PLUMBING EQUIPMENT

### PART 1 - SUMMARY

1.1 General plumbing fixtures and accessories.

1.2 Domestic hot water.

### PART 2 - GENERAL

2.1 Design plumbing systems to conserve water. Note: Using low flow fixtures will increase the time required to obtain hot water at the fixture. Modification of standard practice hot water recirculation will be required. (Also consider temperature maintenance tape.)

2.2 General plumbing fixture notes:

- A. Water Closets: Wall mount type only, vitreous china, manual dual flush valves (1.1gpf/1.6gpf), with open seats. No infrared sensors.
- B. Lavatories: Counter-top or wall hung units as indicated on drawings, vitreous china, with 1.5 gpm single handle mixing faucets which comply with ADA. No infrared sensors.
- C. Showers: Single piece fiberglass stalls with single lever pressure & temperature balancing control valve, adjustable 2.5 gpm spray head. ADA compliance where indicated with grab bars, seat and hand spray.
- D. Kitchen Sink: 18 ga. stainless steel, single or double bowl unit with 2.0 gpm single lever swing spout faucet, hose spray, 3/4 HP disposal and "insta-hot".
- E. Floor Service Sink: 24" x 24" floor mount with wall mount service type faucet, pail hook, edge guards, backsplash and hose.
- F. Water Coolers: Electric, ADA double fountain hi-lo units.
- G. Faucets: Commercial quality, polished chrome plated, cast brass.
- H. Urinals: None permitted. Remove existing urinals in remodels.

2.3 Plumbing accessory notes:

- A. Hose bibs (interior): Located in work areas, decon/wash alcove, and apparatus bay (minimum two (2) in apparatus bay).
- B. Freeze-proof hose bibs: Lockable wall boxes (minimum four (4) spaced locations).