

Southern Shores Fire Department

Program Needs

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FIRE VEHICLE BAYS	Size	Size	Size
Apparatus Bays (5; 4) Pull through, Double Loaded (80'D x 96'W: 70'D x 78'W)	7,680	5,460	5,460
Bay 1: Engine 123 @ 38' & F150 @ 21'			
Bay 2: Engine 124 @ 38' and F250 @ 20'			
Bay 3: Tower 121 @ 33' and Rehab @ 24'			
Bay 4: Tower 12 @ 40' and Yukon @ 17'			
Flourescent Lights (TB)			
Infra Red Gas Tube Heaters			
14x14 OH Doors w/ Remotes: Sectional Steel Doors - Full Glass @ front and 2 Rows of View Panels @ rear			
OH Door Controls @ each door; @ entry to bay area			
Normal Built-In Bay Exhaust System			
Plymovent Exhaust System (Reuse)			
Electric Shorelines Junction Boxes (2 per Bay - 30A) - Cord Reels By Owner (BO)			
Airtines Drops - 1 per double Bay			
No sewer, so the Bay Floors will need to be sloped to bay doors and exterior			
Oil Separator is required by AFJ			
Normal Inside/Outside Hosebibbs			
1.5" Truck fill line over each truck			
Sealed Concrete Floors with Stained Traffic Lines			
Height Clearances to Tip Cabs one bay (min.)			
Sprinkler Riser in Bays w/ Bollard protection			
(40) Gear Grid Style Turn-Out Lockers (BO) along Bay walls			
SCBA Compressor / Racks for Bottles - Cascade System along Bay walls			
Turn-out Gear Room - (40) Gear Grid Style Turn-Out Lockers (BO)	500	500	0
Decon/Laundry Room: Dbl. Stainless Stl. Sink w/ sideboards, Emergency Shower/Eyewash, Mop Sink, Extractor & Gas Gear Dryer (cuts and equipment BO, installed By GC)	230	230	230
Compressor Room: SCBA compressor (cuts BO) - storage racks for 20 bottles (BO) - Cascade System (BO) (1) Ice Machine (BO); Tool air compressor (BO)	230	230	0
FD Med. Closet - HVAC, Shelves (BO)	36	36	36
Tool Shop: 10' workbench; shelving, cabinets, Flammable Storage Cab. (BO), Ice Machine (BO)	150	150	150
Mech./Training/Storage Mezzanine w/ steel stairs from bays - Tool Air Compressor (BO)	600	400	400
TOTAL FIRE VEHICLE BAY SQUARE FOOTAGE	9,426	7,006	6,276

FIRE PUBLIC SPACES	Size	Size	Size
Lobby/Airlock (2 Seated Visitors) w/ Water Cooler	120	120	120
Public Restroom - HC accessible	64	64	64
Receptionist Office: 2 Desks, 2 File Cabs., Closet - w/ Pass Window to Lobby - Furniture (BO)	200	400	300
Radio/Report Room: 3 2 Built-in Workstations, 3 File Cabs, Closet - Base Radio & Chargers	225	225	150
Chief's Office: Desk w/ return, 4 File Cabs., Small Conf.-Area w/ table, Closet	252	252	172
Training Room: Table & Chairs for 48p w/ Storage Closet plus Table & Chair Stor. Rm (100 sf.); (50 sf)	1,200	1,200	1,150
Conference Room: Table & Chairs for 10p - Full AV	200	200	0
(2) Study Alcoves	32	32	0
TOTAL FIRE PUBLIC SPACES SQUARE FOOTAGE	2,293	2,483	1,856

FIRE PRIVATE SPACES	Size	Size	Size
Dayroom: 10 people at recliners - TV - separate from kitchen/dining	420	420	420
Kitchen/Dining with exterior door to Patio	625	625	600
1 Double Sink Deep & 1 HC Food Prep Sink			
Disposal			
(2) Gas Ovens w/ 4 Burner each			
3 Refrigerator/Freezers w/ Ice Makers			
1 Built-In MW Oven (Low)			
Solid Surface Countertops			
Suppression Hood			
Connection for Bunn Coffee Machine			
Wide Dining table for 40 & people			
1 Dishwashers			
Covered Outside Patio w/ low walls, gas grill connection, and 3 picnic tables	300	300	175
Individual Sleep Rooms - 1 bed; 3 lockers; 1 desk, wired for TV Outlets (4 @ 130 sf each; 1 @ 130 sf and 3 @ 100 sf ea.)	520	430	230
Individual Toilet/Shower Rooms - 1 tit., 1 sink, 1 shower (3x5), 1 bench (2 @ 120 sf each)	240	240	240
Exercise Room: (6) (4) workout stations - Equip. BO (wired for TV & DVD)	500	500	400
Residential Laundry / Linen Alcove: Residential Washer/Dryer (BO), Tub Sink, Base & Upper Cabs. for linen and supply storage	100	100	60
Janitor's Closet: Mop Sink and Shelving	64	64	64
TOTAL FIRE PRIVATE SPACES SQUARE FOOTAGE	2,769	2,679	2,189

Total Net Square Feet	14,488	12,178	10,421
Mechanical / Circulation 40% not including Apparatus Bays	2,723	2,687	1,984
Grossing Factor Bays Only - 10%	768	546	548
Total Gross Square Feet	17,979	15,411	12,951

Projected Base Construction Costs			
Low Range - New Construction Costs @ \$275 / sf	4,944,225	4,238,025	3,581,525
High Range - New Construction Costs @ \$325 / sf	5,843,175	5,008,575	4,208,075

SITE:

- 50' min. Concrete Aprons front and rear
- All Apparatus Driveways to be heavy-duty asphalt
- Asphalt Paving for non-Apparatus Circulation
- On-site Fire Hydrant at front & rear of station (water by City)
- Building & Yard Signage
- 1 Flagpole (Marine) w/ lighting
- Conc. Filled Steel Bollards at Bay Doors
- FD Parking: 25 paved car spaces & Overflow grass spaces
- Additional Parking for 1 visiting apparatus
- Full Building Propane Gas Generator w/ screen wall
- Dumpster enclosure
- Site Locations for Training Tower & Props
- Ham Radio Tower
- 37' Height Limit on Bldg.

GENERAL NOTES:

- All gas appliances and equipment possible
- Integral Corner Guards and Chair Rail Guards at Corridors
- All furniture & equipment by owner Unless Noted Otherwise (UND)
- As many incorporated training scenarios as possible: confined space - ropes/rappelling - ground ladder evolutions - stokes basket - etc.

POTENTIAL ALTERNATES:

- Fueling Station
- All Concrete Paving



SOUTHERN SHORES VOLUNTEER FIRE DEPT
SOUTHERN SHORES, NC

○ SITE PLAN OPTION F- SOUTH
SCALE: 1/16" = 1'-0"
DATE: 9.9.2011

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