



Coastside Fire Protection District

FIRE STATION #44

1. FIRE STATION SPACE PROGRAM

2. COMPONENT ROOM DIAGRAMS

3. EQUIPMENT BASIS OF DESIGN

PART I

SPACE NEEDS OUTLINE

- 1.0 General Site Parking & Operations
- 2.0 Apparatus Bay & Support Spaces
- 3.0 Fire House & Living Areas
- 4.0 Fire Station Administration & Support Spaces

Fire Station Space Program

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1.0 General Site Parking & Operations 2.0 Apparatus Bay & Support Spaces 3.0 Fire House & Living Areas 4.0 Fire Station Administration & Support Spaces			A. Simple Finishes B. Standard Office Finishes C. Intense Finish Systems D. Exposed Finishes					
No.	Description	Operations Criteria	Space Attributes	Square Footage		Finish Type		
1.0 GENERAL SITE PARKING & OPERATIONS				Net SF	Quant.	Dimension W L		
1.0a	Public Parking	Open Parking for Public	One (1) Handicap Space One (2) Standard Space	1,600	3	10	20	D
1.0b	Main Entry Gate	Card Access Gate: For use by Firefighters only	Motorized Gate Rolling Gate: Exit and Entry Entry Gate to be Decorative style wrought iron or equiv. Separate secured gate for access to trail: 5' wide		1			D
1.0c	Firefighter Parking	Open parking for shift firefighters	Eight (8) spaces total Standard Parking Stalls: 10' x 20'	3,200	8	10	20	D
1.0d	Generator Area	Back-Up Emergency power generator with protection from vehicular traffic	Emergency generator to provide 72 hours power for the entire main building Bottom Tank sized to accommodate run time	300	1	15	20	D
1.0e	Trash Enclosure	Space for trash and recycling bins.	Perimeter wall enclosure and cover Accessible to City trash pick up	180	1	12	15	D
1.0f	Appartus Apron/ Wash Down	Dedicated Space for the washing of apparatus vehicles	Immediately adjacent to rear app bay doors Area drain connected to clarifier unit	7200	2	60	60	D
1.0g	Fire Hydrants	Standard Fire Hydrants with Connections	Quantity and Location as required by Fire Department Protective bollards if adjacent to traffic areas	10	2	5	5	D
1.0h	Entry Plaza	Open space at Building Entry	Walkway to parking public parking One (1) Flagpole: Illuminated	200	1	10	20	D
1.0j	Fuel Island/Tank	Reloacte existing above ground fuel tank and dispensing system	New canopy over (E) fuel dispensing system Protective bollards if adjacent to traffic areas	375	1	15	25	D
1.0k	Communication Building	Free-Standing separate communications repeater station	Stand-Alone structure for Data & Communications Secured access and hardened walls New Monopole communication tower built adjacent Built prior to demolition and erection of new station	375	1	15	25	D
1.0l	Emergency Phone	Exterior Public Emergency Telephone	Located in outside of building Lobby and	-	1			D
Site Parking & Operations Area Sub-Total				13,440				

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No.	Description	Operations Criteria	Space Attributes	Square Footage		Finish Type		
2.0 APPARATUS BAY & SUPPORT SPACES				Net SF	Quant.	Dimension W L		Finish
2.0a	Apparatus Bay	Individual bays for each truck	Two (2) Drive-Thru Bays: Minimum clear depth 75' Two (2) Type 1, One (1) Type 3 & One (1) Pickup Truck Provide overhead power for charging and equipment Overhead vehicle exhaust extraction system (Plymonvent) Bi-Fold Doors at Front: 14' x 14' Two (2) total Overhead Glazed Section Doors at rear: 14' x 14' Two (2) Trench drains in floor connected to site clarifier unit Provide wharf hydrant on Driver Side of Outer bay	3200	2	20	80	A
2.0b	Tool/Utility Shop Room	Maintenance room off Apparatus Bay	HAZ-MAT locker cabinet Floor Drain at center Countertop with overhead cabinets for storage	180	1	15	12	A
2.0c	Mechanical Room		Water heater and recirculation pump Durable wall finish to allow wash down HVAC and controls	150	1	10	15	A
2.0d	Storage Mezzanine	Open side mezzanine storage above occupied spaces below	Guardrail along apparatus side Wall ladder access	810	1	18	45	A
2.0e	Turn-Out Gear & Laundry	Separate laundry and gear storage with inter-connecting door	Turn-Out Gear Extractor: Capacity four (4) Full Sets Large Capacity Residential Washer & Dryer Heating with air circulation for drying of Turn-Out Gear Epoxy Floor Finish with Floor Drain Durable wall finish to allow wash down Wall Mounted Racks Turnout lockers (18 sets)	368	1	23	16	A
2.0f	Toilet Room/DECON	Decon & Toilet room with direct access to Apparatus Bay	Decon shower Sealed Concrete Floor with Drain Standard toilet and lavatory	42	1	6	7	A
2.0g	Hose & Equipment Storage		Overhead storage cabinets for miscellaneous equipment Portable hose storage racks Double access doors for ease of moving racks in and out	96	1	8	12	A
2.0h	EMS Storage	Dedicated EMS Storage with direct access to Apparatus Bay	Locking full height cabinets Sealed Concrete with Coved base for wash down Space for up to four (4) large oxygen bottles	100	1	10	10	A
APPARATUS BAY & SUPPORT SPACES				4,946	9			

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No.	Description	Operations Criteria	Space Attributes	Square Footage			Finish Type	
3.0 FIRE HOUSE & LIVING AREAS				Net SF	Quant.	Dimension W	L	Finish
3.0a	Dining Area	Open Dining Space with large table to accommodate up to 10 persons	Immediate adjacent to Kitchen Area	225	1	15	15	B
3.0b	Kitchen	Shared Kitchen by all firefighter staff	4-Burner Residential Series Stove with Hood Solid surface Countertops with non-drip edge Food Prep Island with Storage Below Appliances to include: Microwave, Refrigerators (3), Freezer, Sink etc. Adjacent to dining area & Day Room	225 S	1	15	15	B
3.0c	Food Pantry		Adjustable shelves for storage: 2 Sides minimum Positive pressurized room for air circulation Locking door	64	1	8	8	A
3.0d	Day Room	Open Space for Firefighter leisure	Day lighting and Fully-Controllable lighting systems Infrastructure for large flat panel television and surround Floor Space to accommodate up to six (6) lounge chairs Full-Height Acoustic Sound walls Adjacent to Kitchen and Dining Area (Open Space)	300	1	20	15	C
3.0f	Batallion Chief/Captain Suite	Individual Captain Dorm with bathroom and adjacent office	California Twin Bed with Reading light Personal Desk with Task Lighting Full-Height Acoustic Sound walls Operable Exterior Window (Code Required) Infrastructure for wall mounted T/V (By Others) Private bathroom and shower	702	2	27 S	13	C
3.0c	Outdoor Patio & BBQ Area	Covered area adjacent to Dining	Natural Gas stub-out for BBQ by others Overhead ceiling fans and lighting Screening from public areas and parking	225	1	15	15	A
3.0g	Firefighter Dorm Rooms	Individual Firefighter Sleeping Rooms	California Twin Bed with Reading Light Personal Desk with Task Lights Full-Height Acoustic Sound walls Full-Height/Dual side wardrobe lockers along hallway Operable Exterior window (Code Required) Personal Bath with 3'x5' shower	720	4	18	10	C
FIRE HOUSE & LIVING AREAS				2,461	11			

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No.	Description	Operations Criteria	Space Attributes	Square Footage		Finish Type		
4.0 FIRE STATION OFFICES & SUPPORT SPACES				Net SF	Quant.	Dimension W L		Finish
4.0a	Lobby/Reception	Public Lobby	Built-In Check-In Counter with power/data/tele Seating for two (2) persons Durable Floor finish system Secured vestibule for 24/7 emergencies and baby drop-off Controlled Access point to building interior	186	1	10	15	B
4.0b	Accessible Restroom	Uni-sex accessible restroom for visitors & Community Room	Full ADA Accessibility Entry off Public Lobby space	128	2	8	8	C
4.0c	Station Office	Secured Office space	System furniture for up to three (3) people Window to Apparatus Bay and to Lobby Acoustic Insulated Walls for Privacy	180	1	12	15	B
4.0e	IDF/Communications	Secured space for station radio, telephone and data systems	Floor-Mounted Racks (3) with overhead cable tray Plywood Backboard two (2) walls Full-Height 1-Hour rated walls (Dry-type Sprinklered) Separate 24-Hour A/C system	64	1	8	8	B
4.0f	Main Electrical Room	Dedicated Facility Electrical Room	Direct access to exterior Exposed Concrete floor	96	1	8	12	
4.0g	Storage Closet	Interior storage for facility material, supplies and equipment	Adjustable shelves for storage Front Bi-Folding Doors	49	1	7	7	A
4.0h	Laundry/Jan	Space to store equipment, cleaning and restroom supplies	Adjustable shelves for storage Mop sink - extra deep (6" - 8") Freestanding deep sink	80	1	10	8	A
4.0j	Exercise/Workout Room	Open Space to accommodate free weights and weight machines	HVAC Controls to moderate temperatures & Ventilation Direct Access to outdoor area Wall mounted A/V for television Durable exercise floor finish: Easy to clean Standard Power Outlets for equipment	480	1	24	20	A

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No.	Description	Operations Criteria	Space Attributes	Square Footage				Finish Type
4.0k	Community Room/Training Classroom	Sharded multi-purposed room to accommodate minimum of 30 persons	Separate HVAC System from station for after hour use Direct Access to front Lobby. No station access Complete A/V system for presentations & meetings Dedicated power and internet outlets in floor and wall Multi-Level, controllable lighting system for instruction	900	1	30	30	A
4.0l	Dedicated Storage	Dedicated storage room within Community room for storage of chairs and tables	Direct double door access to community room Locking doors for security of stored items Durable Floor finish system	80	1	10	8	A
4.0m	Riser Room	Fire Sprinkler Riser	Direct Exterior Access Durable Floor finish system	48	1	6	8	A
FIRE STATION OFFICES & SUPPORT SPACES				2,291	12			
CONCEPTUAL SPACE NEEDS SUMMARY:				QTY.	AREA			

1.0 GENERAL SITE PARKING & OPERATIONS
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2.0 APPARATUS BAY & SUPPORT SPACES	Sub Total	4,946 SF
Horizontal Circulation / Structural (10%)		495 SF
	2.0 Sub Total	5,441 SF

3.0 FIRE HOUSE & LIVING AREAS	Sub Total	2,461 SF
Horizontal Circulation / Structural (20%)		492 SF
	3.0 Sub Total	2,953 SF

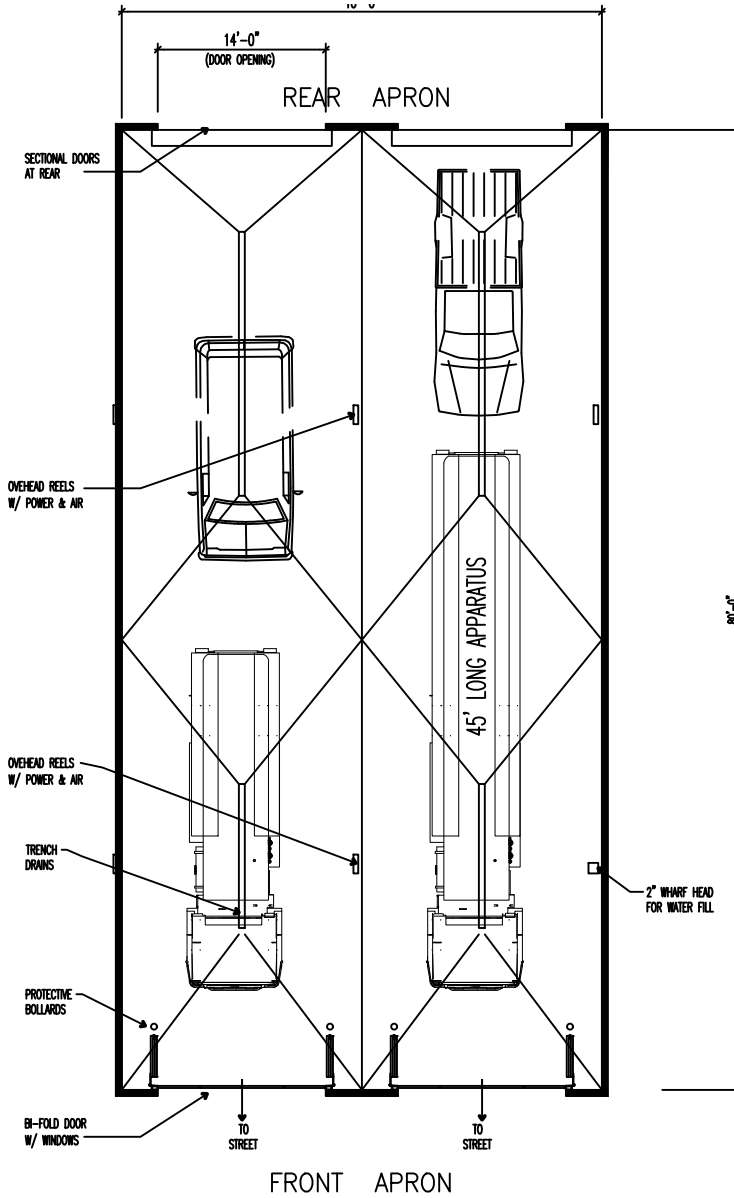
4.0 FIRE STATION OFFICES & SUPPORT SPACES	Sub Total	2,291 SF
Horizontal Circulation / Structural (25%)	Sub Total	573 SF
	Building Total	2,864 SF

Overall Projected Building Area	11,258 SF
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PART II

COMPONENT ROOM DIAGRAMS

PROGRAM - PART II



APPARATUS BAY

SCALE: 1/16" = 1'-0"

4,200 SQ.FT.



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City of Coastside
Fire Station #44

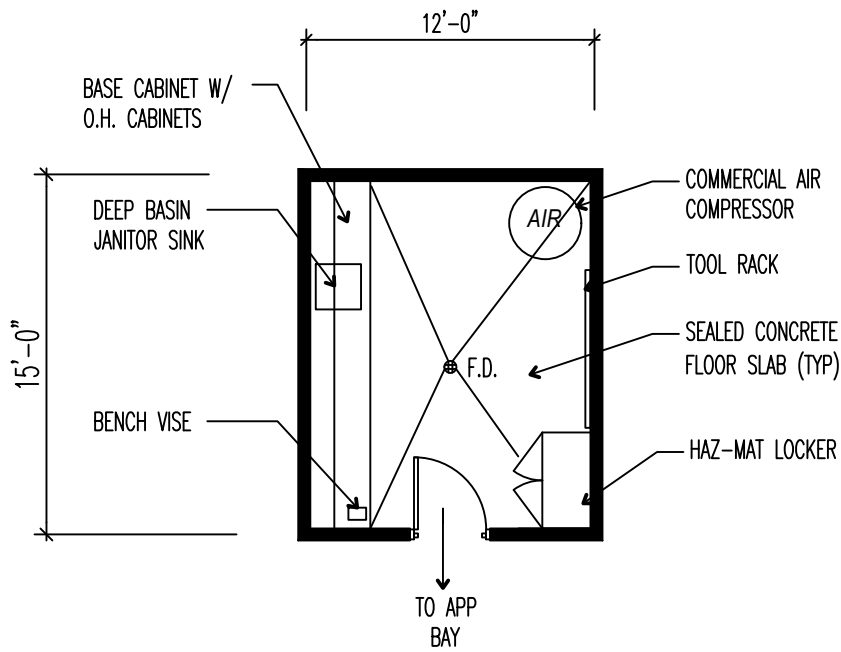
APPARATUS BAY

Component Diagrams

Ref. No. 2.0a

Code March 2022

PROGRAM - PART II



TOOL/UTILITY ROOM

SCALE: 1/8" = 1'-0"

180 SQ.FT.



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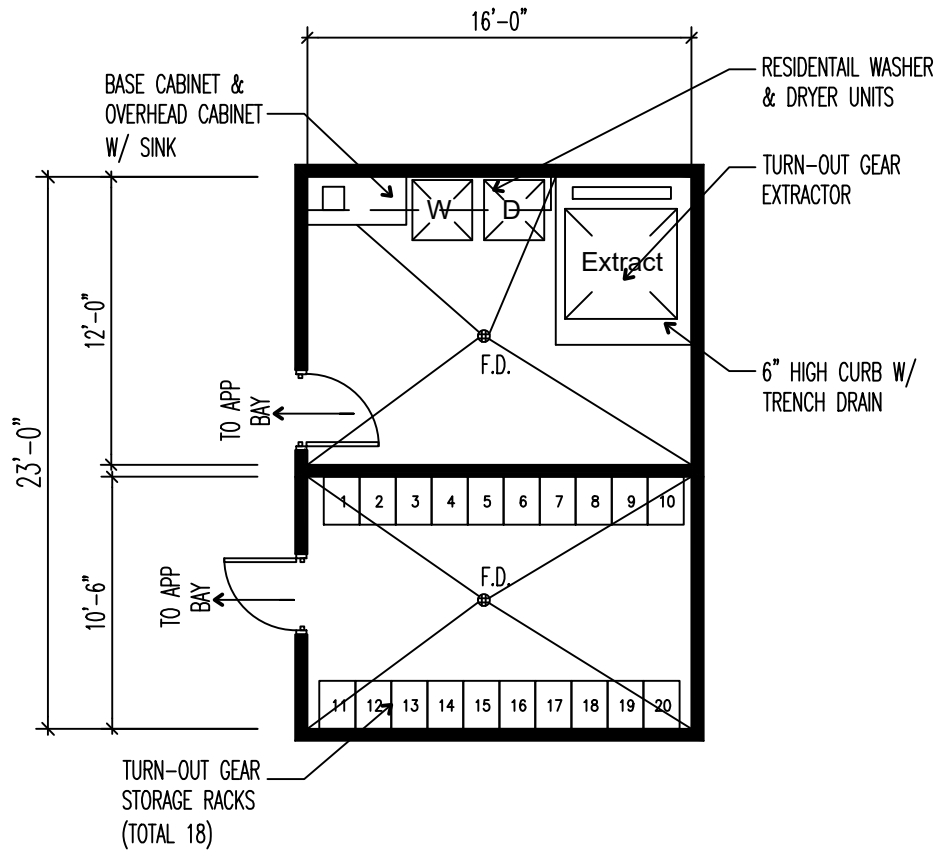
TOOL ROOM

Component Diagrams

Ref. No. 2.0b

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PROGRAM - PART II



TURN-OUT GEAR STORAGE & LAUNDRY

SCALE: 1/8" = 1'-0"

368 SQ.FT.



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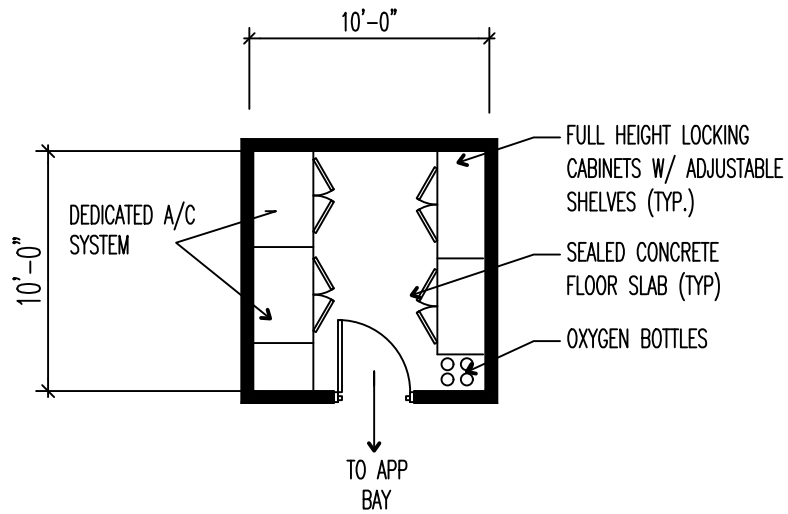
City of Coastside
Fire Station #44

TURN-OUT GEAR & LAUNDRY

Component Diagrams

Ref. No. 2.0e

Code March 2022



EMS STORAGE

SCALE: 1/8" = 1'-0"

100 SQ.FT.



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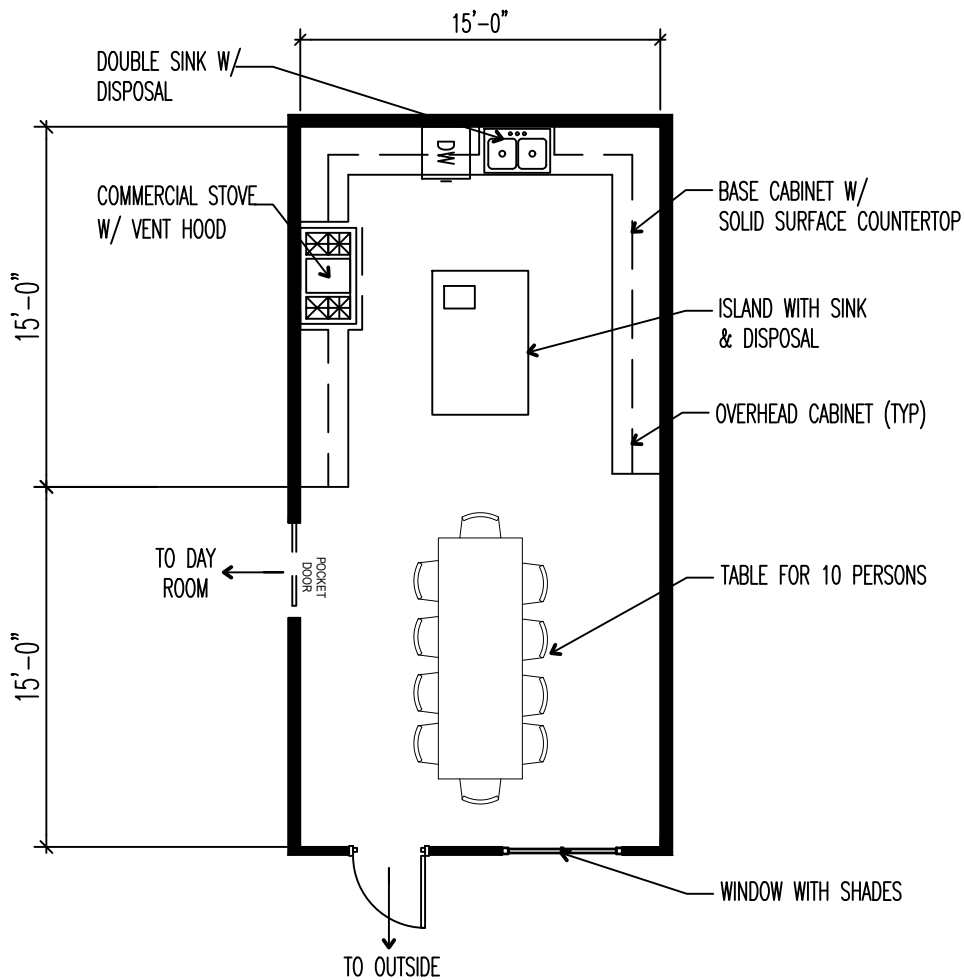
EMS STORAGE

Component Diagrams

Ref. No. 2.0g

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PROGRAM - PART II



STATION KITCHEN & DINING

SCALE: 1/8" = 1'-0"

435 SQ.FT.



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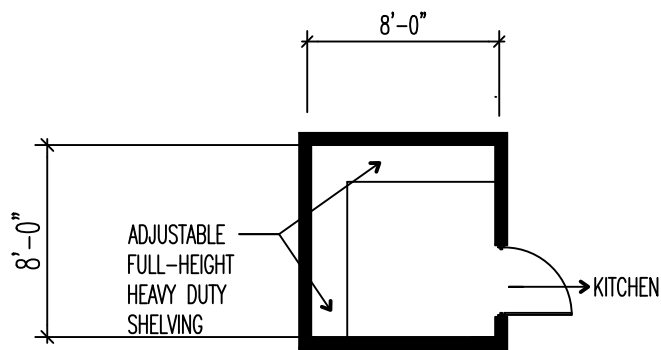
City of Coastside
Fire Station #44

STATION KITCHEN & DINING

Component Diagrams

Ref. No. 3.0a

Code March 2022



SHIFT PANTRY

SCALE: 1/8" = 1'-0"

64 SQ.FT.



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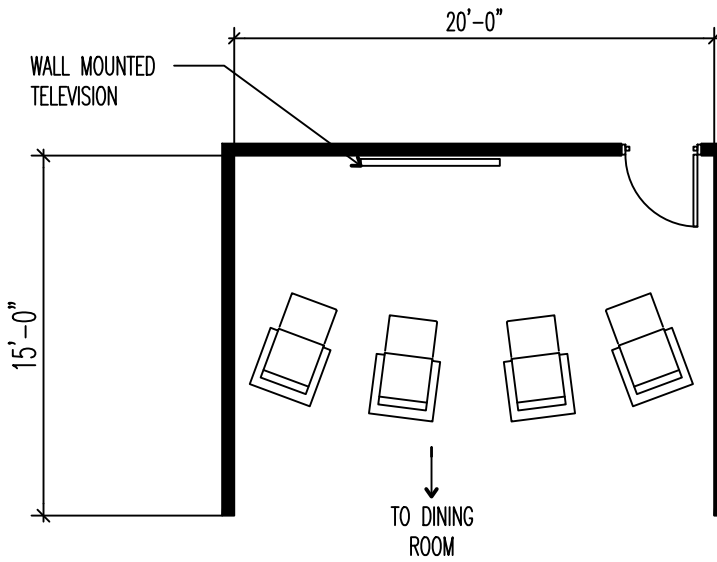
City of Coastside
Fire Station #44

SHIFT PANTRY

Component Diagrams

Ref. No. 3.0c

Code March 2022



DAY ROOM

SCALE: 1/8" = 1'-0"

344 SQ.FT.



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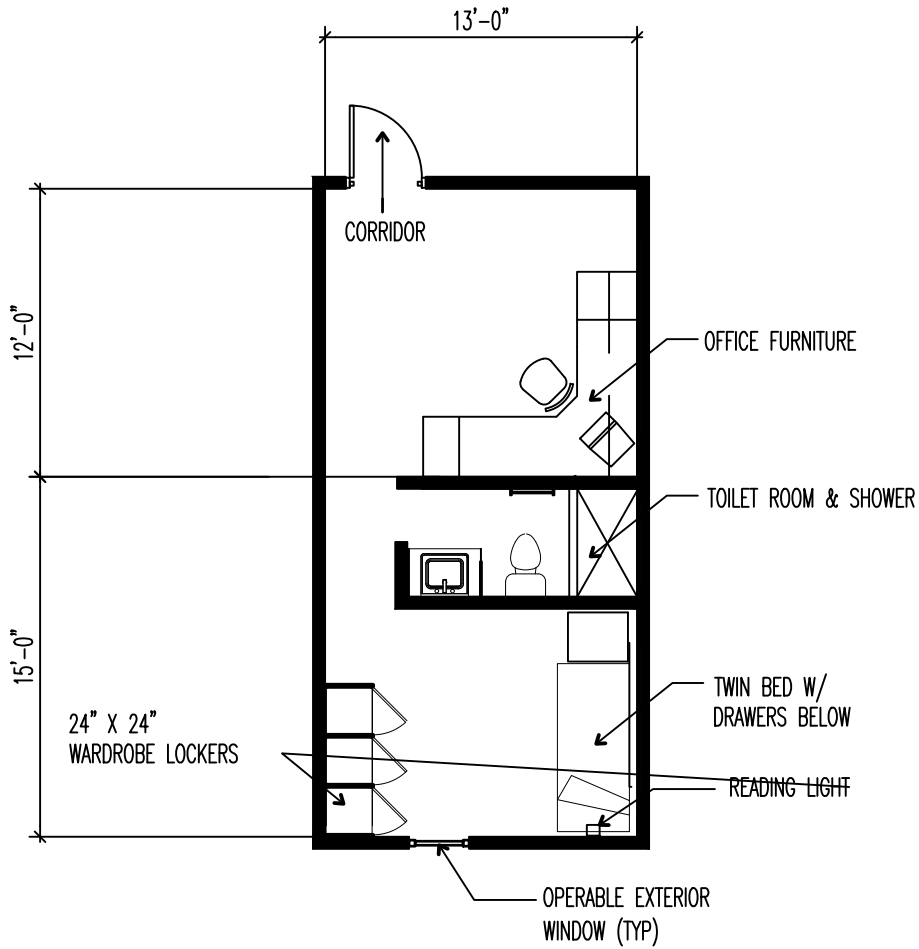
City of Coastside
Fire Station #44

DAY ROOM

Component Diagrams

Ref. No. 3.0d

Code March 2022



BATAILLION CHIEF/CAPTAIN SUITE

SCALE: 1/8" = 1'-0"

80 SQ.FT.



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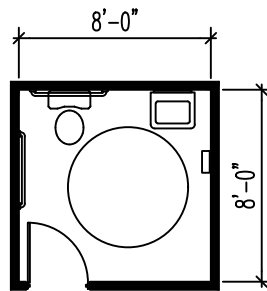
City of Coastside
Fire Station #44

CAPTAIN SUITE

Component Diagrams

Ref. No. 3.0f

Code March 2022



ACCESSIBLE RESTROOM

SCALE: 1/8" = 1'-0"

60 SQ.FT.



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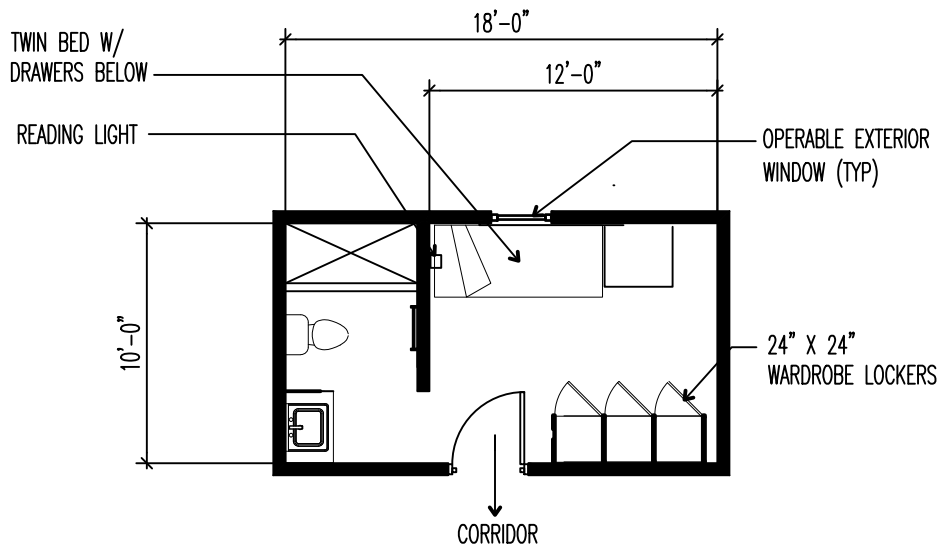
City of Coastside
Fire Station #44

ACCESSIBLE RESTROOM

Component Diagrams

Ref. No. 4.0b

Code March 2022



DORM ROOM SUITE

SCALE: 1/8" = 1'-0"

170 SQ.FT.



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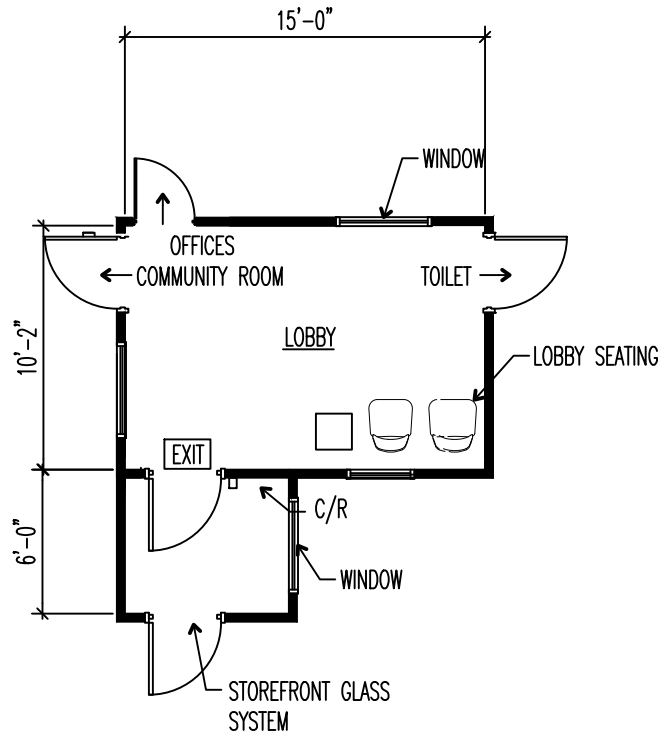
City of Coastside
Fire Station #44

TYPICAL DORM ROOM

Component Diagrams

Ref. No. 3.0g

Code March 2022



ENTRY PLAZA
AREA

PUBLIC LOBBY

SCALE: 1/8" = 1'-0"

186 SQ.FT.



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City of Coastside
Fire Station #44

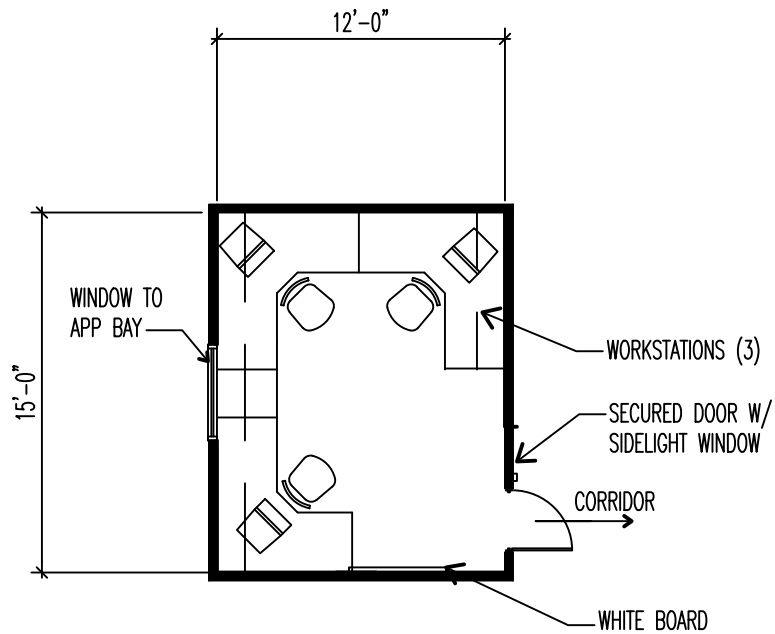
MAIN ENTRY LOBBY

Component Diagrams

Ref. No. 4.0a

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PROGRAM - PART II



STATION OFFICE

SCALE: 1/8" = 1'-0"

180 SQ.FT.



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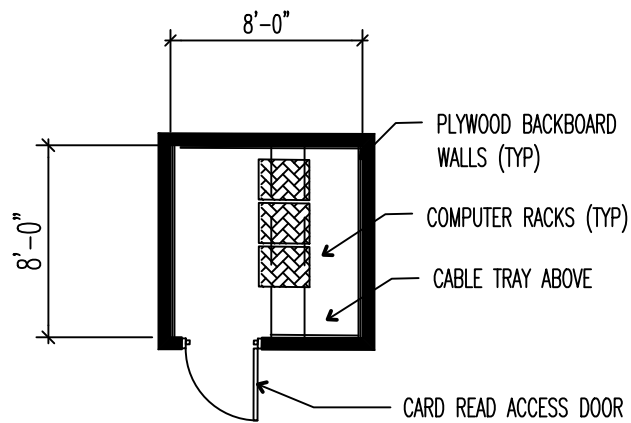
City of Coastside
Fire Station #44

STATION OFFICE

Component Diagrams

Ref. No. 4.0c

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IDF/COMMUNICATIONS

SCALE: 1/8" = 1'-0"

64 SQ.FT.



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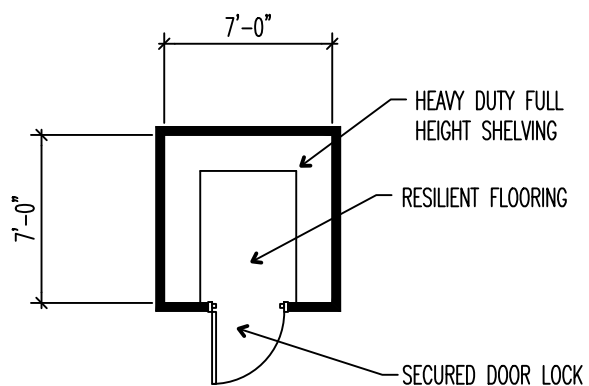
City of Coastside
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IDF / COMMUNICATIONS

Component Diagrams

Ref. No. 4.0e

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STORAGE

SCALE: 1/8" = 1'-0"

50 SQ.FT.



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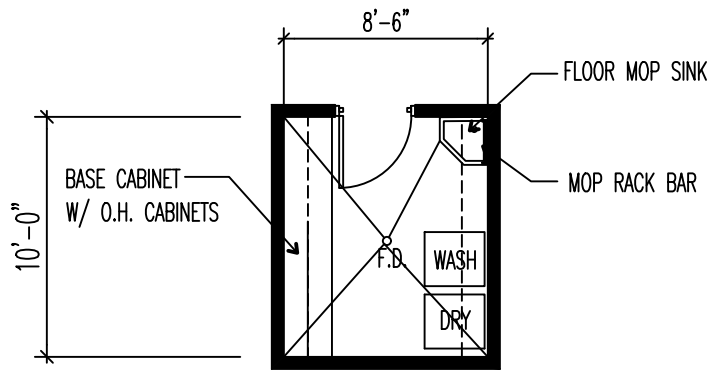
City of Coastside
Fire Station #44

STORAGE

Component Diagrams

Ref. No. 4.0g

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LAUNDRY/JANITOR

SCALE: 1/8" = 1'-0"

86 SQ.FT.



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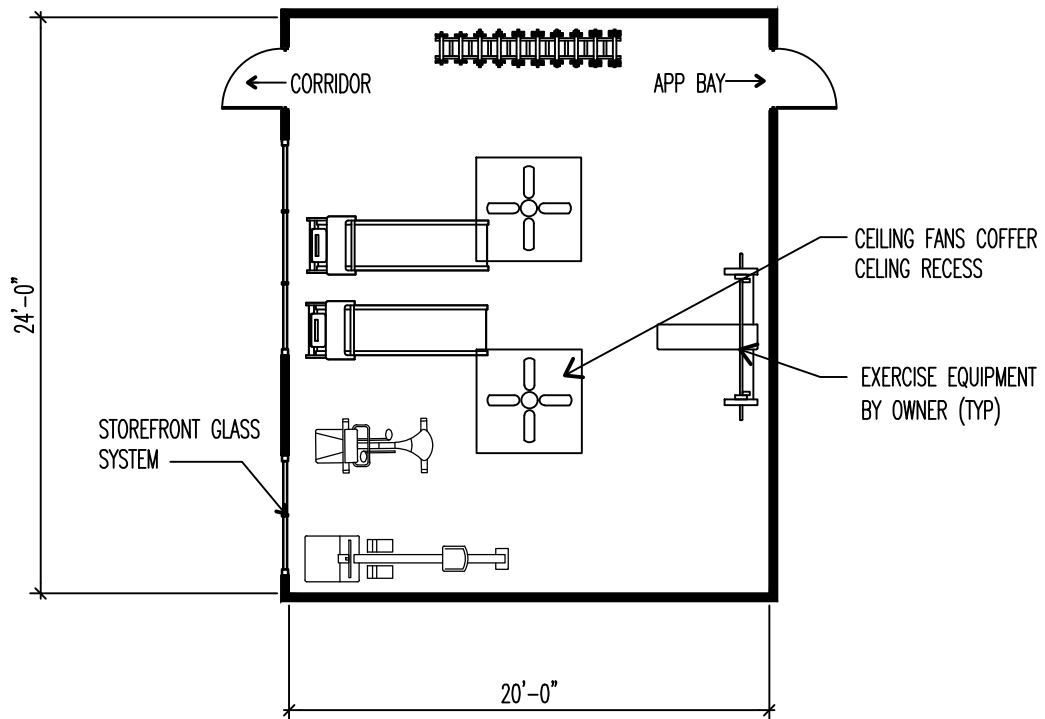
City of Coastside
Fire Station #44

LAUNDRY/JANITOR

Component Diagrams

Ref. No. 4.0h

Code March 2022



EXERCISE WORKOUT ROOM

SCALE: 1/8" = 1'-0"

480 SQ.FT.



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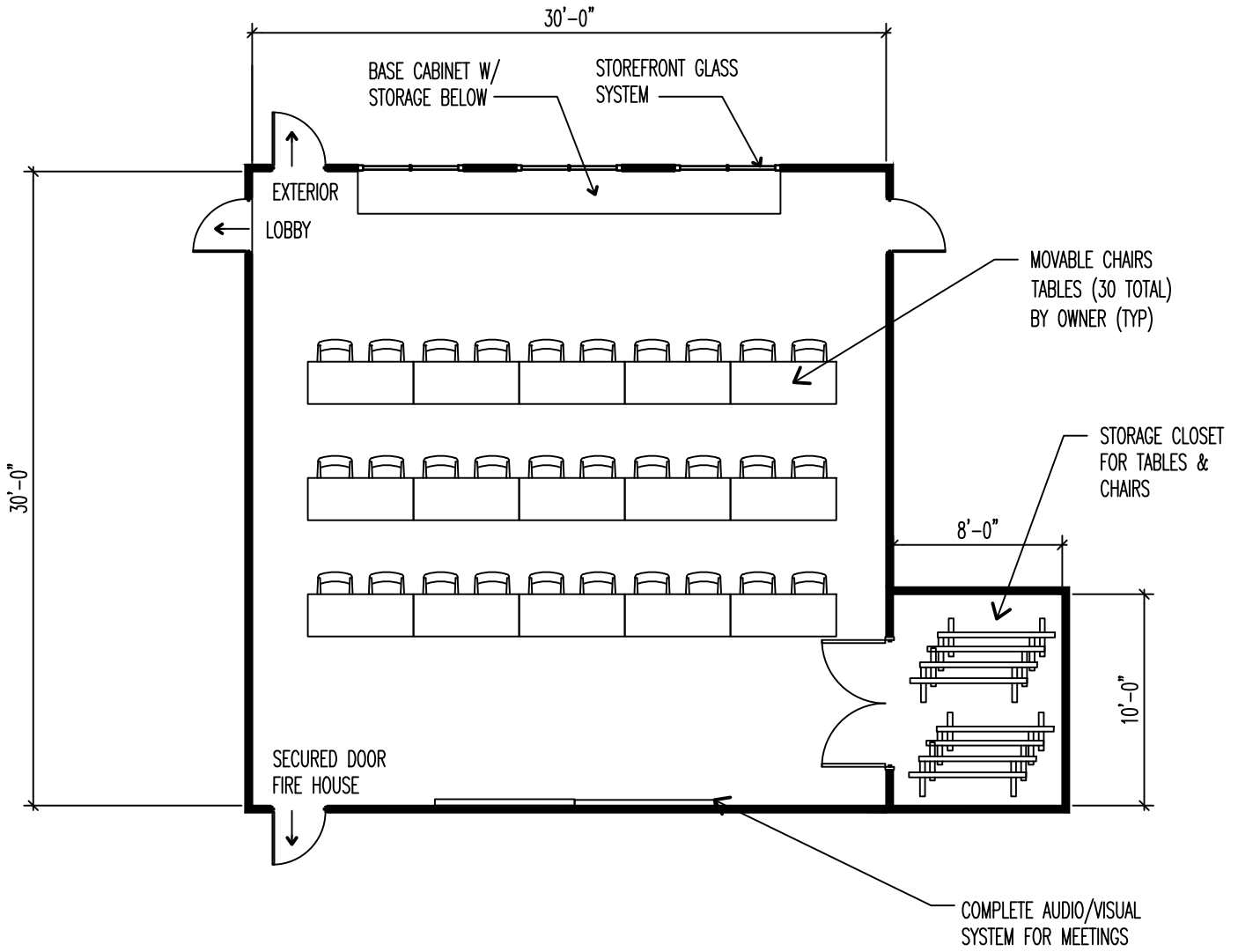
City of Coastside
Fire Station #44

EXERCISE WEIGHT ROOM

Component Diagrams

Ref. No. 4.0j

Code March 2022



TRAINING ROOM

SCALE: 1/8" = 1'-0"

324 SQ.FT.



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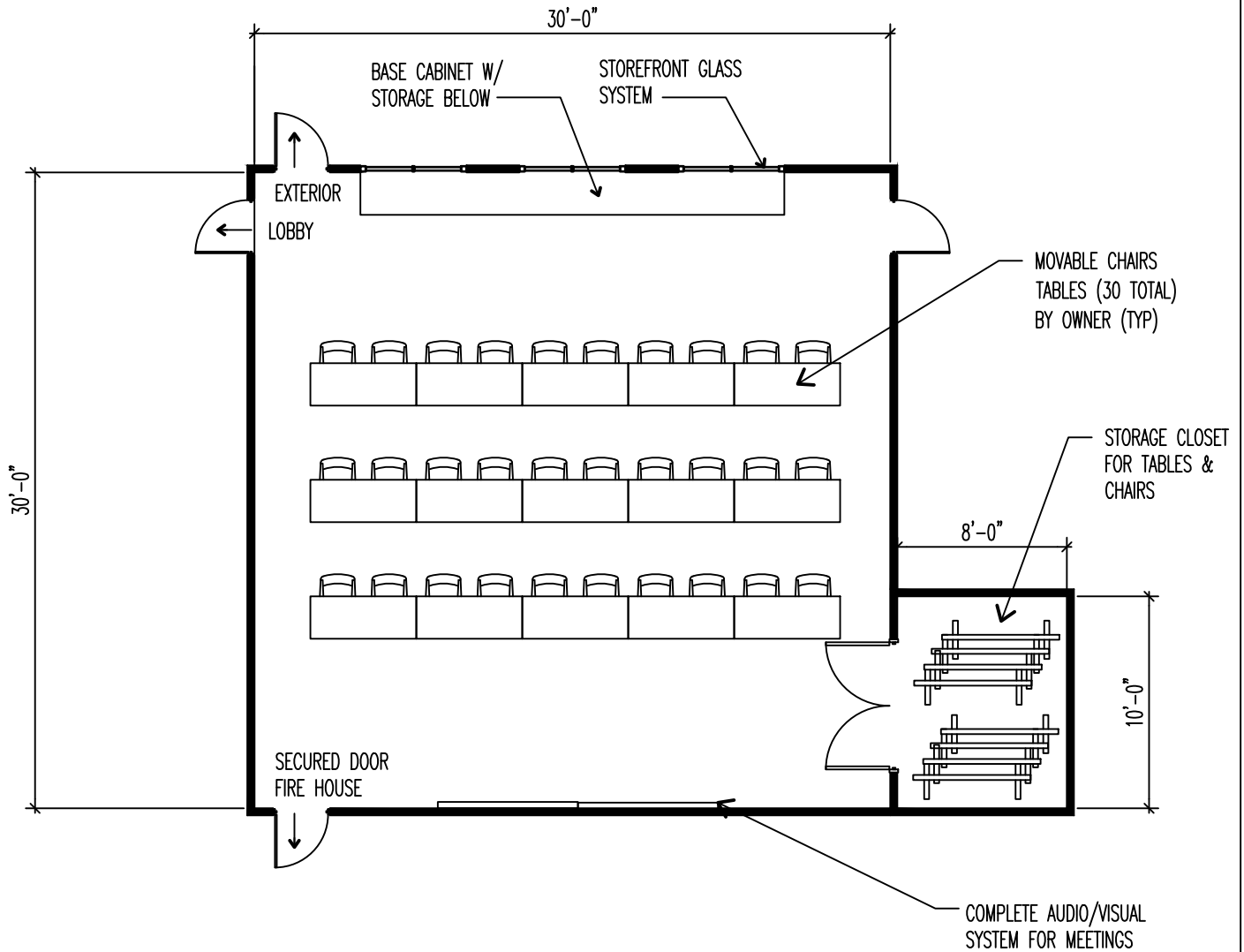
City of Coastside
Fire Station #44

TRAINING ROOM

Component Diagrams

Ref. No. 4.0K

Code March 2022



TRAINING ROOM

SCALE: 1/8" = 1'-0"

324 SQ.FT.



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City of Coastside
Fire Station #44
COMMUNITY ROOM

Component Diagrams

Ref. No. 4.0K

Code March 2022

PART III

EQUIPMENT BASIS OF DESIGN

Coastside Fire Protection District

Fire Station No. 44

Equipment Basis of Design

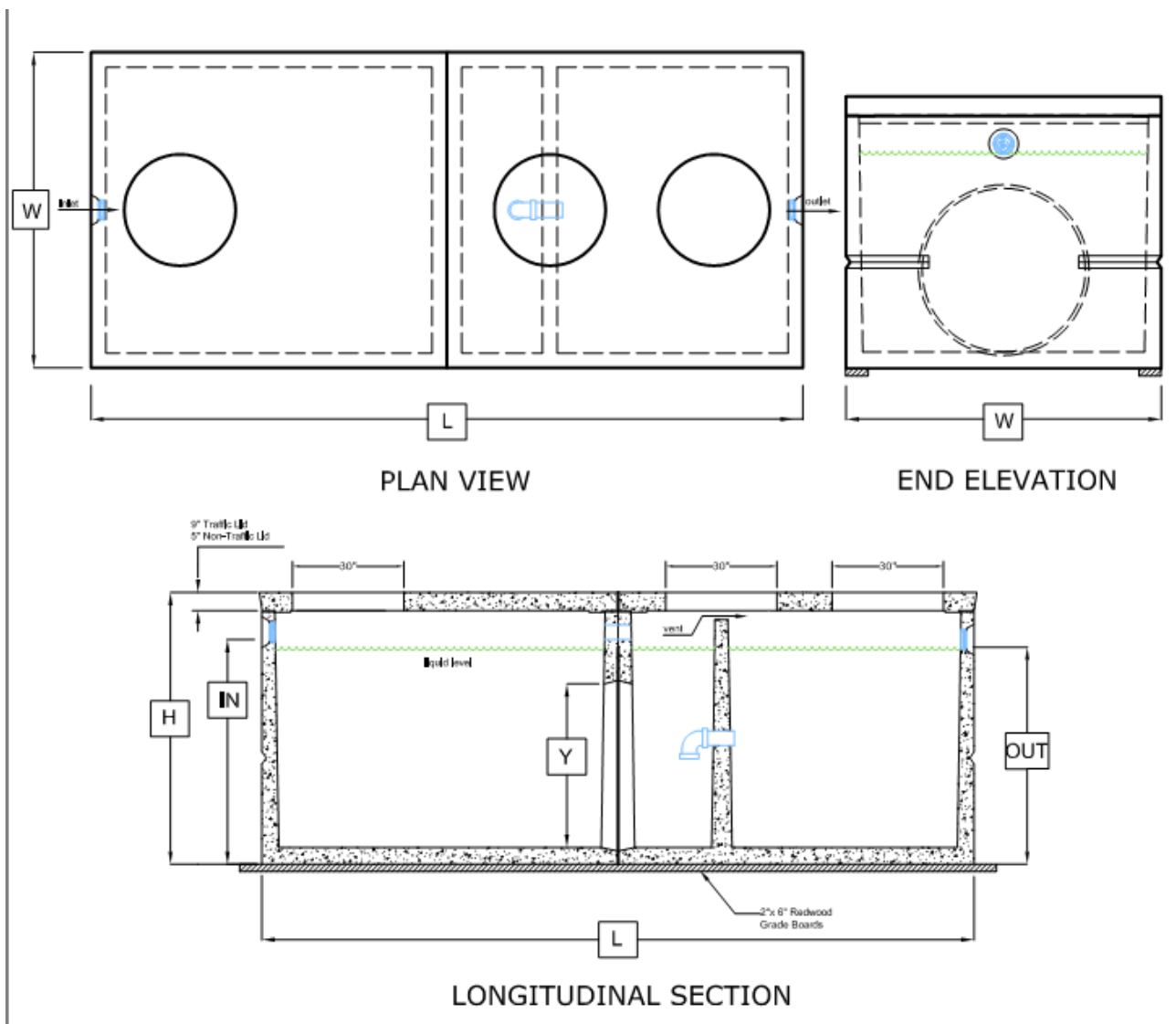
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Product: Site Clarifier

Location: Apparatus Washdown Area

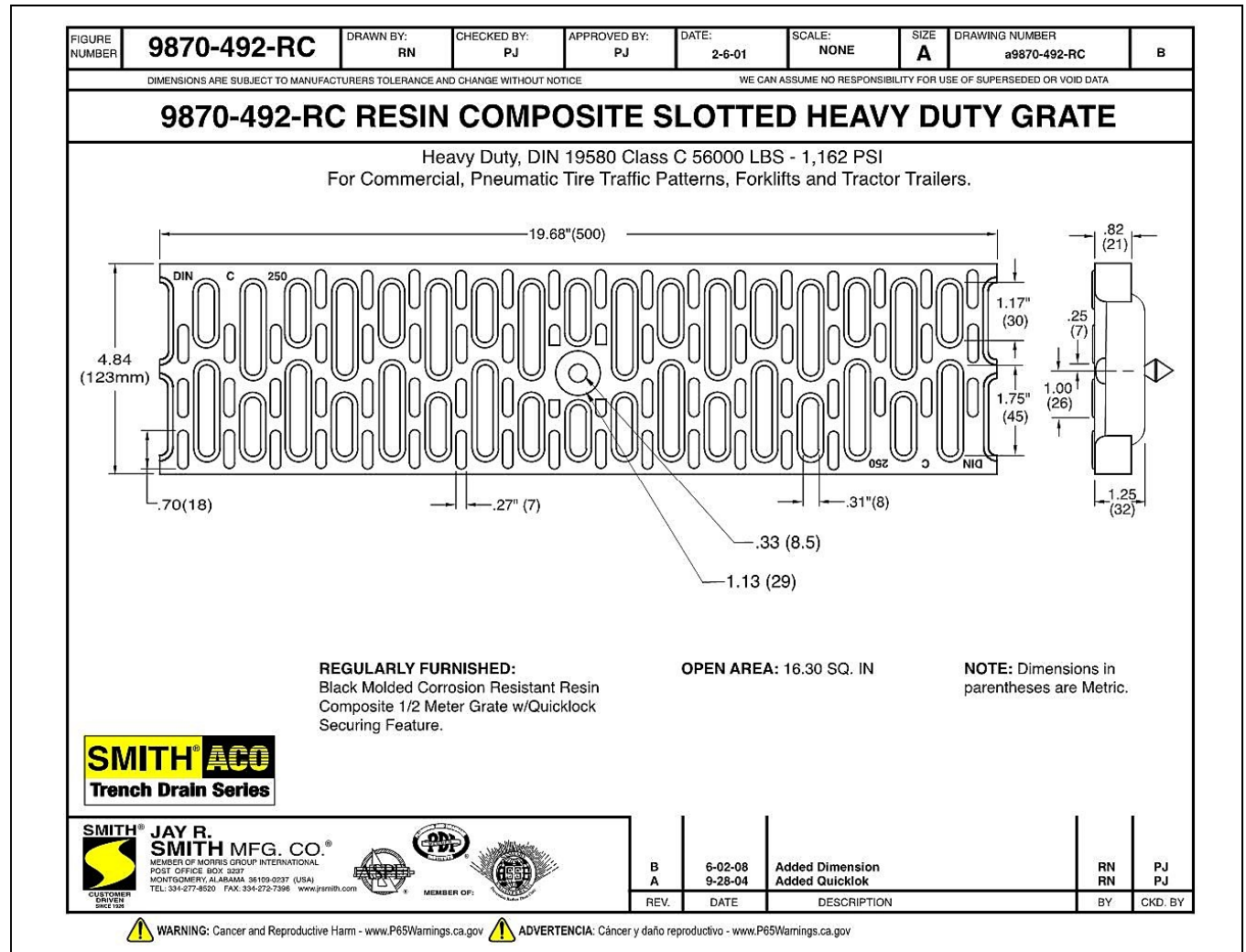
Function/Application: As required by code, all waste water around apparatus vehicles must pass through a clarifier to remove unwanted impurities before being discharged



Product: Heavy Duty Trench Drains

Location: Apparatus Building

Function/Application: Resin Composite Trench drains that are designed for Class C pneumatic tires. The resin composite will not erode or rust in time.



Product: Turn-Out Gear Lockers

Location: Turn-Out Gear Laundry

Function/Application: The storage of firefighter turn-out gear requires a locker system as depicted which allows for ample air ventilation necessary for drying. These locker systems can be wall-mounted or floor mounted. Size 24" wide x 24" deep.

Wall Mount Lockers



GearGrid is the strongest and most versatile line of storage equipment available. It allows for maximum air movement, which minimizes odor build-up and allows damp items to dry fast. The open design makes it easy to clean underneath by eliminating floor clutter.

Available in three sizes: 18", 20" and 24" openings.

Minimum of 40 Lockers

Product: Vehicle Exhaust Extraction System

Location: Apparatus Bays

Function/Application: The extraction system is designed to mount above the vehicle apparatus and does not require direct attachment. This system meets all the current codes and requirements for apparatus bay exhaust while be cost effective.

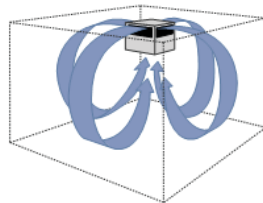


“ In my opinion, these are the best by far for safety concerns about the air in the fire hall bays. ”

– City of Chattanooga Fire Department, TN

MAXIMIZE PARTICULATE AND GAS REMOVAL FROM THE BREATHING ZONE

Only Hoseless System with a Multi-Directional Airflow Design



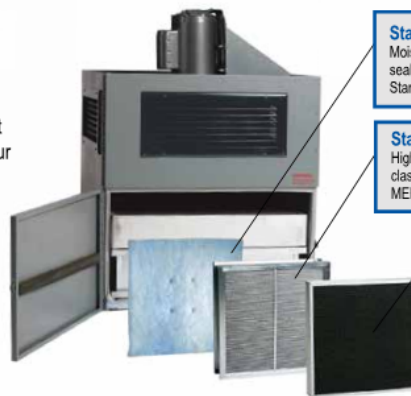
Continuously filter the air and eliminate dead spots of exhaust. The AIRVAC 911® system is built on our proprietary “Coanda Design” which allows for 360-degree vertical and horizontal air movement throughout the entire bay area. In head-to-head comparisons with unidirectional air cleaners, AIRVAC 911® cleans more air at a faster and more efficient rate.

Eliminates “Engine Exhaust Backwash” and Hot Zones

AIRVAC 911® removes engine exhaust that re-enters the station when vehicles depart and return. It also addresses the entire apparatus area and contaminant Hot Zones regardless of parking configuration, vehicle quantity and the type of vehicle.

Four-Stage Filter Pack with Virtually Zero Maintenance

The AIRVAC 911® Engine Exhaust Removal System also features four fully adjustable, clean air return vents that provide maximum airflow for high-performance protection.



Stage 1: Three-Ply Pre-Filter
Moisture-resistant, 3-ply polyester media. Self-sealing continuous link design. Class 2 filter, UL Standard 900 and CAN 4-S111.

Stage 2: HEPA MAX 3000
High-efficiency particulate air filter. UL/ULC classified; Class 2 filter ASHRAE 52.2 tested to MERV 16 (>98% efficiency).

Stage 3 and 4: MULTISORB 3000
Consists of a 50/50 blend of high performance and enhanced porosity carbons: Impregnated Activated Alumina and Coconut Shell Activated Carbon. Certified UL CLASS-1.

Equipment Basis of Design

Product: Turn-Out Gear Extractors

Location: Laundry / Turn-Out Gear

Function/Application: These units are especially designed for the cleaning and extraction of particles in firefighter turn-out gear. Capacities can vary, for this project we are proposing one (1) units, each capable of up 5 sets of gear.

ON-PREMISE LAUNDRY, HARD-MOUNT WASHER-EXTRACTORS

**THE RIGHT CAPACITIES
MAKE CONTINENTAL
THE PREFERRED
EQUIPMENT FOR
THE ON-PREMISE
LAUNDRY MARKET**

YOUR INVESTMENT IS BUILT TO LAST

Continental hard-mount washer-extractors utilize heavy-duty construction to help extend the life of the machine. The front, top and side panels are AISI-304 stainless steel to resist corrosion and enhance the life of the machine.

Continental offers large-size cylinders capable of handling the most demanding work loads. Exclusive door construction offers even, 360° sealing around the entire door and a sturdy door bar protects the machine front from outside forces such as laundry baskets or carts. The advanced drive system offers optimum wash performance and maximum energy savings while helping prolong machine life.

Continental's heavy-duty bearing housing is built to withstand the demands of multi-cycle use. Well-placed mounting holes are easily accessible and allow machines to be mounted close together to maximize floor space and minimize installation costs.



Etched-on, one-piece construction, with the shaft protected by unique flange, provides ultimate protection for the main bearing. Continental's base is manufactured from high grade stainless steel with a five-year extended warranty.



Continental's sturdy H-frame is structurally reinforced to better handle machine movement from front to back and side to side. Sturdy reinforcement allows for longer machine life.



Continental's slim light-downward chemical and electrical hook-up design enables compressing inside the ability to connect directly to automatic dispensing units which provides a way to control chemical usage within your compressed laundry operation.



L1075—74 Capacity



L1050—50 Capacity



L1040—40 Capacity








SPECIFICATIONS

CONTINENTAL ON-PREMISE LAUNDRY, HARD-MOUNT WASHER-EXTRACTORS

	Measured In	L1018	L1050	L1040	L1050	L1075	L1125
Capacity	lbs. (kg)	18 (7)	30 (12)	40 (18)	50 (21)	75 (32)	125 (55)
Cylinder Diameter	inch (mm)	20 (508)	23 (588)	27.5 (700)	27.5 (700)	35.5 (900)	42.5 (1080)
Cylinder Depth	inch (mm)	13.5 (340)	18 (450)	18.5 (470)	21.5 (545)	20 (500)	23.5 (590)
Cylinder Volume	cu. ft. (dm ³)	2.54 (72)	4.2 (119)	6.35 (180)	7.4 (210)	11.2 (318)	19.4 (550)
Unit Weight	lbs. (kg)	414 (188)	590 (254)	992 (450)	1036 (470)	1502 (680)	2734 (1240)
Net Weight	lbs. (kg)	348 (158)	492 (223)	838 (380)	839 (400)	1314 (598)	2428 (1100)
Height (H)	inch (mm)	42 (1060)	50 (1270)	57 (1440)	57 (1440)	57 (1440)	69 (1745)
Overall Depth (D)	inch (mm)	32 (820)	36 (905)	43 (1088)	46 (1163)	46 (1163)	55 (1400)
Overall Width (W)	inch (mm)	26 (660)	30 (765)	34 (868)	34 (868)	43 (1093)	56 (1422)
Floor to Door (B)	inch (mm)	14 (350)	20.5 (520)	24 (610)	24 (610)	36.5 (920)	24.4 (620)
Washing Speed	rpm	50	48	45	45	40	34
Spin Speed	Single Phase	500	480	450	450	—	—
	Three Phase	500	480	515	515	510	485
G-Force	Single Phase	75	75	79	79	—	—
	Three Phase	75	75	103	108	131	130
	Dimin Diameter (d)	inch (mm)	2 (51)	2 (51)	3 (76)	3 (76)	3 (76)
Water Inlets (A)	inch (mm)	3/4 (19)	3/4 (19)	3/4 (19)	3/4 (19)	3/4 (19)	1 (25.4)
Steam Connection (S)	inch (mm)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	3/4 (19)
Motor Power	Single Phase	0.8	1.2	1.8	1.8	—	—
	Three Phase	0.5	1.2	1.5	2.0	2.7	3.5
	Electric Heating Power (optional)	kw	5.2	7.7	—	—	—
Shipping Dimensions (W x D x H)	inch	28x35x46	31x38x55	41x45x61	41x48x61	47x49x61	60x59x77
	(mm)	(708x89x1175)	(786x97x1405)	(1041x1143x1550)	(1041x1220x1550)	(1201x1240x1550)	(1520x1498x1950)

*Product design and specifications subject to change without notice.

LIMITED PARTS WARRANTY
Continental offers a three-year limited warranty on any part of the entire machine and a five-year warranty on the main drive, cylinder, cylinder weight and cylinder shaft.

Continental Gebea, Inc.
 2600 State Road 44 • Colchester, VT 05496
 802-231-8222 • FAX 802-231-6488
 www.cont-gebea.com • 800-256-1073
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Product:

Ice Maker

Location:

Apparatus Bay Alcove

Function/Application:


This unit is a self-contained system that will provide ice for the various requirements of the firefighters. Proximity to the apparatus bays makes it quick and easy to access.

KM-501M_H
SLIM-LINE MODULAR CRESCENT CUBER

Items # 4008
Project: _____
Qty: _____
*Part/Kit available on P.O.L.

KM-501M_H
4008
Items # 13183

CUBER DIMENSIONS
W x D x H
KM-501M_H
22 x 27" x 30"



KM-501MAH
Air-Cooled
Shown on an optional B-300

KM-501MWH
Water-Cooled

KM-501MRH
Remote Air-Cooled

- Up to 498 lbs. of ice production per 24 hours
- Durable stainless steel exterior
- Individual crescent cube
- Protected by HeshiGuard Antimicrobial Agent
- CydeSave® Design
- EverCheck® alert system
- Stainless steel evaporator
- Mount two units side-by-side, in only 44" of floor space, for 996 lbs. per 24 hours
- Removable air filters (Air-cooled models only)
- KM-501MRH complies with California Energy Commission guidelines (CEC)
- R-404A Refrigerant

Also available on Large Bins:
B-300
B-500
B-700
B-800
B-900
B-1100
B-1300
B-1500

Warranty
Valid in United States, Canada, Puerto Rico, & U.S. Territories. Contact factory for warranty in other countries.
Three Year - Parts & Labor on entire machine.
Five Year - Parts & Labor on Evaporator.
Five Year - Parts on Compressor/air-cooled condenser coil.

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618 Hwy. 74 S., Peachtree City, GA 30259
TEL: 1-800-438-8087 FAX: 1-800-345-1325 www.hoshizaki.com

KM-501M_H
SLIM-LINE MODULAR CRESCENT CUBER

DIMENSIONS
W x D x H
KM-501M_H
22 x 27" x 30"

- Air-cooled
- Water-cooled
- Remote Air-cooled

AIR-COOLED			
Water Temp. F.	50°	70°	90°
Ice Prod. (lb.)	498	474	433
Air Temp. F.	80°	480	442
	90°	474	416
			372

WATER-COOLED			
Water Temp. F.	50°	70°	90°
Ice Prod. (lb.)	498	495	465
Air Temp. F.	80°	496	491
	90°	495	488
			449

AIR-COOLED REMOTE			
Water Temp. F.	50°	70°	90°
Ice Prod. (lb.)	482	475	437
Air Temp. F.	80°	476	465
	90°	475	457
			410

UTILITY CONSUMPTION				
Model Number	Ice Production Per Cycle (Lbs./Cubes)	kWh per 100 LBS. (KWH)	Water Use (Gal per 100 lbs.)	Compressor Power (Watt per 100 lbs.)
KM-501MAH	9.5	480	7.0	213
KM-501MWH	9.5	480	5.3	20.8
KM-501MRH	9.5	480	6.6	19.6


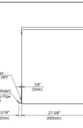
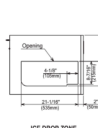
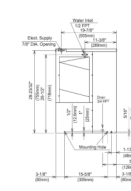
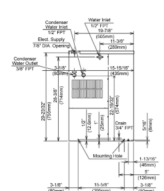
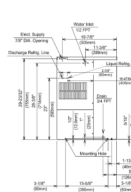
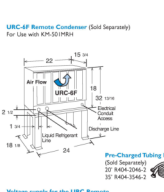
SPECIFICATIONS				
Model Number	Condenser	Amp/amp	Min. Circuit Ampacity	Shipping Weight
KM-501MAH	Air-Cooled	13.0	20	175 lbs.
KM-501MWH	Water-Cooled	10.0	20	175 lbs.
KM-501MRH	Remote Air-Cooled	15.0	20	175 lbs.

STORAGE BINS		
Model Number	Application Capacity	ARI-Rated Capacity
B-300	300 lbs.	260 lbs.
B-500	500 lbs.	360 lbs.
B-700	700 lbs.	550 lbs.
B-800	800 lbs.	600 lbs.
B-900	900 lbs.	660 lbs.
B-1100	1150 lbs.	N/A
B-1300	1275 lbs.	N/A
B-1500	1490 lbs.	N/A
B-1650	1605 lbs.	N/A

ELECTRICAL & PLUMBING/KM-501M_H
 • 115V/60Hz
 • 20-Amp Max Fuses/MACR Breaker Size
 • 1/2" FPT water inlet
 • 3/4" FPT water drain

OPERATING LIMITS
 • Ambient Temp Range 45 - 100°F
 • Water Temp Range 45 - 90°F
 • Water Pressure 10 - 113 psig
 • Voltage Range 104 - 127V

SERVICE
 • Panels easily removed and all components accessible for service.
 • Removable/replaceable air filters (Air-cooled models only)

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TEL: 1-800-438-8087 FAX: 1-800-345-1325 www.hoshizaki.com Printed in U.S.A.

Product: Hose Storage Racks

Location: Apparatus Bay Alcove

Function/Application: These units are especially designed for the storage of synthetic fire hoses. The portable racks allow them to be rolled out when loading and returned back for storage.



Product: Hose Drying Cabinet

Location: Turnout Gear / Laundry Room

Function/Application: To rapidly dry the turnout gear, a electric gear drying cabinet will be used which dries up to three (3) sets of gear in approximately 45 minutes..

PPE & HOSE DRYER

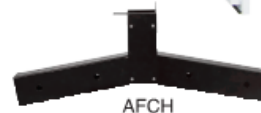


Simple controls & factory preset temperatures ensure proper drying temperature for each unique clothing or turnout item.

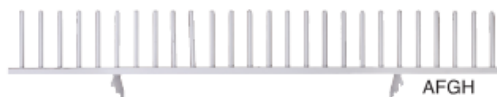
- Comes complete with:
 - (4) PPE hangers (AFCH)
 - (2) boot hangers (AFBH)
 - (1) glove rack that holds 13 glove sets (AFGH)
- Custom built for firefighter turnout / PPE and hose
- Made from heavy-duty steel with a white powder coat finish
- Electric: 208V-240V 60 Hz single-phase 40 amp breaker
- Interior capacity: 63 cubic ft.
- Additional accessories available including our (MHD-42)
- Complete with manual /manufacturer's warranty
- **Follows NFPA-1851 guidelines**
- * Surcharge for Canadian customers will apply



ITEM #:	SIZE:
PPEHD: PPE & Hose Dryer	55" x 31" x 80"
AFCH: Air Flow Coat Hanger	7.5" x 3.125" x 58"
AFBH: Air Flow Boot Hanger	22.25" x 3.125" x 8.625"
AFGH: Air Flow Glove Hanger	52" x 3.75" x 10"



AFCH



AFGH



AFBH

Product:	<u>Concrete Floor Sealer</u>
Location:	Exposed Concrete Surfaces
Function/Application:	All exposed concrete surfaces will be sealed with a clear sealer that prevents the migration of moisture into the concrete.



NO. 368-C

CSI Code: 03 05 00

DECEMBER 2008
(Supersedes July 2004)**VOCOMP®-30**

Water-Based, Acrylic, Concrete Curing and Sealing Compound

DESCRIPTION

VOCOMP-30 is a ready-to-use, 30% solids concrete curing and sealing compound formulated of special acrylic polymers in a true water-based carrier. VOCOMP-30 provides improved resistance to rain, sun, freezing temperatures, most acids and industrial chemicals, petroleum, deicing salts, cleaning agents (except aromatic solvents), diluted caustics, and other pollutants.

Color-wise, VOCOMP-30 appears milky white in the container and, when first applied, leaves a bluish cast on the concrete for easy visual coverage. VOCOMP-30 dries clear to provide a transparent sheen finish. This sheen can be controlled by the number of coats applied.

USES

VOCOMP-30 may be used wherever a thicker film, with a medium-to-high sheen, is desired to bring out the natural beauty of concrete without discoloring, checking, or peeling. When properly applied, VOCOMP-30 provides a premium-grade seal for superior moisture protection. It may be applied to simultaneously cure, seal, and dustproof new, old, interior, exterior, horizontal, and vertical concrete surfaces. VOCOMP-30 is ideal for curing, sealing, and dustproofing driveways, sidewalks, patios, swimming pool areas, and commercial and industrial floors. Horizontal surfaces protected with VOCOMP-30 offer excellent wearing qualities for foot and vehicular traffic. If, after prolonged usage, traffic patterns appear, the surface can be washed clean and recoated to restore the original beauty. Good concrete and good concreting practices should be used, as VOCOMP-30 is not a cure-all for improperly mixed or placed concrete.

SPECIFICATIONS

- AASHTO M 148, Type I, Class B
- ASTM C 309, Type I, Class B
- ASTM C 1315, Type I, Class A
- Complies with all current federal, state, and local maximum allowable VOC requirements, including U.S. EPA, SCAQMD, and OTC.
- Dried film is USDA accepted.

FEATURES/BENEFITS

- Provides a ready-to-use, non-yellowing, water-based compound that seals and protects concrete in one quick and easy application.
- Dries quickly on new concrete to provide a clear, tough, easy-to-clean sheen finish.
- Applicable for use on new, old, interior, exterior, horizontal, and vertical concrete surfaces.
- Offers improved resistance to most chemicals, petroleum, abrasives, and mortar droppings.
- Application tools can be cleaned with soap and water.
- VOC compliant

PACKAGING

1 Gallon (3.79 Liter) Units (4 per case)
5 Gallon (18.93 Liter) Pails
55 Gallon (208.20 Liter) Drums

COVERAGE

Broomed Surface: Approximately 300 ft.²/gal.
(7.35 m²/L).
Troweled Surface: Approximately 500 ft.²/gal.
(12.26 m²/L).

LEED INFORMATION

May help contribute to LEED credits:

- EQ Credit 4.2: Low-Emitting Materials: Paints & Coatings
- MR Credit 5.1: Regional Materials: 10% Extracted, Processed & Manufactured Regionally
- MR Credit 5.2: Regional Materials: 20% Extracted, Processed & Manufactured Regionally



CONTINUED ON REVERSE SIDE...

Product: Flammable Liquids Storage Cabinet

Location: Tool Room

Function/Application: Hazardous and Flammable liquids shall be stored within an approved cabinet as required by code.



Ninety minutes of fire protection provides high level of safety when point-of-use storage is required.

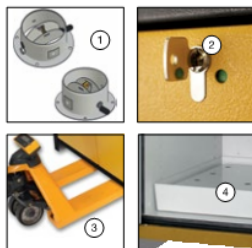
90-Minute EN Safety Storage Cabinets NEW
Extreme fire resistance for high risk environments—store flammables with 90-minutes of protection

- EN, OSHA and NFPA compliant—Independently fire tested and approved by FM Approvals and MPA Dresden.
- Hybrid-close door action—manual close doors stop in any position, but self close in the event of a fire to protect contents.
- Security—Independent cylinder locks on each door includes locking state indicator (red/green).

Constructed using multiple layers of fire-resistant gypsum and mineral fiber insulation, cabinet body has a rugged powder coated steel exterior that provides excellent corrosion resistance. Under fire conditions, intumescent strips expand and hermetically seal all gaps to reduce heat entering the cabinet, providing 90-minutes of content protection and extended evacuation time. Hybrid style doors open or close manually and include a damper that adjusts the force needed to move the doors. In the event of a fire, the built-in fusible link system releases to allow automatic closure of doors at 122°F (50°C). Cabinets are EN compliant, FM-approved and meet NFPA 30, NFPA 1, and OSHA standards.

Powder-coat finish steel shelves adjust on 1-1/4-inch (32-mm) increments and have a load capacity of 165-lbs (75-kgs). Shelves with 1-inch (30-mm) high ledge prevent small containers from easily sliding off. Removable bottom sump with detachable perforated insert features a 3-sided lip seal to ensure leaks or spills from shelves are captured at the bottom of the 3-in (76-mm) sump, keeping containers stored in the sump clean and dry.

Haz-Alert™ reflective tri-lingual warning labels are highly visible under fire conditions or during power outages when illuminated with a flashlight. Cabinets also feature adjustable leveling feet, an integrated transport base for easy repositioning (base cover optional), and mandatory air vents per EN 14470-1. Vent butterfly valve closes securely at 158°F (70°C) in the event of a fire. Vents include flame arresters and caps for FM compliance.



1. Two top vents with butterfly valve close automatically at 158 °F (70°C) under fire conditions. Sidewalls inside the cabinet feature upper and lower black air grids with integrated ducts that connect to top vents.
2. Independent cylinder locks on each door includes locking state indicator (red/green).
3. Integrated transport base accepts pallet jack for easy repositioning of empty cabinets. Accepts optional, removable base cover.
4. Removable sump with separate detachable perforated insert allows spills to flow into sump for easy cleaning, and keeps containers elevated to stay clean and dry. Bright interior provides maximum visibility in low light conditions to quickly identify contents.




Fire Rating (Minutes)	Capacity Gallons/Liters (5 Gallon Can)	Maximum Capacity* (1 Liter Bottle)	Number of Doors and Style	Dimensions H x W x D		Adjustable Shelves	Approv/Lstg Regulation	Model No	Ship Wt lb/kg
				Exterior	Interior				
90	30/114	168	2 door, hybrid-close	76.89 x 35.16 x 24.21 in 1953 x 893 x 615 mm	64.85 x 29.5 x 20.55 in 1647 x 750 x 522 mm	3	FM,EN,N.O.A	22605	840/381
	45/170	264		76.89 x 46.97 x 24.21 in 1953 x 1193 x 615 mm	64.85 x 41.34 x 20.55 in 1647 x 1050 x 522 mm			22607	1016/461

Product: Exercise Room Flooring

Location: Gym

Function/Application: The Flooring system within the exercise gym needs to be forgiving of abuse from typical exercising and weightlifting, and be easily cleanable after use. The floor system proposed is resistant to spills and abuse. It also has an integral cushion.



Product Options

Size:
Available as a standard in rolls and interlocking tiles. Custom options available. All custom options should be discussed with your local agent to determine availability, pricing, minimums and lead times.

Color Options:
- See website for colors.

48" (1.23m) x 28 (0.71m) Area/roll
Thickness: 15.2mm (3/8" + 1/8") + 48" (1.23m) x 28 Area/roll
3.2mm wear layer, 12mm rubber backing

24" (609mm) x 24" (609mm)
Thickness: 15.2mm x 24" (609mm) x 24" (609mm)
3.2mm wear layer, 12mm rubber backing

ecorecommercial.com • 877.358.0843

ecore | Built by Yes.

Product Sales Sheet
ECOfit Plus



ECOfit Plus features a 3.2mm composition rubber surface fusion bonded to a 12mm composition rubber backing that results in dynamic energy return that forces the user to stay off their heels and on the balls of their feet. ECOfit Plus is available in both glue down rolls and adhesive-free interlocking tiles.

Markets	Applications	Benefits
<ul style="list-style-type: none"> - Fitness 	<ul style="list-style-type: none"> - Group Fitness - Light Weights - Cards 	<ul style="list-style-type: none"> - Fade resistant finishes - Slip resistant wet/dry - ECOguard coated

ecorecommercial.com • 877.358.0843

ecore | Commercial

Product: Terrazzo Shower Base

Location: Dorm Showers

Function/Application: The showers within the fire station are subject to high abuse. For durability we are proposing precast terrazzo shower base units which are a durable and cost effective alternative to standard ceramic tile pans.

FIAT PRODUCTS

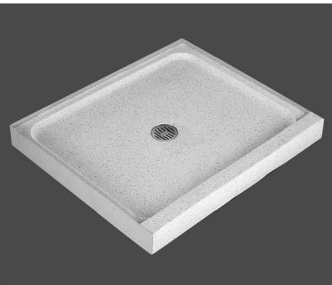
**TERRAZZO SHOWER FLOOR
MONTEREY - MFTR SERIES**

- Monterey shower floors are designed for installations where tile walls and glass enclosures are used.
- Precast terrazzo one piece products are made of black and white marble chips cast in white portland cement to produce a compressive strength of not less than 3000 P.S.I., seven days after casting.
- The terrazzo surface is ground and polished with all air holes and/or pits grouted and the excess removed. Shower floors are available in custom sizes.
- Flange, cast integral, shall be of galvanized-bonderized steel and shall extend not less than 1" (25mm) high and not less than 1 1/4" (32mm) wide.
- The drain body in shower floors are made of stainless steel cast integrally and provide for a caulked lead connection not less than 1" (25mm) deep to a 2" (51mm) pipe. Removable type stainless steel strainer plate.

Installations:

- Establish 1/4" (6mm) clearance between shower floor and building wall. It is required that the entire area between the shower floor and the building floor has a 1/2" (13mm) layer of mortar in order that the shower floor is level.
- Optional stainless steel tiling flanges available.

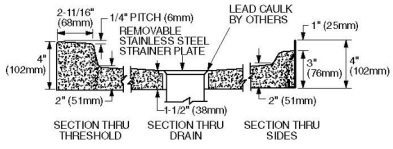
**TERRAZZO SHOWER FLOOR
MONTEREY — MFTR SERIES
RECTANGLE**



SEE REVERSE FOR ROUGHING-IN DIMENSIONS

NOTES:
Establish 1/4" clearance between shower floor and wall. It is required that the entire area between the receptor and the building floor have a 1/2" layer of mortar in order that shower floors be level.
It is recommended that a floor drain be installed at or near the entrance of the shower.
All models comply with Americans With Disabilities Act and A117.1 handicapped standards.

IMPORTANT: Rough-in dimensions may vary 1/2" and are subject to change or cancellation without prior notice.



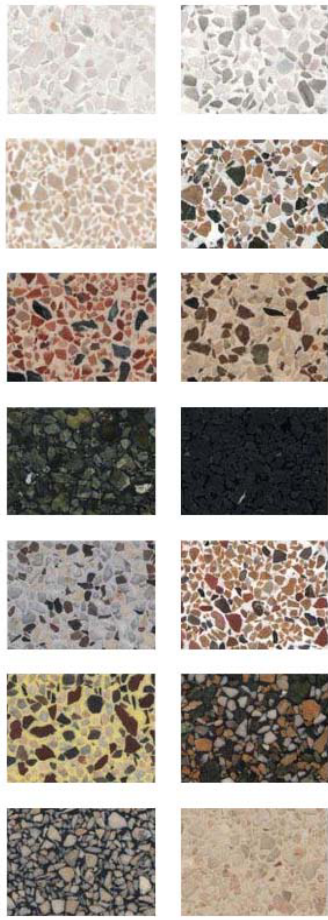
NOTE: Drawing not to scale.

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 QUALITY FOR LIFE
 Customer Service United States
 1-800-442-1902
 www.fiatproducts.com

Standard Colors



Product: High Impact Gypsum Board

Location: Various Areas

Function/Application: As an alternative to concrete masonry, we are proposing the use of high-impact gypsum board which resists the damage in areas prone to high abuse and impacts. The finish would be a semi-gloss paint which can easily be cleaned.

Technical Data Sheet		Fiberock® Tile Backerboard and Interior Panels				
		Aqua-Tough™				
Application		High-abuse areas	Corridors, stairwells, classrooms, basements and garages			
		Moisture- and mold-prone areas	Bathrooms, tub & shower surrounds, hallways, basements and garages			
		Projects seeking sustainable materials	95% recycled content			
		Construction requiring superior fire resistance	Panels feature exceptional surface burning characteristics: 5/8" panels are UL Classified for fire resistance (FRX-G)			
Product Information	Panel	Thickness	Weight	Edge	Width	Standard Length
	Fiberock® Brand Aqua-Tough™ Tile Backerboard	1/2"	2292 lb/msf 2.3 lb/sf	Square	3', 4'	4', 5', 8'
	Fiberock® Brand Aqua-Tough™ Interior Panel	1/2"	2292 lb/msf 2.3 lb/sf	Tapered	4'	8', 9', 10', 12' *
	Fiberock® Brand Aqua-Tough™ Interior Panel	5/8"	2885 lb/msf 2.8 lb/sf	Tapered	4'	8', 9', 10', 12' *
Acceptable Finishes	Ceramic Tile	Natural Stone				
	Paint	Wallpaper				
Properties	Performance Attributes	Test Method	1/2" Thickness	5/8" Thickness		
	Abuse Resistance	Indentation	ASTM D4977	—	0.97 in.	
		Hard-Body Impact	USG Test	—	85 ft./lbs.	
		Soft-Body Impact	ASTM E895	—	180 ft./lbs.	
		Compressive Strength	ASTM D2384	500 psi	500 psi	
		Shear-Bond Strength – 7 Day Cure	ANSI A108	> 50 psi	> 50 psi	
		Flexural Strength	ASTM C473	120 (minimum) lbf	161 (minimum) lbf	
		MOR (Modulus of Rupture)	ASTM D1037	840 psi	720 psi	
		MOE (Modulus of Elasticity)	ASTM D1037	500,000 psi	500,000 psi	
		Nail-Head Pull-Through Resistance	ASTM C473	120 (minimum) lbf	145 (minimum) lbf	
		Edge Hardness	ASTM C473	40 lbf	40 lbf	
	Moisture Resistance	Water Absorption	ASTM C473	6%	6%	
		Surface Water Absorption (Cobb)	ASTM C473	1.6 grams	1.6 grams	
		Film Rating (Moisture Vapor Permeance)	ASTM E96	26 perms	24 perms	
		Moisture Content	—	0.5 – 2.0%	0.5 – 2.0%	
		Linear Variation with Moisture Change	ASTM D1037	0.3%	0.3%	
		Humidified Deflection (Max)	ASTM C473	3/8 in.	1/4 in.	
		Coefficient of Thermal Expansion	ASTM E831	9.0x10 ⁻⁶ in./in./°F	9.0x10 ⁻⁶ in./in./°F	
		Mold Resistance	ASTM D3273	10	10	
	Fire Resistance	Flame Spread	ASTM E84	0	0	
		Smoke Development	ASTM E84	5	5	
Thermal "R" Value		ASTM C518	0.5 hr.ft. ² /°F.Btu	0.6 hr.ft. ² /°F.Btu		
Hygrometric Coefficients of Expansion		—	in./in./RH	—		



Product:

Double Oven Range Unit

Location:

Kitchen / Dining

Function/Application:

The oven/range unit shall be from a residential series which eliminates the necessity for expensive roof duct systems required for commercial units.



60" Gas Ranges

Wolf has perfected the form, function and sheer durability of our gas ranges. Wolf gas ranges offer standard features such as an infrared oven broiler, convection baking, dual brass surface burners and our signature large red control knobs. Optional infrared charbroiler, infrared griddle and French Top give you the freedom to customize your gas range.



Model R60EG shown with 6" rise. Also shown is Model R60DF and Model R60CG.





Features

- Natural or LP gas models
- Classic stainless steel exterior finish
- Optional infrared charbroiler, infrared griddle and French Top configurations
- Distinctive red control knobs with chrome bezels—black knobs optional
- Dual brass burners with automatic regulation at all settings
- Porcelain-coated cast iron top grates
- Large-capacity convection oven with infrared broiler and three adjustable oven racks
- 90" oven with two adjustable racks
- Spring/damper door hinge system
- Stainless steel dilly tray
- Adjustable stainless steel legs in front and rear casters
- Full side panels and skirt

Surface Features

Model	R60EG	R60DF	R60CG
Surface Burners—16,000 Btu/hr with 600 Btu/hr delivered at simmer	6	6	6
Infrared Charbroiler—16,000 Btu/hr			■
Infrared Griddle—16,000 Btu/hr			■
Double Griddle—18,000 Btu/hr	■		
French Top—15,000 Btu/hr			■

Model numbers are for natural gas ranges; add (L) to the model number for LP gas.

Accessories

- Classic stainless steel riser in 6" and 10" heights, or 20" riser with shelf
- Classic stainless steel island trim
- Black control knobs
- Porcelain-coated, cast iron wok grate
- Porcelain-coated, cast iron two-burner S-grate
- Oven rack
- Hardwood cutting board (griddle models only)
- High altitude conversion kit


Accessories are available through your Wolf dealer. To obtain dealer contact information, visit the Showroom Locator section of our website, wolfappliance.com.

Installation Notes

- A riser is required for installations against a combustible surface.
- A Wolf Pro wall, chimney, island ventless hood or hood liner is recommended.
- Natural gas and LP gas installations above 8,000' require the high altitude kit.

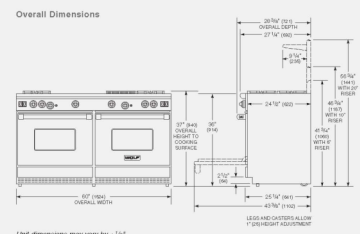



Infrared Charbroiler French Top






60" Gas Ranges

Overall Dimensions



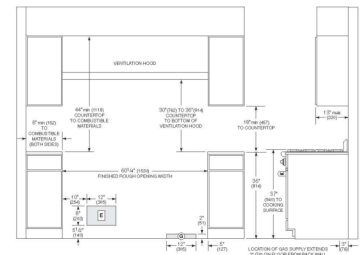
Unit dimensions may vary by 1/8".

Specifications

Exterior Finish	Classic Stainless Steel
Overall Width	60"
Overall Height (to cooking surface)	37"
Overall Depth	28 1/2"
Oven Interior Capacity (per oven)	4.4 cu ft
Oven Interior Dimensions (per oven)	24" W x 18 1/2" H x 17" D
Opening Width	60 1/2"
Opening Height (to countertop)	36"
Opening Depth	24"
Electrical Requirements	110/120 V AC 50/60 Hz, 15 amp circuit
Shipping Weight	875-950 lbs

Installation Specifications



SEE INSTALLATION KIT FOR MINIMUM CLEARANCE FROM COMBUSTIBLE SURFACES. SEE CODES FOR VENTING REQUIREMENTS. SEE INSTALLATION KIT FOR VENTING REQUIREMENTS.

Installation Notes

- A riser is required for installations against a combustible surface.
- A Wolf Pro wall, chimney, island ventless hood or hood liner is recommended.
- Natural gas and LP gas installations above 8,000' require the high altitude kit.

Dimensions in parentheses are in millimeters unless otherwise specified.

Product: **Suspended Cable Tray System**

Location: **IDF/Communication Room**

Function/Application: For cable management within the Communications Room, the provision of overhead cable tray allows for the distribution of radio/tele/data/radio wiring to fixed data rack.

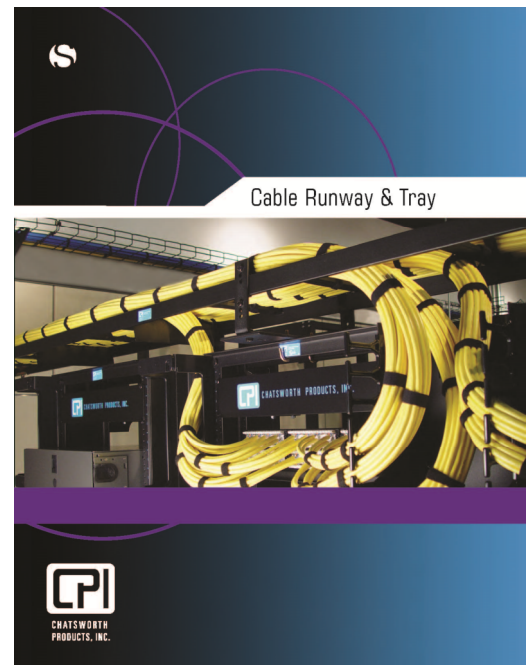
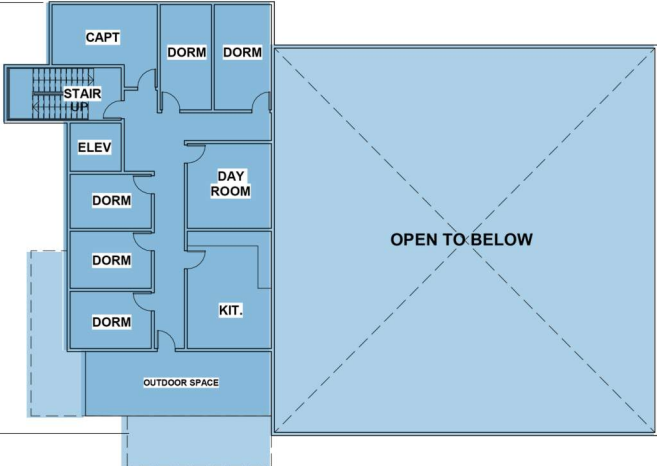
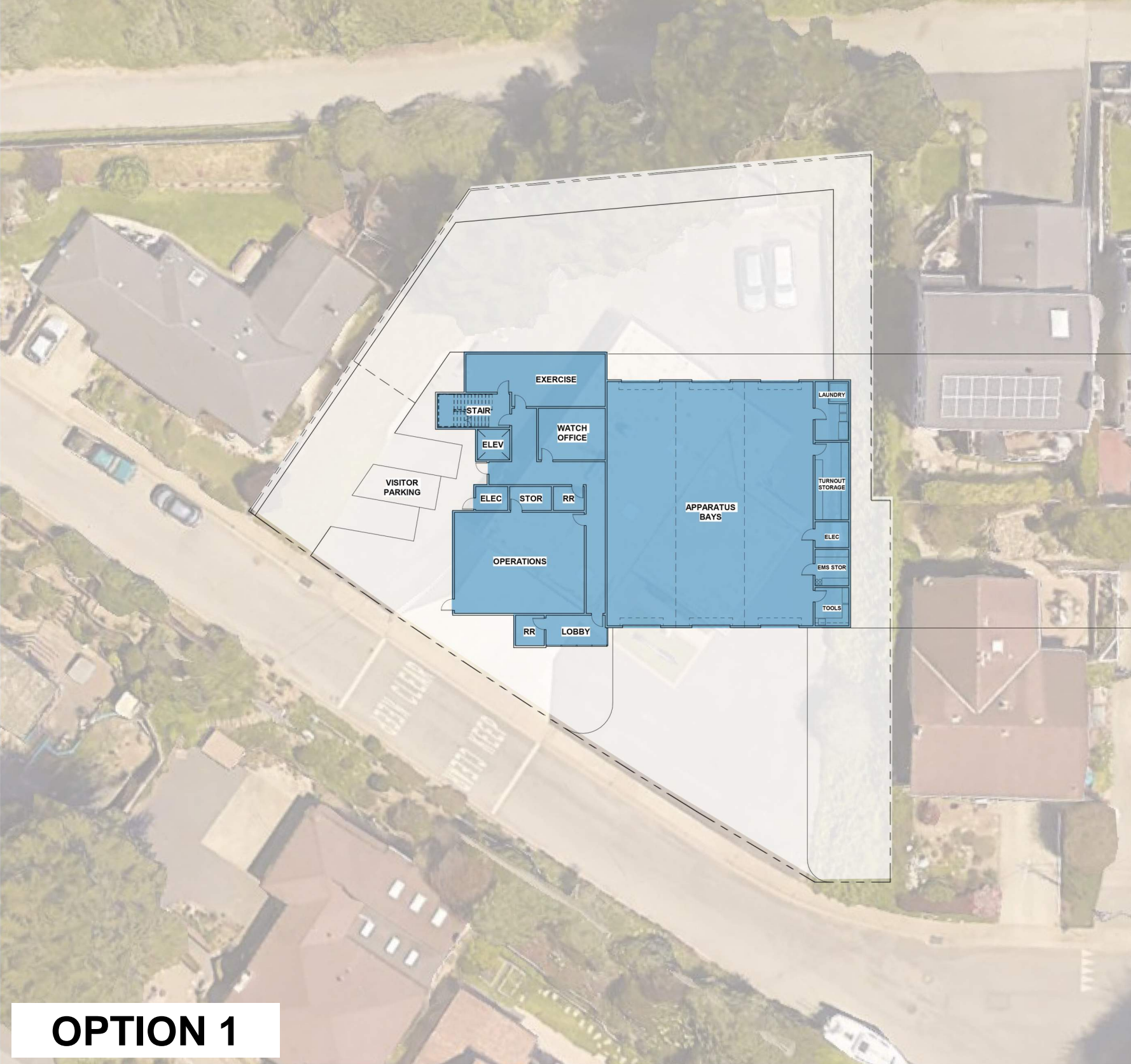


EXHIBIT 2

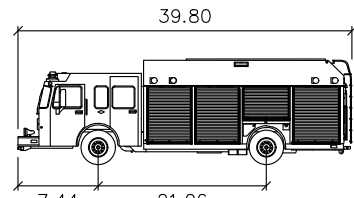
Coastside Fire Protection District FIRE STATION 44 FEASIBILITY STUDIES



SECOND FLOOR

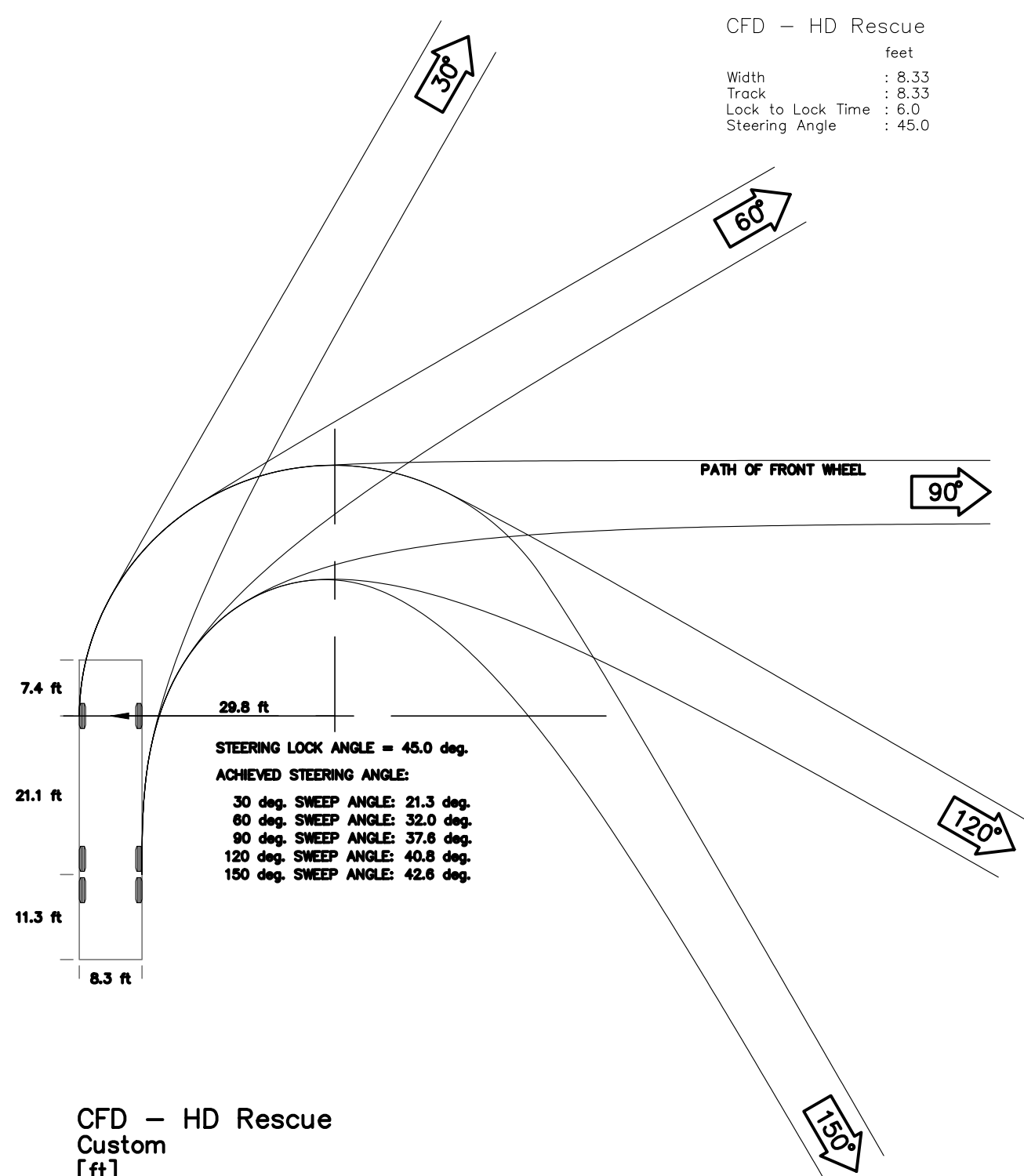
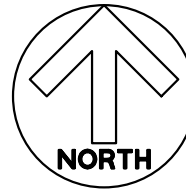
OPTION 1

NOTE: FIRE TRUCK IMAGES DEPICTED HERE MAY NOT BE AN ACCURATE REPRESENTATION OF THE ACTUAL FIRE TRUCK.

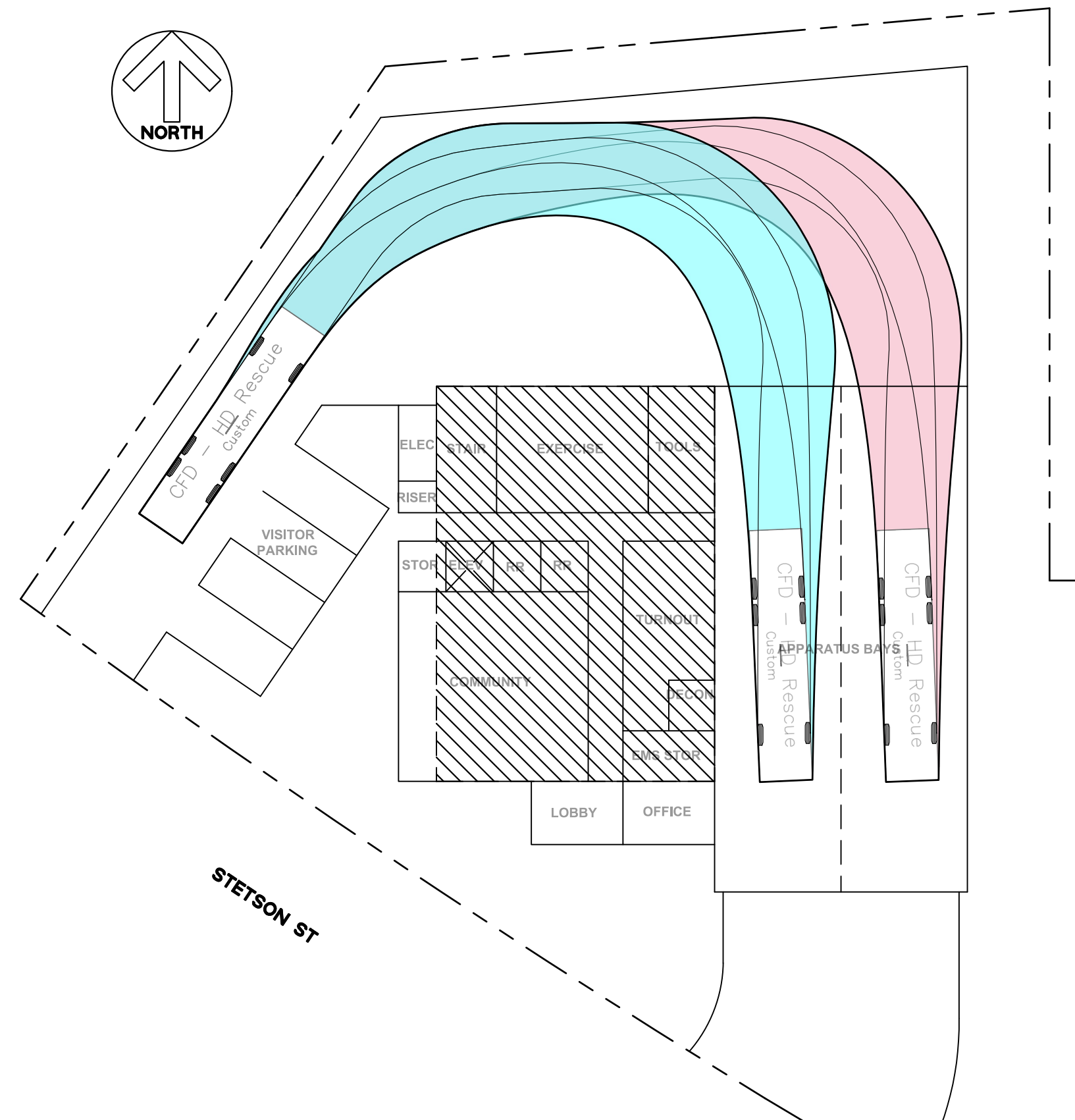


CFD - HD Rescue

feet
 Width : 8.33
 Track : 8.33
 Lock to Lock Time : 6.0
 Steering Angle : 45.0



STEERING LOCK ANGLE = 45.0 deg.
 ACHIEVED STEERING ANGLE:
 30 deg. SWEEP ANGLE: 21.3 deg.
 60 deg. SWEEP ANGLE: 32.0 deg.
 90 deg. SWEEP ANGLE: 37.6 deg.
 120 deg. SWEEP ANGLE: 40.8 deg.
 150 deg. SWEEP ANGLE: 42.6 deg.

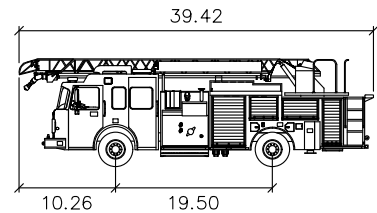


CFD - HD Rescue
 Custom
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 0ft 10ft 20ft

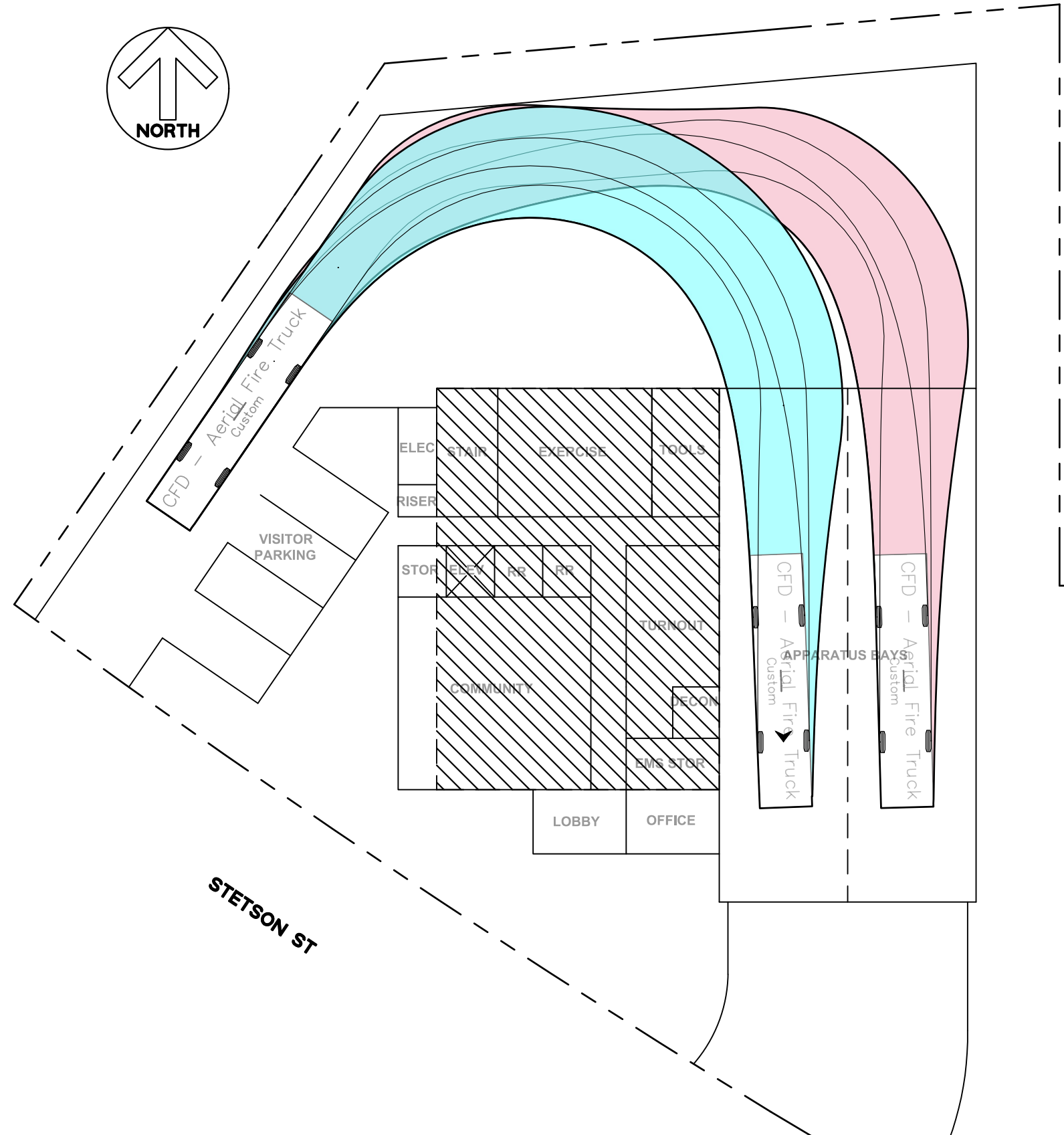
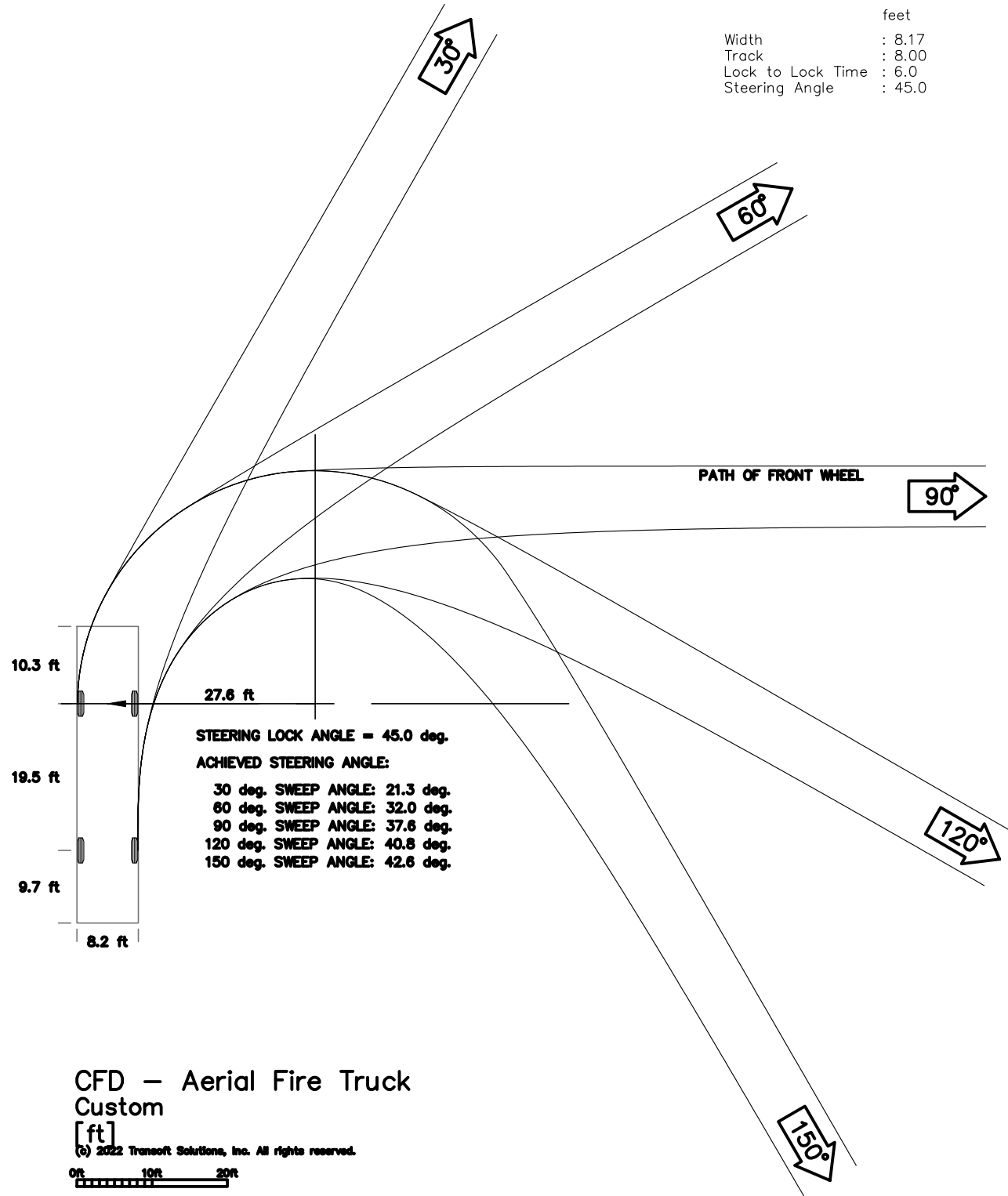
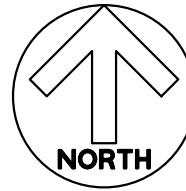
COASTSIDE FIRE DISTRICT #44 - FIRE TRUCK TURN EXHIBIT SITE OPTION 2
 HEAVY DUTY RESCUE TRUCK



NOTE: FIRE TRUCK IMAGES DEPICTED HERE MAY NOT BE AN ACCURATE REPRESENTATION OF THE ACTUAL FIRE TRUCK.



CFD - Aerial Fire Truck
 feet
 Width : 8.17
 Track : 8.00
 Lock to Lock Time : 6.0
 Steering Angle : 45.0



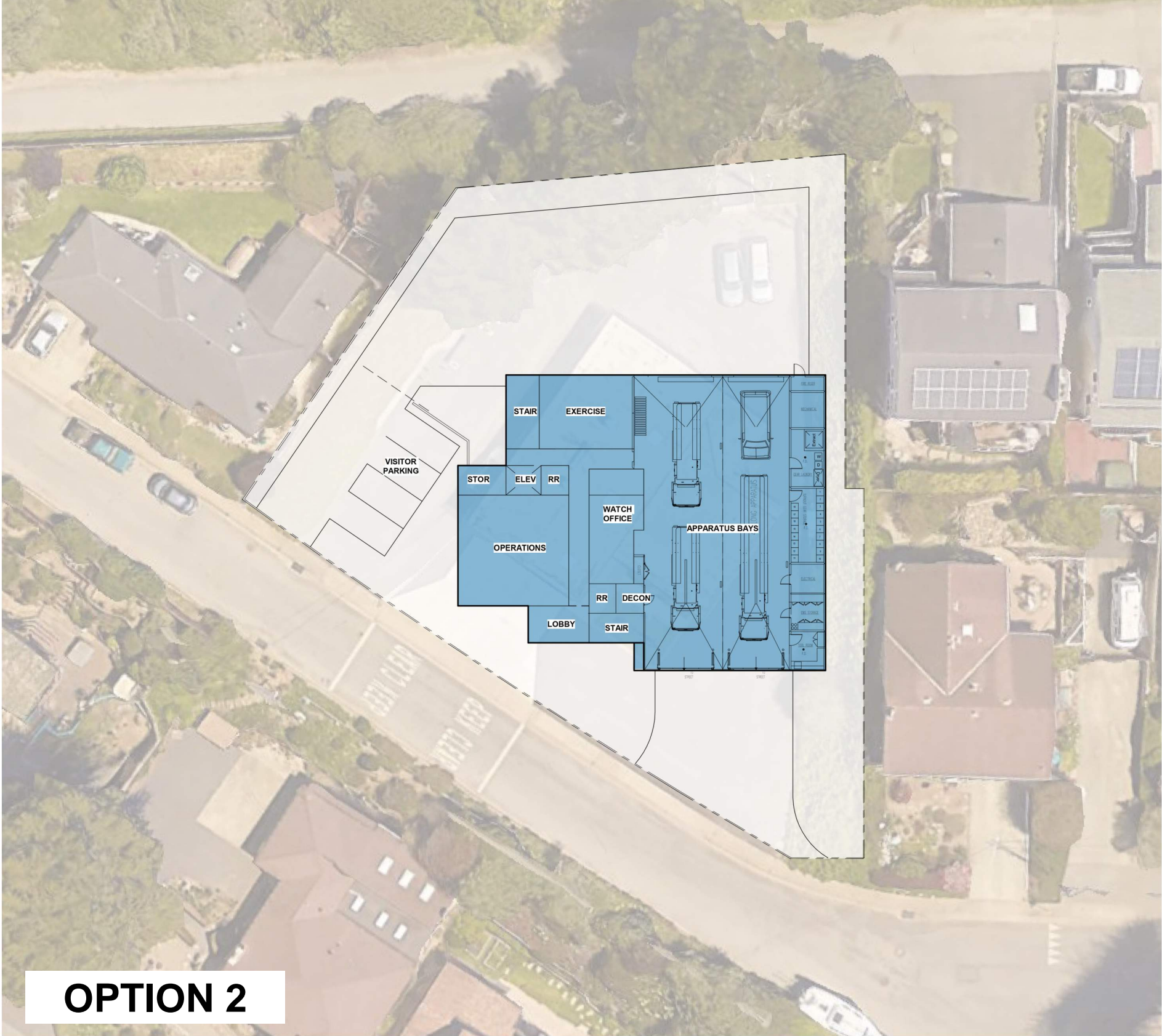
CFD - Aerial Fire Truck
 Custom
 [ft]
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 0ft 10ft 20ft

COASTSIDE FIRE DISTRICT #44 - FIRE TRUCK TURN EXHIBIT SITE OPTION 2
 AERIAL FIRE TRUCK



Coastside Fire Protection District

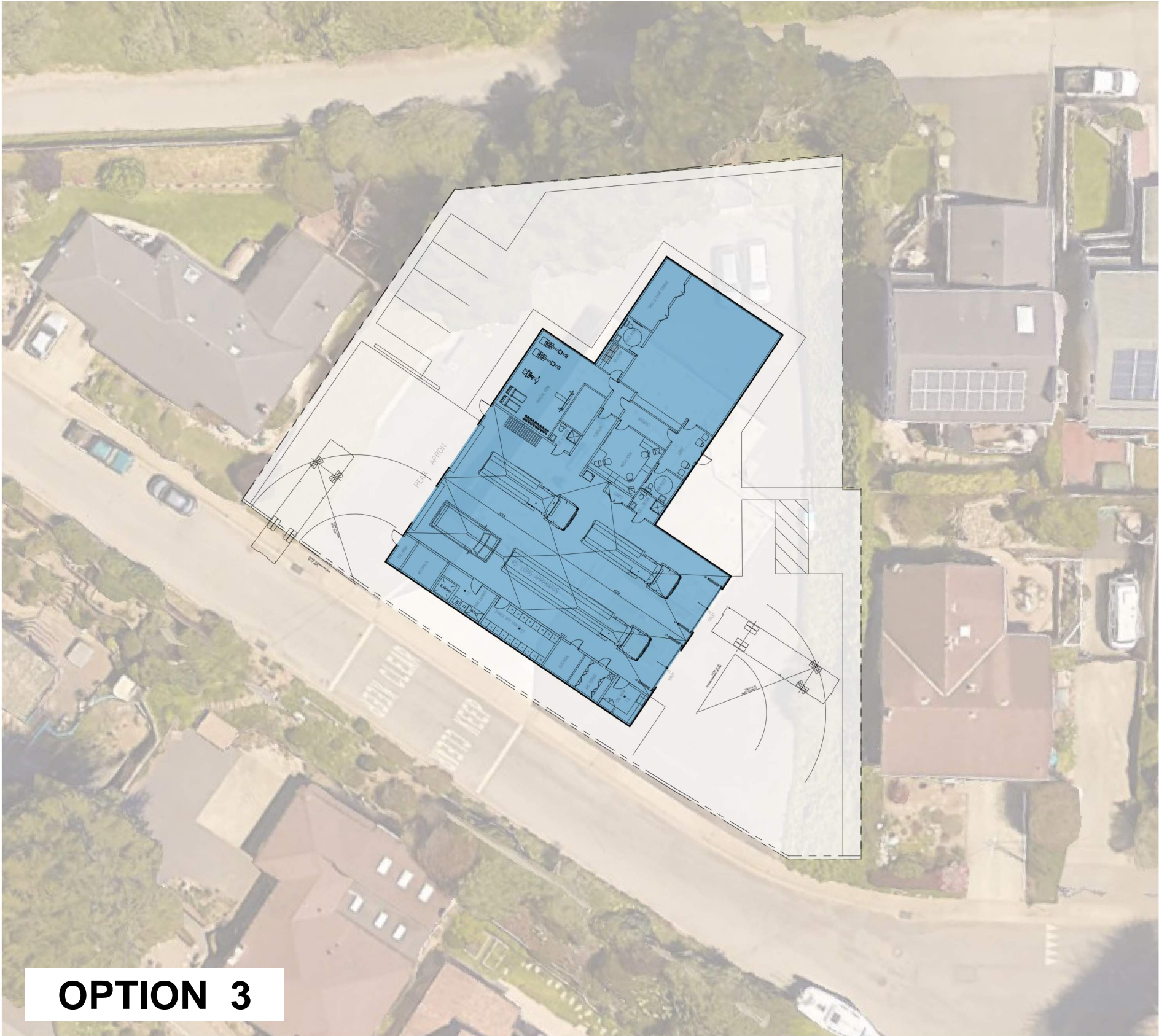
FIRE STATION 44 FEASIBILITY STUDIES



OPTION 2

Note: Second Floor not shown.

Coastside Fire Protection District FIRE STATION 44 FEASIBILITY STUDIES



OPTION 3

Note: Second Floor not shown.

EXHIBIT 3

PREFACE TO OPINION OF PROBABLE COST

The Opinion of Probable Cost hereunder has been compiled from drawings and specifications believed to be an accurate portrayal of the project as drawn and indicated by the architect and/or engineers on drawings. If said drawings and specifications are incomplete, the project cost engineer has included those items which would usually appear in final drawings and specifications for a complete project in a manner ordinarily prudent under the circumstances. Specialty items unknown to the cost engineer will not normally be included unless communicated through the architect and/or engineers.

The user is cautioned that changes in the scope of the project or the drawings and specifications after the Opinion of Probable Cost has been submitted can cause cost changes and the cost engineer should be notified for appropriate addenda to be issued to the Opinion of Probable Cost.

Escalation has been added to the Opinion of Probable Cost to the anticipated start of construction on the whole project. The escalation is based on a starting date believed to be accurate; however, unwarranted delays should be cause for added escalation at the current rate.

The Opinion of Probable Cost has also been adjusted for geographical location based on local material and labor rates as well as local construction practice in a prevailing wage environment.

In the current Seller's market for construction, our experience show the following results on competitive bids, as a differential from final Opinion of Probable Cost.

1 Bid, (Sole Sourced or Negotiated)	+ 15% to +38%
2 - 3 Bids	+ 8% to +12%
4 - 5 Bids	+ 4% to - 4%
6 - 7 Bids	- 5% to - 7%
8 or more bids	- 8% to - 20%

Accordingly, it is extremely important that the owner maintain continuous contact with the bidders during the bid period to assure a minimum of 4 - 5 Bids

Opinion of Probable Cost

An Opinion of Probable Cost of cost shall be construed as an indefinite evaluation of cost based on similar structures, produced from plans and/or criteria during early stages of design commonly indicated as schematic or concept level. The cost engineer will add items which are not on the plans and use judgment but cannot know in total what the architect/engineer will later include.

In providing Opinion of Probable Costs, the Client understands that the consultant has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's method of pricing, and that the Consultant's Opinion of Probable Costs are made on the on the basis of the Consultant's professional judgment and experience and historical costs and data as the basis of pricing. The Consultant makes no warranty, express or implied than the bids or the negotiated cost of the work will not vary from the Consultant's Opinion of Probable Cost.

The Opinion of Probable Cost is comprised of a survey of the quantities measured from the plans and specifications beyond the schematic stage commonly known as design development or working drawings. The estimator will add those items which may not appear on the plans but which he deems may latter be included by the Architect & Engineers.

The total cost is based on the work being performed by a single prime contractor in a continuous phase with construction.

The Opinion of Probable Cost will make the assumption that the following will be covered separately or not required for this project, unless specifically noted.

1. Hazardous abatement
2. Offsite work
3. Utility company fees, unless otherwise noted.
4. Any unforeseen subterranean conditions or objects

CONTINGENCY

The Owner and the Consultant agree that certain costs and changes may be required, and therefore, the final construction cost of the Project may exceed the Opinion of Probable Cost.

BID

An offer to enter into a contract at a fixed price good for a limited length of time.

SOFT COSTS - Not included in Current Cost Estimate

These costs are related to those items in a project that are necessary to prepare and complete the non-construction needs of the project. Soft costs include the architect's fees, the construction management services, the engineering reports and fees, the appraisal fee, the toxic report fee, owner contingencies, inspections, bidding/ award costs, any government fees - including the plan check fee, the cost of the building permit, any assessments, any sewer and water hook-up fees. These costs are related to those items in a project that are necessary to prepare and complete the non-construction needs of the project. Soft costs do not include construction, telecommunications, furnishings, fixed equipment, and expenditures for any other permanent components of the project.

Coastside Fire Protection District
 Fire Station #44 Replacement
 Budget Validation



COMPONENT COST SUMMARY

ARCHITECT: SVA Architects

GROSS SF: 9,100
 DATE: 17-Aug-22

BUILDING SYSTEM SUMMARY		ESTIMATE		COST W/	
SYSTEM		TOTAL COST	\$/GSF	MARK UP	\$/GSF
	SITE WORK	\$1,282,076	\$140.89	\$1,891,974	\$207.91
SITE WORK		\$1,282,076	\$140.89	\$1,891,974	\$207.91
1.0	FOUNDATION	\$110,192	\$12.11	\$162,612	\$17.87
2.0	VERTICAL STRUCTURE	\$409,500	\$45.00	\$604,304	\$66.41
3.0	FLOOR & ROOF STRUCTURE	\$197,561	\$21.71	\$291,542	\$32.04
4.0	EXTERIOR CLADDING	\$1,429,368	\$157.07	\$2,109,334	\$231.79
5.0	ROOFING	\$288,465	\$31.70	\$425,691	\$46.78
SHELL		\$2,435,085	\$267.59	\$3,593,483	\$394.89
6.0	INTERIOR PARTITION	\$506,277	\$55.63	\$747,119	\$82.10
7.0	INTERIOR FINISHES	\$145,103	\$15.95	\$214,130	\$23.53
INTERIORS		\$651,380	\$71.58	\$961,249	\$105.63
8.0	MISC. EQUIPMENT	\$302,915	\$33.29	\$447,015	\$49.12
9.0	VERTICAL TRANSPORTATION	\$200,000	\$21.98	\$295,142	\$32.43
FUNC. EQUIPMENT		\$502,915	\$55.27	\$742,157	\$81.56
10.0	PLUMBING	\$186,935	\$20.54	\$275,862	\$30.31
11.0	HVAC	\$364,000	\$40.00	\$537,159	\$59.03
12.0	ELECTRICAL	\$586,950	\$64.50	\$866,169	\$95.18
13.0	FIRE PROTECTION	\$72,800	\$8.00	\$107,432	\$11.81
MECHANICAL / ELECTRICAL		\$1,210,685	\$133.04	\$1,786,622	\$196.33
TOTAL BUILDING		\$4,800,065	\$527.48	\$8,975,485	\$986.32
SUBTOTAL CONSTRUCTION		\$6,082,141	\$668.37		
19.0	GENERAL CONDITIONS	10.0%	\$608,214	\$66.84	
20.0	CONTINGENCY	10.0%	\$669,035	\$73.52	
22.0	BONDS AND INSURANCE	2.5%	\$183,985	\$20.22	
23.0	OVERHEAD & PROFIT	6.0%	\$452,602	\$49.74	
SUBTOTAL MARK UPS		\$1,913,837	\$210.31		
SUBTOTAL CONSTRUCTION - TODAY'S DOLLARS		\$7,995,977	\$878.68		
	Escalation From Estimate Date to Start	Months	Monthly Inflation		
20.0	Date - 7% annual (May 2024)	21	0.58%	\$979,507	\$107.64
TOTAL CONSTRUCTION		\$8,975,485	\$986.32		

Coastside Fire Protection District
 Fire Station #44 Replacement
 Budget Validation



Sierra West Group
 CONSTRUCTION CONSULTANTS

BUILDING TRADE SYSTEM SUMMARY

GROSS SF: 9,100

DATE: 17-Aug-22

TRADE	SYSTEM	DESCRIPTION	TRADE COST	COST PER BLDGSF	SYSTEM QUANTITY	UNIT	COST PER SYSTEM	SYSTEM/BLDGSF
310.0	1.0	SUBTOTAL-CONCRETE FOUNDATIONS	\$110,192	\$12.11	9,100	BLDGSF	\$12.11	1.000
310.0	3.0	SUBTOTAL-SLAB ON GRADE	\$163,761	\$18.00	6,957	FLSF	\$23.54	0.765
		DIVISION 3 TOTAL	\$273,953	\$30.10				
410.0	4.0	SUBTOTAL-EXTERIOR WALLS	\$777,868	\$85.48	9,312	SF	\$83.53	1.023
410.0	6.0	SUBTOTAL-INTERIOR WALLS	\$150,372	\$16.52	7,704	SF	\$19.52	0.847
		DIVISION 4 TOTAL	\$928,240	\$102.00				
510.0	2.0	SUBTOTAL-STRUCTURAL STEEL	\$409,500	\$45.00	55	TON	\$7,500.00	0.006
		DIVISION 5 TOTAL	\$443,300	\$48.71				
610.0	4.0	SUBTOTAL-ROUGH CARPENTRY	\$222,550	\$24.46	9,100	BLDGSF	\$24.46	1.000
640.0	8.0	SUBTOTAL-FINISH CARPENTRY	\$5,000	\$0.55	9,100	BLDGSF	\$0.55	1.000
		DIVISION 6 TOTAL	\$227,550	\$25.01				
720.0	6.0	SUBTOTAL-INSULATION	\$63,120	\$6.94	15,952	SF	\$3.96	1.753
740.0	5.0	SUBTOTAL- ROOFING	\$212,480	\$23.35	6,640	RFSF	\$32.00	0.730
760.0	5.0	SUBTOTAL-SHEET METAL FLASHING	\$60,060	\$6.60	6,640	RFSF	\$9.05	0.730
790.0	5.0	SUBTOTAL-CAULK & SEALANTS	\$15,925	\$1.75	9,100	BLDGSF	\$1.75	1.000
		DIVISION 7 TOTAL	\$351,585	\$38.64				
810.0	4.0	SUBTOTAL-DOORS/FRAMES/HDWR - EXT.	\$382,950	\$42.08	11	DRS	\$34,813.64	0.001
810.0	6.0	SUBTOTAL-DOORS/FRAMES/HDWR - INT.	\$58,250	\$6.40	24	DRS	\$2,427.08	0.003
830.0	4.0	SUBTOTAL-EXTERIOR GLAZING	\$46,000	\$5.05	400	SF	\$115.00	0.044
840.0	7.0	SUBTOTAL-INTERIOR GLAZING	\$7,200	\$0.79	72	SF	\$100.00	0.008
		DIVISION 8 TOTAL	\$494,400	\$54.33				
910.0	6.0	SUBTOTAL-DRYWALL,PLASTER - INT. WALL	\$135,960	\$14.94	24,720	WLSF	\$5.50	2.716
910.0	6.0	SUBTOTAL-DRYWALL,ACOUSTIC - CEILING	\$12,840	\$1.41	2,140	SF	\$6.00	0.235
930.0	7.0	SUBTOTAL-CERAMIC TILE	\$6,894	\$0.76	247	SF	\$27.91	0.027
950.0	7.0	SUBTOTAL-ACOUSTICAL TILE	\$58,100	\$6.38	4,810	SF	\$12.08	0.529
965.0	7.0	SUBTOTAL-FLOORING	\$72,909	\$8.01	4,620	FLSF	\$15.78	0.508
990.0	6.0	SUBTOTAL-PAINT/ WALL COVERING	\$85,735	\$9.42	9,100	BLDGSF	\$9.42	1.000
		DIVISION 9 TOTAL	\$372,438	\$40.93				
1010.0	8.0	SUBTOTAL-TOILET ACCESSORIES	\$13,010	\$1.43	9,100	BLDGSF	\$1.43	1.000
1099.0	8.0	SUBTOTAL-MISCELLANEOUS SPECIALTIES	\$197,325	\$21.68	9,100	BLDGSF	\$21.68	1.000
		DIVISION 10 TOTAL	\$210,335	\$23.11				
1160.0	8.0	SUBTOTAL-CASEWORK	\$87,580	\$9.62	9,100	BLDGSF	\$9.62	1.000
		DIVISION 11 TOTAL	\$87,580	\$9.62				
1410.0	9.0	SUBTOTAL-CONVEYING SYSTEMS	\$200,000	\$21.98	9,100	BLDGSF	\$21.98	1.000
		DIVISION 14 TOTAL	\$200,000	\$21.98				
1530.0	13.0	SUBTOTAL-FIRE PROTECTION	\$72,800	\$8.00	9,100	BLDGSF	\$8.00	1.000
1544.0	10.0	SUBTOTAL-PLUMBING	\$186,935	\$20.54	7	FIX	\$26,705.00	0.001
1546.0	11.0	SUBTOTAL-HVAC	\$364,000	\$40.00	9,100	BLDGSF	\$40.00	1.000
		DIVISION 15 TOTAL	\$623,735	\$68.54				
1610.0	12.0	SUBTOTAL-ELECTRICAL SYSTEMS	\$586,950	\$64.50	9,100	BLDGSF	\$64.50	1.000
		DIVISION 16 TOTAL	\$586,950	\$64.50				
TOTAL SUBCONTRACT COST			\$4,800,065	\$527.48				

Coastside Fire Protection District
 Fire Station #44 Replacement
 Budget Validation



Sierra West Group
 CONSTRUCTION CONSULTANTS

ARCHITECT: SVA Architects

GROSS SF: 9,100

DATE: 17-Aug-22

BY: J. Moreno

DETAILED BUILDING ESTIMATE

TRADE	SYSTEM	DESCRIPTION	QUAN.	UNIT	UNIT COST	TOTAL	COST/GSF
		FOUNDATIONS					
		EXCAVATION TO FOUNDATIONS	109	CYDS	\$50.00	\$5,432	\$0.60
		SPREAD FOOTING FOUNDATIONS	16	CYDS	\$1,050.00	\$16,296	\$1.79
		CONTINUOUS FOOTING FOUNDATIONS	93	CYDS	\$950.00	\$88,464	\$9.72
310.0	1.0	SUBTOTAL-CONCRETE FOUNDATIONS	9,100	BLDGSF		\$110,192	\$12.11
		SOG- 5" W/ #4 @ 18" OCEW	2,864	SF	\$18.00	\$51,552	\$5.67
		SOG- 8" W/ #5 @ 18" OCEW	4,093	SF	\$22.50	\$92,093	\$10.12
		CURBING	388	LF	\$32.00	\$12,416	\$1.36
		HOLD DOWNS	14	EA	\$550.00	\$7,700	\$0.85
310.0	3.0	SUBTOTAL-SLAB ON GRADE	6,957	FLSF		\$163,761	\$18.00
		EXTERIOR WOOD STUD FRAMING - 6" & 8"	9,312	SF	\$20.00	\$186,240	\$20.47
		EXTERIOR UNDERLAYMENT- 1/2" S1	9,312	SF	\$6.50	\$60,528	\$6.65
		SIDINGS	9,312	SF	\$50.00	\$465,600	\$51.16
		METAL SUNSCREENS	9,100	SF	\$5.00	\$45,500	\$5.00
		STONE VENEER	400	SF	\$50.00	\$20,000	\$2.20
410.0	4.0	SUBTOTAL-EXTERIOR WALLS	9,312	SF		\$777,868	\$85.48
		STUD WALLS- 2 X 6 @ 16" OC	7,704	SF	\$18.00	\$138,672	\$15.24
		INTERIOR SHEARWALL	1,800	SF	\$6.50	\$11,700	\$1.29
410.0	6.0	SUBTOTAL-INTERIOR WALLS	7,704	SF		\$150,372	\$16.52
		STEEL PACKAGE	55	TONS	\$7,500.00	\$409,500	\$45.00
510.0	2.0	SUBTOTAL-STRUCTURAL STEEL	55	TON		\$409,500	\$45.00

Coastside Fire Protection District
 Fire Station #44 Replacement
 Budget Validation



Sierra West Group
 CONSTRUCTION CONSULTANTS

ARCHITECT: SVA Architects

GROSS SF: 9,100

DATE: 17-Aug-22

BY: J. Moreno

DETAILED BUILDING ESTIMATE

TRADE	SYSTEM	DESCRIPTION	QUAN.	UNIT	UNIT COST	TOTAL	COST/GSF
		STAIRS- 4.5 X 22 R'S	92	N/LF	\$250.00	\$23,000	\$2.53
		LANDINGS	92	SF	\$75.00	\$6,900	\$0.76
		WALL MT. HANDRAILS	65	LF	\$60.00	\$3,900	\$0.43
510.0	3.0	SUBTOTAL-STAIRS	1	FLIGHTS		\$33,800	\$3.71
		ROOF JOISTS- 1 3/4 X 14 LVL @ 24" OC	6,640	SF	\$20.00	\$132,800	\$14.59
		ROOF SHEATHING- 5/8"	6,640	SF	\$6.00	\$39,840	\$4.38
		FASCIA/ BARGES	776	BF	\$12.00	\$9,312	\$1.02
		HEADERS/ BEAMS/ POSTS	2,400	BF	\$10.00	\$24,000	\$2.64
		BLOCKING	750	BF	\$8.00	\$6,000	\$0.66
		HARDWARE/ FASTENERS/ HANGERS	1	LOT	\$10,597.60	\$10,598	\$1.16
610.0	4.0	SUBTOTAL-ROUGH CARPENTRY	9,100	BLDGSF		\$222,550	\$24.46
		FINISH CARPENTRY ALLOWANCE	1	LOT	\$5,000.00	\$5,000	\$0.55
640.0	8.0	SUBTOTAL-FINISH CARPENTRY	9,100	BLDGSF		\$5,000	\$0.55
		RIGID INSULATION TO ROOF - 6"	6,640	SF	\$6.00	\$39,840	\$4.38
		RIGID INSULATION TO EXT. WALL - 1"	9,312	SF	\$2.50	\$23,280	\$2.56
720.0	6.0	SUBTOTAL-INSULATION	15,952	SF		\$63,120	\$6.94
		STANDING SEAM ROOFING	6,640	SF	\$25.00	\$166,000	\$18.24
		COVER BOARD - 1/2"	6,640	SF	\$3.00	\$19,920	\$2.19
		ICE DAM MEMBRANE	6,640	SF	\$4.00	\$26,560	\$2.92
740.0	5.0	SUBTOTAL- ROOFING	6,640	RFSF		\$212,480	\$23.35
		ROOF ACCESSORIES AND FLASHINGS	6,640	SF	\$1.50	\$9,960	\$1.09
		METAL FACIA	388	SF	\$45.00	\$17,460	\$1.92
		DOOR AND WINDOW FLASHINGS/SEALANTS	976	SF	\$15.00	\$14,640	\$1.61
		MOTORIZED LOUVERS	120	SF	\$150.00	\$18,000	\$1.98
760.0	5.0	SUBTOTAL-SHEET METAL FLASHING	6,640	RFSF		\$60,060	\$6.60
		CAULKING AND SEALANTS	9,100	SF	\$1.75	\$15,925	\$1.75
790.0	5.0	SUBTOTAL-CAULK & SEALANTS	9,100	BLDGSF		\$15,925	\$1.75

Coastside Fire Protection District
 Fire Station #44 Replacement
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DETAILED BUILDING ESTIMATE

TRADE	SYSTEM	DESCRIPTION	QUAN.	UNIT	UNIT COST	TOTAL	COST/GSF
		HM DOOR/ FRAMES- 3080	3	EA	\$3,350.00	\$10,050	\$1.10
		STOREFRONT DOORS	1	EA	\$6,500.00	\$6,500	\$0.71
		ALUMINUM CLAD SLIDING GLASS DOOR- 8080	1	EA	\$6,400.00	\$6,400	\$0.70
		FOLDING FULL GLAZED DOORS- 12 X 14	6	EA	\$60,000.00	\$360,000	\$39.56
810.0	4.0	SUBTOTAL-DOORS/FRAMES/HDWR - EXT.	11	DRS		\$382,950	\$42.08
		FRAMES					
		HM 3080	24	EA	\$750.00	\$18,000	\$1.98
		DOORS					
		SC 3080	24	EA	\$850.00	\$20,400	\$2.24
		ADDERS					
		VISION PANELS	10	EA	\$185.00	\$1,850	\$0.20
		INTERIOR HARDWARE	24	EA	\$750.00	\$18,000	\$1.98
810.0	6.0	SUBTOTAL-DOORS/FRAMES/HDWR - INT.	24	DRS		\$58,250	\$6.40
		EXT. GLAZING- CLERESTORY	200	SF	\$110.00	\$22,000	\$2.42
		EXT. GLAZING- STOREFRONT	100	SF	\$125.00	\$12,500	\$1.37
		EXT. GLAZING- OPERABLE	100	SF	\$115.00	\$11,500	\$1.26
830.0	4.0	SUBTOTAL-EXTERIOR GLAZING	400	SF		\$46,000	\$5.05
		INTERIOR GLAZING	72	SF	\$100.00	\$7,200	\$0.79
840.0	7.0	SUBTOTAL-INTERIOR GLAZING	72	SF		\$7,200	\$0.79
		GYP BOARD TO WALLS- 5/8" TYPE X	24,720	SF	\$5.50	\$135,960	\$14.94
910.0	6.0	SUBTOTAL-DRYWALL,PLASTER - INT. WALL	24,720	WLSF		\$135,960	\$14.94
		GYP BOARD DIRECT TO STRUCTURE	2,140	SF	\$6.00	\$12,840	\$1.41
910.0	6.0	SUBTOTAL-DRYWALL,ACOUSTIC - CEILING	2,140	SF		\$12,840	\$1.41
		CERAMIC TILE- FLOOR	11	SF	\$26.00	\$286	\$0.03
		CERAMIC TILE- BASE	59	LF	\$16.00	\$944	\$0.10
		CERAMIC WALL TILE - 4'	236	SF	\$24.00	\$5,664	\$0.62
930.0	7.0	SUBTOTAL-CERAMIC TILE	247	SF		\$6,894	\$0.76

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DETAILED BUILDING ESTIMATE

TRADE	SYSTEM	DESCRIPTION	QUAN.	UNIT	UNIT COST	TOTAL	COST/GSF
		SUSPENDED ACOUSTICAL CEILING - 2X4	4,810	SF	\$10.00	\$48,100	\$5.29
		SUSPENDED WOOD CEILINGS	200	SF	\$50.00	\$10,000	\$1.10
950.0	7.0	SUBTOTAL-ACOUSTICAL TILE	4,810	SF		\$58,100	\$6.38
		MIXED FLOORIG	4,610	SF	\$7.00	\$32,270	\$3.55
		RUBBER FLOORING	400	SF	\$20.00	\$8,000	\$0.88
		SEALED CONCRETE	4,093	SF	\$3.00	\$12,279	\$1.35
		RESILIENT BASE	1,280	LF	\$4.00	\$5,120	\$0.56
		WALK-OFF MAT - RECESSED	127	SF	\$120.00	\$15,240	\$1.67
965.0	7.0	SUBTOTAL-FLOORING	4,620	FLSF		\$72,909	\$8.01
		PAINT TO GYPSUM BOARD	26,860	SF	\$1.75	\$47,005	\$5.17
		EXTERIOR SEALANTS	9,312	SF	\$2.50	\$23,280	\$2.56
	ALLOWANCE	WALL COVERINGS	500	SF	\$12.00	\$6,000	\$0.66
		PAINT TO DOOR/ FRAME	27	EA	\$350.00	\$9,450	\$1.04
990.0	6.0	SUBTOTAL-PAINT/ WALL COVERING	9,100	BLDGSF		\$85,735	\$9.42
		TOILET PAPER DISPENSERS	2	EA	\$ 175.00	\$350	\$0.04
		SEAT COVER DISPENSERS	2	EA	\$150.00	\$300	\$0.03
		PAPER TOWEL DISPENSERS/ DISPOSAL	2	EA	\$ 500.00	\$1,000	\$0.11
		SANITARY NAPKIN DISPOSALS- SURFACE	2	EA	\$ 75.00	\$150	\$0.02
		SANITARY NAPKIN DISPENSER	2	EA	\$ 600.00	\$1,200	\$0.13
		ELECTRIC HAND DRYERS	2	EA	\$ 1,880.00	\$3,760	\$0.41
		SOAP DISPENSERS	2	EA	\$ 125.00	\$250	\$0.03
		GRAB BARS	2	PRS	\$ 300.00	\$600	\$0.07
		PLATE MIRROR TO FITNESS	120	SF	\$ 30.00	\$3,600	\$0.40
		MIRRORS	2	EA	\$ 150.00	\$300	\$0.03
		MOP RACK	1	EA	\$ 350.00	\$350	\$0.04
		SHOWER RODS/ CURTAINS	1	EA	\$ 100.00	\$100	\$0.01
		SHOWER SEATS	1	EA	\$ 450.00	\$450	\$0.05
		TOWEL HOOKS	12	EA	\$ 50.00	\$600	\$0.07
1010.0	8.0	SUBTOTAL-TOILET ACCESSORIES	9,100	BLDGSF		\$13,010	\$1.43

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DETAILED BUILDING ESTIMATE

TRADE	SYSTEM	DESCRIPTION	QUAN.	UNIT	UNIT COST	TOTAL	COST/GSF
		WINDOW COVERINGS	400	SF	\$7.00	\$2,800	\$0.31
		FIRE EXTINGUISHERS/ CABINETS	3	EA	\$ 550.00	\$1,650	\$0.18
		FIRE EXTINGUISHERS - WALL HUNG	1	EA	\$ 150.00	\$150	\$0.02
		FITNESS EQUIPMENT				BY OWNER	
		RESIDENTIAL KITCHEN EQUIPMENT	1	LOT	\$ 22,500.00	\$22,500	\$2.47
		UNDERCOUNTER REFRIGERATOR	1	EA	\$ 700.00	\$700	\$0.08
		HD COMMERCIAL WASHER/ DRYER	1	SET	\$ 8,000.00	\$8,000	\$0.88
		FIRE STATION EXHAUST SYSTEM	1	LOT	\$ 125,000	\$125,000	\$13.74
		FIRE HOSE WASHER	1	EA	\$ 22,000	BY OWNER	
		FIRE HOSE DRYING CABINET	1	EA	\$ 12,000	\$12,000	\$1.32
		GEAR EXTRACTOR/ DRYER	1	EA	\$ 25,000	BY OWNER	
		HOSE REEL	6	EA	\$ 2,500	\$15,000	\$1.65
		AIR COMPRESSOR - 10HP	1	EA	\$ 15,000	BY OWNER	
		AV EQUIPMENT	1	LOT	\$ 10,000	BY OWNER	
		DOOR SIGNAGE	27	EA	\$ 75.00	\$2,025	\$0.22
		BLDG SIGNAGE	1	LS	\$ 7,500.00	\$7,500	\$0.82
1099.0	8.0	SUBTOTAL-MISCELLANEOUS SPECIALTIES	9,100	BLDG SF		\$197,325	\$21.68
		BASE CABINETS	94	LF	\$400.00	\$37,600	\$4.13
		BASE CABINETS - EXTERIOR	9	LF	\$500.00	\$4,500	\$0.49
		CABINETS- WALL MT.	8	LF	\$285.00	\$2,280	\$0.25
		COUNTERTOP- QUARTZ	94	LF	\$225.00	\$21,150	\$2.32
		DISPLAY CABINET AT LOBBY	5	LF	\$850.00	\$4,250	\$0.47
		BRACED COUNTERTOPS- RESTROOMS	12	LF	\$150.00	\$1,800	\$0.20
		RECEPTION DESK	10	LF	\$600.00	\$6,000	\$0.66
		KITCHEN ISLAND - 4 X 10	1	LOT	\$10,000.00	\$10,000	\$1.10
		TURNOUT LOCKERS - 3 TIER LOCKING	9	LF	\$600.00	BY OWNER	
1160.0	8.0	SUBTOTAL-CASEWORK	9,100	BLDG SF		\$87,580	\$9.62
		HYDRAULIC ELEVATOR- 2 STOP	1	EA	\$200,000.00	\$200,000	\$21.98
1410.0	9.0	SUBTOTAL-CONVEYING SYSTEMS	9,100	BLDG SF		\$200,000	\$21.98
		FIRE PROTECTION - WET STANDARD	9,100	SF	\$8.00	\$72,800	\$8.00
1530.0	13.0	SUBTOTAL-FIRE PROTECTION	9,100	BLDG SF		\$72,800	\$8.00

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DETAILED BUILDING ESTIMATE

TRADE	SYSTEM	DESCRIPTION	QUAN.	UNIT	UNIT COST	TOTAL	COST/GSF
		PLUMBING FIXTURES					
		HOT WATER TANKS- 100 GALLON- HEATED BY BOIL	1	EA	\$2,500.00	\$2,500	\$0.27
		BACKFLOW PREVENTION DEVICE- FIRE WATER- 6"	1	EA	\$14,500.00	\$14,500	\$1.59
		BACKFLOW PREVENTION DEVICE- DOMESTIC WATER	1	EA	\$9,500.00	\$9,500	\$1.04
		WATER CLOSETS	2	EA	\$1,500.00	\$3,000	\$0.33
		SHOWERS	1	EA	\$3,500.00	\$3,500	\$0.38
		KITCHEN SINK- SINGLE W/ GARBAGE DISPOSAL	1	EA	\$1,900.00	\$1,900	\$0.21
		SINKS- SINGLE COUNTER MT.	1	EA	\$1,050.00	\$1,050	\$0.12
		LAVATORIES- WALL MT.	2	EA	\$1,200.00	\$2,400	\$0.26
		DRINKING FOUNTAINS- PAIR	1	PR	\$5,000.00	\$5,000	\$0.55
		DECON SHOWER	1	EA	\$2,195.00	\$2,195	\$0.24
		TRENCH DRAINS - 12"	180	LF	\$175.00	\$31,500	\$3.46
		MOP SINKS	1	EA	\$850.00	\$850	\$0.09
		FLOOR SINKS	2	EA	\$785.00	\$1,570	\$0.17
		WASHER HOOKUPS	3	EA	\$450.00	\$1,350	\$0.15
		DISHWASHER HOOKUP	3	EA	\$450.00	\$1,350	\$0.15
		FLOOR DRAINS	2	EA	\$850.00	\$1,700	\$0.19
		TRAP PRIMERS	2	EA	\$625.00	\$1,250	\$0.14
		EMERGENCY EYE WASH STATION	1	EA	\$2,850.00	\$2,850	\$0.31
		WATER HAMMER ARRESTORS	2	EA	\$285.00	\$570	\$0.06
		HOSE BIBBS	4	EA	\$550.00	\$2,200	\$0.24
		ICE MAKER BOXES	1	EA	\$450.00	\$450	\$0.05
		ADD- SENSOR OPERATION	4	EA	\$350.00	\$1,400	\$0.15
		ROUGH IN @ FIXTURES	7	FIX	\$750.00	\$5,250	\$0.58
		ROUGH IN TO FIXTURES	7	FIX	\$5,500.00	\$38,500	\$4.23
		GAS DISTRIBUTION/ CONDENSATION	9,100	SF	\$2.00	\$18,200	\$2.00
		SCUPPERS	2	EA	\$350.00	\$700	\$0.08
		ROOF DRAINS W/ OVERFLOWS	5	EA	\$2,250.00	\$11,250	\$1.24
		RAINWATER LEADERS	220	LF	\$85.00	\$18,700	\$2.05
		DOWNSPOUT NOZZLES	5	EA	\$350.00	\$1,750	\$0.19
1544.0	10.0	SUBTOTAL-PLUMBING	7	FIX		\$186,935	\$20.54

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DETAILED BUILDING ESTIMATE

TRADE	SYSTEM	DESCRIPTION	QUAN.	UNIT	UNIT COST	TOTAL	COST/GSF
		<i>HVAC</i>	9,100	SF	\$ 40.00	\$364,000	\$40.00
1546.0	11.0	SUBTOTAL-HVAC	9,100	BLDGSF		\$364,000	\$40.00
		<i>LIGHTING</i>	9,100	SF	\$ 18.00	\$163,800	\$18.00
		<i>NORMAL/ EMERGENCY POWER</i>	9,100	SF	\$35.00	\$318,500	\$35.00
		<i>DATA/ SIGNAL</i>	9,100	SF	\$ 5.50	\$50,050	\$5.50
		<i>FIRE ALARM</i>	9,100	SF	\$ 6.00	\$54,600	\$6.00
1610.0	12.0	SUBTOTAL-ELECTRICAL SYSTEMS	9,100	BLDGSF		\$586,950	\$64.50

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DETAILED BUILDING ESTIMATE

TRADE	SYSTEM	DESCRIPTION	QUAN.	UNIT	UNIT COST	TOTAL	COST/GSF
		BLDG SUBTOTAL				\$4,800,065	
		GENERAL CONDITIONS		10.0%		\$480,007	
		CONTINGENCY		10.0%		\$528,007	
		BONDS AND INSURANCE		2.5%		\$145,202	
		OVERHEAD AND PROFIT		6.0%		\$357,197	
		SUBTOTAL OF MARK UP				\$1,510,412	
		Escalation From Estimate Date to Bid Date 5/2024.		12.25%		\$773,034	
		TOTAL MARK UP PERCENTAGE		47.57%			
TOTAL ON BID DAY PER BUILDING						\$7,083,511	\$778.41

Coastside Fire Protection District
 Fire Station #44 Replacement
 Budget Validation



SITE SUMMARY

GROSS SF: 9,100

DATE: 17-Aug-22

TRADE	SYSTEM	DESCRIPTION	TRADE COST	COST PER BLDGSF	SYSTEM QUANTITY	UNIT	COST PER SYSTEM	SYSTEM/BLDGSF
205.0	1.0	SUBTOTAL-DEMOLITION	\$111,498	\$12.25	9,100	BLDGSF	\$12.25	1.000
220.0	14.0	SUBTOTAL-EXCAVATION, FILL AND GRADING	\$68,613	\$7.54	9,100	BLDGSF	\$7.54	1.000
277.0	15.0	SUBTOTAL- SITE UTILITIES	\$589,765	\$64.81	9,100	BLDGSF	\$64.81	1.000
299.0	16.0	SUBTOTAL-GENERAL SITE WORK	\$512,200	\$56.29	9,100	BLDGSF	\$56.29	1.000
DIVISION 2 TOTAL			\$1,282,076	\$140.89				
TOTAL SUBCONTRACT COST			\$1,282,076	\$140.89				
19.0		GENERAL CONDITIONS						
			10.0%	\$128,208				
20.0		CONTINGENCY						
			10.0%	\$141,028				
22.0		BONDS AND INSURANCE						
			2.5%	\$38,783				
23.0		OVERHEAD & PROFIT						
			6.0%	\$95,406				
SUBTOTAL MARK UPS								
								\$403,424
SUBTOTAL CONSTRUCTION - TODAY'S DOLLARS								\$1,685,500
			Years		Annual Inflation			
Escalation From Estimate Date to Start Date -								
20.0	7% annual (May 2024)		1.75		7%			\$206,474
TOTAL CONSTRUCTION								\$1,891,974
					\$207.91	BLDGSF		

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CURRENT ESTIMATE

TRADE	SYSTEM	DESCRIPTION	QUAN.	UNIT	UNIT COST	TOTAL	COST/GSF
		SAWCUT AC PAVING	190	LF	\$8.00	\$1,520	\$0.17
		REMOVE AC PAVING	10326	SF	\$3.00	\$30,978	\$3.40
		REMOVE BLDG	4000	SF	\$15.00	\$60,000	\$6.59
		CMU WALL	280	LF	\$50.00	\$14,000	\$1.54
		MISCELLANEOUS DEMOLITION	1	LOT	\$5,000.00	\$5,000	\$0.55
205.0	1.0	SUBTOTAL-DEMOLITION	9,100	BLDG SF		\$111,498	\$12.25
		CLEAR AND GRUB	6,300	SF	\$0.50	\$3,150	\$0.35
		SITE SURVEY	21,000	SF	\$0.35	\$7,350	\$0.81
		CUT AND FILL - ROUGH GRADING	252	CYDS	\$15.00	\$3,780	\$0.42
		OVER EXCAVATION- 3' D BLDG	1,080	CYDS	\$15.00	\$16,200	\$1.78
		ENGINEERED FILL- BLDG PAD - 3'D	1,080	CYDS	\$25.00	\$27,000	\$2.97
		WATER/ COMPACT FILL	1,080	CYDS	\$10.00	\$10,800	\$1.19
		COMPACTION TO PAVING	190	SF	\$0.75	\$143	\$0.02
		FINISH GRADE @ PAVING	190	SF	\$1.00	\$190	\$0.02
220.0	14.0	SUBTOTAL-EXCAVATION, FILL AND GRADI	9,100	BLDG SF		\$68,613	\$7.54
		STORM DRAIN	21,000	SF	\$3.00	\$63,000	\$6.92
		TRENCH DRAINS	50	LF	\$250.00	\$12,500	\$1.37
		EROSION CONTROL	21,000	SF	\$1.00	\$21,000	\$2.31
		GAS					
		GAS PIPING- 2"	120	LF	\$60.00	\$7,200	\$0.79
		GPR- 2"	1	EA	\$1,200.00	\$1,200	\$0.13
		SOV- 2"	1	EA	\$1,500.00	\$1,500	\$0.16
		VALVE BOX	1	EA	\$650.00	\$650	\$0.07
		POC TO (E) UTILITY	1	EA	\$1,500.00	\$1,500	\$0.16
		SANITARY SEWER					
		SS LINE- 6"	70	LF	\$90.00	\$6,300	\$0.69
		SS LINE- 4"	120	LF	\$75.00	\$9,000	\$0.99
		SAND/ OIL SEPERATOR- 1000 GALLON	1	EA	\$10,500.00	\$10,500	\$1.15
		CLEANOUTS	2	EA	\$650.00	\$1,300	\$0.14
		POINT OF CONNECTION	1	EA	\$3,000.00	\$3,000	\$0.33

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CURRENT ESTIMATE

TRADE	SYSTEM	DESCRIPTION	QUAN.	UNIT	UNIT COST	TOTAL	COST/GSF
		DOMESTIC AND FIRE WATER					
		FIRE LINE- 8"	310	LF	\$100.00	\$31,000	\$3.41
		FIRE HYDRANT ASSEMBLIES	1	EA	\$5,500.00	\$5,500	\$0.60
		GATE VALVES- 6"	1	EA	\$1,880.00	\$1,880	\$0.21
		VALVE BOXES	1	EA	\$650.00	\$650	\$0.07
		GATE VALVE- 8"	1	EA	\$2,975.00	\$2,975	\$0.33
		POC TO (E) UTILITY	1	LOC	\$3,500.00	\$3,500	\$0.38
		SITE LIGHTING					
		POLE FIXTURE-14' POLE W/3' BASE - TWIN	4	EA	\$6,500.00	\$26,000	\$2.86
		PULL BOX	2	EA	\$950.00	\$1,900	\$0.21
		WP GFI DUPLEX	2	EA	\$500.00	\$1,000	\$0.11
		RECESSED INGROUND UPLIGHTS - 150WMM	3	EA	\$2,500.00	\$7,500	\$0.82
		MONUMENT LIGHTING	2	EA	\$5,000.00	\$10,000	\$1.10
		TBC W/ CONDUIT AND WIRE	700	LF	\$30.00	\$21,000	\$2.31
		SITE POWER					
		PRIMARY FEED- TRENCH/ CONDUIT- (2) 4"	120	LF	\$90.00	\$10,800	\$1.19
		TRANSFORMER PAD	48	SF	\$45.00	\$2,160	\$0.24
		SECONDARY TRENCH/ BACKFILL	100	LF	\$35.00	\$3,500	\$0.38
		SECONDARY FEEDER - 400AMP	100	LF	\$600.00	\$60,000	\$6.59
		CONTROL FEEDER TO GENSET	120	LF	\$30.00	\$3,600	\$0.40
		EMERGENCY POWER FEEDER - 400AMP	120	LF	\$600.00	\$72,000	\$7.91
		EM GENERATOR - 200KW (NATURAL GAS)	1	LOT	\$120,000.00	\$120,000	\$13.19
		POWER VAULT	1	EA	\$10,000.00	\$10,000	\$1.10
		GATE ACCESS CARD READER	1	EA	\$10,000.00	\$10,000	\$1.10
		GATE FEEDER	150	LF	\$35.00	\$5,250	\$0.58
		EV CHARGING STATION	2	EA	\$15,000.00	\$30,000	\$3.30
		POC TO (E) UTILITY	1	LOT		BY OTHERS	
		TELECOMMUNICATION/ DATA					
		CONDUIT- 2" W/ PULL WIRE	400	LF	\$15.00	\$6,000	\$0.66
		TRENCH/ BACKFILL	100	LF	\$15.00	\$1,500	\$0.16
		PULLBOXES	1	EA	\$900.00	\$900	\$0.10
		POC TO (E) UTILITY	1	EA	\$2,500.00	\$2,500	\$0.27
277.0	15.0	SUBTOTAL- SITE UTILITIES	9,100	BLDGSF		\$589,765	\$64.81

**Coastside Fire Protection District
Fire Station #44 Replacement
Budget Validation**



Sierra West Group
CONSTRUCTION CONSULTANTS

ARCHITECT: SVA Architects

GROSS SF: 9,100

DATE: 17-Aug-22

BY: J. Moreno

CURRENT ESTIMATE

TRADE	SYSTEM	DESCRIPTION	QUAN.	UNIT	UNIT COST	TOTAL	COST/GSF
		TIE-IN TO (E) AC PAVING	190	LF	\$25.00	\$4,750	\$0.52
		CONCRETE PAVING- 8" O/ 8" AB	8860	SF	\$22.00	\$194,920	\$21.42
		CONCRETE PAVING- 4" O/ 4" AB	1,850	SF	\$14.00	\$25,900	\$2.85
		CURBING	760	LF	\$28.00	\$21,280	\$2.34
		ADA PARKING SIGNAGE	1	EA	\$450.00	\$450	\$0.05
		STRIPING	120	LF	\$4.00	\$480	\$0.05
		STRIPING- BULK	180	SF	\$6.50	\$1,170	\$0.13
		RETAINING WALLS	400	LF	\$250.00	\$100,000	\$10.99
		FENICNG/ GATE	20	LF	\$500.00	\$10,000	\$1.10
		MONUMENT SIGNS	1	EA	\$15,000.00	\$15,000	\$1.65
		SECURITY GATE- MOTORIZED- 25' W X 6' H	1	EA	\$18,750.00	\$18,750	\$2.06
		BIKE RACKS- 10' L	1	EA	\$2,250.00	\$2,250	\$0.25
		FLAG POLE/ FOOTING	1	EA	\$11,000.00	\$11,000	\$1.21
		WAY FINDING/ MISC. SIGNAGE	1	LS	\$1,500.00	\$1,500	\$0.16
		TRASH / GENERATOR ENCLOSURE	1	LOT	\$75,000.00	\$75,000	\$8.24
		LANDSCAPING					
		IRRIGATION	3,500	SF	\$2.50	\$8,750	\$0.96
		PLANTED AREAS	3,500	SF	\$5.00	\$17,500	\$1.92
		SEED MIXES	3,500	SF	\$1.00	\$3,500	\$0.38
299.0	16.0	SUBTOTAL-GENERAL SITE WORK	9,100	BLDG SF		\$512,200	\$56.29

		BLDG SUBTOTAL				\$1,282,076	
		GENERAL CONDITIONS		10.0%		\$128,208	
		CONTINGENCY		10.0%		\$141,028	
		BONDS AND INSURANCE		2.5%		\$38,783	
		OVERHEAD AND PROFIT		6.0%		\$95,406	
		SUBTOTAL OF MARK UP				\$403,424	
		Escalation From Estimate Date to Bid Date 5/2024.		12.25%		\$206,474	
		TOTAL MARK UP PERCENTAGE		47.57%			
		TOTAL ON BID DAY PER BUILDING				\$1,891,974	\$207.91