

*City of Seattle  
Fire Department and  
Fleets and Facilities Department*

**Seattle Fire Stations  
Operational Plan**

*May 5, 2003*



RRM DESIGN GROUP

*Creating Environments People Enjoy*

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City of Seattle

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## Seattle Fire Stations Operational Plan

May 5, 2003

Prepared In Collaboration with: Fleets and Facilities Department  
Fire Department  
Department of Finance



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## BACKGROUND

This Seattle Fire Stations Operational Plan derives from a study that accomplished two major goals:

1. To assess the current operational criteria of the Seattle Fire Department (SFD) as they relate to fire facilities space programming and develop prototype space requirements for the different types of fire operations.
2. To develop an overall fire station operational plan that would facilitate SFD's capacity to meet the modern demands of the fire service.

It is expected that the information and recommendations appearing in this Plan will eventually be aligned with the Seattle Fire Department Long Range Plan that is currently being developed. It is also expected to help form the basis for funding a Fire Department Facilities Capital Improvement Program.

This Fire Stations Operational Plan rests on three documents prepared in the course of the study:

1. Fire Facilities Framework. This framework outlined the modernization / replacement and seismic / safety space requirements as they apply to current operational procedures. Key areas of study included: emergency preparedness, life safety operations, and modern fire operations.
2. Operations Summary Matrix. This matrix documented the following:
  - Existing and planned station companies at each station, including engine, truck, medic, or aid companies.
  - Core and supporting operations including Special Support Units and reserve apparatus.
  - Emergency cache locations.
  - Stations identified as locations for potential apparatus growth.
3. Test-to-fit Assessment. The test-to-fit assessment involved a station-by-station investigative tour to determine the impacts of the proposed fire facilities framework to each station and site. This assessment indicated that the SFD's stations (sorted by age) fell into four age categories: those built prior to 1954, those built prior to 1954 and considered historic, stations built in the 1960s, and the Forward Thrust stations constructed in the 1970s.

This report summarizes the operational findings deriving from the study and concludes with the recommended improvements that comprise the Seattle Fire Stations Operational Plan.



## OPERATIONAL REQUIREMENTS

The Fire Facilities Program Work Group (FFPWG) reviewed and refined the strategic goals and operational procedures of the Fire Department with the purpose of using the operational criteria as a guide to developing the space goals for the fire stations. The process included workshops with an array of staff members, visits to existing fire stations, and discussions with SFD leadership. The focus was on current operational practices, methods for obtaining operating efficiencies, and options for providing flexibility in the space planning to allow for future changes in operating procedures.

As a result of this work, it was determined that four key operational elements ultimately drive demand for space within the fire operations system.

- The four comprise:
- Core Company Operations
  - Supporting Operations
  - Emergency Cache
  - Potential growth

### 1. CORE OPERATIONS – BASELINE FIRE STATIONS

Once the goals and operational procedures were verified, four baseline station types were identified that represent the core company operations of the Seattle Fire Department. The station types provide space for the assigned company or companies at each location. The baselines were identified as follows:

#### Neighborhood I

- Single Engine Company
- 4 personnel on duty per shift
- Baseline square footage – **6,972 SF**

#### Neighborhood II

- Engine Company, Ladder Company
- 8 personnel on duty per shift
- Baseline square footage - **10,663 SF**

#### Neighborhood III

- Engine Company, Ladder Company, Medic/Aid Company
- 10 personnel on duty per shift
- Baseline square footage – **13,624 SF**

#### Battalion

- Engine Company, Ladder Company, Medic/Aid Company
- Battalion Chief
- Drilling classroom
- 11 personnel on duty per shift
- Baseline square footage – **17,916 SF**

As part of the test-to-fit assessment, every existing station was categorized according to one of the four established baseline station categories.



## 2. SUPPORTING OPERATIONS

Beyond the core company operations, additional space requirements were identified for supporting operations. The supporting operations include:

- Hazardous Materials Units
- Decontamination
- Mass Casualty Incident Unit
- Special Rescue Teams
- Marine Firefighting
- Air Support
- Reserve Apparatus Units
- Other miscellaneous support units

The FFPWG recognized that placement of these supporting operations would be a critical success factor in the ultimate plan. In particular, the group recognized the value of placing these operations at strategic locations throughout the City to ensure continuity of service in the event of segmentation of the City by a major disaster. Also, for each of the supporting operation functions it was important to identify an efficient location that would support the areas that they would primarily serve (e.g. marine support at or near the waterfront.)

## 3. EMERGENCY CACHE

As a primary responder in the case of a natural or manmade disaster within the City, The Fire Department's Emergency Cache program was recognized as an important operation that would drive space requirements within the program. As with the supporting operations, each emergency cache must be strategically located in order to deploy as needed even in cases where the City is segmented during a crisis.

There are four types of current and/or proposed emergency caches addressed in this plan.

- Federal Cache – Includes federally sponsored/co-sponsored equipment designated for use for large-scale events both locally and across the country. These include Urban Search and Rescue (USAR) and (MMST). The current compliment of these resources includes 2- 80-foot semi trailers, 2 tractors to move the trailers, and 3,000 sq ft of secured, climate-controlled storage. This cache is designated to be located at Station No. 28.
- SFD Special Operations Cache – There are four general categories included within this group, Hazardous Materials, Decontamination, Marine Firefighting, and Rescue. The Rescue component includes; High angle rescue, confined space, heavy rescue (building collapse), and water rescue. All units are staffed with cross-trained fire operations personnel. Locating an emergency cache of equipment for each of these disciplines north of the ship canal will provide minimal essential equipment in the event of a terrorist act, or earthquake when the City may



be fragmented. To be capable of expediting use of these caches, additional apparatus to move the equipment would be beneficial. These caches are accounted for under the supporting operations section of the plan.

- SFD Fragmentation Caches – The City will be divided into at least four large fragments after an earthquake. The duration of this fragmentation is unpredictable. Pre-staging operations equipment in three of the four fragments would allow each area to handle large scale and/or long duration emergencies. One fragment, Harbor Island, would not receive an Operations cache given that no SFD units are stationed on the island and other apparatus will be unable to respond to this location. Four caches are necessary; one north of the Ship Canal, one in West Seattle, and two in the fragment comprised of the area from Magnolia to SE City limits. The space required for these four caches is 800 sq. ft. per cache. These are located at stations 2, 32, 39 and the commissary.
- SFD Personnel Disaster Cache – Each fire station currently has supplies and equipment to allow the firefighters at each station to be self-sufficient for 72 hours. The space required for this is 120 sq. ft. per station. The space has been included in the current framework.

#### 4. POTENTIAL GROWTH LOCATIONS

The Fire Department's concurrent long-range strategic planning work indicates trends that suggest that the Fire Stations Operational Plan should anticipate some growth in EMS (Medic/Aid) companies. The majority of the growth will most likely occur in the downtown area of the City. To address this potential growth trend, the FFPWG also identified six stations as candidates to accommodate future growth. The six were selected on the basis of: (a) their placement in the correct location for response, and (b) their possession of sufficient site area and/or building area to accommodate this growth.

The potential growth is planned for the following locations:

- Fire Station No. 2
- Fire Station No. 6
- Fire Station No. 14
- Fire Station No. 17
- Fire Station No. 25
- Fire Station No. 31



## OPERATIONAL PLAN

On the basis of the fire facilities framework, the operations matrix, and the test-to-fit assessment, this plan identified three potential *levels of improvement* for stations throughout the City and determined the level that was appropriate for each of the stations. The three categories are:

1. Seismic/safety improvements, generally reserved for newer (1970s and 1960s) stations that were in good seismic and physical condition and required a minimal level of improvement to bring them up to current operational and emergency preparedness standards,
2. Major renovation and expansion, involving not only seismic upgrades but substantial remodels as well, and
3. Replacement, in which the entire station is replaced on-site or at a new location.

As part of the test-to-fit assessment, and to determine the proper level of improvement for each station, a summary was prepared including existing operations, year built, historical significance, and site issues (liquefaction, etc.) to assist in establishing the proper improvement level. It was recognized, for example, that historical fire stations would be the most limiting in terms of remodeling, should the remodel involve modifications to the fenestration. Fire stations built in the 1970's would also have limited need for remodeling, due to their relative newness and seismic condition.

Once the facilities and sites were evaluated, the site-specific information was documented, summarized, and evaluated by the FFPWG – site square footage, structural recommendations, and operational goals. The information was tabulated and used to generate a conceptual site diagram arrangement layout specific to each facility. A project budget was then developed for each improvement plan approach and layout.

In summary, the Fire Stations Operational Plan calls for upgrades to all 33 stations in the system, as follows:

- Seismic/safety improvements are recommended for 15 stations.
- Major renovation and expansion is recommended for 5 stations; and
- Replacement is recommended for 14 stations.

The following table summarizes the Fire Stations Operational Plan on a station-by-station basis and indicates the recommended level of improvement, the general size of the operations program (Neighborhood 1, 2, 3, and Battalion), and estimated project budget:





3. The project budgets above do include a 1.6% soft cost multiplier that includes the items below:
  - Washington State Sales Tax
  - Change Order Contingency/Unforeseen Conditions
  - Management Reserve/Design Contingency
  - Permit and Plan Check
  - Printing and Bidding
  - Test and Inspect
  - Design Service and Consultants
  - Project Management
  - Commissioning/Quality Control
  - Public Art
  - Sustainable Construction Allowance
  - Move and Close Out
  - Design Commission Review

Immediately following the acknowledgments for this report, below, is the complete station-by-station work plan, inclusive of station profiles, project budgets, and test-to-fit diagrams.

## Acknowledgments

The Fire Facilities Plan Work Group comprised of staff members from three City Departments led this project:

- Mary Pearson, Fleets and Facilities; City Project Manager
- Charlie Heffernan, Fleets and Facilities; Real Estate Services
- Dove Alberg, Fleets and Facilities; Architecture, Engineering & Space Planning
- Deputy Chief Brian Mills, Seattle Fire Department
- Battalion Chief James Woodbury, Seattle Fire Department
- Captain Gary English, Seattle Fire Department
- Joyce Kling, Seattle Fire Department, Strategic Advisor
- Lee Belland, Department of Finance; Facilities Budget Analyst
- Barbara Gangwer, Department of Finance; Fire Department Budget Analyst

Doug Hurley, Vice President, CH2MHill was retained the Fleets and Facilities Department to serve as the overall project manager, leading, coordinating and integrating the work of City staff and other consultants.

The Architecture firms of RRM Design Group and TCA Architecture Planning Inc., both specializing in fire station architecture, were retained by the City of Seattle to assist in the development of the project. The RRM Design Group design team was led by Mary McGrath, Principal-in-Charge, and the TCA Architecture Planning Inc. team was led by Brian Harris, AIA.

Additional participants played key roles in the development of the project:



**Directors Steering Group:**

John Franklin, Director, Seattle Fleets and Facilities Department  
Dwight Dively, Director, Seattle Department of Finance  
Gary Morris, Fire Chief, Seattle Fire Department

**Fire Department Programming Participants:**

Assistant Chief Michael Johnson, SFD  
Assistant Chief Gregory Dean, SFD  
Assistant Chief Kenneth Tipler, SFD  
Assistant Chief Ron Hiraki, SFD  
Assistant Chief Jerald Birt, SFD  
Deputy Chief A. D. Vickery, SFD  
Deputy Chief William Hepburn, SFD  
Deputy Chief Jim Fosse, SFD  
Deputy Chief Raoul Evans-Ramos, SFD  
Deputy Chief John Pritchard, SFD  
Deputy Chief Steve Oleson, SFD  
Battalion Chief Michael Walsh, SFD  
Battalion Chief Earl Sodeman, SFD  
Captain Mike Brunelle, SFD, Marine Unit  
Captain Dana Caldart, SFD, SFFU Local 27  
Captain John Gillis, SFD, Support Services  
Captain Geoff Wall, SFD, Support Services  
Engineer Dick Chester, SFD, Marine Unit  
Lt. Reba Gonzales, SFD  
Lt. Ed Peterson, SFD, Hazmat  
Lt. Paul Adams, SFD  
Lt. Michael, Heaton, SFD  
FF Lee Fields, SFD  
FF Michele Williams, SFD, Technical Rescue Unit  
FF Roger Bianchi, SFD, Hazmat  
FF Luke Carpenter, SFD, Marine Unit



## STATION PROFILES AND BUDGETS



### Fire Station No. 2 - Battalion II

<b>Address:</b>	2334 4th Ave. (Fire Station) 2318 4th Ave. (FAC)
<b>Year Built:</b>	1918
<b>Station Category:</b>	Prior to 1954 and Historic
<b>Zoning:</b>	Downtown MR / C 240 125 (100%)
<b>Site Area:</b>	19,446
<b>Existing S.F.</b>	18,822 + 15,394 = 34,216
<b>Station Condition:</b>	
Station 2, located in Belltown, is Seattle's oldest working fire station. It was extensively renovated in 1987, and is good condition. Although the renovation included seismic bracing, more structural work is required to bring the station up to current standards. It is basically sound, but building systems (roof, heating, electrical service) and equipment are old and should be replaced. In 1990 the Fire Alarm Center moved to its current location on the upper south portion of Fire Station 2, from a 28-year "temporary" facility at Seattle Center. The space in Fire Station 2 had originally housed the Fire Department carpentry shop, and a ballroom with a stage and mezzanine, but had been unoccupied for several years. The ballroom became the dispatch area, computers are on the stage, and communication cabling on the mezzanine.	

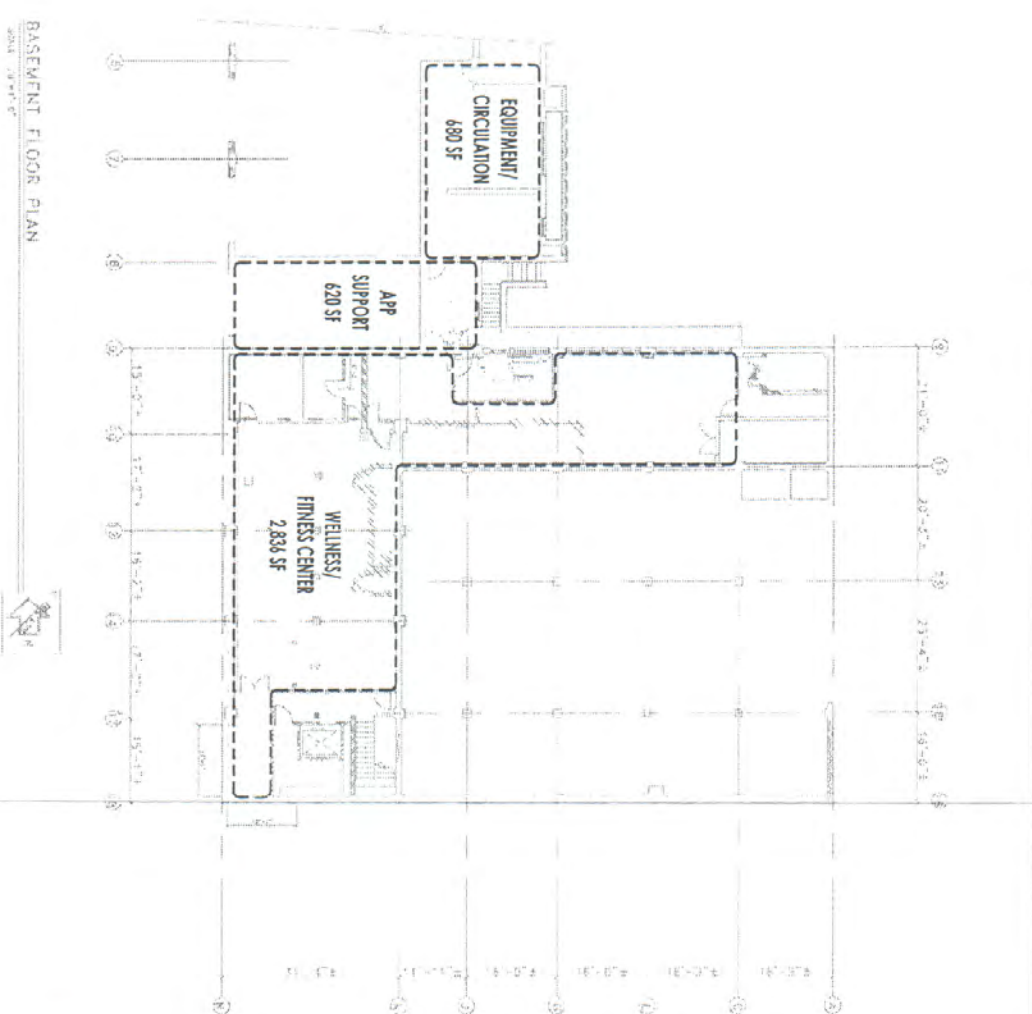
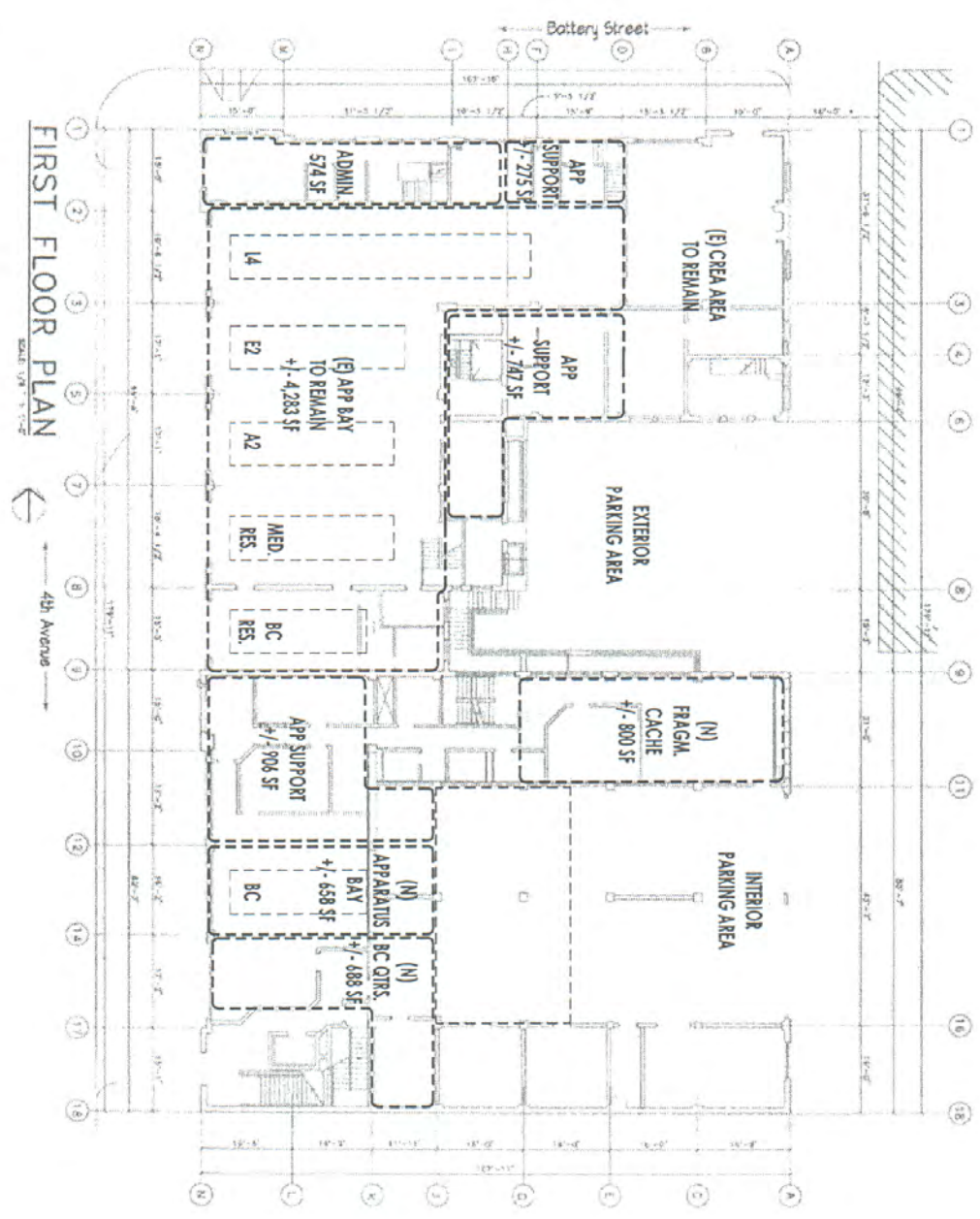
<b>Planned Operational Requirements</b>	
This station is planned to accommodate the following	
<b>Core Station Companies:</b>	
Engine (E2)	
Ladder (L4)	
Aid (A2)	
Battalion II (B2) Officer Only (Training at Station 25)	
<b>Supporting Operations:</b>	
Medic Reserve (M/ A97-5320)	
Reserve Battalion (99-3764)	
Wellness/Fitness	
<b>Emergency Cache:</b>	
SFD Fragmentation	
<b>Future Operations:</b>	
Medic Company	
<b>Total Renovated and Expanded Area:</b>	<b>34,216 SF</b>

**PROJECT DESCRIPTION:**  
**MAJOR RENOVATION AND EXPANSION** -- This station and adjacent FAC will be seismically upgraded and renovated. The interior of the fire station will be reconfigured to accommodate planned fire operations. Careful consideration will be taken to preserve the existing facade of this historic facility. The apparatus bays and bay door openings will be seismically upgraded but otherwise remain as currently exist.

The interior and the exterior to the FAC will be renovated to accommodate the planned operations of a Battalion Chief and future responding companies as well as the Wellness/Fitness program. Apparatus bays will be included in the first level reconfiguration, adding new doors to allow additional units to respond onto 4th Avenue.

Parking is to be accommodated in existing locations to the north of Station No. 2 and in the existing FAC/EOC first floor parking garage.





**PROGRAMMED OPERATIONAL REQUIREMENTS**

<b>Baseline:</b>	
Neighborhood III	23,894
Engine (E2)	
Ladder (L4)	
Aid (A2)	
Bolton I Officer	
<b>Supporting Operations</b>	2,412
Medic Reserve (M/A27-5320)	
Bolton Reserve (P9-31/4)	
Wellness/Fitness	
<b>Emergency Cache</b>	800
<b>Future Operations</b>	2,395
Medic Company	
<b>Total Program Square Footage:</b>	29,501
<b>Program Area Not Accommodated:</b>	0
<b>Total Renovation &amp; Expansion Area:</b>	34,216

**PROGRAM COMPROMISES**

- Modifications to program:**
- Apparatus Bays (Program Size: 6280) = Actual Size: 4941
  - Beaconry (Program Size: 268) = Actual Size: 410
  - Dining Area (Program Size: 475) = Actual Size: 406
- Not Included:**
- N/A

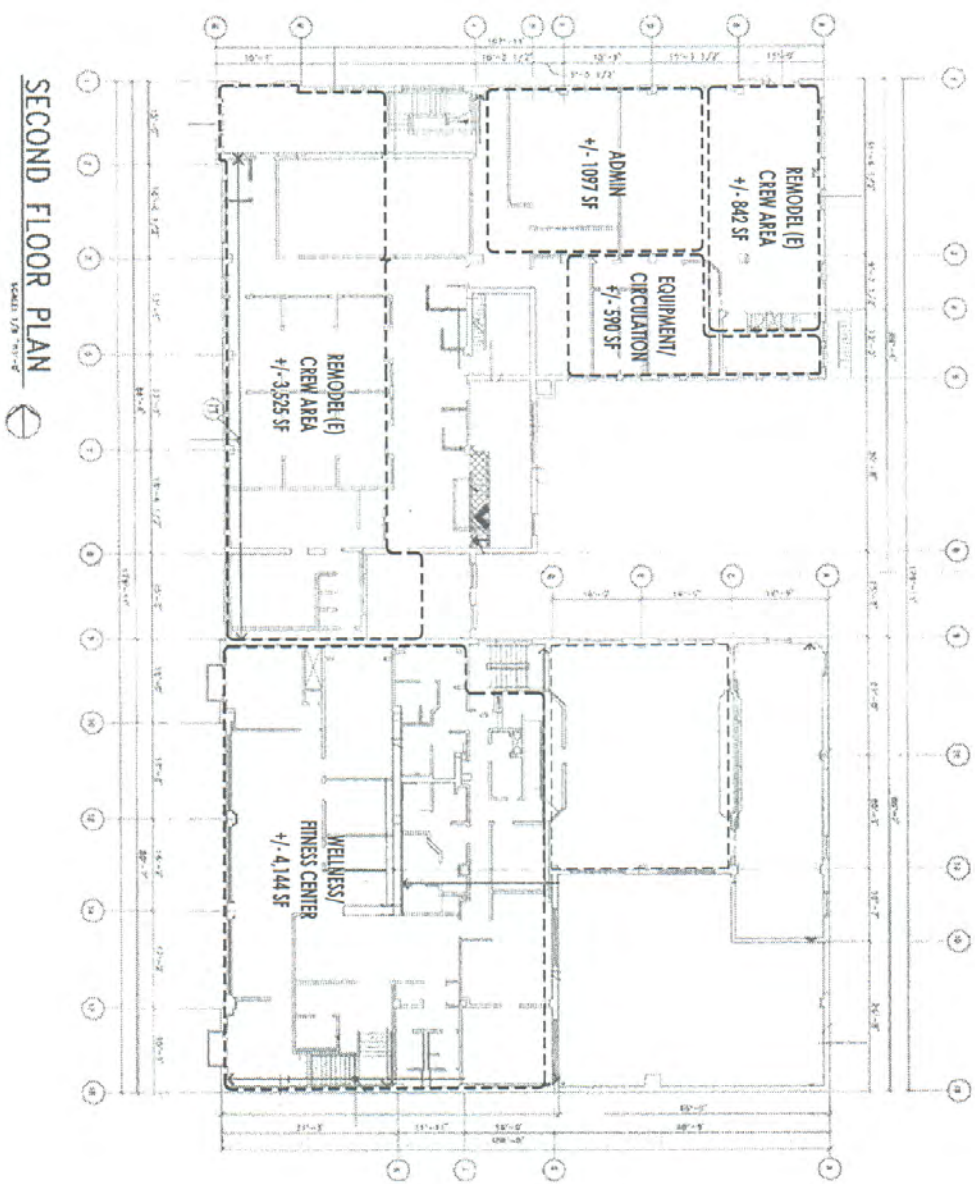


Architectural Site Plan/Floor Plans

**Test to Fit Diagram**

May 5, 2003

1002528



SECOND FLOOR PLAN



Architectural Second Floor Plan

Test to Fit Diagram

1002528



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### Fire Station No. 5 - Battalion V

<b>Address:</b>	925 Alaskan Way
<b>Year Built:</b>	1963
<b>Station Category:</b>	Sixties Station
<b>Zoning:</b>	
<b>Site Area:</b>	10,000
<b>Existing S.F.</b>	6,480

**Station Condition:**  
 Station 5, located on the Central Waterfront, houses both an engine company and the fireboat company. It was partially remodeled in 1990; however major systems such as the original single-pane windows were not replaced. There is inadequate area for parking and storage. Its location on the busy waterfront makes it noisy. The dock area is uncovered, exposing the fireboats to the weather.

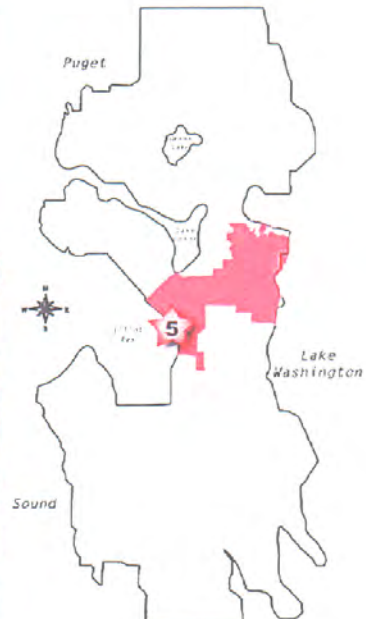
<b>Planned Operational Requirements</b>	
This station is planned to accommodate the following	
<b>Core Station Operations:</b>	
Engine (E5)	
Fire Boat (E4)	
<b>Supporting Operations:</b>	
Sedan (3762)	
<b>Total Replacement Square Footage:</b>	11,219 SF

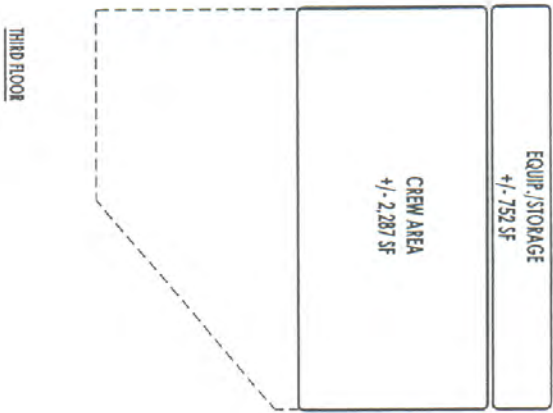
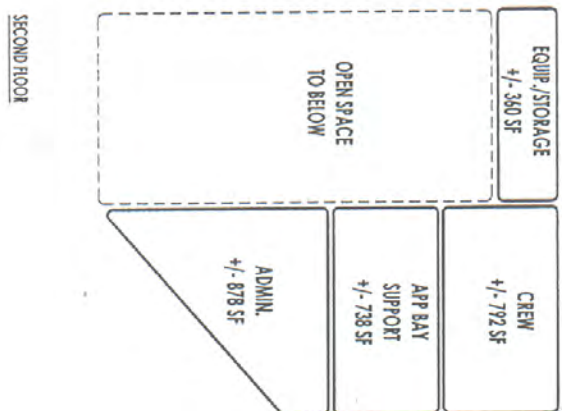
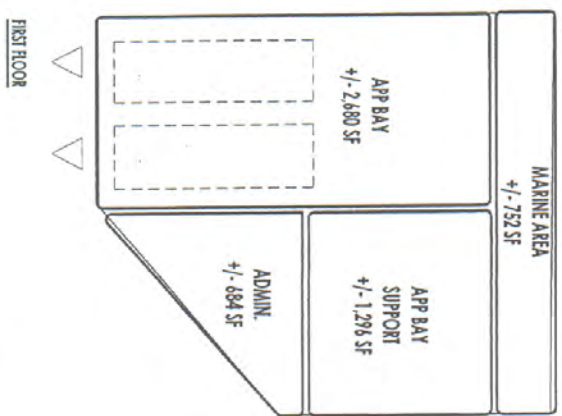
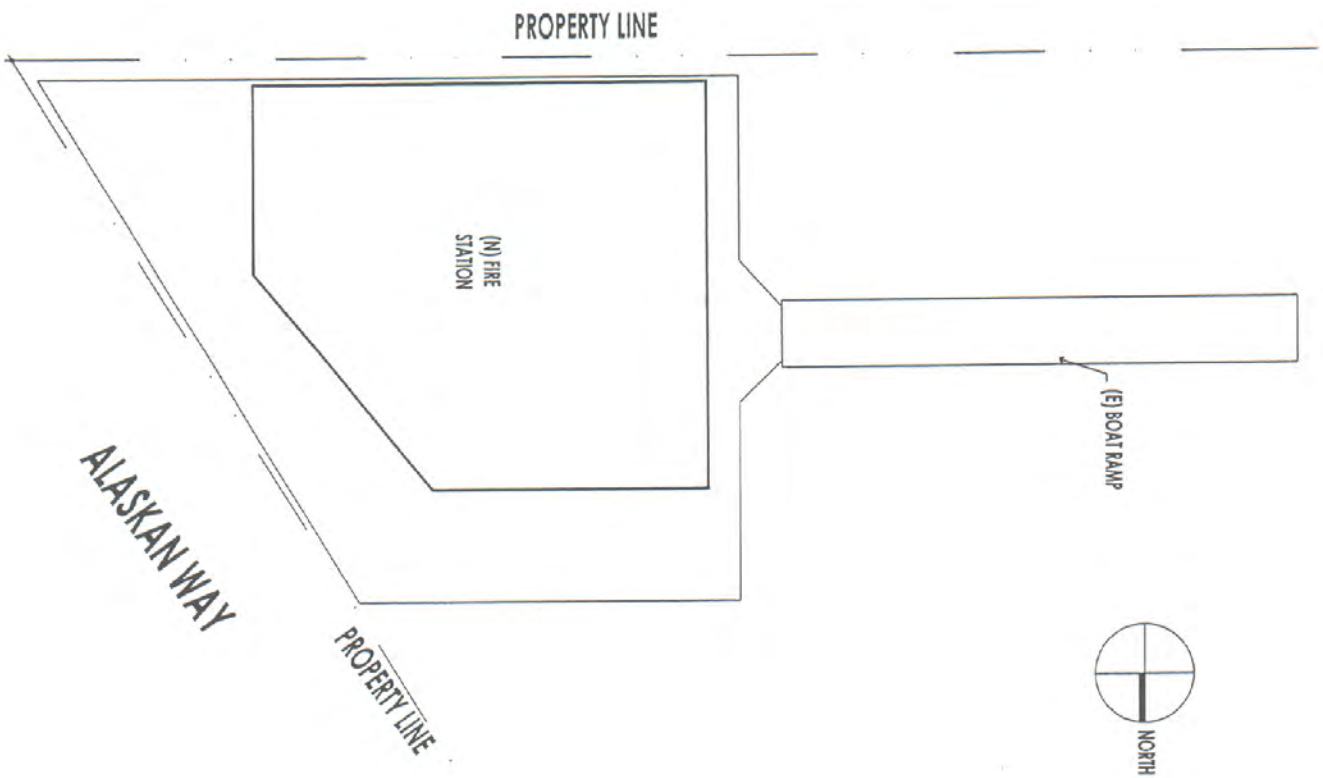
**PROJECT DESCRIPTION:**

**REPLACEMENT --** This station and adjacent fire boat dock will be replaced on-site. This station has reached its useful life in both systems integrity and operational efficiency. The seismic improvements will include supporting the entire site with piles due to its location in a liquefaction zone and adjacency to the sea wall. This station will provide housing for the fire boat crew and provide maintenance and storage specifically to support the fire boat operations.

The replacement station will be three stories tall and 6 parking places will be provided.

This project may be impacted by the Alaskan Way Via Duct project.





**PROGRAMMED OPERATIONAL REQUIREMENTS**

Baseline:	
Neighborhood II	10,983
Engine (E5)	
Tire load (E4)	
Supporting Operations	556
Sedan (S762)	
Emergency Cache	
None	
Future Operations	

Total Program Square Footage: 11,219  
 Program Area not Accommodated: 0  
 Total Building Square Footage: 11,219



Architectural Site Plan/Floor Plans

**Test to Fit Diagram**

May 5, 2003

1002528

**Fire Station 5 - Replacement**







### Fire Station No. 6 - Battalion V

**Address:** 101 - 23rd Avenue S.  
**Year Built:** 1931  
**Station Category:** Prior to 1954  
**Zoning:** RM Low-rise 4  
**Site Area:** 19,603  
**Existing S.F.:** 4,960

**Station Condition:**  
 Station 6 is a historic station located in the Central District. It was extensively renovated and expanded in 1986. However, the apparatus bay is too narrow and too short to accommodate modern firefighting apparatus and cannot be further expanded without compromising the historic character.

#### Planned Operational Requirements

This station is planned to accommodate the following

##### Core Station Operations:

Engine (E6)  
 Ladder (L3)

##### Future Operations:

Medic Company ← NOT INCLUDED IN  
 BALLOT MEASURE

**Total Replacement Square Footage:** 13,058 SF

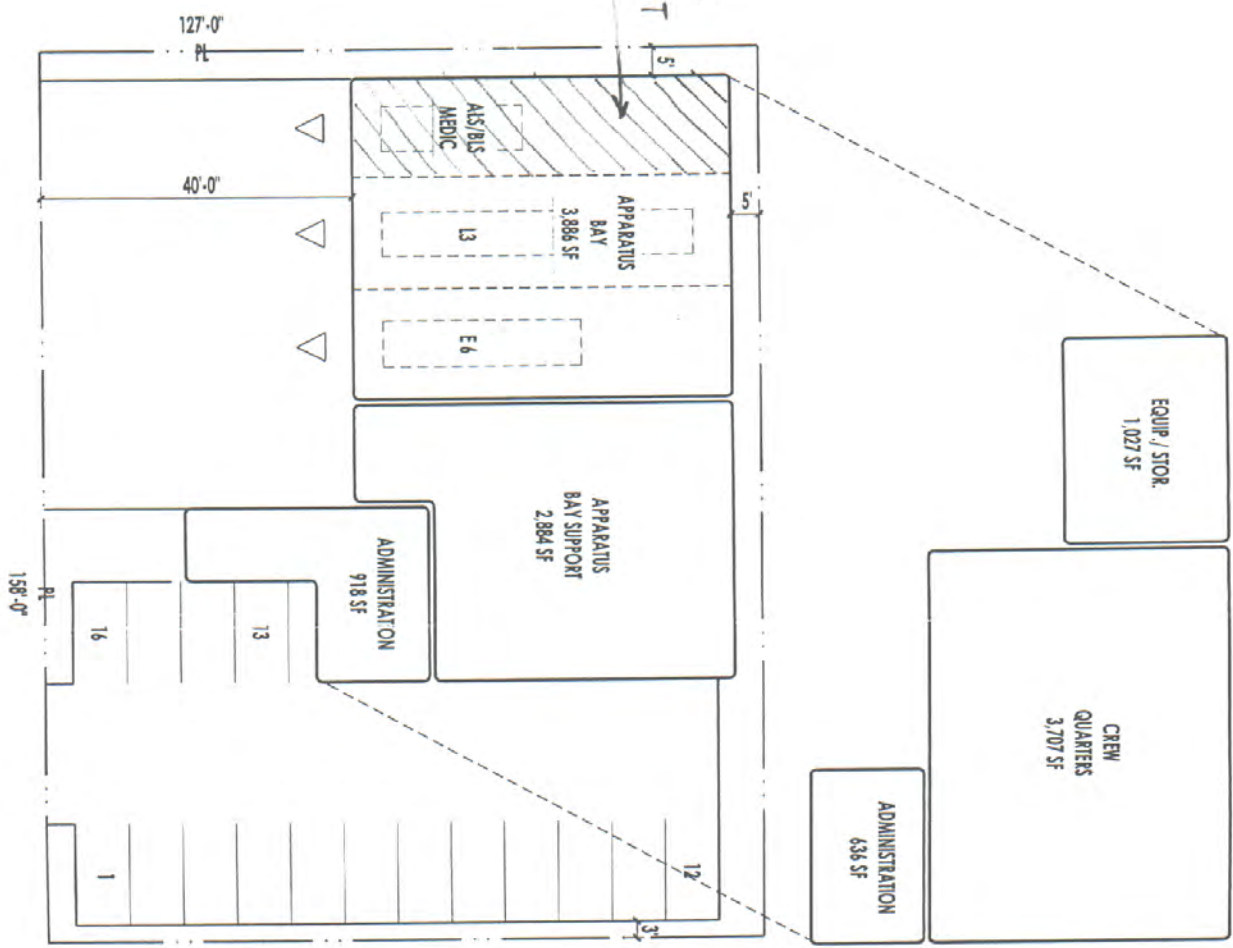
#### PROJECT DESCRIPTION:

**REPLACEMENT** – This station has reached its useful life in terms of its operational efficiencies and site capacity. The apparatus bay is too narrow and short for modern apparatus and the sloping site limits the useful area necessary for a required addition.

The station will be replaced on a new site within the Judkins/South Capital Hill/Upper Rainier Avenue neighborhood. The replacement facility will be two stories and provide 16 on-site parking spaces.



GROWTH BAY NOT INCLUDED IN BALDOT MEASURE



**PROGRAMMED OPERATIONAL REQUIREMENTS**

<b>Baseline:</b>	
Neighborhood II	10,663
Engine (6)	
Ladder (3)	
<b>Supporting Operations</b>	
None	
<b>Emergency Cache</b>	
None	
<b>Future Operations</b>	2,395
Medic Company	

Total Program Square Footage: 13,058  
 Program Area Not Accommodated: 0  
 Total Replacement Area: 13,058

**PROGRAM COMPROMISES**

Modifications to Program:  
 - N/A  
 Not Included:  
 - N/A

**PROTOTYPE STATISTICS:**

SITE AREA: 20,066 SF  
 TOTAL FLOOR PLAN AREA: 13,058 SF  
 Note: areas include 30% increase for circulation/structure



PROTOTYPE III+ MEDIC: Architectural Site Plan/Floor Plans

**Test to Fit Diagram**

May 5, 2003

1002528

**Fire Station 6- Replacement**



### Fire Station No. 8 - Battalion IV

Address:	110 Lee Street
Year Built:	1963
Station Category:	Sixties Station
Zoning:	L-1
Site Area:	42,000
Existing S.F.	4,839

**Station Condition:**  
 Station 8 on Queen Anne has had several remodels over the years, including expansion of the apparatus bays. It is basically in good condition, but requires some additional seismic bracing to meet current codes. It also requires interior remodeling to accommodate essential storage and decontamination facilities.

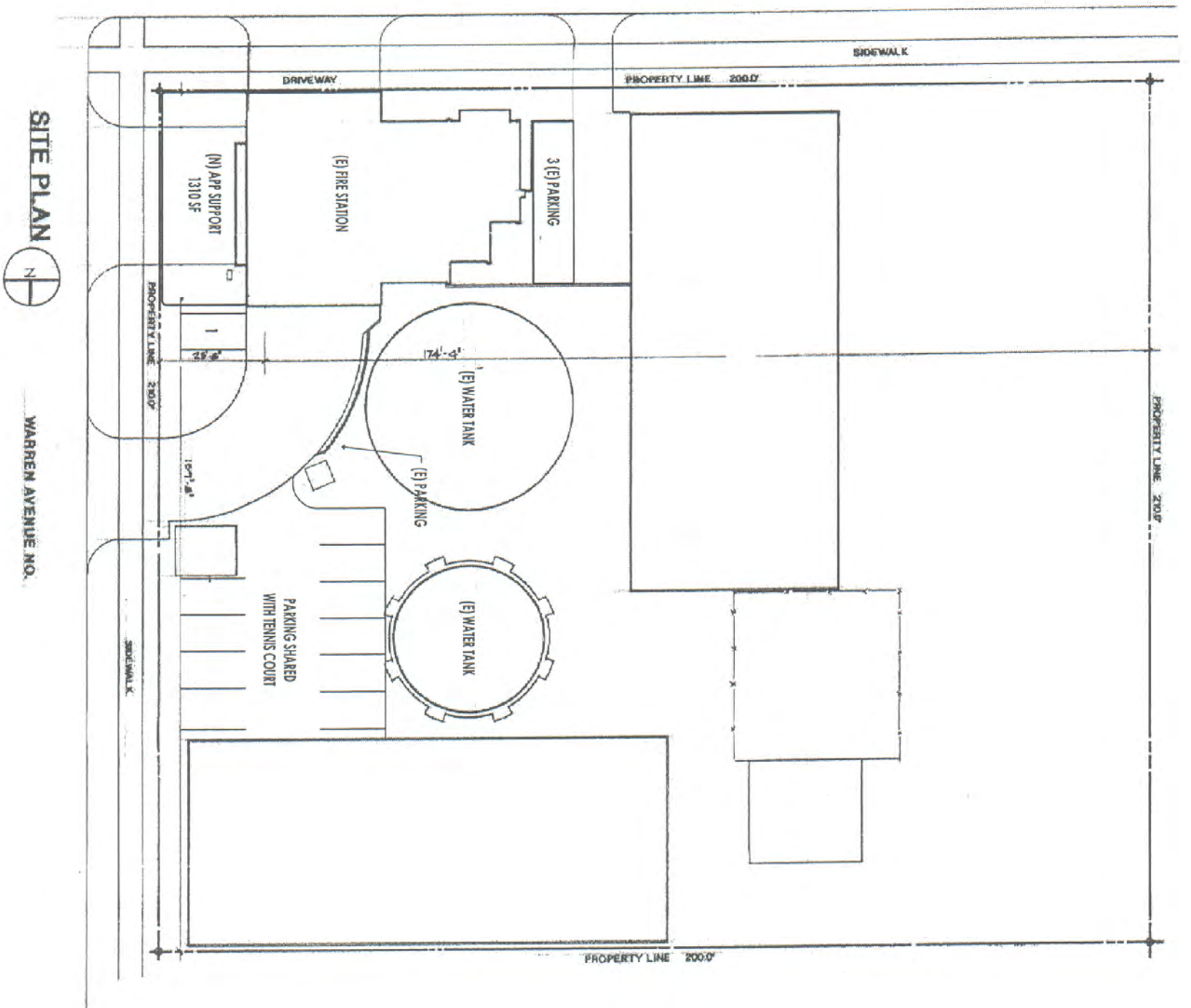
<b>Planned Operational Requirements</b>
This station is planned to accommodate the following
<b>Core Station Operations:</b>
Ladder (L8)
Engine (E8)
<b>Total Seismic/Safety Improvement Area:</b> 6,149 SF

**PROJECT DESCRIPTION:**  
**SEISMIC/SAFETY IMPROVEMENTS** – This station will receive a moderate seismic and safety upgrade with a small addition. The entire facility, 4,839 SF, will be upgraded to meet the requirements of the current seismic code. A 1,310 SF addition will extend to the east of the apparatus room to accommodate decontamination, bunker gear, laundry and medical supply storage. A small area to the west of the apparatus room will be remodeled to support maintenance and storage requirements. The second floor will not be altered with the exception of the seismic improvements.

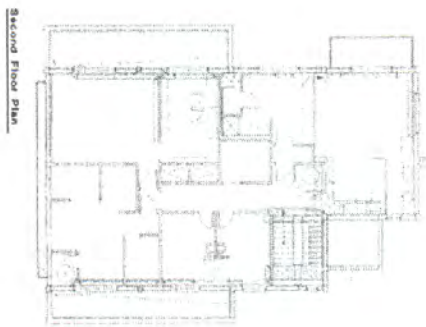
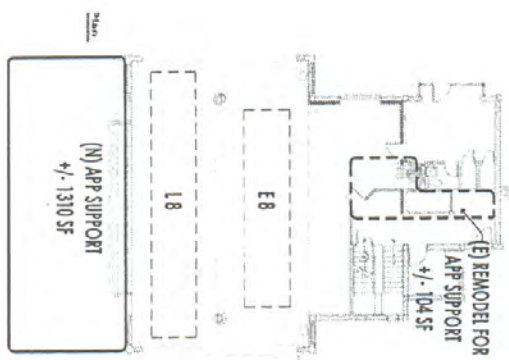
On-site parking will be reconfigured to provide for 7 on-site parking spaces.



LEE STREET



WARREN AVENUE NO.



**PROGRAMMED OPERATIONAL REQUIREMENTS**

<b>Baseline:</b>	
Neighborhood II	10,663
Engine (E8)	
Ladder (L8)	
<b>Supporting Operations</b>	
None	
<b>Emergency Cache</b>	
None	
<b>Future Operations</b>	
None	
<b>Total Program Square Footage:</b>	10,663
<b>Program area not accommodated:</b>	4,514
<b>Total Seismic/Safety Improvement Area:</b>	6,149

**PROGRAM COMPROMISES**

**Modifications to Program:**

- Apparatus Bay (Program Size: 2600) = Existing Size: 1565
- Officers Quarters (Program Size: 234) = Existing Size: 218
- Beamer (Program Size: 248) = Existing Size: 72
- Dining Area (Program Size: 240) = Existing Size: 130
- Dayroom (Program Size: 246) = Existing Size: 210
- Physical training (Program Size: 410) = Basement
- Dorm (Program Size: 432) = Existing Size: 319
- Locker Alcove (Program Size: 324) = Existing Size: 333
- Toilet/Shower - (Program Size: 243) = Existing Size: 185 W 132

**Not Included:**

- Lobby (Program Size: 140)
- Accessible Public Restroom (Program Size: 60)
- Apparatus Bay Restroom (Program Size: 60)
- Janitor at Second Floor (Program Size: 36)
- Beverage (Program Size: 112)



Architectural Site Plan/Floor Plans

**Test to Fit Diagram**

May 5, 2003

1002528



### Fire Station No. 9 - Battalion IV

**Address:** 3829 Linden Avenue N.  
**Year Built:** 1954  
**Station Category:** Prior to 1954  
**Zoning:** Low-rise 1  
**Site Area:** 11,760  
**Existing S.F.** 5,730

**Station Condition:**  
 Station 9 is located in Fremont. The building systems (roof, heating, electrical service) and equipment are old and require replacement. The station has inadequate space for modern apparatus and staffing levels, and is out of regulatory compliance in many areas. An air depot that serves stations throughout Seattle's north end is located on site in an old commissary building that is in very poor condition. Both buildings require replacement.

#### Planned Operational Requirements

This station is planned to accommodate the following

#### Core Station Operations:

Engine (E9)  
 Air Support (9)

#### Supporting Operations:

Air Unit

**Total Replacement Square Footage:** 8,178 SF

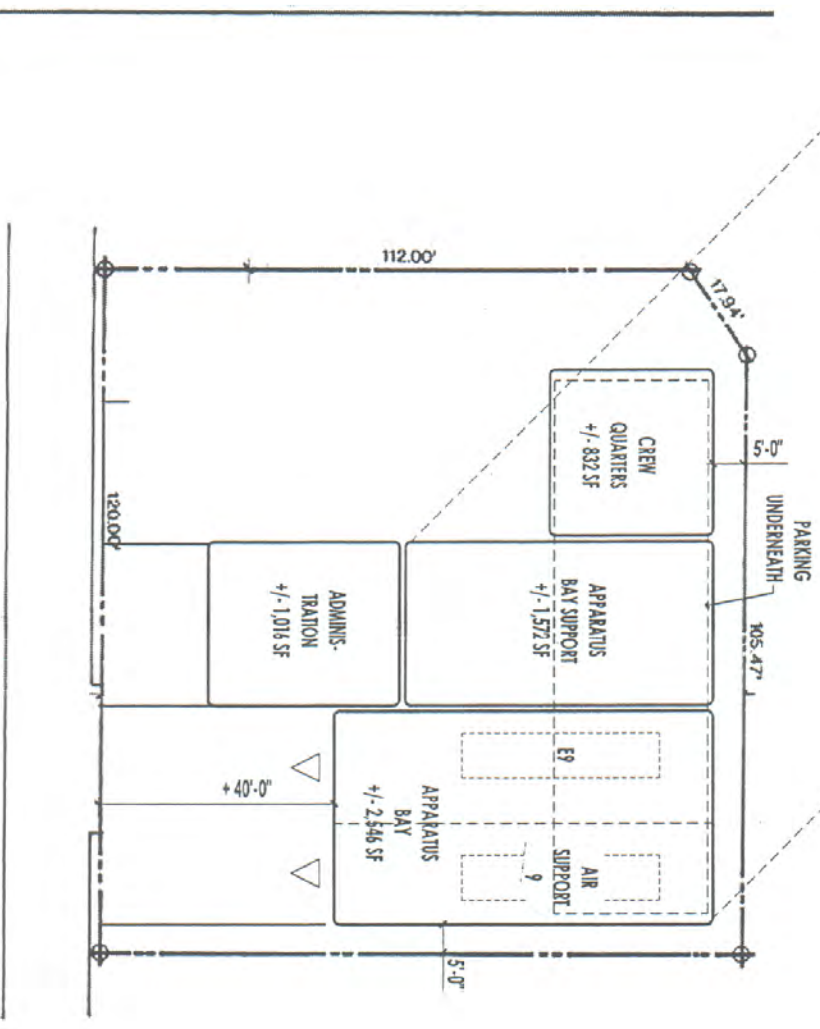
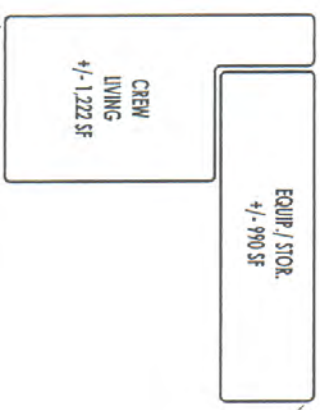
#### PROJECT DESCRIPTION:

**REPLACEMENT** -- This station and old commissary building will be replaced on the existing site. The existing buildings have both reached their useful life in terms of building integrity and operational efficiencies. A tunnel connecting the two buildings will be removed.

The replacement facility will place both the engine company and the air support unit into a single, two-story building.

The slope of the site will allow a portion of the on-site parking to be placed below the first level to the west. A total of 10 on-site parking spaces will be provided.





**SITE PLAN**  
 F=20'

LINDEN AVENUE N.

**PROGRAMMED OPERATIONAL REQUIREMENTS**

Baseline:	
Neighborhood I	6,972
Engine (E1)	
Air Support (A)	
Supporting Operations	1,206
Air Unit	
Emergency Cache	
None	
Future Operations	
None	

Total Program Square Footage: 8,178  
 Program Area Not Accommodated: 0  
 Total Replacement Area: 8,178

**PROGRAM COMPROMISES**

Modifications to program:  
 - N/A  
 Not included:  
 - N/A

**PROTOTYPE STATISTICS:**

SITE AREA: 11,760 SF  
 TOTAL FLOOR PLAN AREA: 8,178 SF  
 Note: areas include 20% increase for circulation structural



PROTOTYPE N1 + R: Architectural Site Plan/Floor Plans

**Test to Fit Diagram**

May 5, 2003

1002528

**Fire Station 9 - Replacement**



1385 Southpoint Street, Suite 200, San Diego, California 92108  
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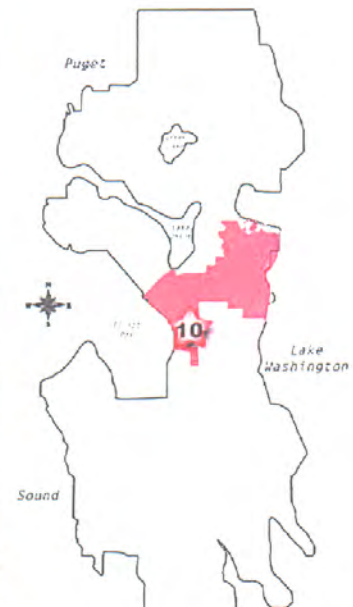


### Fire Station No. 10 - Battalion II

<b>Address:</b>	301 2nd Avenue S
<b>Year Built:</b>	1928
<b>Station Category:</b>	Prior to 1954
<b>Zoning:</b>	Pioneer Square Mixed 100 (100%)
<b>Site Area:</b>	12,960 SF
<b>Existing S.F.</b>	24,940
<b>Station Condition:</b>	
Per TCA Architecture in the "HEADQUARTERS STATION #10 PROGRAM ANALYSIS" dated June 2002, Station 10 serves as an operating fire station as well as the Department Command Center and Administration Headquarters. The facility is deficient in several capacities including but not limited to: Bay doors are too narrow and do not meet requirements for apparatus; Bays cannot contain all equipment associated with assigned tasks; Alerting system is inadequate in parts of the building; Ventilation system is poor; Freight elevator does not function properly; Building sits in liquefaction zone. Located in Pioneer Square, the structure cannot be expanded or modified to accommodate modern fire fighting facility standards. The station is seismically vulnerable due to the overstressed shearwalls, and potential horizontal sliding and loss of pile support during a seismic event. The historic nature of the station severely limits alteration options.	

<b>Planned Operational Requirements</b>	
This station is planned to accommodate the following	
<b>Core Station Operations:</b>	
Engine (E10)	
Ladder (L1)	
Aid (A10)	
BC (E10B)	
<b>Supporting Operations:</b>	
South Haz Mat Unit #77	
<b>Total Replacement Square Footage:</b>	<b>32,179 SF</b>

**PROJECT DESCRIPTION:**  
**REPLACEMENT** -- This station has reached its useful life in terms of its operational efficiencies and site capacity. This station will be replaced on a new site within the Pioneer Square neighborhood and will be co-located with the Fire Alarm Center, Fire Marshal and Headquarters functions. For further program information please refer to TCA Architecture in the "HEADQUARTERS STATION #10 PROGRAM ANALYSIS".





### Fire Station No. 11- Battalion VII

**Address:** 1514 SW Holden Street  
**Year Built:** 1971  
**Station Category:** Seventies Station  
**Zoning:** NC 1-30  
**Site Area:** 12,195  
**Existing S.F.** 5,754

**Station Condition:**  
 Station 11, located in Highland Park, is one of the newer facilities. It is basically in good condition, but requires some additional seismic bracing to meet current codes. It also requires interior remodeling to accommodate essential storage and decontamination facilities.

#### Planned Operational Requirements

This station is planned to accommodate the following

#### Core Station Operations:

- Engine (E11)
- Reserve Ladder (L385)

**Total Seismic/Safety Improvement Area:** 6,259 SF

#### PROJECT DESCRIPTION:

**SEISMIC/SAFETY IMPROVEMENTS** – This station will receive a minor seismic and safety upgrade with a small addition. The entire 5,754 SF station will be seismically retrofitted. 2,249 SF of the existing facility will be remodeled to efficiently locate apparatus support functions such as decontamination, bunker gear storage, EMS storage and maintenance. A portion of the remodel and the small addition of 505 SF will accommodate firefighter living areas displaced by the apparatus support functions. There will be minor changes to the building exterior due to the addition at the South and East elevations.

The site will remain as currently exists with 9 on-site parking spaces.

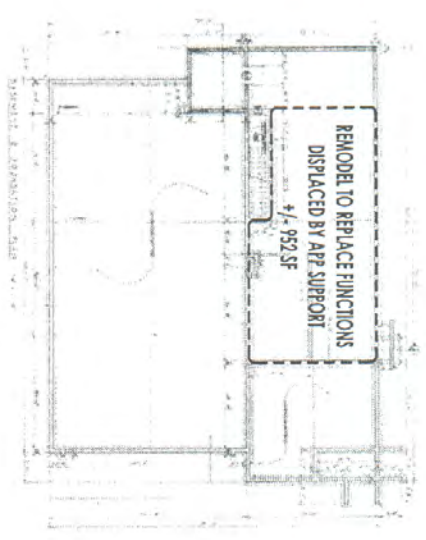
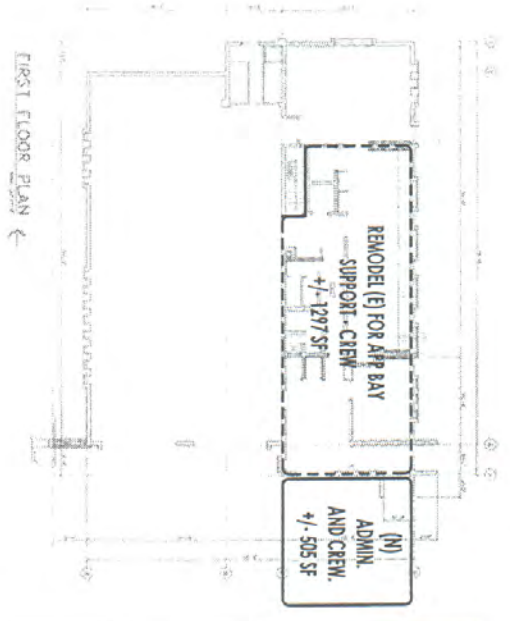
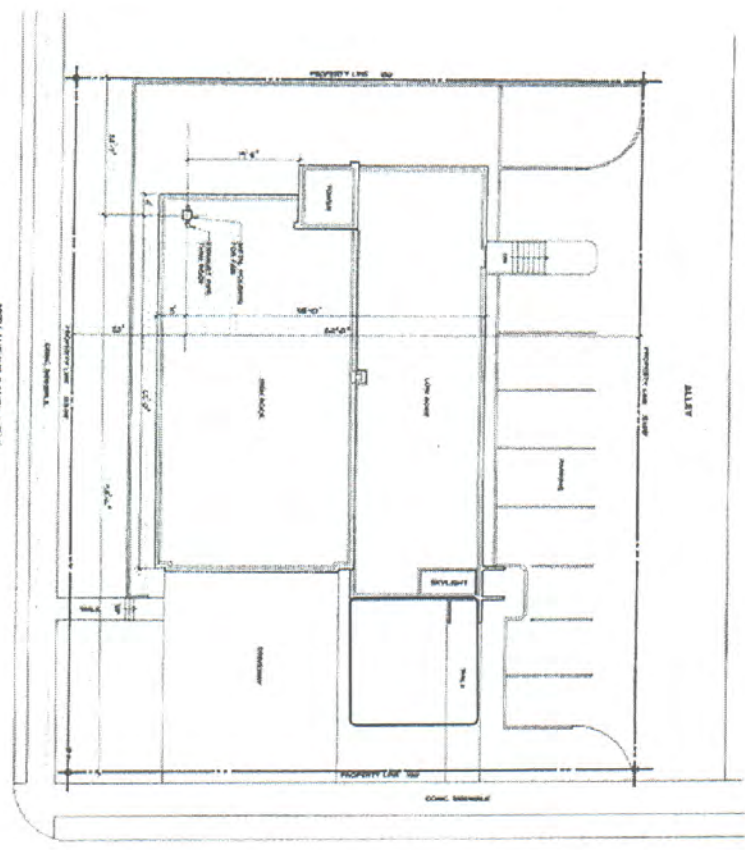


May 5, 2003



Fire Station No. 11





**PROGRAMMED OPERATIONAL REQUIREMENTS**

**Baseline:** 6,972  
 Neighborhood I  
 Engine (E11)  
 Reserve Ladder (1389)

**Supporting Operations**  
 None

**Emergency Cache**  
 None

**Future Operations**  
 None

**Total Program Square Footage:** 6,972  
**Program area not accommodated:** 713  
**Total Seismic/Safety Improvements Area:** 6,259

**PROGRAM COMPROMISES**

**Modifications to Program:**

- Physical Training (Program Size: 410) = Actual Size: 200
  - Apparatus Bays (Program Size: 2546) = Existing Size: 2095
  - Hose Dryer & Storage (Program Size: 120) = Existing Size: 90
  - Beamer (Program Size: 428) = Existing Size: 352
  - Mechanical/Electrical
  - Stairs
- Not included:**
- Accessible Restroom - App Bay Support
  - Report Desk/Dispatch Counter
  - Janitor - App. Bay Support
  - Lobby
  - Behavior



Architectural Site Plan/Floor Plans

**Test to Fit Diagram**

May 5, 2003

1002528



### Fire Station No. 13 - Battalion V

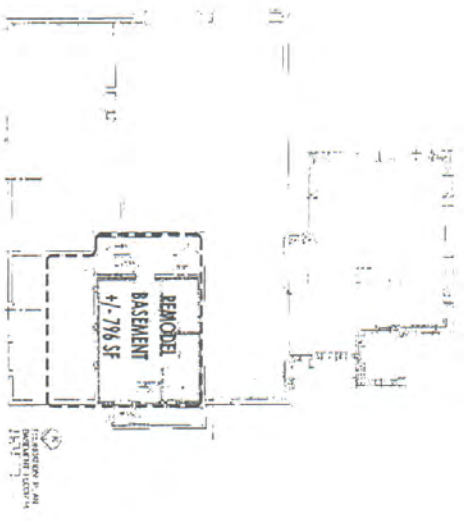
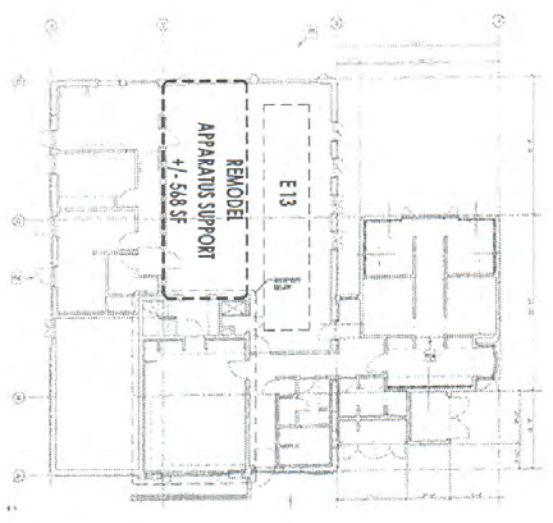
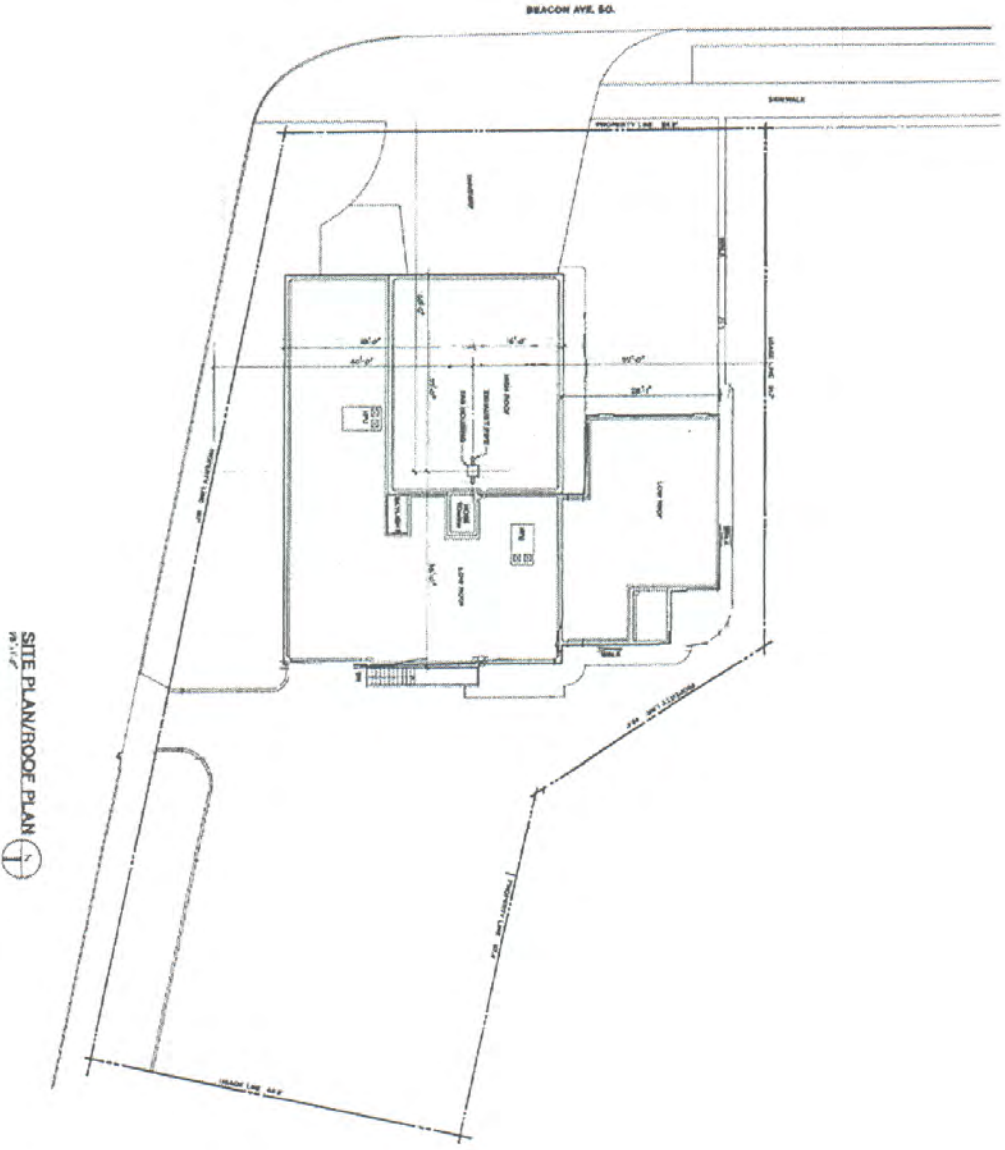
<b>Address:</b>	3601 Beacon Avenue S.
<b>Year Built:</b>	1925
<b>Station Category:</b>	Prior to 1954 and Historic
<b>Zoning:</b>	Res. SF 5000
<b>Site Area:</b>	14,439
<b>Existing S.F.</b>	5,020
<b>Station Condition:</b>	
Station 13, located on Beacon Hill, is a historic station. It was extensively remodeled and expanded in 1987. It is currently a battalion station, but is considered too small to serve that function. The battalion functions will be moved to Station 14, and interior reconfigurations and seismic upgrades will improve operations.	

<b>Planned Operational Requirements</b>
This station is planned to accommodate the following <b>Core Station Operations:</b>
Engine (E13)
<b>Total Seismic/Safety Improvement Area:</b> 5,020 SF

**PROJECT DESCRIPTION:**  
**SEISMIC/SAFETY IMPROVEMENTS** – This station will receive a minor seismic and safety upgrade. The entire facility will be upgraded to meet current seismic code. The basement and one of the apparatus bays will be remodeled to accommodate apparatus support areas such as decontamination, bunker gear storage, EMS storage and maintenance. This station is historic and consideration must be given to maintaining the existing appearance of the facility fenestration.

The site will remain as currently exists with a minimum of 4 on-site parking stalls.





**PROGRAMMED OPERATIONAL REQUIREMENTS**

Baseline:  
Neighborhood I 6,972  
Engine (E13)

**Supporting Operations**

None  
Emergency Cache  
None

**Future Operations**

None

Total Program Square Footage: 6,972  
Program Area not Accommodate: 1,992  
Total Seismic Safety Improvements Area: 5,020

**PROGRAM COMPROMISES**

**Modifications to Program:**

- Apparatus Bay (Program size: 340) = Actual size: 700
- Physical Training (Program size: 410) = Actual size: 200
- Hose Dyer/Storage (Program size: 120) = Existing size: 28
- Station Office/Lobby (Program size: 410) = Existing size: 728
- Brewery (Program size: 425) = Existing size: 425
- Bunk Rooms (Program size: 243) = Existing size: 388
- Locker Rooms (Program size: 162) = Existing size: 136
- Total/Storage Room (Program size: 182) = Existing size: 338

**Not Included:**

- Report Desk/Dispatch Center - Maintenance Work area
- In-App Bays
- Hoist Tower
- Janitor - App. Support, Admin, Crew
- Accessible Restroom - App. Support, Admin.
- Dayroom



Architectural Site Plan/Floor Plans

**Test to Fit Diagram**

May 5, 2003

1002528



### Fire Station No. 14 - Battalion V

Address:	3224 - 4th Avenue S.
Year Built:	1922
Station Category:	Prior to 1954 and Historic
Zoning:	Gen. Ind. 1 U/85
Site Area:	35,106
Existing S.F.	14,040

**Station Condition:**  
 Station 14, on Fourth Avenue South, is a historic station and the training facility for the Seattle Fire Department as well as a working fire station. The Department's training practices have outgrown the space available. The station has specialized response apparatus that are currently exposed to the weather because of lack of apparatus bay space. Building systems (roof, heating, electrical service) and equipment are old and should be replaced. It is structurally sound, but its location in a liquefaction zone may trigger the necessity of upgrading the existing piling foundation. Though it was extensively remodeled in 1987, building systems (roof, heating, electrical service) and equipment are old and should be replaced. The site is large enough to expand the station without compromising its historic character.

<b>Planned Operational Requirements</b>
<b>This station is planned to accommodate the following</b>
<b>Core Station Operations:</b>
Ladder (L7)
Aid (A14)
Battalion V Officer and Training (B5)
<b>Supporting Operations:</b>
South Rescue Unit (Van and Storage)
Tunnel Rescue Unit
Reserve Battalion Chief (B55) (98-3765)
<b>Future Operations:</b>
Medic Company
<b>Total Renovated and Expanded Area:</b> 19,348 SF

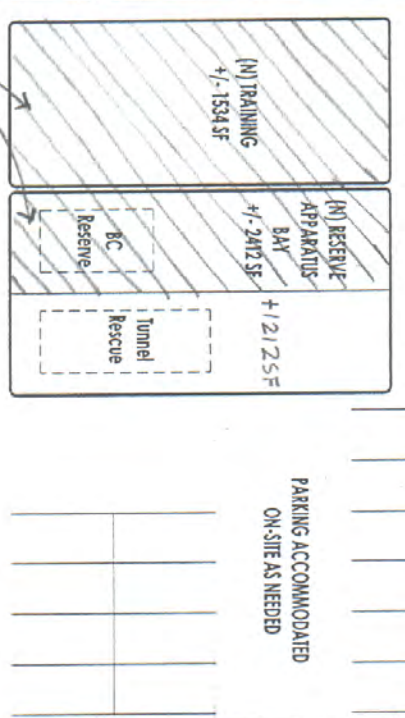
**PROJECT DESCRIPTION:**  
**MAJOR RENOVATION and EXPANSION** – The entire structure will be seismically upgraded and the interior reconfigured and expanded to accommodate modern fire operations. Careful structural consideration will be given to address the site location in a liquefaction zone. The existing floor area of 14,040 SF will be supplemented by an expansion of the existing fire station and the addition of a new building at the northeast corner of the site. The new building is designated to accommodate reserve apparatus and the BC training functions. The total expansion area, addition and new structure is 5,308 SF.

This historic structure requires careful consideration in the treatment to the existing front facade of the building. Of special concern is the existing apparatus bay doors. The width of the doors is too narrow to safely and efficiently operate modern fire apparatus. Two design options include widening the bay doors or removing the center column. A second concern is the careful placement of the addition so that it does not detract from the original character of the building. Retention of the historical character must be balanced with the mission of the facility which is to support fire operations.

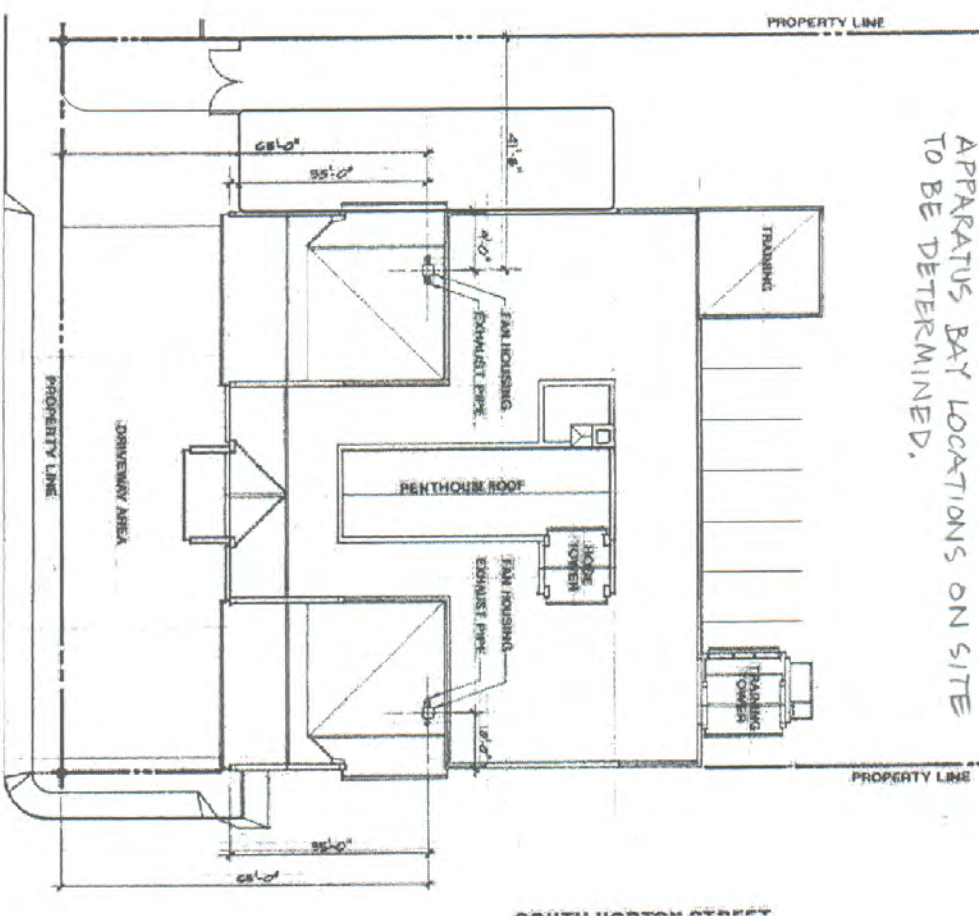
All required parking can be accommodated on site.



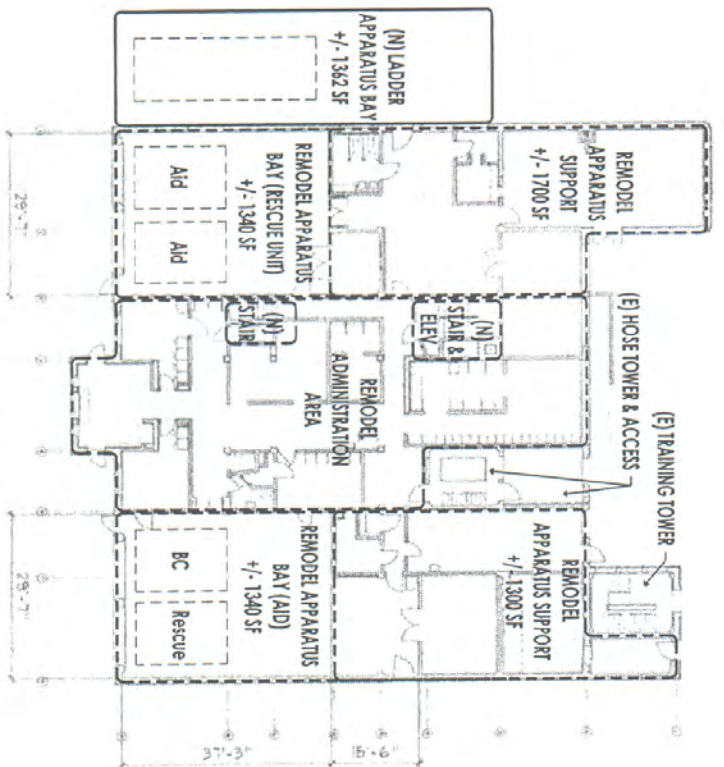
RAILWAY R/W  
PROPERTY LINE



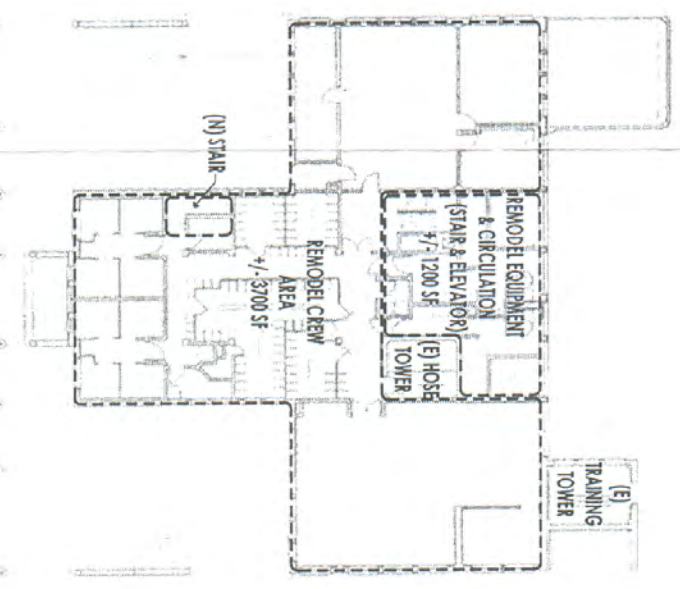
PARKING ACCOMMODATED ON-SITE AS NEEDED



FOURTH AVE. SOUTH



FIRST FLOOR PLAN  
SCALE: NTS



SECOND FLOOR PLAN  
SCALE: NTS

PROGRAMMED OPERATIONAL REQUIREMENTS

Baseline:	14,235
Battalion Ladder (L)	
Aid (AID)	
Battalion V Officer and Training (B)	
Supporting Operations	2,474
South Rescue Unit (Non and Storage)	2,674
Tunnel Rescue Unit	
Reserve-Battalion Chief (Res) (Res-3749)	
Emergency Cache	
Hoist	
Future Operations	
Medic Company	2,395
Total Program Square Footage:	20,504
Program area not accommodated	1,156
Total Renovation Expansion Area:	49,348
PROGRAM COMPROMISES	18,148
Modifications to program:	
- New rescue bay and storage (1362)	
- New Reserve apparatus (2412) (12,172)	
- New Battalion Chief (Res) (1362)	
- New Battalion Chief (Res) (1362)	
Not Included:	
- N/A	



Architectural Site Plan/Floor Plans

Test to Fit Diagram

May 5, 2003

1002528



### Fire Station No. 16 - Battalion VI

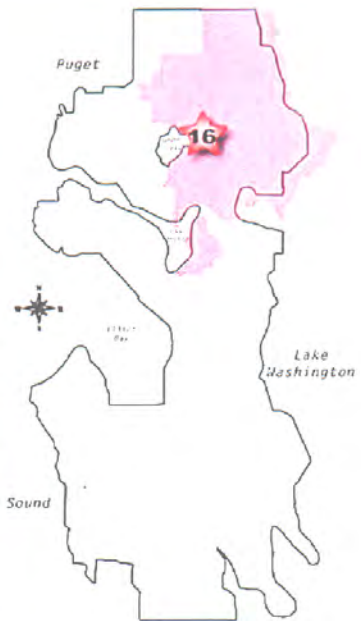
<b>Address:</b>	6846 Oswego Place NE
<b>Year Built:</b>	1927
<b>Station Category:</b>	Prior to 1954 and Historic
<b>Zoning:</b>	RM, Lowrise 3
<b>Site Area:</b>	7,441
<b>Existing S.F.</b>	5,000
<b>Station Condition:</b>	
Station 16, located at Green Lake, is a historic station. It was extensively remodeled in 1987. However, building systems (roof, heating, electrical service) and equipment are old and should be replaced. The site is not large enough to expand the station, but interior reconfigurations will improve operations.	

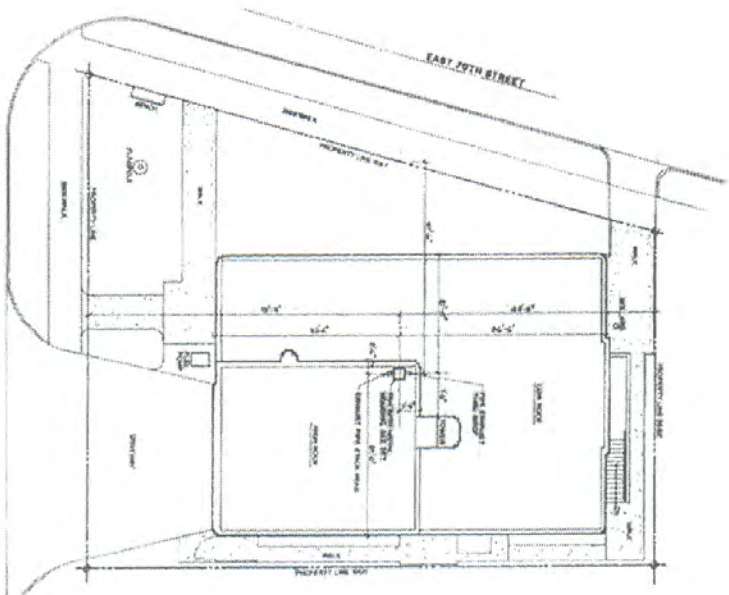
<b>Planned Operational Requirements</b>
This station is planned to accommodate the following <b>Core Station Operations:</b>
Engine (E16)
<b>Total Seismic/Safety Improvement Area:</b> 5,000

**PROJECT DESCRIPTION:**  
**SEISMIC/SAFETY IMPROVEMENTS** -- This station will receive moderate seismic and safety upgrades. The entire facility will be upgraded to meet current seismic code. Approximately half of the station will be remodeled to efficiently locate apparatus support functions such as decontamination, bunker gear storage, EMS Storage and maintenance. Medic 16 will move to Station 17.

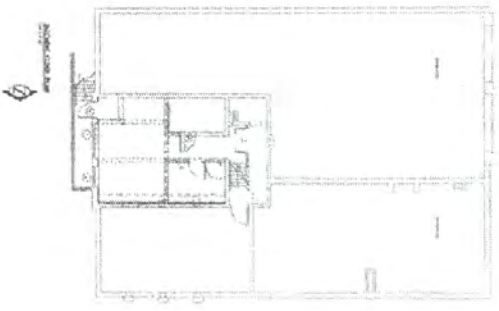
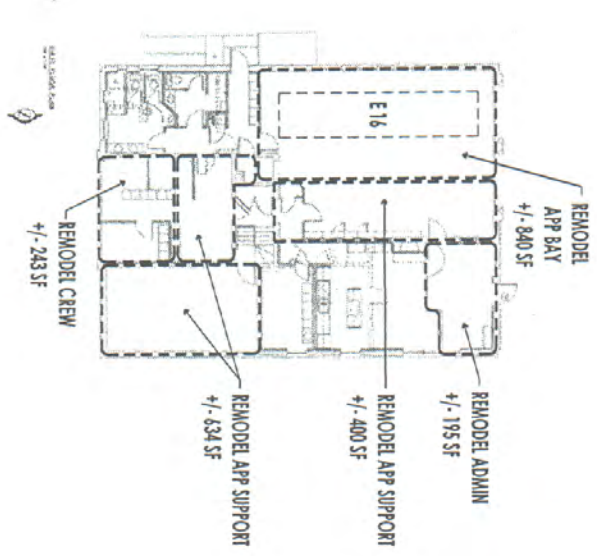
This historic structure requires careful consideration in the treatment to the existing front facade of the building. Of special concern is the existing apparatus bay doors. The width of the doors is too narrow to safely and efficiently operate modern fire apparatus. Removing the center column and creating of a single door design to match the character of the existing doors is a strong design option that could balance to need to retain the historical character of the station with the mission of the facility which is to support fire operations.

All existing parking will be retained on-site.





SITE PLAN/GRADE PLAN



**PROGRAMMED OPERATIONAL REQUIREMENTS**

Baseline:  
Neighborhood I 6,972  
Engine (E16)

Supporting Operations  
None

Emergency Cache  
None

Future Operations  
None

Total Program Square Footage: 6,972  
Program area not accommodated: 1,972  
Total Seismic/Safety Improvements Area: 5,000

**PROGRAM COMPROMISES**

**Modifications to Program:**

- Apprentice Bay (Program Size: 1340) = Actual Size: 840
  - Station Office/Lobby (Program Size: 410) = Actual Size: 195
  - Decon/Clean Room (Program Size: 200) = Actual Size: 170
  - Hose Dryer/Storage Alcove (Program Size: 120) = Existing Size: 40
  - Officer's Quarters (Program Size: 340) = Existing Size: 160
  - Physical Training (Program Size: 410) = Existing Size: 216
  - Laundry/Utility (Program Size: 90) = Existing Size: 70
  - Reentry (Program Size: 428) = Existing Size: 266
  - Toilet/Shower Rooms (Program Size: 162) = Existing Size: 308
  - Mechanical/Electrical
  - Stairs
- Not included:**
- Report Desk/Dispatch Center
  - Janitor - App Bay Support & Admin.
  - Unisex Restroom - App Bay Support & Admin.



Architectural Site Plan/Floor Plans

Test to Fit Diagram

May 5, 2003

1002528



### Fire Station No. 17 - Battalion VI

Address:	1050 NE 50th Street
Year Built:	1929
Station Category:	Prior to 1954 and Historic
Zoning:	RM, Low-rise 3
Site Area:	10,509
Existing S.F.	14,000 SF

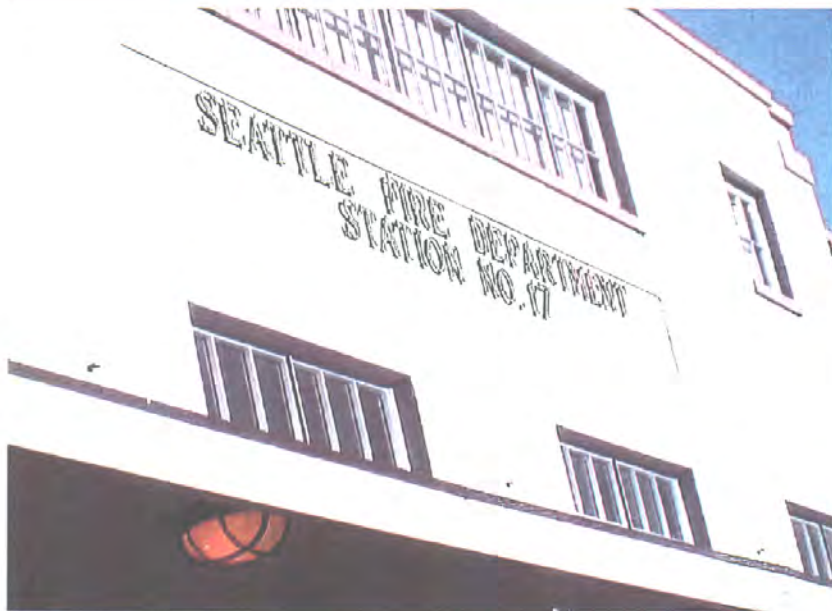
**Station Condition:**  
 Station 17 in the University District is historic and a battalion station. It was extensively renovated in 1988. Although the renovation included seismic bracing, more structural work is required to bring the station up to current standards. It is basically sound, but building systems (roof, heating, electrical service) and equipment are old and should be replaced. The station is too small to accommodate modern firefighting methods and apparatus, but the building can be expanded without compromising its historic character.

<b>Planned Operational Requirements</b>
This station is planned to accommodate the following
<b>Core Station Operations:</b>
Engine (E17)
Ladder (L9)
Medic (M17)
Battalion VI (B6) Officer and Training
<b>Supporting Operations:</b>
Tunnel Rescue No. 2
Battalion Reserve (B66) (98-3763)
<b>Future Operations:</b>
Medic Company ← Not included on ballot measure.
<b>Total Renovated and Expanded Area:</b> 22,110 SF

**PROJECT DESCRIPTION:**  
**MAJOR RENOVATION and EXPANSION** -- The entire structure will be seismically upgraded and the interior reconfigured and expanded to accommodate modern fire operations. The existing floor area of 14,000 SF will be supplemented by an expansion of the existing fire station to the northern side of the site. The addition is designated to accommodate the existing truck and engine as well as a reserve apparatus and tunnel rescue unit. The total expansion area is 8,110 SF.

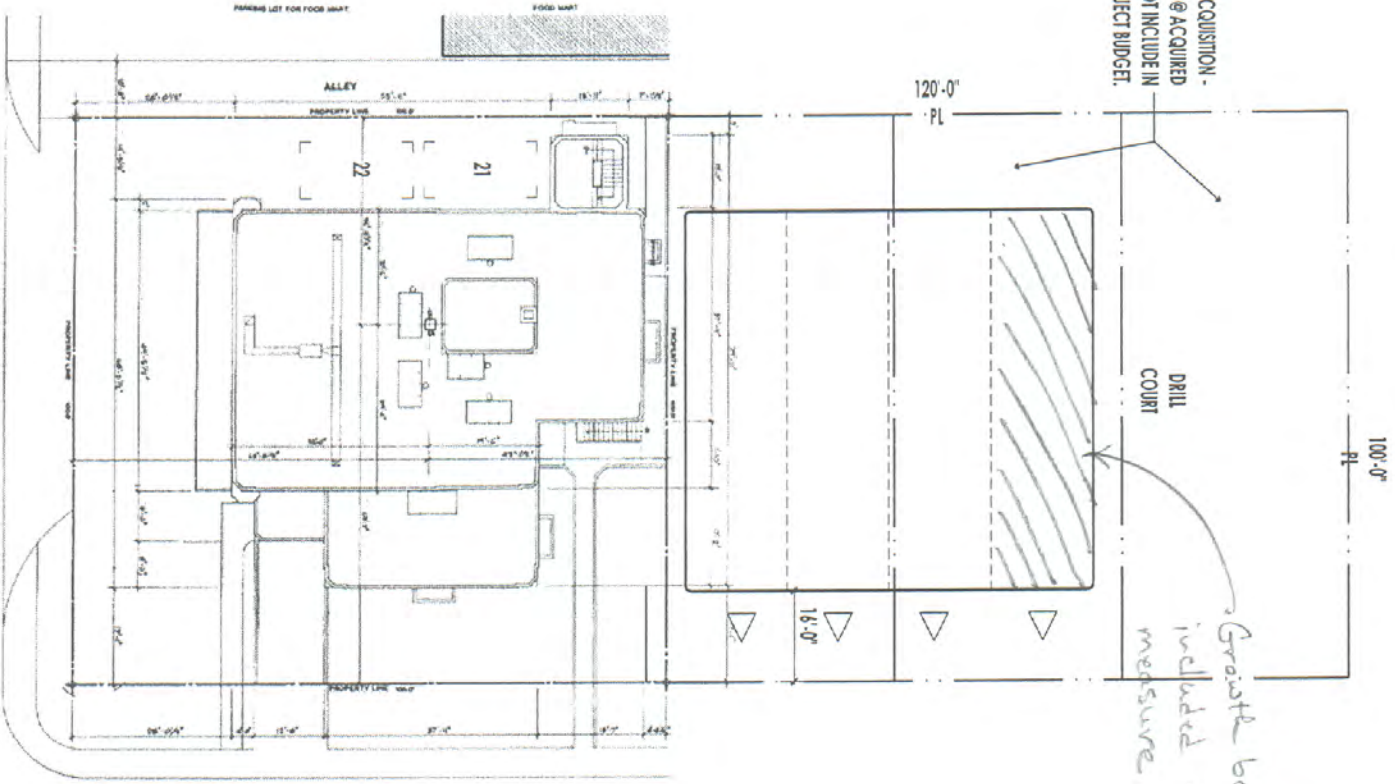
This historic structure requires careful consideration in the treatment to the existing south facing front facade of the building. Of special concern is the existing apparatus bay doors. The width of the doors is too narrow to safely and efficiently operate modern fire trucks and engines. To address this concern only medic units and BC sedans will respond from these bays and the doors will remain unaltered. The existing truck and engine will respond from the new addition. The addition is to be located to the rear of the building so that it does not detract from the original character. Retention of the historical character must be balanced with the mission of the facility which is to support fire operations.

All required parking can be accommodated on site.





PROPERTY ACQUISITION -  
SITE IMPROVEMENTS & ACQUIRED  
PROPERTY NOT INCLUDED IN  
PROJECT BUDGET:



31.00TH STREET  
SITE PLAN/ROOF PLAN

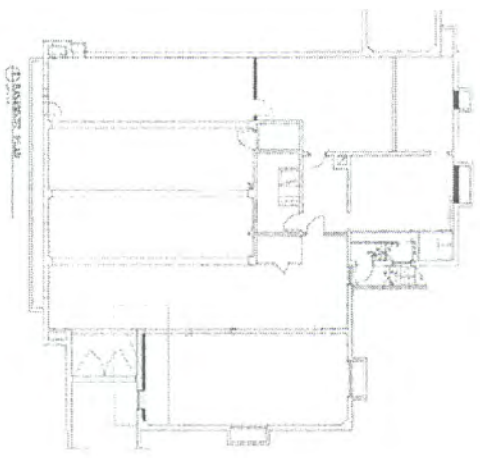
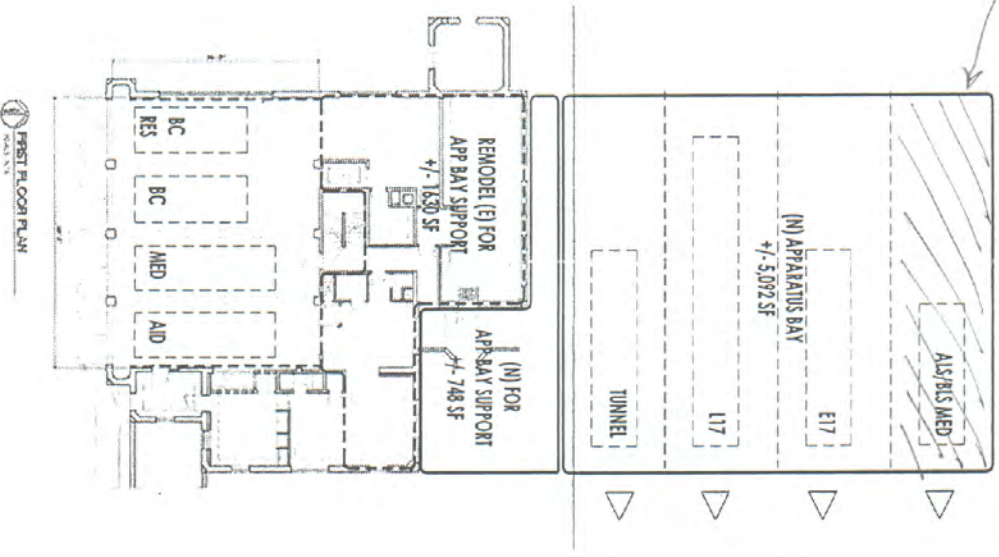
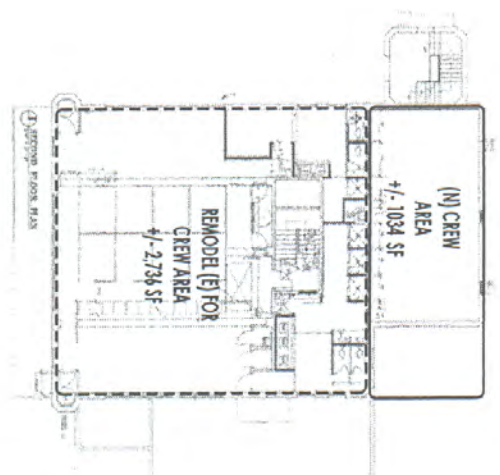
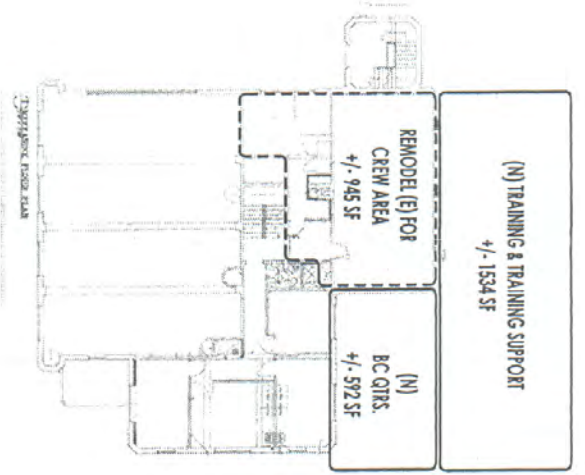
NOTE:  
ANNUAL SITE IMPROVEMENTS WERE BUDGETED FOR THE PROJECT.  
THE SCORE INCLUDES MINOR REPAIR & UTILITY MAIN REPLACEMENT.



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No. of employees: 10 • Annual revenue: \$1.5M • 13 years in business • Founded: 1981



**PROGRAMMED OPERATIONAL REQUIREMENTS**

Baseliner:	19,122
Battalion	
Engine (E17)	
Ladder (L17)	
Medic (M17)	
Battalion VI (B6) Officer and Training	

Supporting Operations	2,412
Tunnel Rescue No. 2	
Battalion Reserve (B6)(R6-3783)	

Emergency Cache	
None	

Future Operations	2,385
Medic Company	

Total Program Square Footage:	23,929
Program area not accommodated:	1,829
Total Renovation & Expansion Area:	22,110

**PROGRAM COMPROMISES**

- Modifications to program:**
- Apparatus Bays: Aid, BC, BC Res., Medic (Program Size: 4824) = Actual Size: 1760
  - Physical Training (Program Size: 490) = Actual Size: 200
  - Drill Platform (Program Size: 216) = Existing Size: 186
  - Lobby (Program Size: 140) = Existing Size: 122
  - Station Office (Program Size: 478) = Existing Size: 448
  - Dayroom (Program Size: 400) = Actual Size: 200
  - Equipment/ Cradition
  - Mechanical/Electrical
  - Stairs

- Not Included:**
- General Office Support Area
  - Receiving Area
  - Report Desk/Dispatch Counter
  - BC Storage
  - Hose Drying/Storage
  - Janitor - App Support, Admin., and Crew
  - Accessible Restrooms
  - Behavior



Architectural Site Plan/Floor Plans

Test to Fit Diagram

May 5, 2003

1002528



### Fire Station No. 18 - Battalion IV

Address:	1521 NW Market Street
Year Built:	1974
Station Category:	Seventies Station
Zoning:	NC3-85
Site Area:	19,982
Existing S.F.	21,000

**Station Condition:**  
 Station 18 is located in Ballard. It is a battalion station, and is one of the newer facilities. It is basically in good condition, but may require some additional seismic bracing to meet current codes. It also requires interior remodeling to accommodate essential storage and decontamination facilities.

#### Planned Operational Requirements

This station is planned to accommodate the following

#### Core Station Operations:

- Engine (E18)
- Ladder (L8)
- Medic (M18)
- Battalion IV Officer and Training (B4)

#### Supporting Operations:

- Ladder (L384)
- Reserve Battalion (B44) (98-3760)
- Reserve Hose 18 (H321)
- Reserve Medic (M/A97-5324)

Total Seismic/Safety Improvement Area: 21,000 SF

#### PROJECT DESCRIPTION:

**SEISMIC/SAFETY IMPROVEMENTS** – The station will receive minor safety improvements. The structure does not require a seismic upgrade. The basement and a small portion of the apparatus bay will be remodeled to accommodate apparatus support functions such as decontamination, bunker gear storage, EMS storage and maintenance. The station is in need of a complete mechanical system upgrade which has been included as a part of this work.

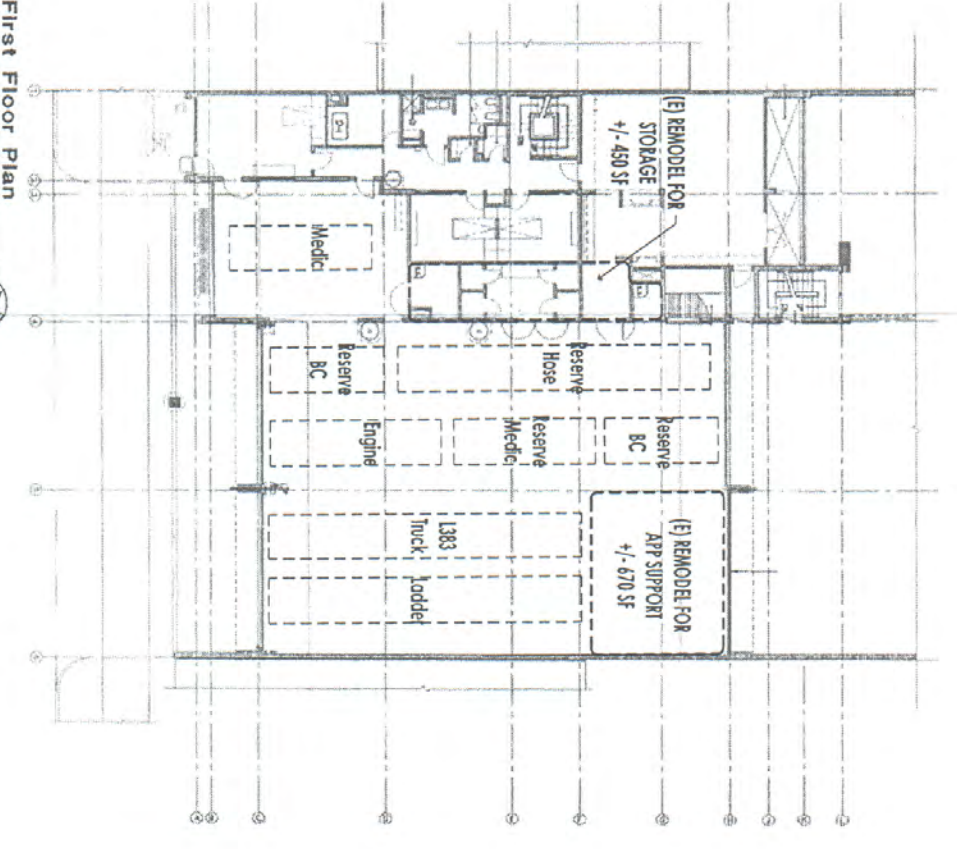
All required parking will remain on site.



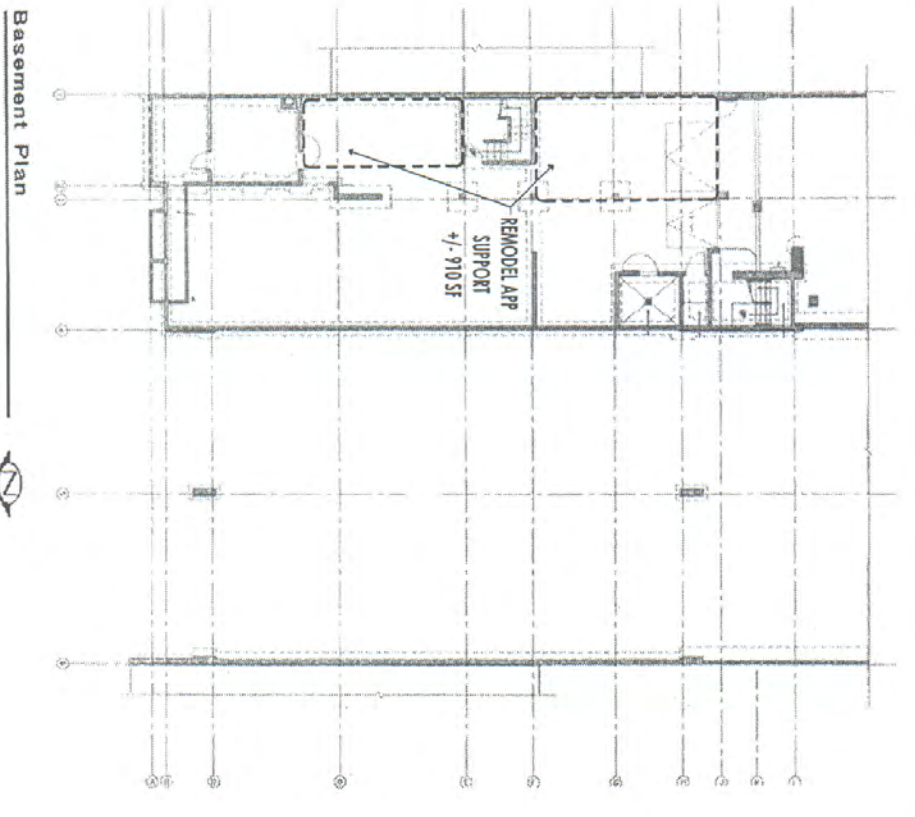


- Not Included:**
- Report Desk/Dispatch Counter
  - Battery Charging
  - Janitor - App. Support.
  - Accessible Restroom - App. Support. Admin.
  - Tote/Chair Storage
  - Service Area

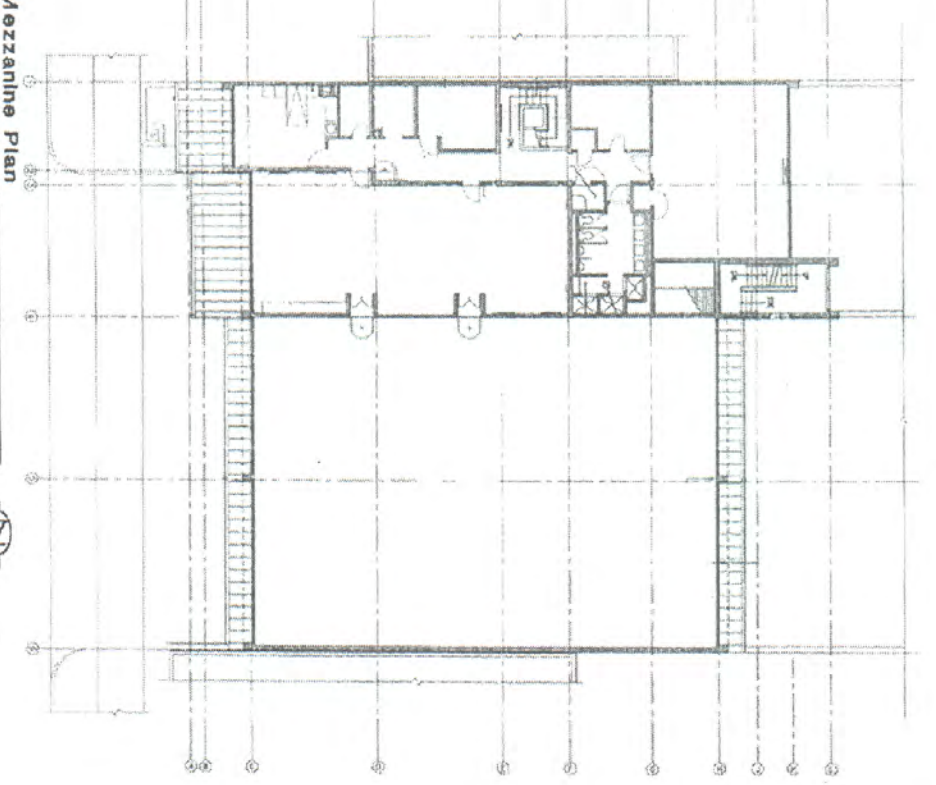
<b>PROGRAMMED OPERATIONAL REQUIREMENTS</b>	
<b>Baseline:</b>	17,916
Battalion	
Engine (E)9	
Ladder (L)8	
Medic (M)8	
Battalion IV Officer and Training (B)I	
<b>Supporting Operations</b>	4,824
Ladder (L)384	
Reserve Battalion (B)41 (98.376)	
Reserve Hose (H)82(21)	
Reserve Medic (M)197-382(4)	
<b>Emergency Cache</b>	
None	
<b>Future Operations</b>	
None	
<b>Total Program Square Footage:</b>	22,740
Program area not accommodated:	1,740
<b>Total Seismic/Safety Improvement Area:</b>	21,000



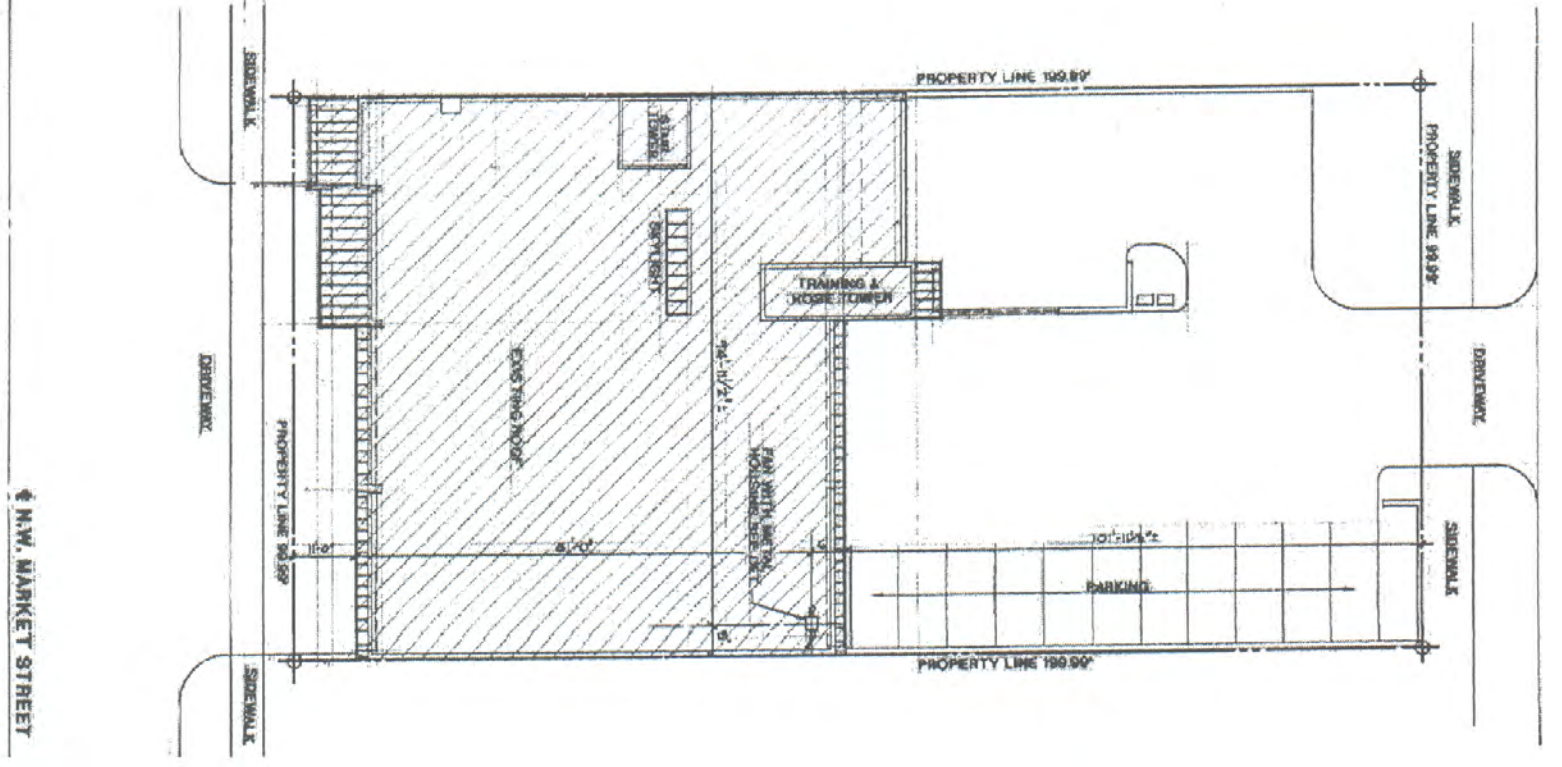
First Floor Plan



Basement Plan



Mezzanine Plan



SITE PLAN / ROOF PLAN



4 N.W. MARKET STREET



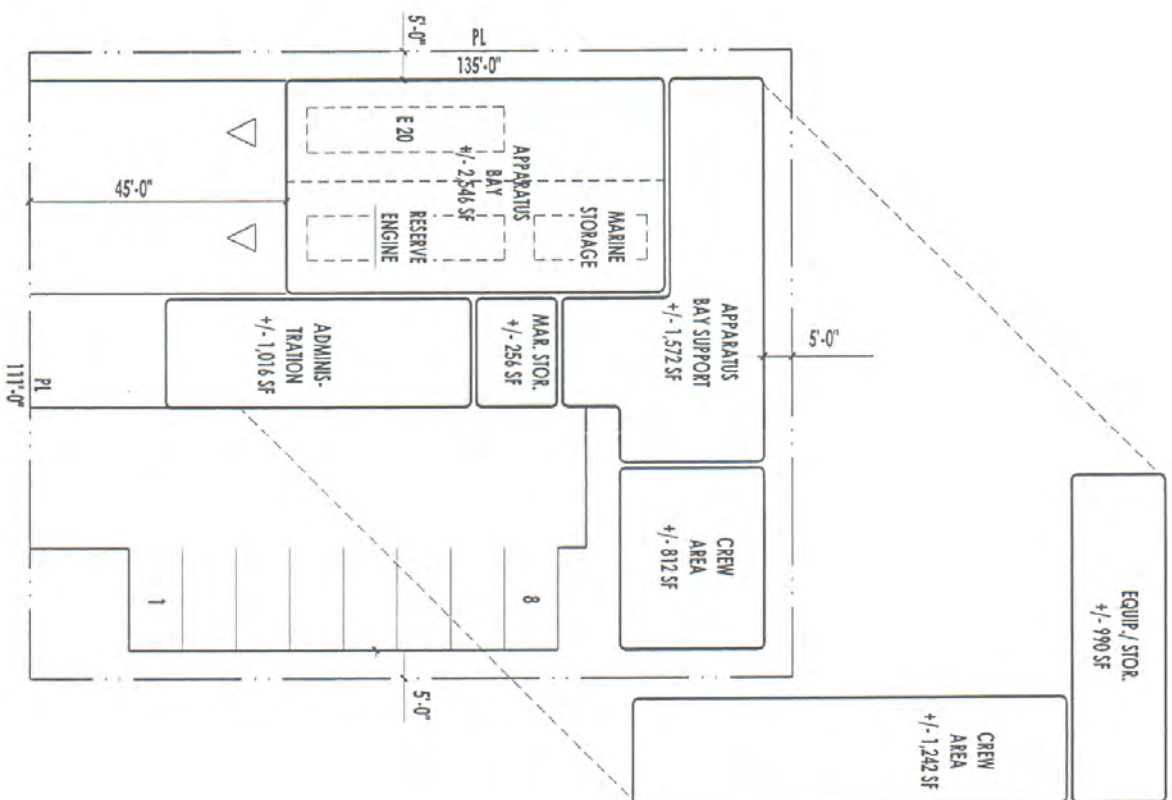
### Fire Station No. 20 - Battalion IV

<b>Address:</b>	3205 13th Ave. NW
<b>Year Built:</b>	1949
<b>Station Category:</b>	Prior to 1954
<b>Zoning:</b>	Res 5000
<b>Site Area:</b>	5,998
<b>Existing S.F.</b>	2,860
<b>Station Condition:</b>	
Station 20 in West Queen Anne is in poor condition, due to its age and type of construction. It cannot be adequately renovated to meet modern firefighting operations and apparatus, and requires replacement.	

<b>Planned Operational Requirements</b>	
This station is planned to accommodate the following	
<b>Core Station Operations:</b>	
Engine (E20)	
<b>Supporting Operations:</b>	
Marine Support	
Reserve Engine	
<b>Total Replacement Square Footage:</b>	8,434 SF

**PROJECT DESCRIPTION:**  
**REPLACEMENT --** This station will be replaced on a new site. It is 54 years old and has reached its useful life in terms of building systems and operational efficiencies. The replacement facility will be two stories and located in West Queen Anne. A site close to the waterfront is desired as this station accommodates a marine support unit.  
 All required parking will be provided on site.





**PROGRAMMED OPERATIONAL REQUIREMENTS**

<b>Baseline:</b>	
Neighborhood I	6,972
Engine (E20)	
<b>Supporting Operations</b>	1,462
Marine Storage	
Reserve Engine	
<b>Emergency Cache</b>	
None	
<b>Future Operations</b>	
None	

Total Program Square Footage: 8,434  
 Program Area not Accommodated: 0  
 Total Replacement Area: 8,434

**PROGRAM COMPROMISES**

Modifications to program:  
 - N/A

Not included:  
 - N/A

**PROTOTYPE STATISTICS:**

SITE AREA: 14,935 SF  
 TOTAL FLOOR PLAN AREA: 8,434 SF

Note: areas include 20% increase for circulation/structure



PROTOTYPE NI + R + Marine Stor.: Architectural Site Plan-Floor Plans



### Fire Station No. 21 - Battalion IV

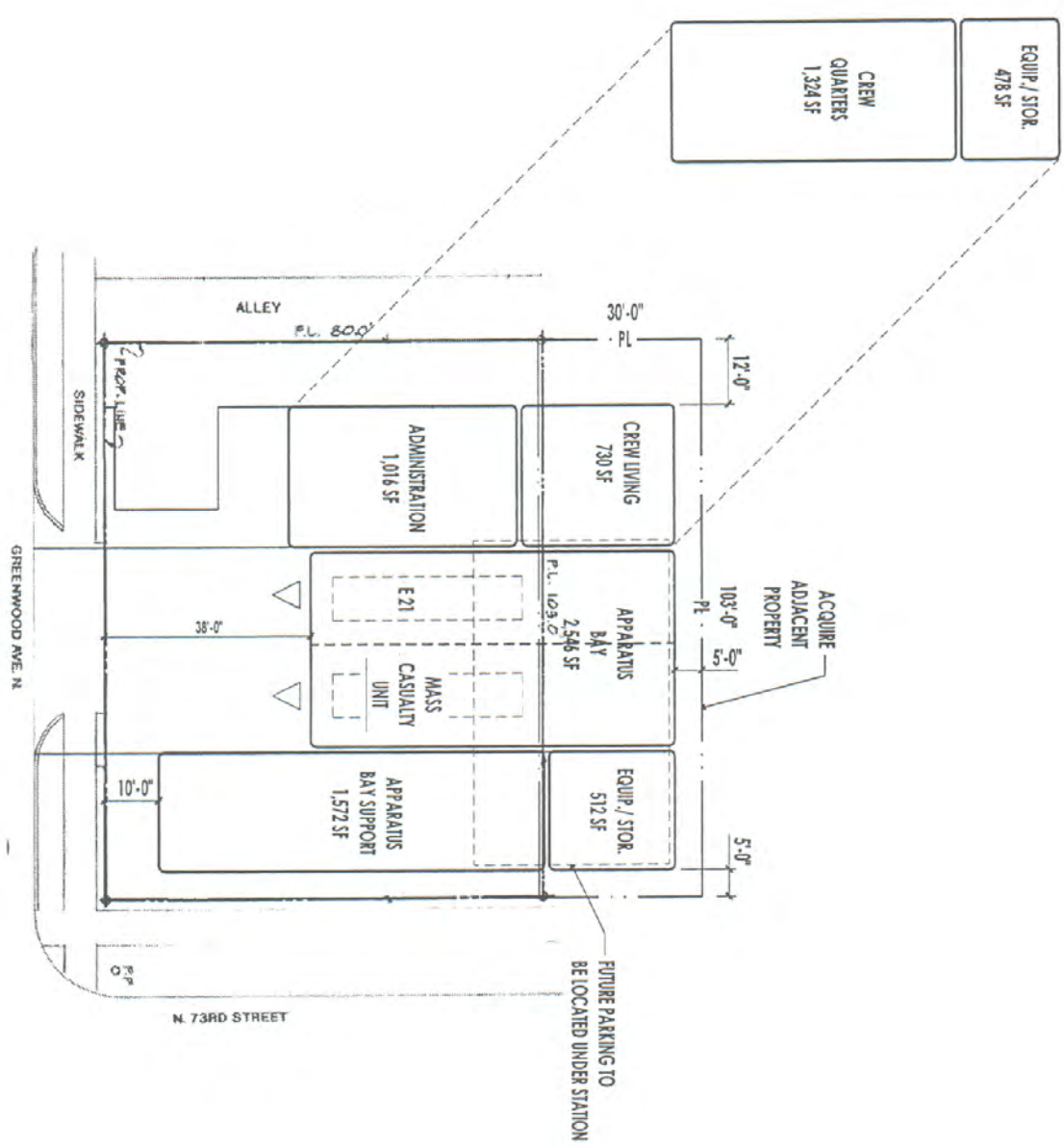
**Address:** 7304 Greenwood Ave N.  
**Year Built:** 1951  
**Station Category:** Prior to 1954  
**Zoning:** NC 2 40  
**Site Area:** 8,223  
**Existing S.F.** 3,961

**Station Condition:**  
 Station 21 is located in Greenwood. The building systems (roof, heating, electrical service) and equipment are old and should be replaced. The station has inadequate space for modern apparatus and staffing levels, and is out of regulatory compliance in many areas. The building requires replacement.

**Planned Operational Requirements**  
 This station is planned to accommodate the following  
**Core Station Operations:**  
 Engine (E21)  
  
**Supporting Operations:**  
 Mass Casualty Unit  
  
**Total Replacement Square Footage:** 8,178 SF

**PROJECT DESCRIPTION:**  
**REPLACEMENT** – This station will be replaced on the existing site with adjacent property acquisition. The existing 52-year old station has reached its useful life in terms of building systems, operational efficiencies and site capacity. The replacement facility will be two stories and all required parking will be provided on site.





**PROGRAMMED OPERATIONAL REQUIREMENT**

Baseline:	
Neighborhood I	6,972
Engine 21	
Supporting Operations	
Mass Casualty Unit	1,206
Emergency Cache	
None	
Future Operations	
None	
Total Program Square Footage:	8,178
Program Area not Accommodated:	0
Total Replacement Area:	8,178
<b>PROGRAM COMPROMISES</b>	
Modifications to program:	
- None	
Not included:	
- N/A	



PROTOTYPE N1 + MCU: Architectural Site Plan/Floor Plans

**Test to Fit Diagram**

May 5, 2003

1002528



### Fire Station No. 22 - Battalion VI

Address: 901 E. Roanoke Street  
 Year Built: 1964  
 Station Category: Sixties Station  
 Zoning: Res, SF 5000  
 Site Area: 11,218  
 Existing S.F.: 4,200

**Station Condition:**  
 Station 22 is located on North Capitol Hill. The building systems (roof, heating, electrical service) and equipment are old and should be replaced. The station has inadequate space for modern apparatus and staffing levels, and is out of regulatory compliance in many areas. The building requires replacement.

#### Planned Operational Requirements

This station is planned to accommodate the following

#### Core Station Operations:

Engine (E22)

#### Supporting Operations:

Incident Command Vehicle

**Total Replacement Square Footage: 8,178 SF**

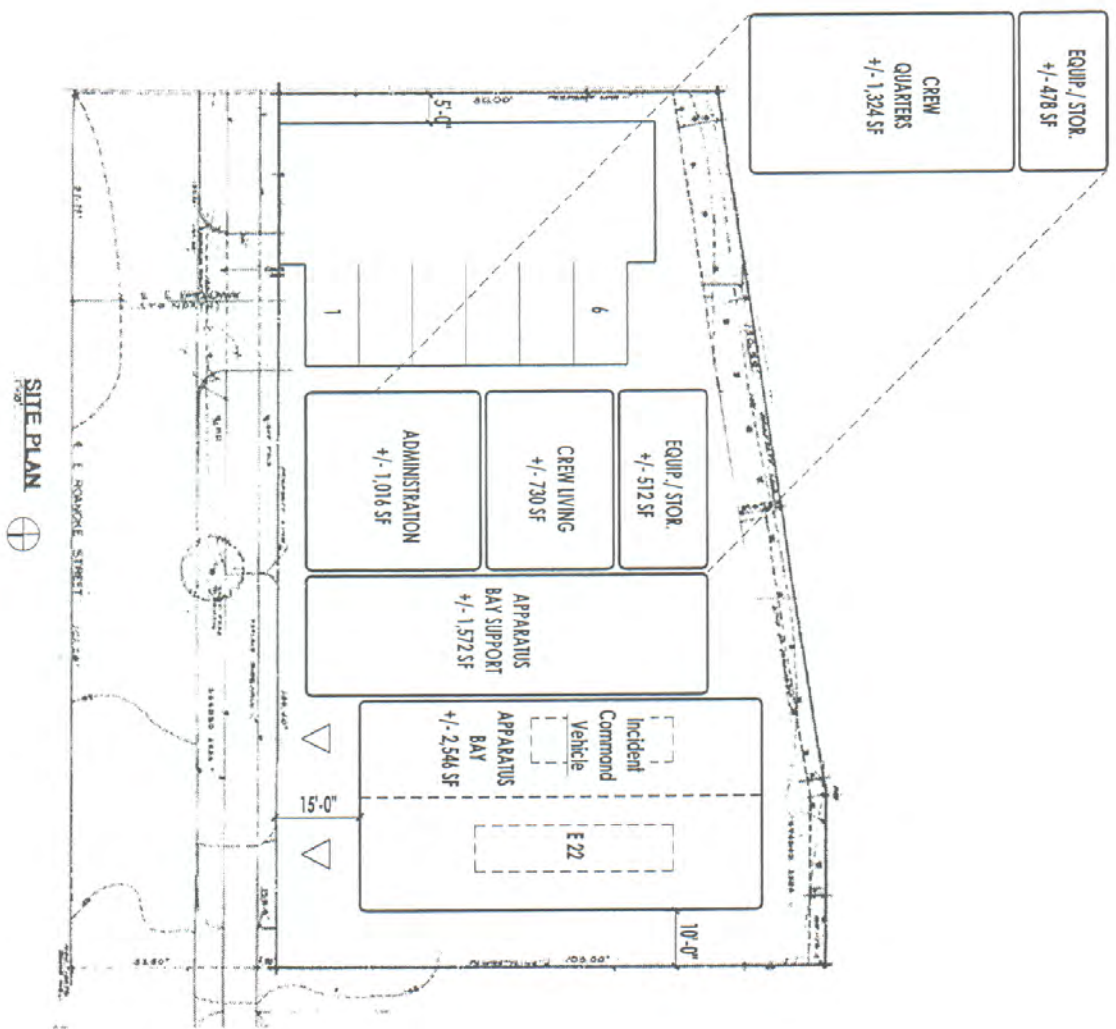
#### PROJECT DESCRIPTION:

**REPLACEMENT** -- This station will be replaced on the existing site. The building has reached its useful life in terms of building systems, site and operational efficiencies. The intersection immediately east of the site is often congested therefore consideration must be given to the placement of the apparatus bays. The station layout places the apparatus bays to the far west end of the site allowing the most distance from the adjacent intersection to the apron.

The replacement station will be two stories and six parking spaces will be provided on site.







SITE PLAN

**PROGRAMMED OPERATIONAL REQUIREMENTS**

Baseline:	
Neighborhood I	6,972
Engine (E22)	
Supporting Operations	
Incident Command Vehicle	1,206
Emergency Cache	
None	
Future Operations	
None	
Total Program Square Footage:	8,178
Program area not Accommodated:	0
Total Building Square Footage:	8,178
<b>PROGRAM COMPROMISES</b>	
Modifications to program:	
- None	
Not Included:	
- N/A	



PROTOTYPE NI + R: Architectural Site Plan/Floor Plans

**Test to Fit Diagram**

May 5, 2003

1002528



### Fire Station No. 24 - Battalion IV

Address:	401 N 130th Street
Year Built:	1975
Station Category:	Seventies Station
Zoning:	Res. SF 7200
Site Area:	15,640
Existing S.F.	4,680

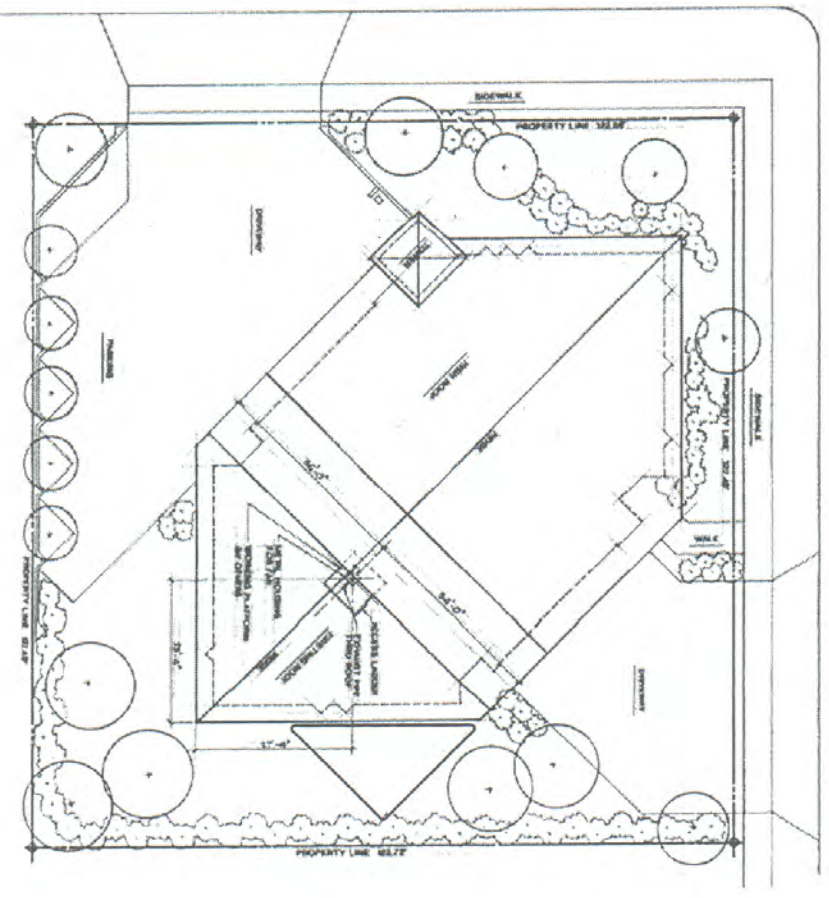
**Station Condition:**  
 Station 24 is located in the Bitter Lake neighborhood. It is one of the newer facilities. It is basically in good condition, but requires some additional seismic bracing to meet current codes. It also requires interior remodeling to accommodate essential storage and decontamination facilities.

<b>Planned Operational Requirements</b>
<b>This station is planned to accommodate the following</b>
<b>Core Station Operations:</b>
Engine (E-24)
<b>Supporting Operations:</b>
Engine (319)
<b>Total Seismic/Safety Improvement Area:</b> 4,970 SF

**PROJECT DESCRIPTION:**  
**SEISMIC/SAFETY IMPROVEMENTS** – This station will receive minor seismic and safety upgrades and a small addition. The entire station, 4,680 SF will be seismically retrofitted. 2,286 SF of the existing facility will be remodeled to efficiently locate apparatus support functions such as decontamination, bunker gear storage, EMS storage and maintenance. A portion of the remodeled area and the addition of 290 SF will accommodate crew living/administrative areas displaced by the apparatus support functions. There will be minor changes to the building exterior at the northeast elevation due to the addition.  
  
 The site will remain as currently exists with 5 parking spaces on site.



NORTH SOUTH STREET



**PROGRAMMED OPERATIONAL REQUIREMENTS**

Baseline:	6,972
Neighborhood 1 Engine (E24)	
Supporting Operations Engine (S19)	1,206
Emergency Cache	
Future Operations	
Note	
Total Program Square Footage:	8,178
Program area not Accommodated:	3,208
Total Building Square Footage:	4,970

**PROGRAM COMPROMISES**

- Modifications to Program:**
- Apparatus Bay - (Program size: 2680) = Existing Size: 1976
  - Boiler Chasing (Program size: 24) = Existing Size: 12
  - Dispatch Alcove (Program size: 24) = Existing Size: 12
  - Hose Drying and Storage (Program size: 120) = Existing Size: 100
  - Office (Watch) - (Program size: 270) = Existing Size: 205
  - Officers Quarters (Program size: 340) = Existing Size: 270
  - Berthing (Program size: 240) = Existing Size: 75
  - Dining Area (Program size: 248) = Existing Size: 96
  - Dayroom (Program size: 266) = Existing Size: 145
  - Physical Training (Program size: 410 SF) = Existing Size: 200

**Not Included:**

- Maintenance Alcove (Program size: 100)
- Compressor (Program size: 20)
- Major Diesel Storage (Program size: 80)
- Accessible Public Restroom (Program size: 60)
- Stairs (Program size: 320)
- Behavior (Program size: 112)



Architectural Site Plan/Floor Plans

**Test to Fit Diagram**

May 5, 2003

1002528



### Fire Station No. 25 - Battalion II

Address:	1300 E Pine Street
Year Built:	1969
Station Category:	Sixties Station
Zoning:	NC 3-40
Site Area:	23,076
Existing S.F.	18,000

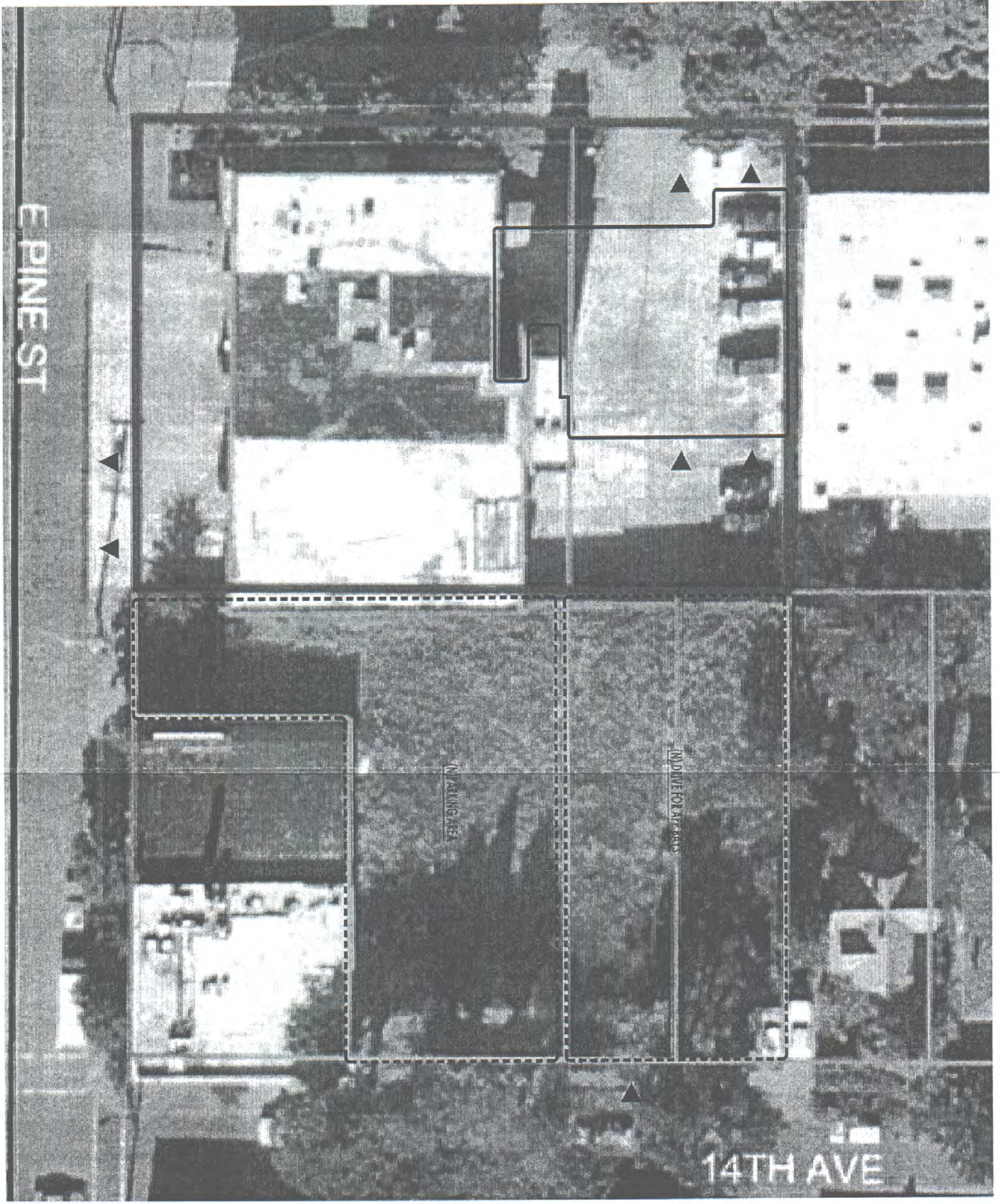
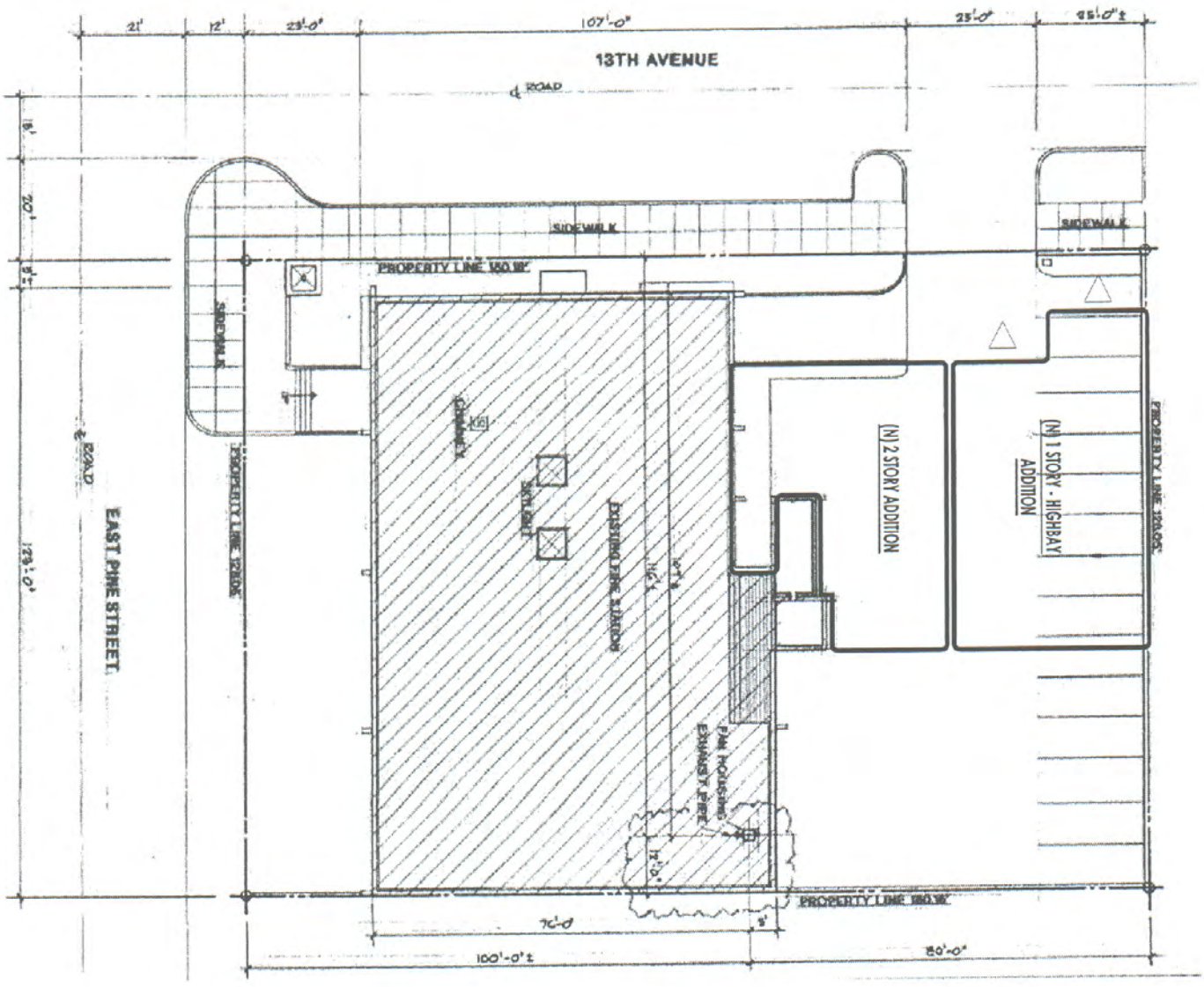
**Station Condition:**  
 Station 25, located on Capitol Hill, is a battalion station, and a classroom station for multiple battalions. It is one of the newer facilities. It is basically in good condition, but requires some minor additional seismic bracing to meet current codes. It also requires interior remodeling to accommodate essential storage and decontamination facilities.

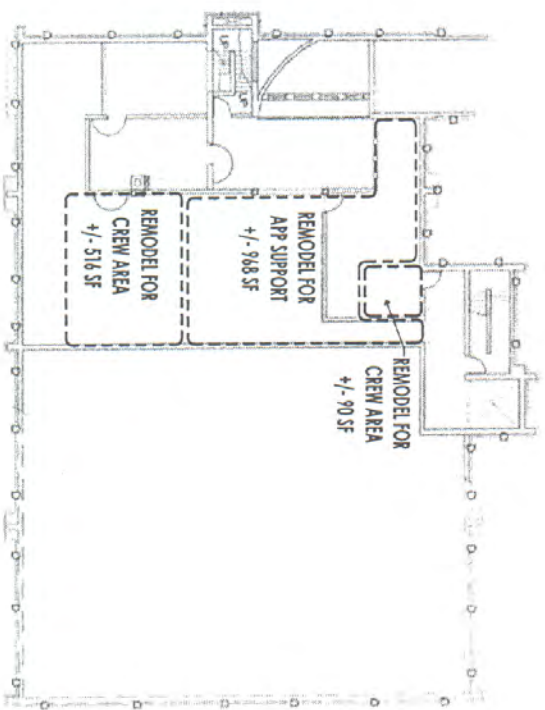
<b>Planned Operational Requirements</b>
This station is planned to accommodate the following
<b>Core Station Operations:</b>
Engine (E25)
Ladder (L10)
Aid (A25A)
Battalion II Training Only (B2) (Officer at Station 2)
<b>Supporting Operations:</b>
Reserve Aid Car (H317)
Reserve Ladder (L383)
Hose Unit (Hose 25)
Power Unit (Power 25)
<b>Future Operations:</b>
Medic Company
<b>Total Seismic/Safety Improvement Area:</b> 18,560 SF

**PROJECT DESCRIPTION:**  
**SEISMIC/SAFETY IMPROVEMENTS** – This station will receive a minor seismic and safety upgrade with a small addition. The entire existing structure of 18,000 SF will be seismically retrofitted. 2,741 SF of the facility will be remodeled to efficiently locate apparatus support functions such as decontamination, bunker gear storage, EMS storage and maintenance. The 560 SF addition will also accommodate these functions. A portion of the remodel will accommodate relocated firefighter crew functions. There will be minor changes to the North and West elevations.

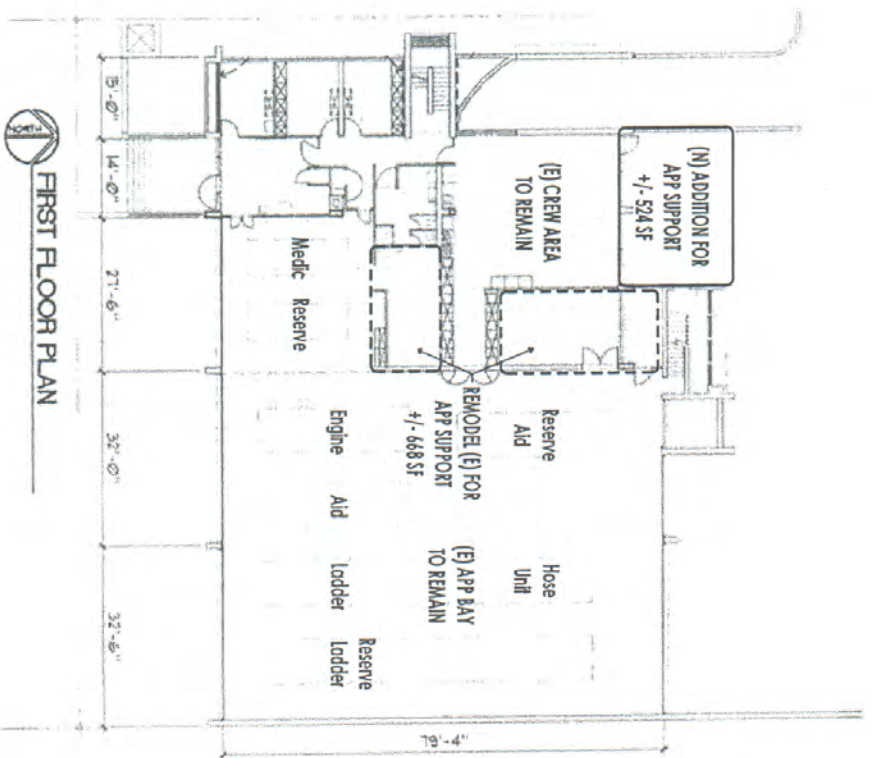
The site will remain as currently exists with parking provided to the North of the station and off-street.



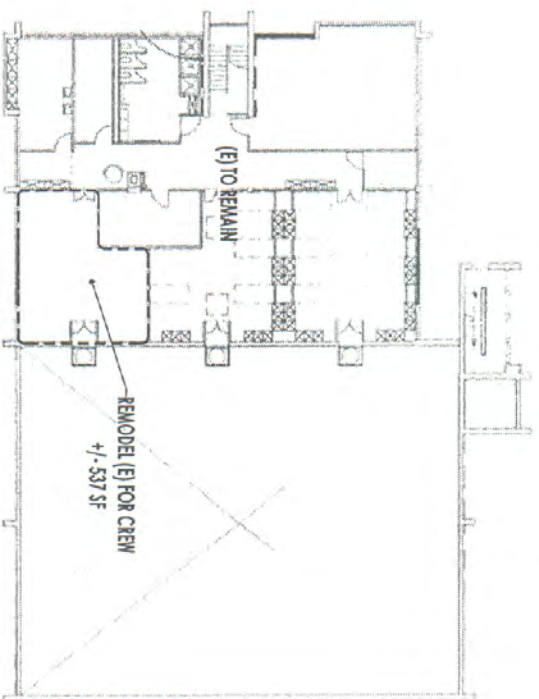




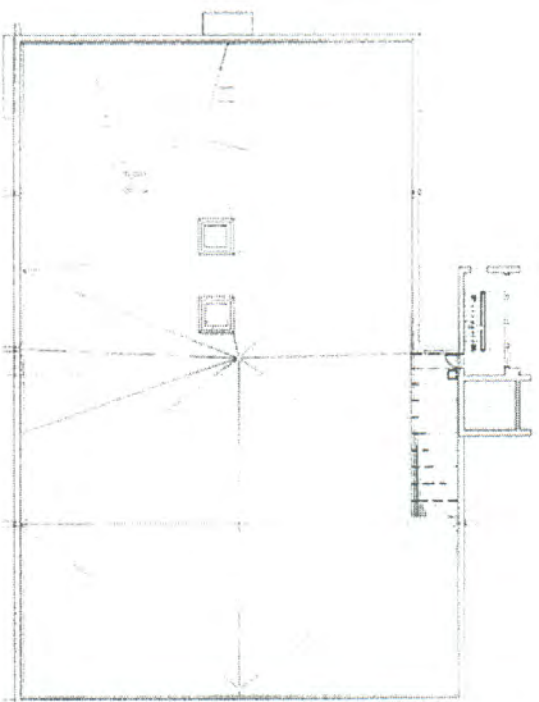
**BASEMENT FLOOR PLAN**



**FIRST FLOOR PLAN**



**SECOND FLOOR PLAN**



**ROOF PLAN**

**PROGRAMMED OPERATIONAL REQUIREMENTS**

Baseline:	15,157
Neighborhood III	
Engine (E2)	
Ladder (L10)	
Aid (A25A)	
Bottom Hoisting (B2) - Officer at Station 2	
<b>Supporting Operations</b>	<b>3,618</b>
Reserve Aid Car (R317)	
Reserve Ladder (L383)	
Hose Unit (Hose 25)	
Power Unit (Power 25)	
<b>Emergency Cache</b>	<b>2,395</b>
None	
<b>Future Operations</b>	
Medic Company	

Total Program Square Footage:	21,170
Program Area not Accommodated:	2,610
Total Building Square Footage:	18,580

**PROGRAM COMPROMISES**

**Modifications to program:**

- Decontamination (Program Size: 250) = Actual Size: 226
- Classroom (Including function) - upstair to remain [Program size: 1038] = Existing size: 618
- Bunk Rooms [Program Size: 774] = Existing Size: 1219
- Hose storage/drying lower [Program Size: 120] = Existing Size: 100
- Physical Training (Program Size: 480) = Existing Size: 1120
- Offices - Existing to remain
- Bed/Comm/Mech. Rooms

**Not Included:**

- Report Desk/Dispatch Counter
- Janitor - App.
- rest room - App.
- Janitor - Second Floor
- Table/ Chair Storage
- Service Area
- Training Storage



**Architectural Site Plan/Floor Plans**

**Test to Fit Diagram**

May 5, 2003

1002528





### Fire Station No. 26 - Battalion VII

Address:	800 S. Cloverdale Street
Year Built:	1972
Station Category:	Seventies Station
Zoning:	NC 2-40
Site Area:	17,957
Existing S.F.	5,900 SF

**Station Condition:**  
 Station 26, located in the South Park neighborhood, is one of the newer facilities. It is basically in good condition, but may require some additional seismic bracing to meet current codes. It also requires interior remodeling to accommodate essential storage and decontamination facilities.

#### Planned Operational Requirements

This station is planned to accommodate the following

#### Core Station Operations:

Engine (E26)

#### Supporting Operations:

Air 26 with Cylinder Storage

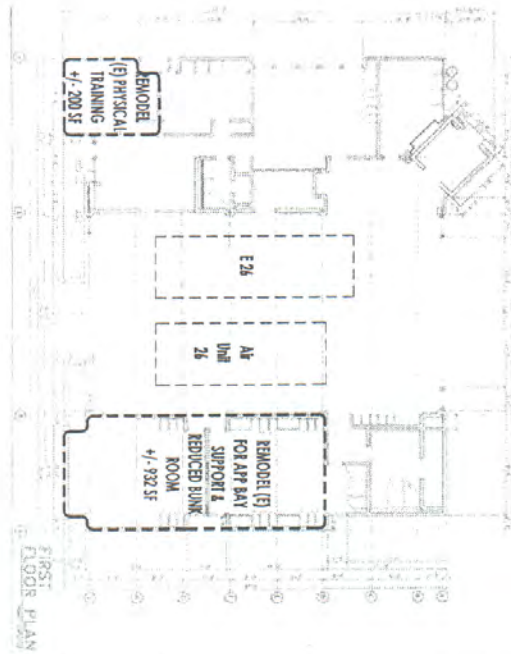
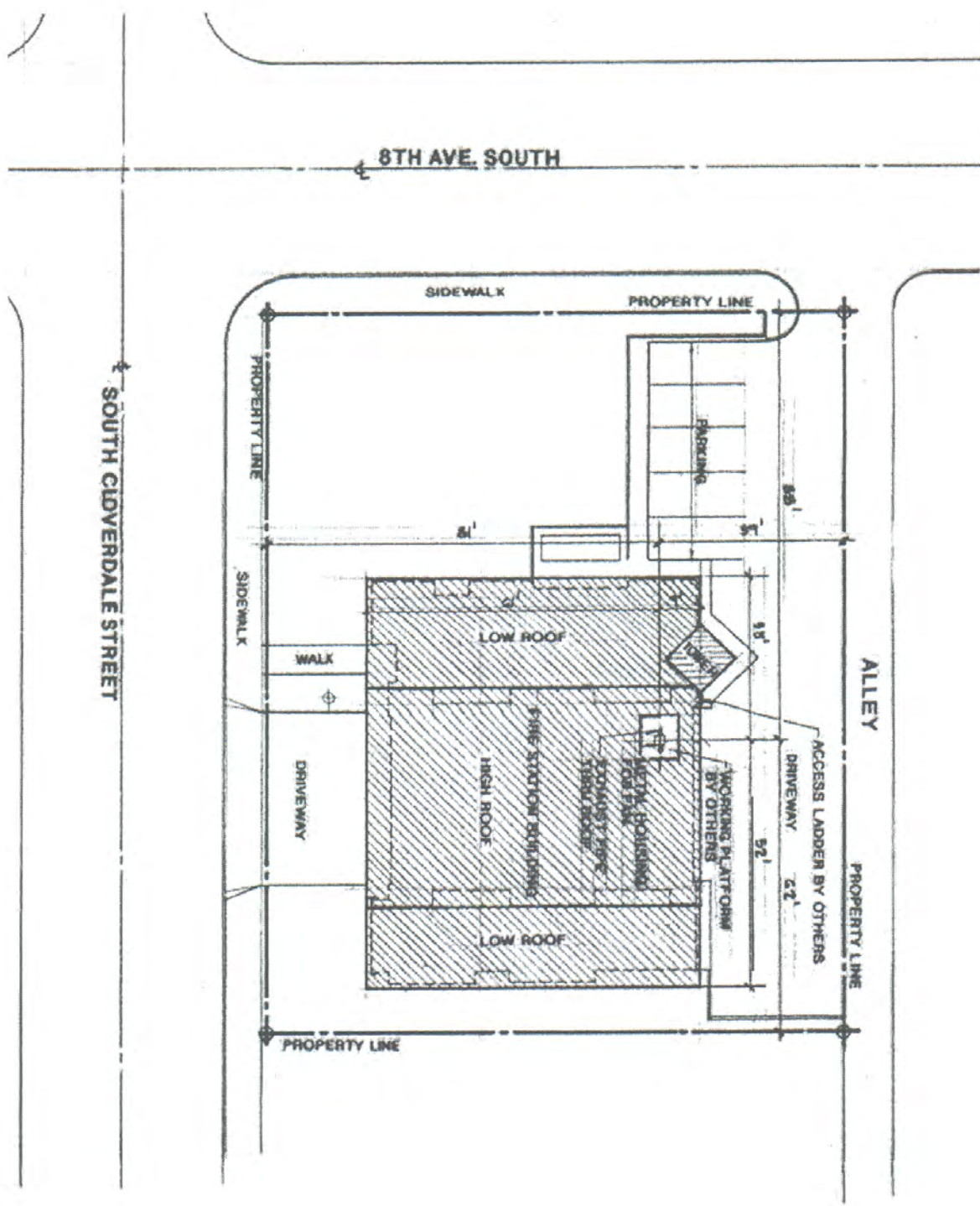
Total Seismic/Safety Improvement Area: 5,900 SF

#### PROJECT DESCRIPTION:

**SEISMIC/SAFETY IMPROVEMENTS:** This station will receive a minor seismic and safety upgrade. The entire structure will be seismically retrofitted. 1,132 Sf of the existing station will be remodeled to allow a more efficient use of the existing crew quarters and accommodate dedicated space for apparatus support functions such as decontamination, bunker gear storage, EMS storage and maintenance.

The site will remain as currently exists with 8 on-site parking spaces.





**PROGRAMMED OPERATIONAL REQUIREMENTS**

Baseline: NI	6,972
Engine (E26)	
Supporting Operations	1,206
A1/A2 with Officer Storage	
Emergency Cache	
None	
Future Operations	
None	

Total Program Square Footage:	8,178
Programmed Area not Accommodated:	2,278
Total Building Square Footage:	5,900

**PROGRAM COMPROMISES**

**Modifications to Program:**

- Physical Training [Program Size: 410] = Actual Size: 200
- Bank Room [Program Size: 243] = Actual Size: 144
- App Boys [Program Size: 2546] = Existing Size: 2232
- Hose Drying/Trower [Program Size: 120] = Existing Size: 81
- Maint. Work Area [Program Size: 100] = Existing Size: 144
- EMS/App. Stor./Major Disaster [Program Size: 280] = Existing Size: 146
- Station Office [Program Size: 270] = Existing Size: 234
- Officers Crts [Program Size: 340] = Existing Size: 208
- Recovery [Program Size: 428] = Existing Size: 346
- Toilet Rooms [Program Size: 182] = Existing Size: 192
- Locker Alcoves [Program Size: 162] = Existing Size: 187
- Mechanical/Bedford

**Not Included:**

- Report Desk/Dispatch Counter
- Battery Charging
- Accessible Restroom - App. Support
- Janitor - App Support, Crew
- Stairs/Blevator



Architectural Site Plan/Floor Plans

**Test to Fit Diagram**

May 5, 2003

1002528





### Fire Station No. 27 - Battalion V

Address:	1000 S. Myrtle Street
Year Built:	1970
Station Category:	Seventies Station
Zoning:	Ind. Buffer U/65
Site Area:	44,248
Existing S.F.	5,960

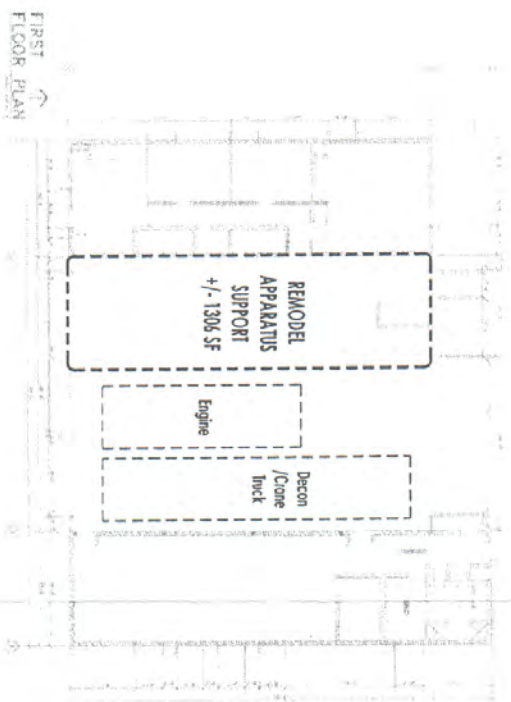
**Station Condition:**  
Station 27, located in Georgetown, is one of the newer facilities. It is basically in good condition, but may require some additional seismic bracing to meet current codes. It also requires interior remodeling to accommodate essential storage and decontamination facilities.

<b>Planned Operational Requirements</b>	
This station is planned to accommodate the following	
<b>Core Station Operations:</b>	
Engine (E27)	
<b>Supporting Operations:</b>	
Decon (27)	
Flatbed	
Crane Truck	
<b>Total Seismic/Safety Improvement Area:</b>	<b>5,960 SF</b>

**PROJECT DESCRIPTION:**  
**SEISMIC/SAFETY IMPROVEMENTS** -- This station will receive a minor seismic and safety upgrade. The entire structure will be seismically upgraded. One of the three existing apparatus bays will be remodeled to accommodate apparatus support functions such as decontamination, bunker gear storage, EMS storage and maintenance. The two additional bays will remain as is to support the engine and reserve apparatus.

The site will remain as currently exists with 11 on-site parking spaces.





**PROGRAMMED OPERATIONAL REQUIREMENTS**

Baseline:	6,972
Neighborhood I Engine (E27)	
Supporting Operations (27)	1,206
Decon (27)	
Hallbed	
Come Truck	
Emergency Cade	
None	
Future Operation	
None	
Total Program Square Footage:	8,178
Program Area Not Accommodated:	2,218
Total Building Square Footage	5,960

**PROGRAM COMPROMISES**

**Modifications to Program:**

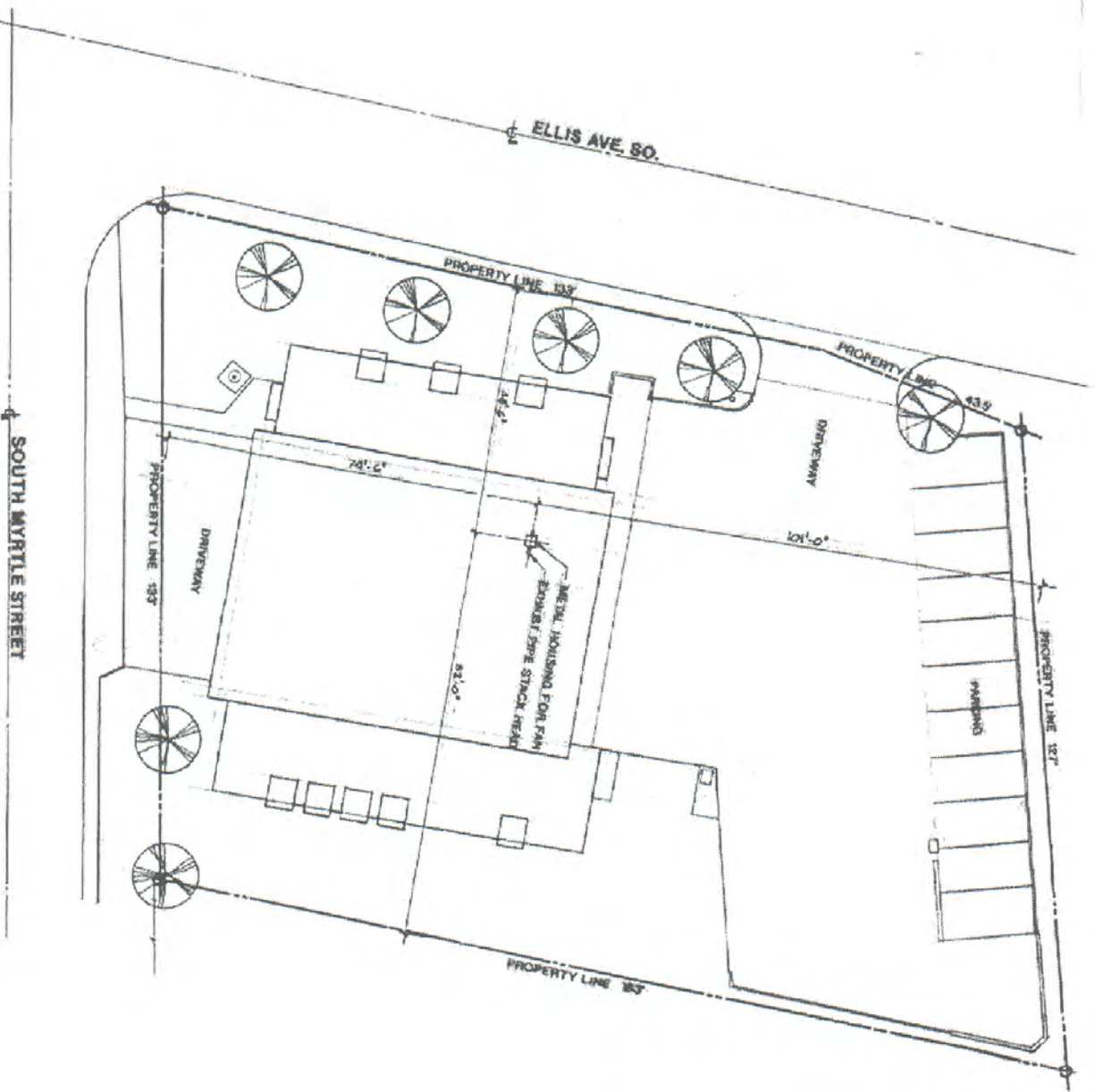
- Physical Training (Program Size: 410) = Actual Size: 200
- Multi-purpose Room for Bunks/Lockers (Program Size: 405) = Existing Size: 977
- App. Bays (Program Size: 1340) = Existing Size: 1780
- Station Office (Program Size: 270) = Existing Size: 210
- Officers Gtrs (Program Size: 340) = Existing Size: 294
- Brewery (Program Size: 428) = Existing Size: 394
- Toilet Rooms (Program Size: 162) = Existing Size: 188
- Laundry (Program Size: 90) = Existing Size: 48
- Mechanical/Bechtical

**Not Included:**

- Report Desk/Dispatch Counter
- Accessible Restroom - App. Support, Admin.
- Janitor - Admin. Crew
- Staffs/Behavior
- Hose Drier and Storage Alcove



**SITE PLAN**  
 UTM 4-11-02





### Fire Station No. 28 - Battalion V

Address:	5968 Rainier Avenue S.
Year Built:	1951
Station Category:	Prior to 1954
Zoning:	Res. SF 5000 / Res. MF
Site Area:	82,605
Existing S.F.	5,100 + 3,930 (Basement) = 9,030

**Station Condition:**  
 Station 28 is located on Rainier Avenue South. It was extensively renovated in 1985. It is basically in good condition, but requires some additional seismic bracing to meet current codes. It also requires remodeling to accommodate essential storage and decontamination facilities, and expansion for better operational efficiency.

<b>Planned Operational Requirements</b>	
This station is planned to accommodate the following	
<b>Core Station Operations:</b>	
Engine (E28)	
Ladder (L12)	
Medic (M28)	
<b>Emergency Cache:</b>	
USAR/MMRS	
<b>Total Renovated and Expanded Area: 18,101 SF</b>	

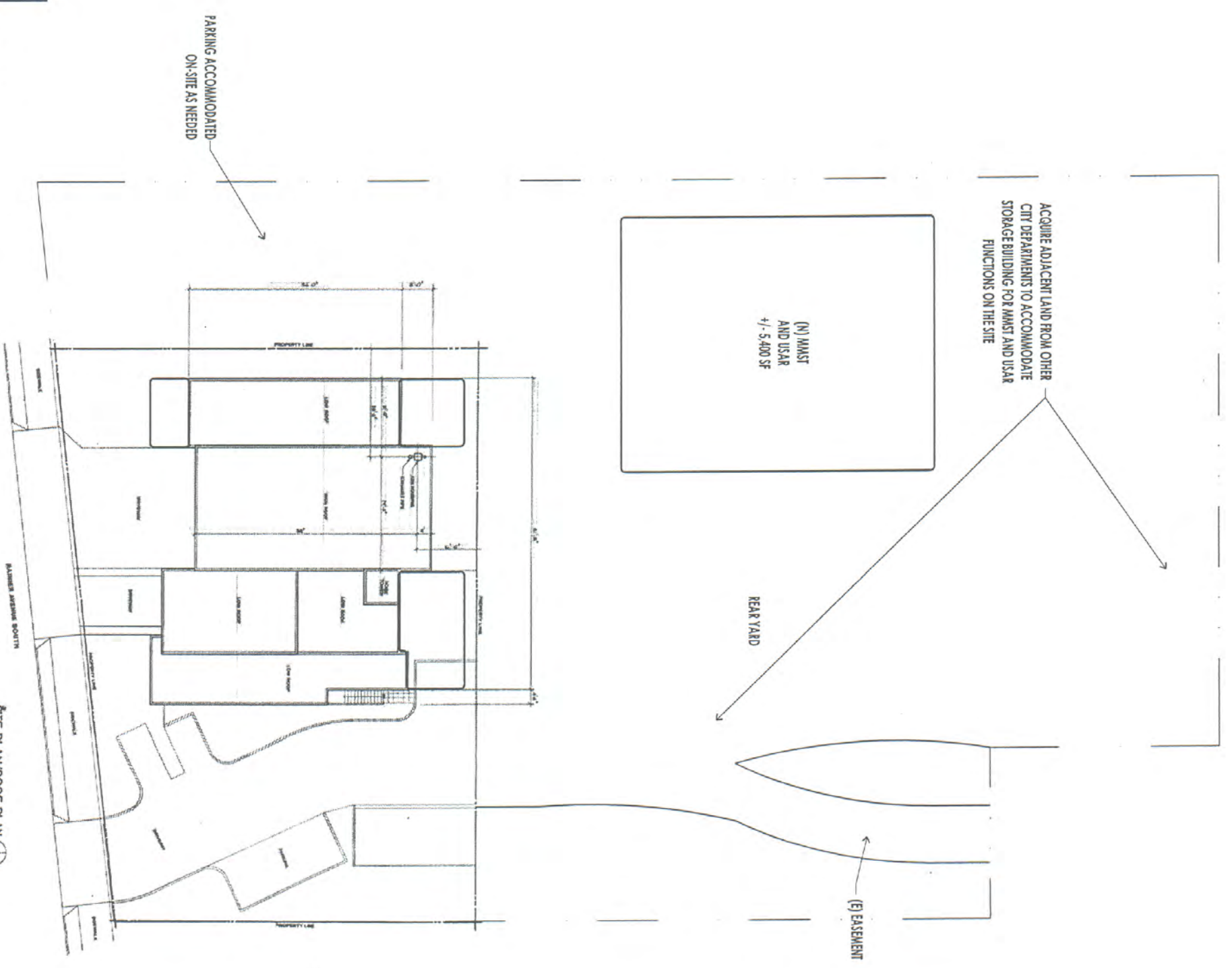
**PROJECT DESCRIPTION:**

**MAJOR RENOVATION and EXPANSION**— The entire structure will be seismically upgraded and the interior reconfigured and expanded to accommodate modern fire operations. Only a minor seismic upgrade is required. The existing floor area of 9,030 SF will be supplemented by an expansion of the existing fire station and the addition of a new building at the North portion of the site. 6,588 SF of the existing fire station will be renovated to accommodate apparatus support functions such as decontamination, bunker gear storage, EMS storage, emergency cache and maintenance. A portion of the remodel and the entire fire station addition will accommodate the firefighter crew quarters that were displaced by the apparatus support functions. The total station addition is 3,872 SF.

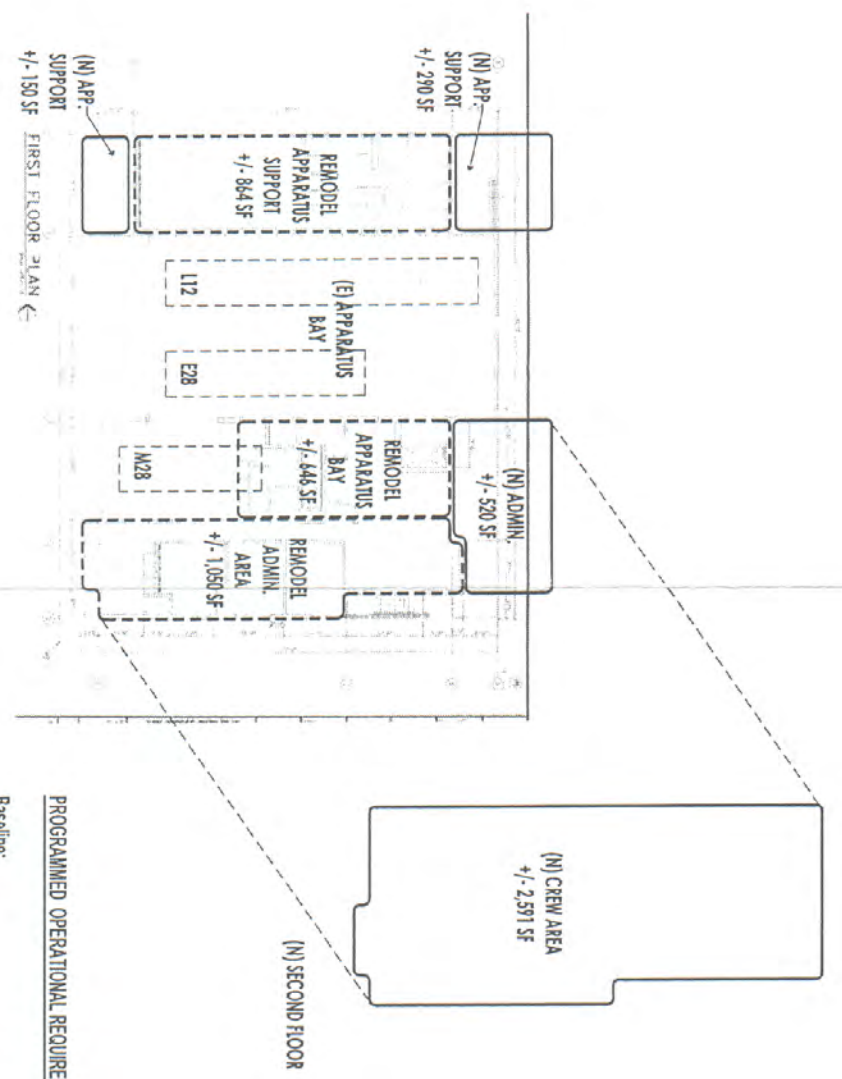
The new 5,400 SF building is designated to accommodate the USAR/MMRS emergency cache operations.

All required parking can be accommodated on site.

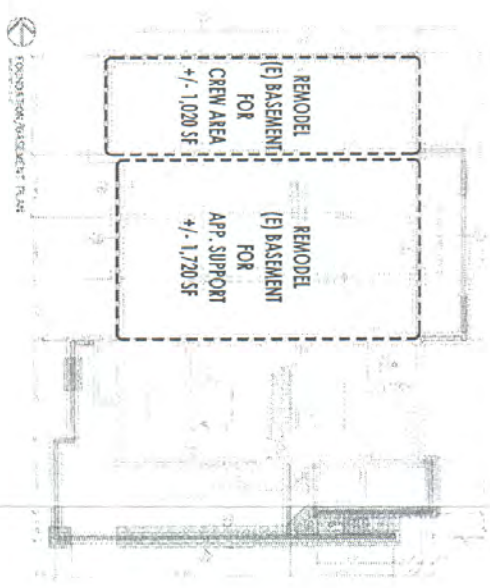




SITE PLAN/ROOF PLAN



FIRST FLOOR PLAN



FOUNDATION/BASEMENT PLAN

**PROGRAMMED OPERATIONAL REQUIREMENTS**

Baseline:	
Neighborhood III	13,624
Engine (E28)	
Lodges (L12)	
Medic (M29)	
Supporting Operations	5,400
USAR/IMMS	
Emergency Cache	
None	
Future Operations	
None	
Total Program Square Footage:	19,024
Program Area Not Accommodated:	923
Total Building Square Footage:	18,101

**PROGRAM COMPROMISES**

- Modifications to program:**
- The Apparatus Bays are to remain. Depth is shallower than program. (Program Size: 3886) = Actual Size 2368 +
  - Remodeled App. Bay, 448 = 3014
  - New Apparatus storage building with two bays (non essential construction) (Program Size: 5400)
  - Lobby (Program Size: 140)
  - Station Office (Program Size: 414)
- Not included:**
- N/A



Architectural Site Plan/Floor Plans

**Test to Fit Diagram**

May 5, 2003

1002528



### Fire Station No. 29 - Battalion VII

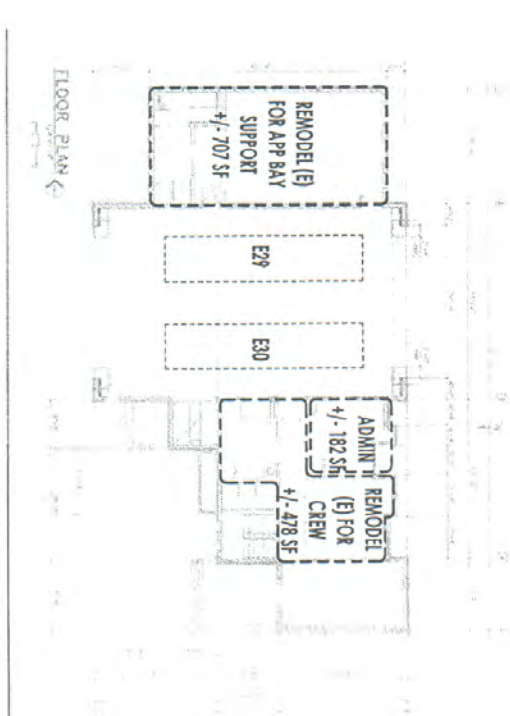
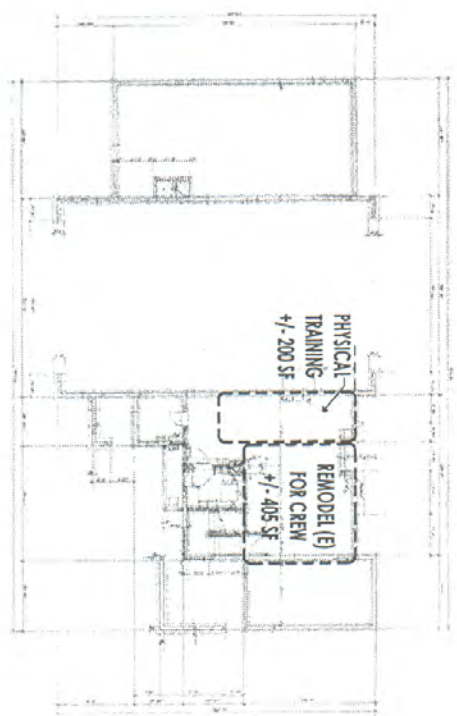
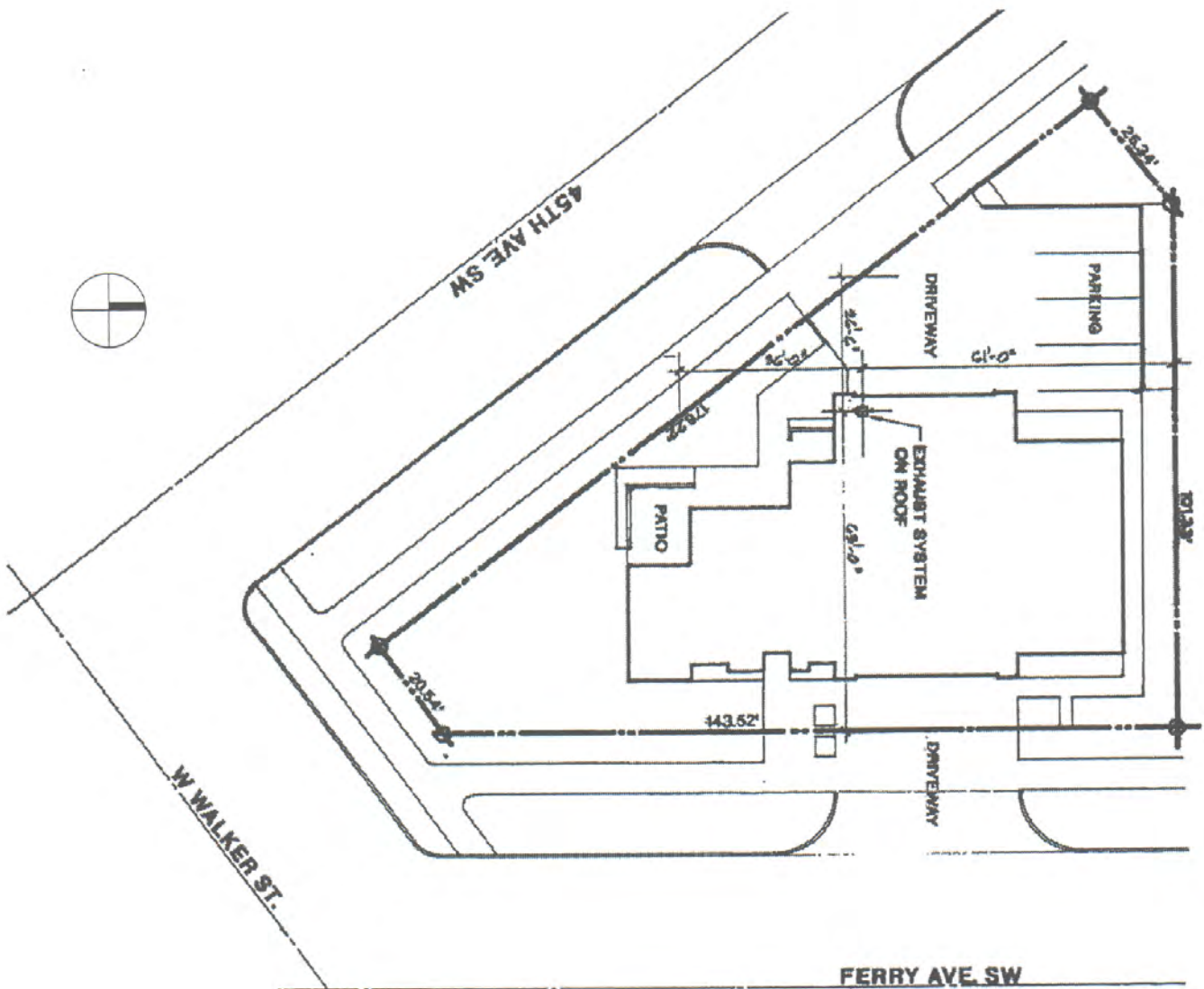
Address:	2139 Ferry Avenue SW
Year Built:	1970
Station Category:	Seventies Station
Zoning:	Res, SF 5000
Site Area:	11,128
Existing S.F.	5,754 SF

**Station Condition:**  
 Station 29 is located in the Admiral District of West Seattle. It is currently a battalion station. Because the building and site are too small to accommodate both the battalion and battalion training, the battalion function will be relocated to Station No. 32. Station 29 is one of the newer facilities. It is basically in good condition, but requires some minor additional seismic bracing to meet current codes. It also requires interior remodeling to accommodate essential storage and decontamination facilities.

<b>Planned Operational Requirements</b>
This station is planned to accommodate the following
<b>Core Station Operations:</b>
Engine (E29)
<b>Supporting Operations:</b>
Engine (E320)
<b>Total Seismic/Safety Improvement Area:</b> 5,754 SF

**PROJECT DESCRIPTION:**  
**SEISMIC/SAFETY IMPROVEMENTS** -- This station will receive minor seismic and safety upgrades. The entire station will be seismically retrofitted. 1,972 SF of the facility will be remodeled to efficiently locate apparatus support functions such as decontamination, bunker gear storage, fitness, EMS storage and maintenance. The area vacated by the battalion officer will be renovated to accommodate additional apparatus support and administrative functions.  
 The site will remain as currently exists with 5 on-site parking spaces.





**PROGRAMMED OPERATIONAL REQUIREMENTS**

Baseline:	6,972
Neighborhood I Engine (E21)	
Supporting Operations Engine (E30)	1,206
Emergency Cache	
Future Operations	
Total Program Square Footage:	8,178
Program Area not Accommodated:	2,424
Total Building Square Footage:	5,754

**PROGRAM COMPROMISES**

**Modifications to Program:**

- Apparatus Bays (Program Size: 1340) = Existing Size: 1749
- Hose Tower (Program Size: 120) = Existing Size: 64
- Station Office (Program Size: 210) = Existing Size: 182
- Beemery (Program Size: 428) = Existing Size: 222
- Stor (Program Size: 320) = Existing Size: 80
- Mechanical/Electrical (Program Size: 720) = Existing Size: 113
- Physical Training (Program Size: 410) = Existing Size: 200
- Maintenance Work Area (In opp bay)

**Not included:**

- Report Desk/Dispatch Counter
- Accessible Restroom App Support, Admin.
- Janitor - App Support, Admin., Crew
- Elevator



Architectural Site Plan/Floor Plans

Test to Fit Diagram

May 5, 2003

1002528





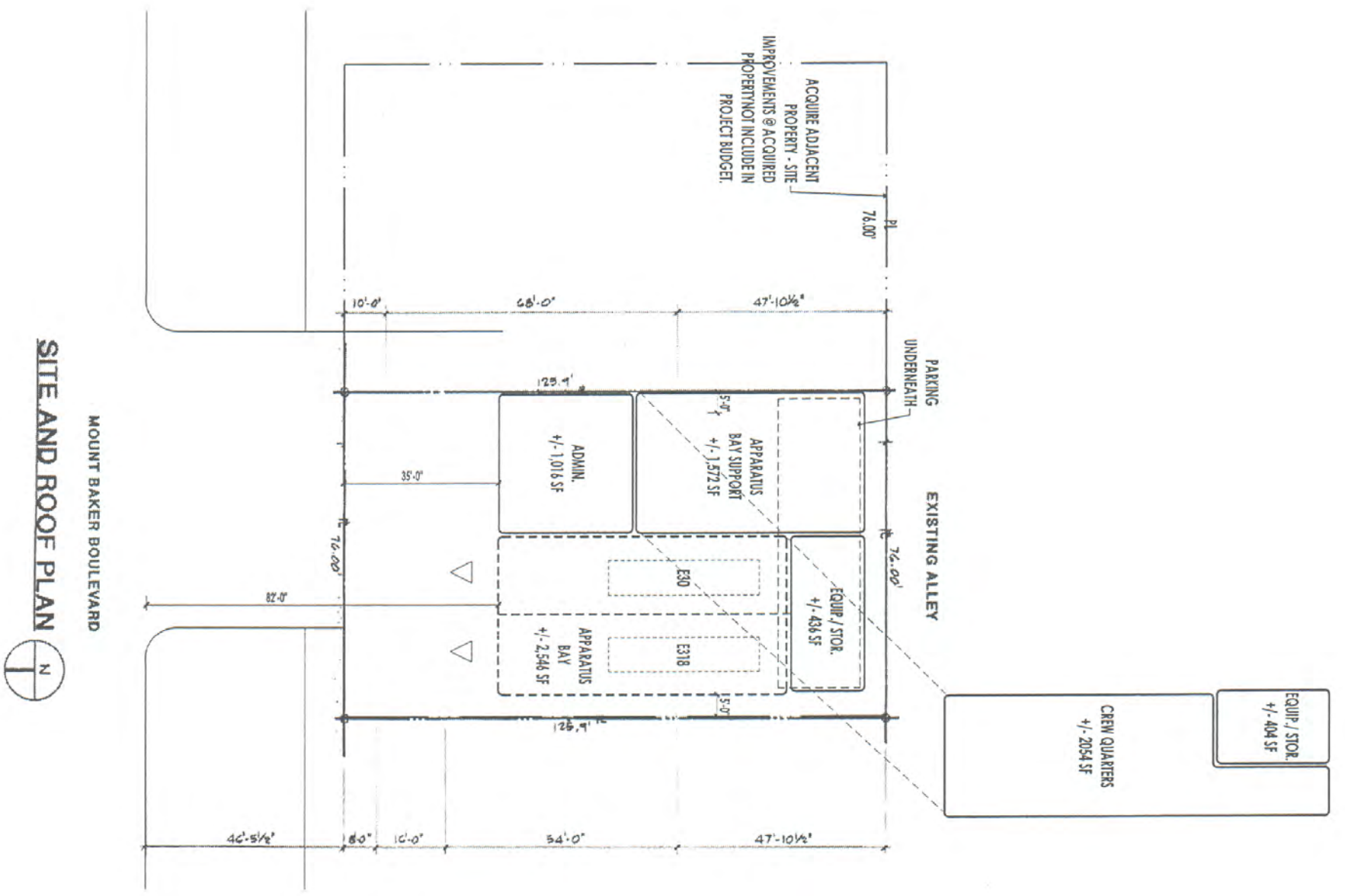
### Fire Station No. 30 - Battalion V

<b>Address:</b>	2931 Mt. Baker Boulevard S.
<b>Year Built:</b>	1949
<b>Station Category:</b>	Prior to 1954
<b>Zoning:</b>	Lowrise 2 Residential/Commercial
<b>Site Area:</b>	9,539 (existing) + 9,575 (new)
<b>Existing S.F.</b>	3,500
<b>Station Condition:</b>	
Station 30 is located in Mount Baker. The building systems (roof, heating, electrical service) and equipment are old and should be replaced. The station has inadequate space for modern apparatus and staffing levels, and requires replacement.	

<b>Planned Operational Requirements</b>	
This station is planned to accommodate the following	
<b>Core Station Operations:</b>	
Engine (E30)	
<b>Supporting Operations:</b>	
Reserve Engine (E318)	
<b>Total Replacement Square Footage:</b>	8,178 SF

**PROJECT DESCRIPTION:**  
**REPLACEMENT** -- This station will be replaced on the existing site with additional acquired property. The existing station is 54 years old and has reached its useful life in terms of building systems, site capacity and operational efficiencies. The replacement station will be two stories and will have access from the alley to the South of the site for parking.





**SITE AND ROOF PLAN**



**NOTE:**  
 MINIMAL SITE IMPROVEMENTS WERE BUDGETED FOR THIS PROJECT.  
 THE SCOPE INCLUDES MINOR REPAIR & UTILTY MAIN REPLACEMENT.

**PROGRAMMED OPERATIONAL REQUIREMENT**

Baseline:	
Neighborhood I Engine (E30)	6,972
Supporting Operations Reserve Engine (E318)	1,206
Emergency Cache	None
Future Operations	None
Total Program Square Footage:	8,178
Program Area not Accommodated:	0
Total Building Square Footage:	8,178
<b>PROGRAM COMPROMISES</b>	
Modifications to program:	- None
Not Included:	- N/A



Prototype N1+R: Architectural Site Plan/Floor Plans

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 May 5, 2003  
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### Fire Station No. 31 - Battalion VI

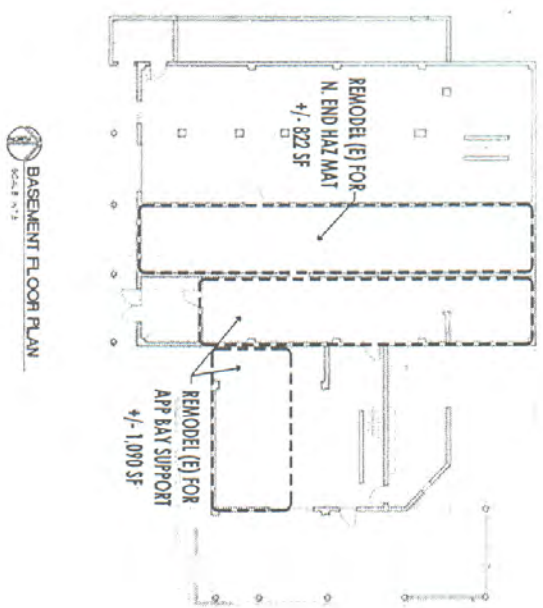
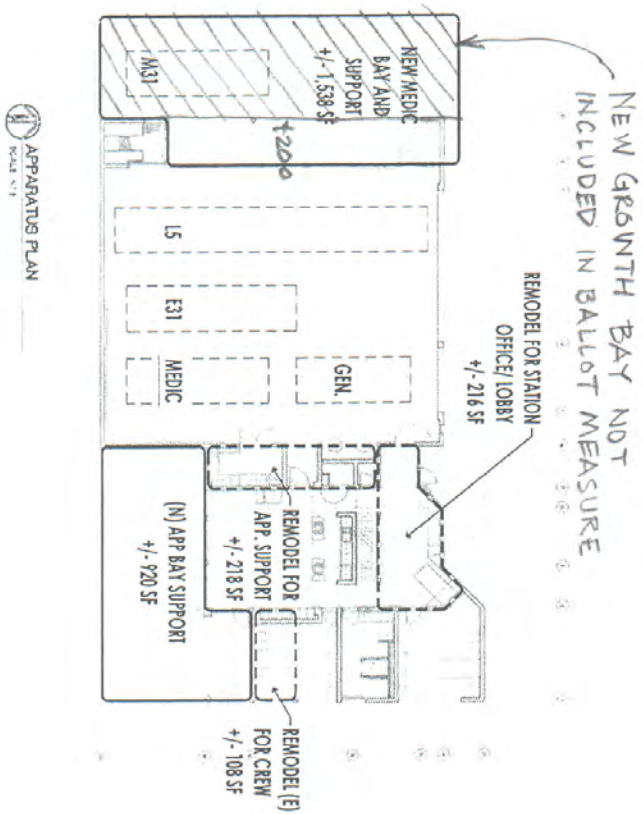
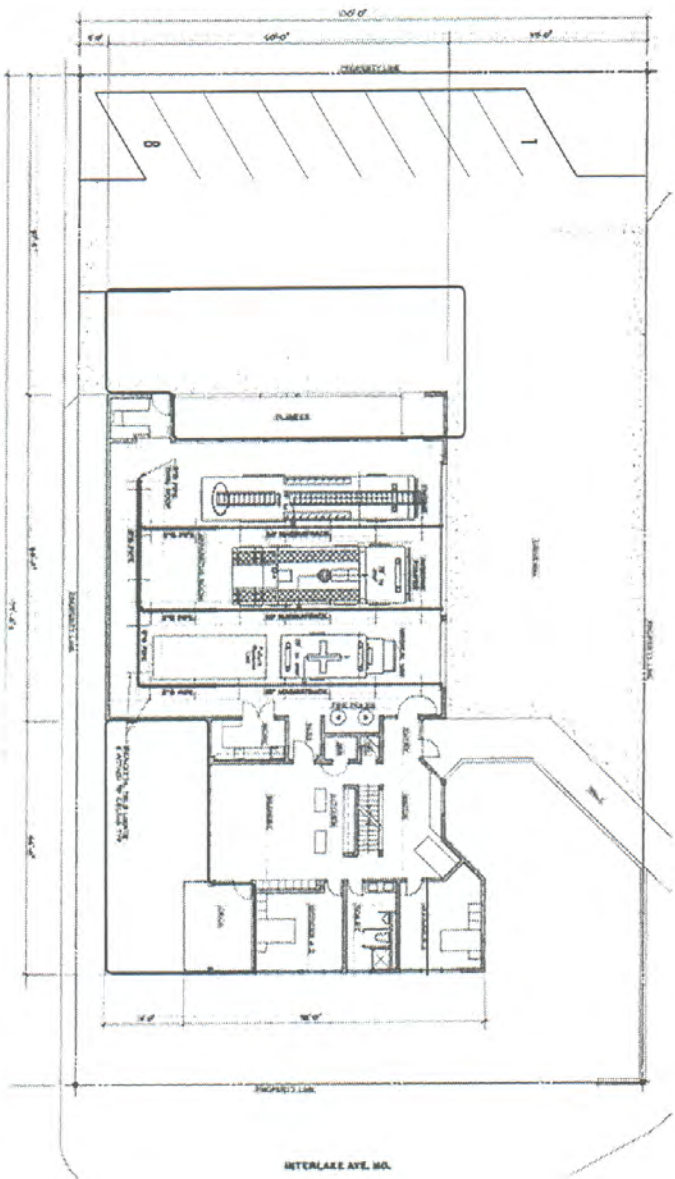
Address: 1319 N. Northgate Way  
 Year Built: 1973  
 Station Category: Seventies Station  
 Zoning: Low-rise 2/RC  
 Site Area: 18,000  
 Existing S.F.: 11,200

**Station Condition:**  
 Station 31, located in the Northgate area, is one of the newer facilities. It is basically in good condition, but requires some additional seismic bracing to meet current codes. It also requires interior remodeling and a small addition to accommodate essential storage and decontamination facilities.

**Planned Operational Requirements**  
 This station is planned to accommodate the following  
**Core Station Operations:**  
 Engine (E31)  
 Ladder (L5)  
 Medic (M31)  
**Supporting Operations:**  
 Medic (M/A96-3780)  
 Trailer Mounted Generator  
 North End Hazardous Materials Unit  
**Future Operations:**  
 Medic Company *Not included on ballot measure*  
 Total Seismic/Safety Improvement Area: 13,658 SF

**PROJECT DESCRIPTION:**  
**SEISMIC/SAFETY IMPROVEMENTS** -- This station will receive a moderate seismic and safety upgrade with an addition. The entire station will be seismically retrofitted. A portion of the first floor will be remodeled to accommodate apparatus bay support functions such as decontamination, bunker gear storage and EMS storage. The basement will be renovated and access developed from the South to accommodate the North End Hazardous Materials Unit. A portion of the remodeled area will be developed for crew quarters. There are two substantial additions. One addition, 1,583 SF, to the West will provide apparatus bay space for a future medic company. The second addition, 920 SF, to the Southeast will accommodate additional apparatus support functions.  
 The site will be reconfigured to provide 8 on-site parking stalls.  
 Project Budget: \$1,680,783





**Programmed Operational Requirements**

Baseline: Neighborhood III	13,624
Engine (E3)	
Ladder (L5)	
Medic (M3)	
<b>Support Units</b>	<b>2,412</b>
Medic (M)/96 (378)	
Tower Mounted Generator	
North end Hazardous Material Unit	
<b>Cable</b>	
None	
<b>Future Operations</b>	
Medic Company	

Total Program Square Footage: 16,036  
 Total Program Area not Accommodated: 2,378  
 Total Building Square Footage: 13,658

**PROGRAM COMPROMISES**

**Modifications to program:**

- Station Office/Lobby [Program Size: 554] = Actual Size: 216
  - Maintenance Work Area [Program Size: 200] = Actual Size: 100
  - Apparatus Equipment Storage [Program Size: 100] = Actual Size: 54
  - Apparatus Bays [Program Size: 386] = Existing Size: 274
  - Physical Training [Program Size: 480] = Existing Size: 292
  - Beanery, Dining and Dayroom [Program Size: 753] = Existing Size: 570
  - Hose Drying/Storage [Program Size: 120] = Existing Size: 49
  - Officer Quarters, Crew Bunks, Restrooms, Lockers [Program Size: 228] = Existing Size: 47
  - Mechanical/Electrical
  - Stairs
- Not Included:**
- Accessible Restrooms
  - App. Support Restroom
  - Janitor Rooms, App. Support, Admin, Crew
  - Elevator



Architectural Site Plan/Floor Plans

Test to Fit Diagram

May 5, 2003

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### Fire Station No. 32 - Battalion VII

**Address:** 3715 SW Alaska Street  
**Year Built:** 1966  
**Station Category:** Sixties Station  
**Zoning:** NC 3-40  
**Site Area:** 11,684 (existing) + 6,476 (new)  
**Existing S.F.** 8,505 SF

**Station Condition:**  
 Station 32 in West Seattle is a battalion station. The building systems (roof, heating, electrical service) and equipment are old and should be replaced. The station has inadequate space for modern apparatus and staffing levels, and is out of regulatory compliance in many areas. The building requires replacement.

#### Planned Operational Requirements

This station is planned to accommodate the following

#### Core Station Operations:

Engine (E32)  
 Ladder (L11)  
 Medic (M32)  
 Battalion VII Officer and Training

#### Supporting Operations:

Battalion Reserve (B77)  
 Reserve Medic

#### Emergency Cache:

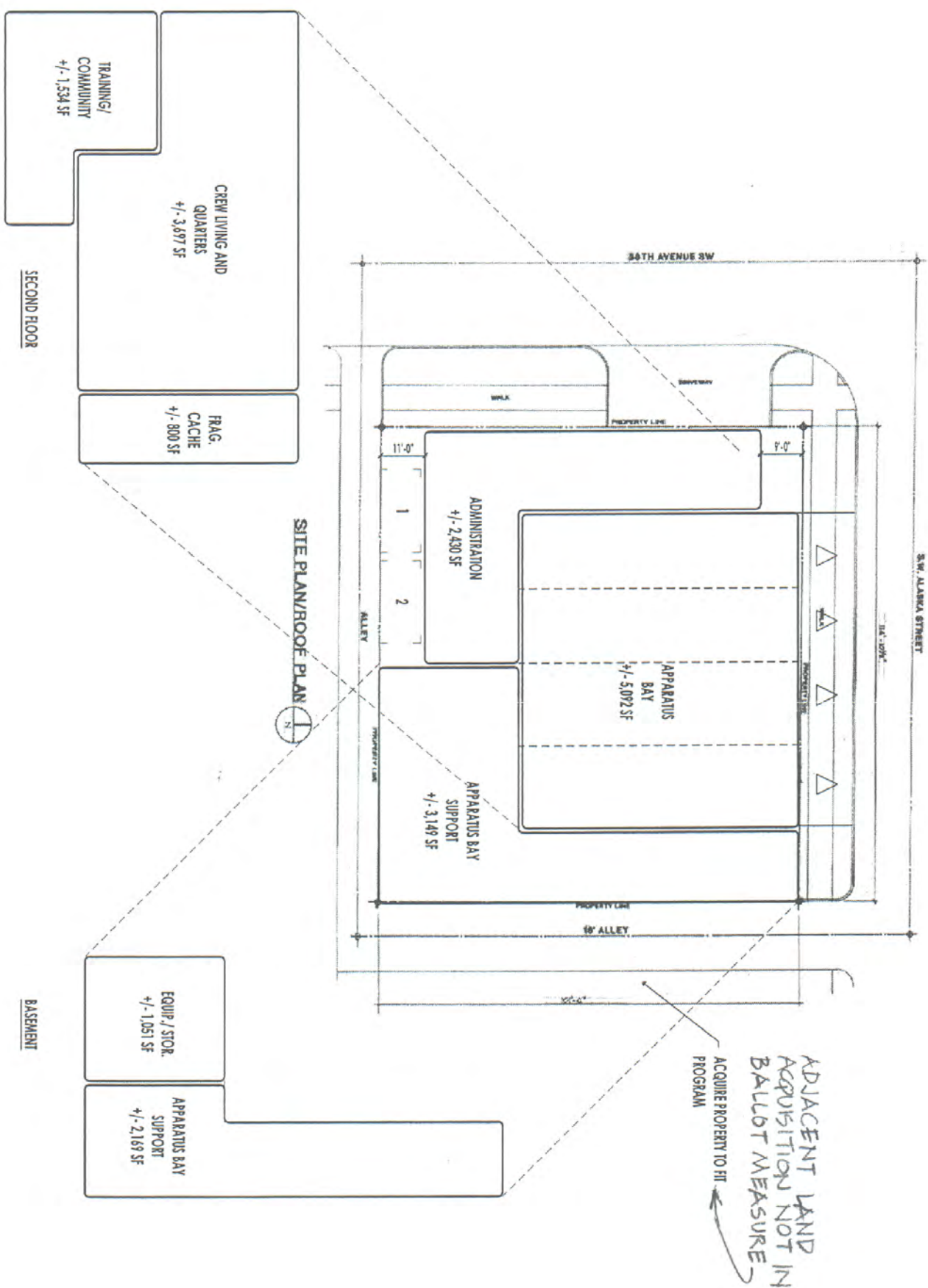
Fragmentation cache

**Total Replacement Square Footage:** 19,922 SF

#### PROJECT DESCRIPTION:

**REPLACEMENT** – This station has reached its useful life in terms of building systems, operational efficiencies and site capacity. The station will be replaced on the existing site with additional acquired site area. The replacement station will include a basement and two stories. It will function as the new battalion station in Battalion VII, relocating that function from Station No. 29. Additional site area will be acquired to provide adequate parking and drill areas.





PROTOTYPE B + R: Architectural Site Plan/Floor Plans

Test to Fit Diagram

May 5, 2003

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PROGRAM COMPROMISES  
 Modifications to program:  
 - None  
 Not included:  
 - N/A

<b>PROGRAMMED OPERATIONAL REQUIREMENTS</b>	
Baseline:	
Battalion	17,916
Engine (E32)	
Ladder (L11)	
Medic (M32)	
Battalion VII Officer and Training	
Supporting Operations	1,206
Battalion Reserve (B77)	
Reserve Medic	
Emergency Cache	800
Future Operations	
None	
Total Program Square Footage:	19,922
Program Area not Accommodated:	0
Total Building Square Footage:	19,922

Fire Station 32 - Replacement



### Fire Station No. 33 - Battalion V

**Address:** 9645 Renton Avenue S.  
**Year Built:** 1971  
**Station Category:** Seventies Station  
**Zoning:** Res. SF 7200  
**Site Area:** 28,252  
**Existing S.F.:** 4,300

**Station Condition:**  
 Station 33, located in Rainier Beach, is one of the newer facilities. It is basically in good condition, but requires some additional seismic bracing to meet current codes. It also requires interior remodeling and an addition to accommodate essential storage and decontamination facilities.

#### Planned Operational Requirements

This station is planned to accommodate the following

#### Core Station Companies:

Engine (E33)

#### Supporting Operations:

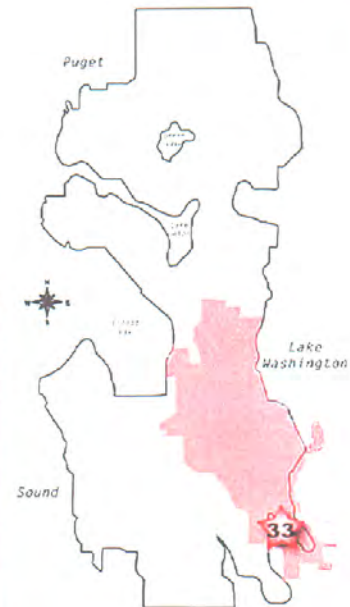
Reserve Engine

**Total Seismic/Safety Improvement Area:** 5,509 SF

#### PROJECT DESCRIPTION:

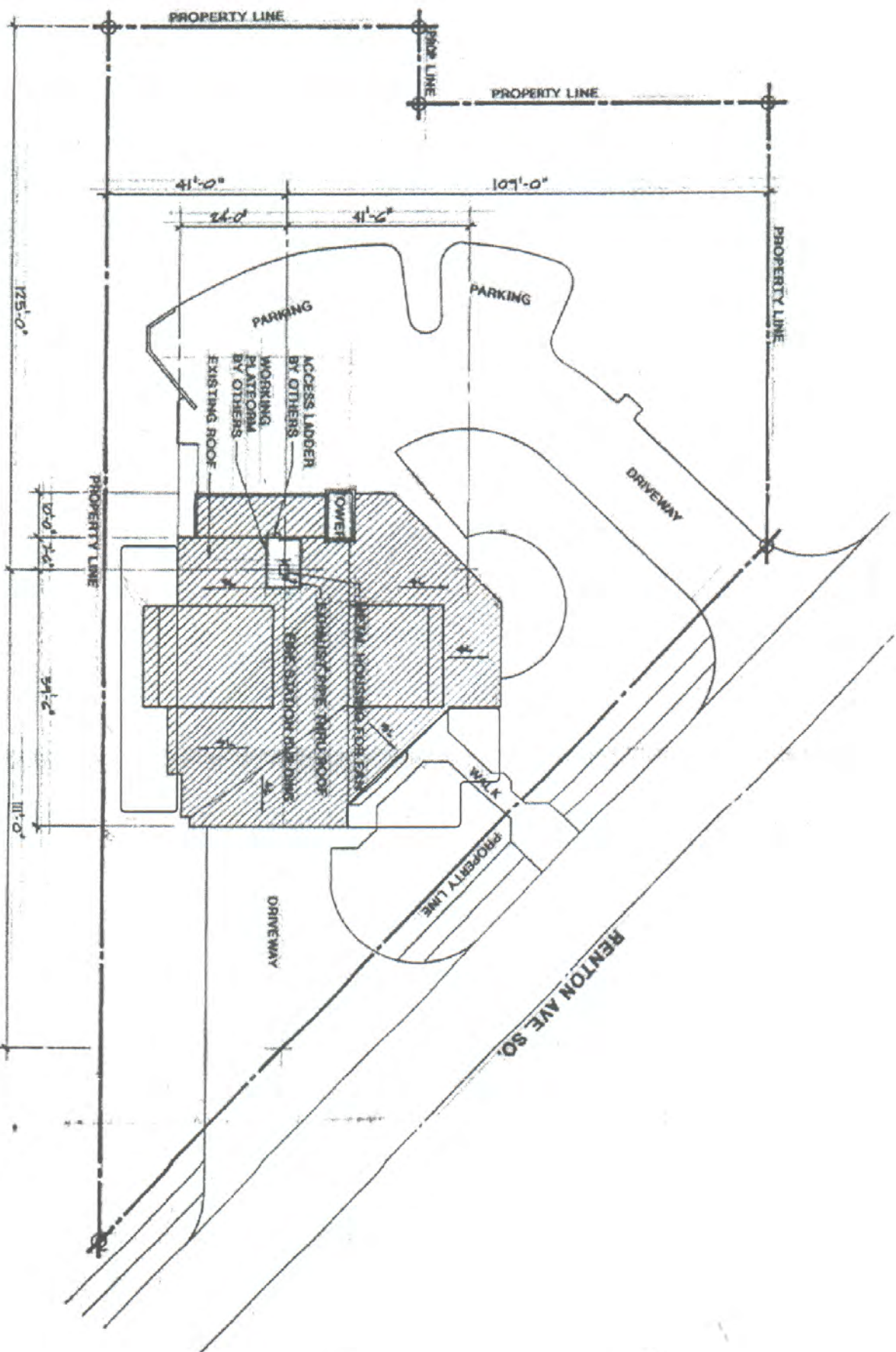
**SEISMIC/SAFETY IMPROVEMENTS** -- This station will receive a minor seismic and safety upgrade and a small addition. The entire facility will be seismically retrofitted. A total of 1,209 SF will be added to the Northeast and Southern portions of the building. The additions will accommodate apparatus support functions such as decontamination, bunker gear storage, EMS storage and a physical training room. A small interior remodel will replace the station office which is being displaced by additional support functions.

The existing site will remain as currently exists, providing 7 parking spaces.

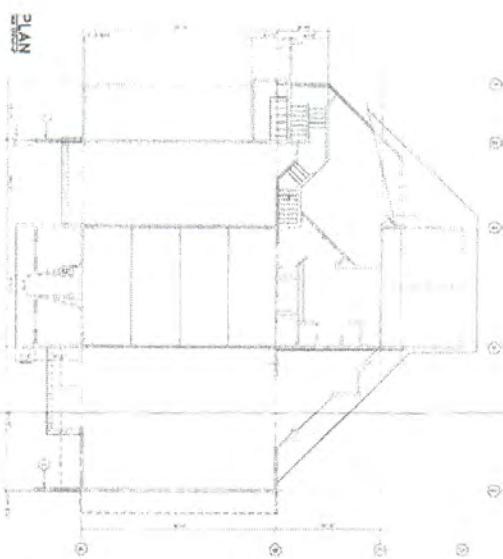




**SITE PLAN / ROOF PLAN**  
 1" = 20'



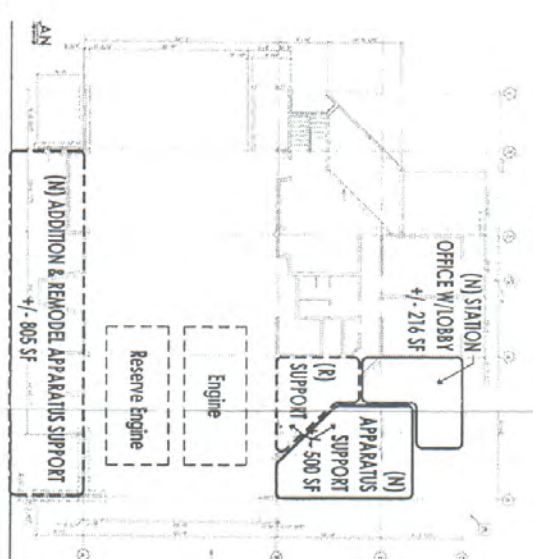
2nd Floor Plan



Mezzanine Floor Plan



1st Floor Plan



**PROGRAMMED OPERATIONAL REQUIREMENTS**

Baseline:	
Neighborhood 1	6,972
Engine (E33)	
Supporting Operations	1,206
Reserve Engine	
Emergency Cache	
None	
Future Operations	
None	

Total Program Square Footage: 8,178  
 Total Program Area not Accommodated: 2,669  
 Total Building Square Footage: 5,509

**PROGRAM COMPROMISES**

**Modifications to Program:**

- Station Office/Lobby (Program Size: 410) = Actual Size: 216
- Physical Training (Program Size: 410) = Actual Size: 200
- Apparatus Bays (Program Size: 2546) = Existing size: 1692
- Hose Dryer/Storage (Program Size: 120) = Existing size: 50
- Officers Quarters (Program Size: 340) = Existing size: 296
- Beamer (Program Size: 428) = Existing size: 138
- Bunk Rooms/Lockers (Program Size: 405) = Existing size: 380
- Mechanical/Bedical

**Not Included:**

- Report Desk/Dispatch Counter
- Janitor - App. Support, Admin. Crew
- Accessible Restroom - App. Support, Admin.
- Dayroom



Architectural Site Plan/Floor Plans

**Test to Fit Diagram**

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### Fire Station No. 34 - Battalion II

**Address:** 633 - 32nd Avenue E  
**Year Built:** 1970  
**Station Category:** Seventies Station  
**Zoning:** Low-rise 2  
**Site Area:** 12,334  
**Existing S.F.:** 3,300

**Station Condition:**  
 Station 34, located in Madison Park, is one of the newer facilities. It is basically in good condition, but requires some additional seismic bracing to meet current codes. It also requires interior remodeling to accommodate essential storage and decontamination facilities.

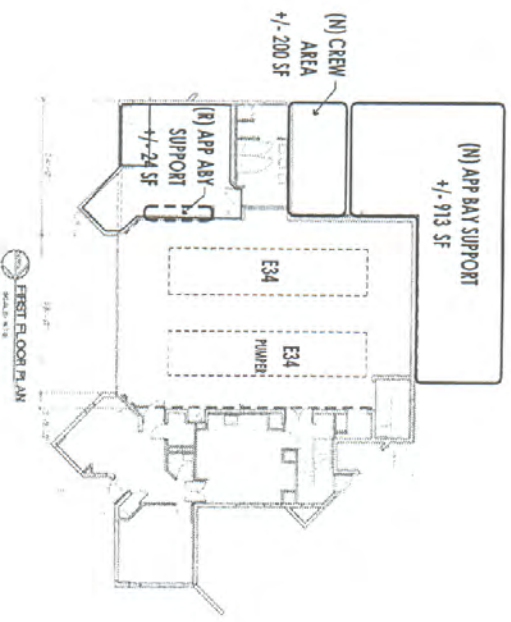
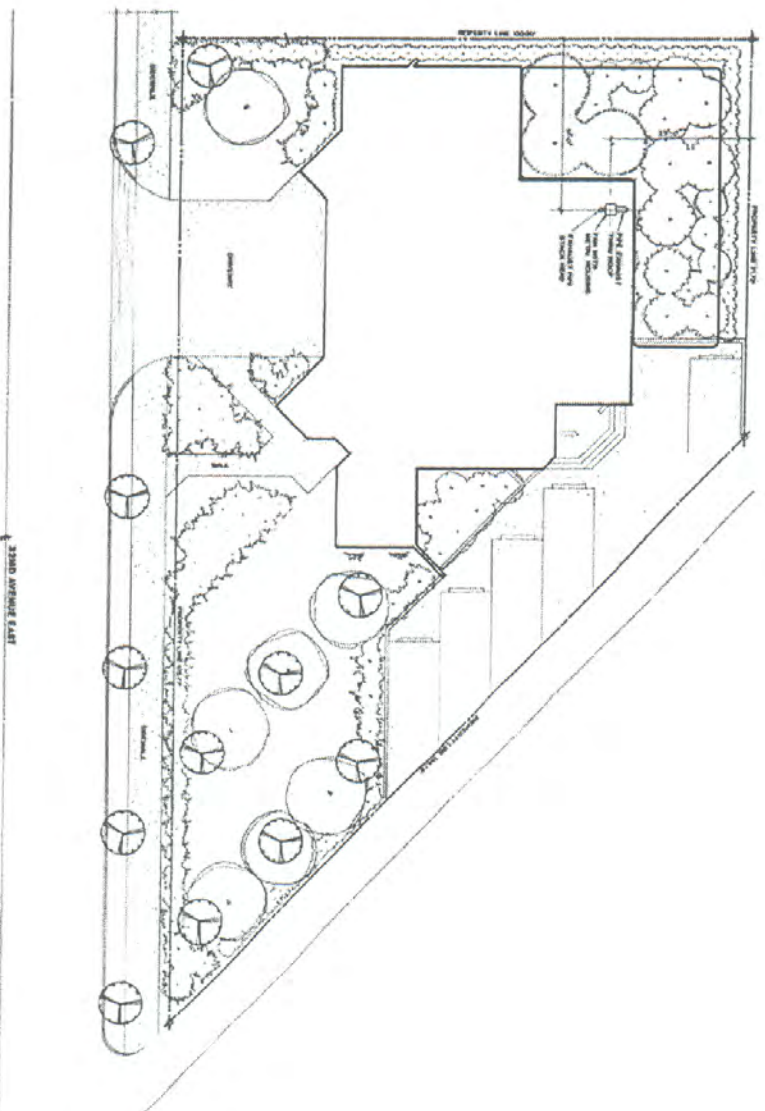
**Planned Operational Requirements**  
 This station is planned to accommodate the following  
**Core Station Companies:**  
 Engine (E34)  
  
**Supporting Operations:**  
 Reserve Apparatus (E 354 Engine)

**Total Seismic/Safety Improvement Area: 4,413 SF**

**PROJECT DESCRIPTION:**  
**SEISMIC/SAFETY IMPROVEMENTS** -- This station will receive a minor seismic and safety upgrade and an addition. The entire facility will be seismically upgraded. A 1,113 SF addition will extend from the Southwest corner of the apparatus bay to accommodate apparatus support functions such as decontamination, bunker gear, EMS and apparatus storage. A small area to the south of the apparatus bay will be remodeled to provide additional apparatus support area and to replace displaced crew living quarters.

The site parking area will remain as currently exists, providing 5 on-site parking stalls.





**PROGRAMMED OPERATIONAL REQUIREMENTS**

<b>Baseline:</b>	
Neighborhood I Engine (E34)	6,972
<b>Supporting Operations</b>	1,206
Reserve Apparatus (E 354 Engine)	
<b>Emergency Cache</b>	
Emergency Cache	None
<b>Future Operations</b>	
Future Operations	None
<b>Total Program Square Footage:</b>	8,178
<b>Program Area Not Accommodated:</b>	3,765
<b>Total Building Square Footage:</b>	4,413

**PROGRAM COMPROMISES**

- Modifications to program:**
- Physical Training (program size: 410) = Actual size: 200
  - Apparatus Bay (program size: 2546) = Actual size: 1702
  - Dedicated Bunk Rooms (program size: 243) = Actual size: 383
  - Locker Room Alcoves (program size: 162) = Actual size: 54
  - Bed/ Commun./ Mech. Rooms

- Not Included:**
- Report Desk/ Dispatch Counter
  - Janitor - App.
  - Restroom - App.
  - Public Lobby (include as part of Station)
  - Accessible Restrooms
  - Janitor - Admin.
  - Janitor of Second Floor
  - General Storage
  - Stairs
  - Behavior



Architectural Site Plan/Floor Plans

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### Fire Station No. 35 - Battalion IV

Address: 8729 - 15th Avenue NW  
 Year Built: 1920  
 Station Category: Prior to 1954  
 Zoning: C1-40  
 Site Area: 9,958  
 Existing S.F.: 9,300

**Station Condition:**  
 Station 35, located in Crown Hill, is in extremely poor condition due to its age and type of construction. It cannot be adequately renovated to accommodate modern firefighting operations and apparatus, and requires replacement.

#### Planned Operational Requirements

This station is planned to accommodate the following

#### Core Station Companies:

Engine (E35)

#### Supporting Operations:

Medic (M97-5323)

Engine (E369)

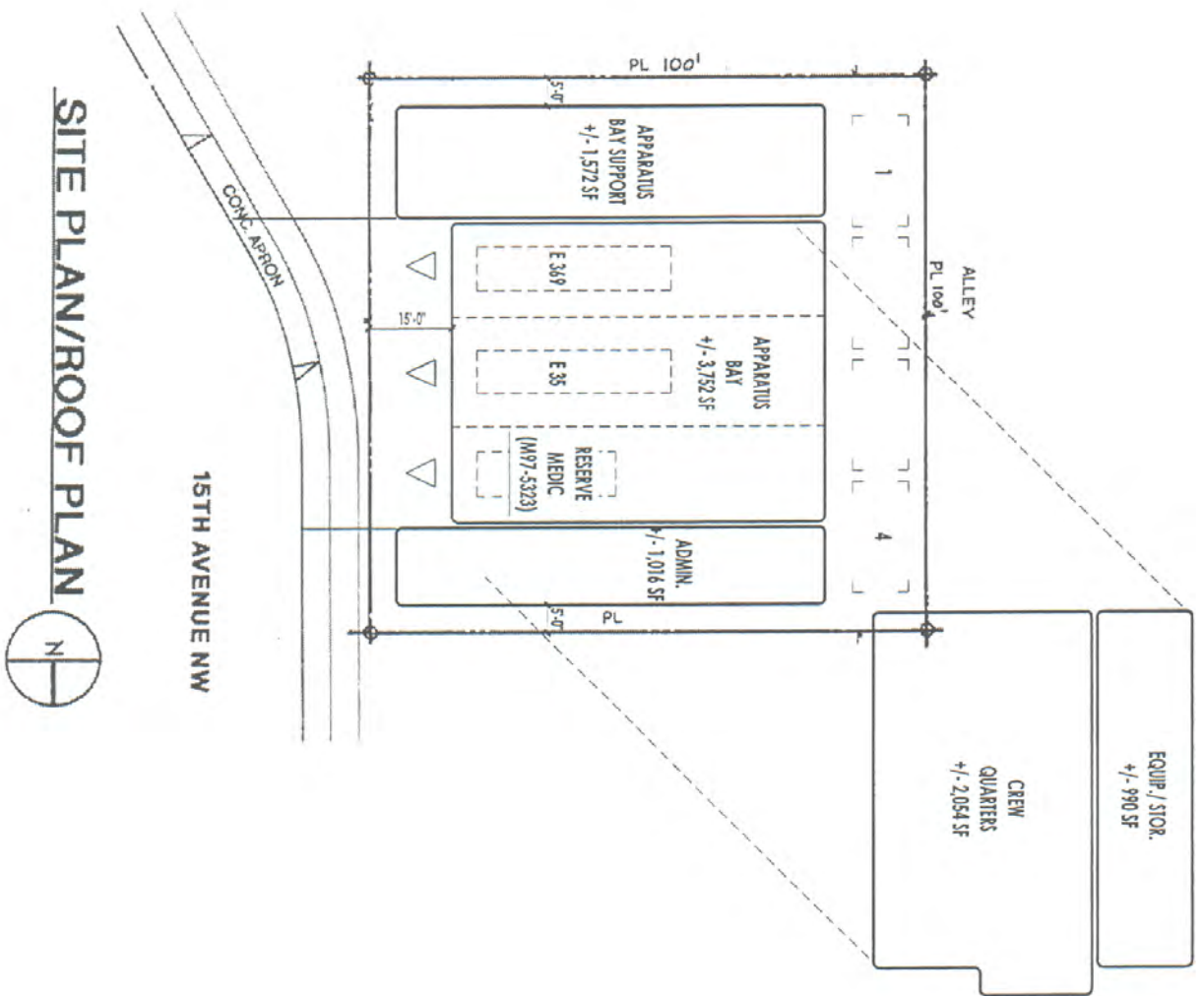
Total Replacement Square Footage: 9,384 SF

#### PROJECT DESCRIPTION:

**REPLACEMENT** -- This station will be replaced on its existing site. It is 83 years old and has reached its useful life in terms of building systems and operational efficiencies. The replacement station will be two stories and include three apparatus bays.

Four (4) required parking stalls will be provided on site.





SITE PLAN/ROOF PLAN



**PROGRAMMED OPERATIONAL REQUIREMENTS**

<b>Baseline:</b>	
Neighborhood I	6,972
Engine E35	
<b>Supporting Operations</b>	<b>2,412</b>
Reserve Medic (M97-5323)	
Engine E39	
<b>Emergency Cache</b>	
None	
<b>Future Operations</b>	
None	
<b>Total Program Square Footage:</b>	<b>9,384</b>
<b>Total Program Area not Accommodated:</b>	<b>0</b>
<b>Total Building Square Footage:</b>	<b>9,384</b>

**PROGRAM COMPROMISES**

Modifications to program:  
- N/A  
Not Included:  
- N/A

**PROTOTYPE STATISTICS:**

SITE AREA: 9,938 SF  
TOTAL FLOOR PLAN AREA: 9,384 SF  
Note: areas include 20% increase for circulation/structural



PROTOTYPE N1 + R: Architectural Site Plan/Floor Plans

**Test to Fit Diagram**

May 5, 2003

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### Fire Station No. 36 - Battalion VII

Address:	3600 23rd Avenue SW
Year Built:	1971
Station Category:	Seventies Station
Zoning:	Gen. Ind. 2 U/85
Site Area:	14,855
Existing S.F.	4,800 SF

**Station Condition:**  
 Station 36, located on Harbor Island, is one of the newer facilities. It is basically in good condition, but requires some additional seismic bracing to meet current codes. It also requires interior remodeling to accommodate essential storage and decontamination facilities.

**Planned Operational Requirements**

This station is planned to accommodate the following

Core Station Companies:

Engine (E36)

Supporting Operations:

Marine Specialty (Unit 99)

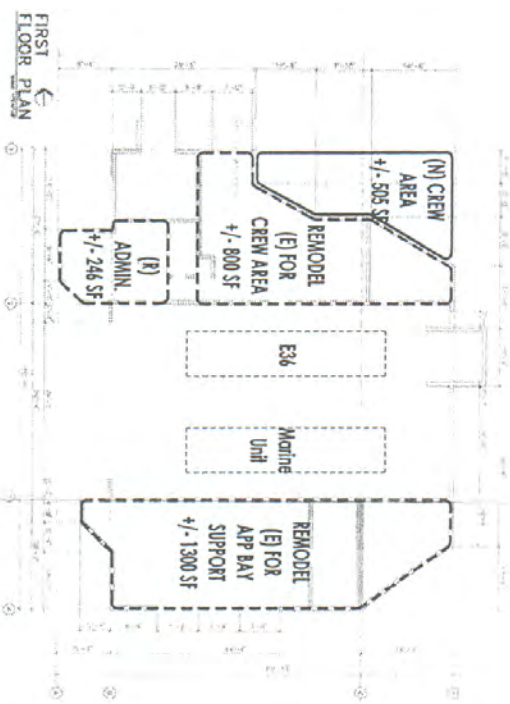
**Total Seismic/Safety Improvement Area: 5,305 SF**

**PROJECT DESCRIPTION:**

**SEISMIC/SAFETY IMPROVEMENTS --** This station will receive a minor seismic and safety upgrade with a small addition. The entire station will be seismically upgraded. Approximately 2,400 SF of the existing station will be remodeled to efficiently locate apparatus support functions such as decontamination, bunker gear storage, EMS storage and maintenance. A portion of the remodel and the small addition of 505 SF will accommodate firefighter living areas displaced by the apparatus support functions. There will be minor changes to the northern and eastern building elevations due to the addition.

The site will remain as currently exists with 9 on-site parking spaces.





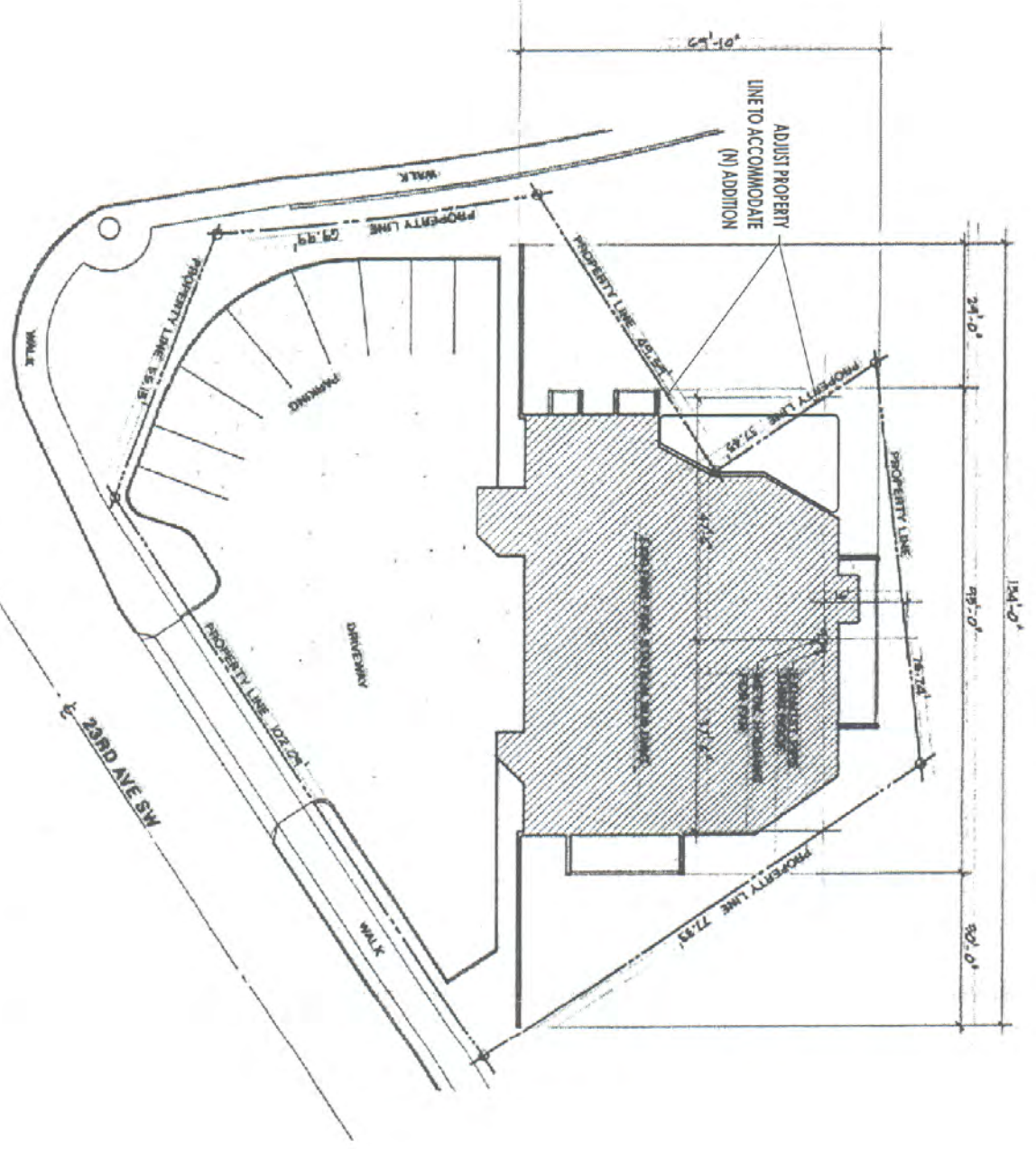
Programmed Operational Requirements

Baseline: Neighborhood I Engine (E36)	6,972
Supporting Operations Machine Specialty (Unit 99)	1,206
Emergency Cache	
Future Operations	
None	
Total Program Square Footage:	8,178
Program area not Accommodated:	2,873
Total Building Square Footage:	5,305

PROGRAM COMPROMISES

- Modifications to program:
- Officer's Quarters (Program Size: 340) = Actual Size: 180
  - Mechanical (Program Size: 150) = Actual Size: 100
  - Bakery (Program Size: 428) = Actual Size: 200
  - Dogroom (Program Size: 180) = Actual Size: 100
  - Physical Training (Program Size: 410) = Actual Size: 200

- Not included:
- Urisex Restroom - App Bay Support
  - Janitor - Adm. & Crew
  - General Storage
  - Stairs
  - Beverage



**SITE PLAN**  
1/4" = 1'-0"  
NORTH

Architectural Site Plan/Floor Plans

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### Fire Station No. 37 - Battalion VII

Address: 7300 35th Avenue SW  
 Year Built: 1925  
 Station Category: Prior to 1954 and Historic  
 Zoning: Res SF 5000  
 Site Area: 9,464  
 Existing S.F.: 4,148

**Station Condition:**  
 Station 37 is a historic station located in the High Point neighborhood. The station is too small to accommodate modern firefighting apparatus, and cannot be expanded without compromising its historic character.

#### Planned Operational Requirements

This station is planned to accommodate the following

#### Core Station Companies:

Engine (E37)

#### Supporting Operations:

Engine (E365)

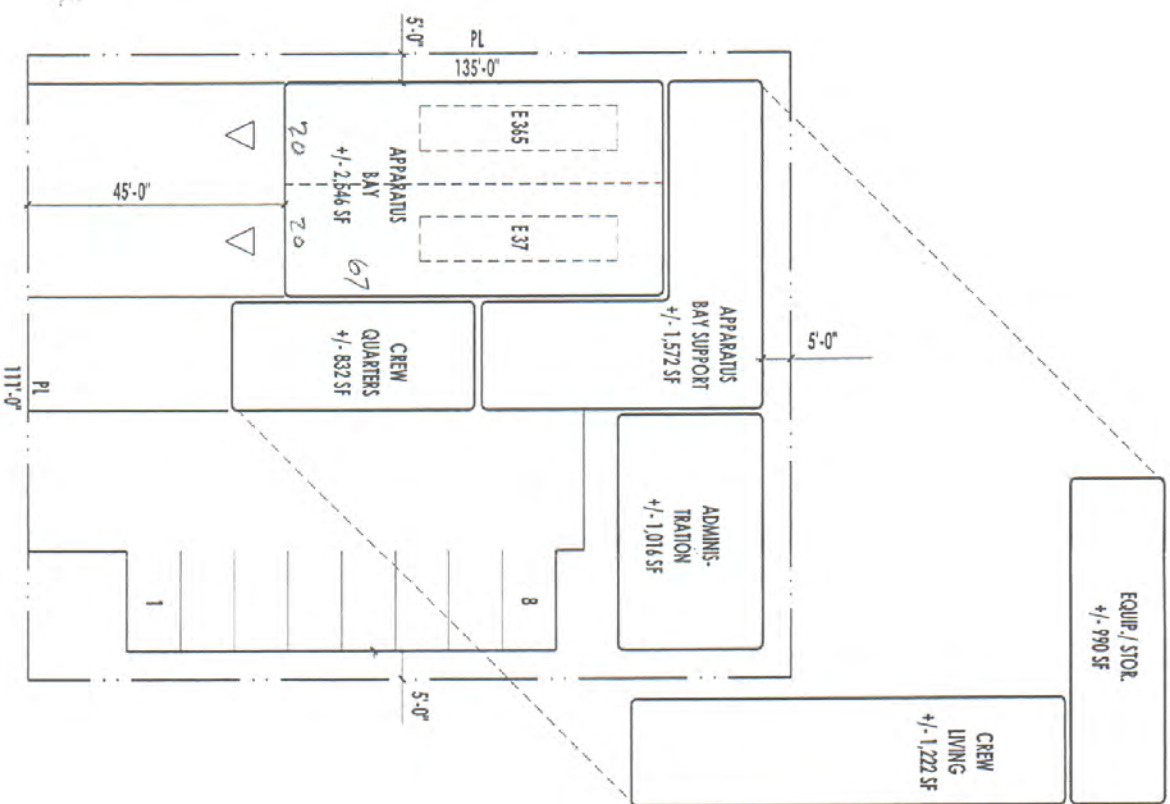
**Total Replacement Square Footage:** 8,178 SF

#### PROJECT DESCRIPTION:

**REPLACEMENT** -- This station will be replaced on a new site. It is 79 years old and has far passed its life in terms of building systems, site capacity and operational efficiencies. The replacement facility will be two stories and located in Southwest Seattle.

All required parking will be provided on site.





**PROGRAMMED OPERATIONAL REQUIREMENTS**

Baseline:	
Neighborhood I	6,972
Engine (E37)	
Supporting Operations	1,206
Engine (E365)	
Emergency Cache	
None	
Future Operations	
None	
Total Building Square Footage:	8,178
Total Program Area not Accommodated:	0
Total Replacement Area:	8,178
<b>PROGRAM COMPROMISES</b>	
Modifications to program:	
- None	
Not Included:	
- N/A	



PROTOTYPE N1 + R: Architectural Site Plan/Floor Plans

**Test to Fit Diagram**

May 5, 2003

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97

**Fire Station 37 - Replacement**





### Fire Station No. 38 - Battalion VI

Address:	5503 33rd Avenue NE
Year Built:	1937
Station Category:	Prior to 1954 and Historic
Zoning:	Res, MF Lowrise 1
Site Area:	8,960
Existing S.F.:	2,700

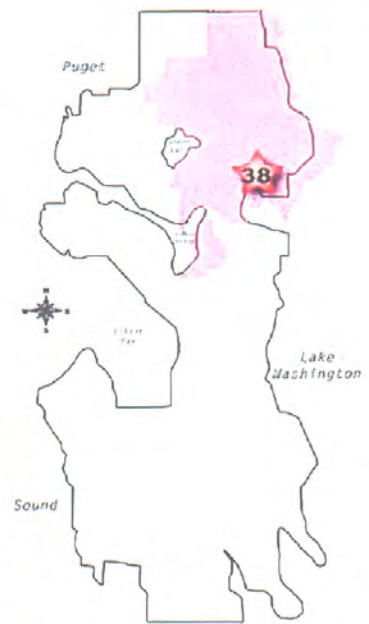
**Station Condition:**  
 Station 38, located in Ravenna, is a historic station. It was extensively renovated in 1986. However, the station is too small to accommodate modern firefighting apparatus and cannot be expanded without compromising its historic character and disrupting the single-family zone in which it is located.

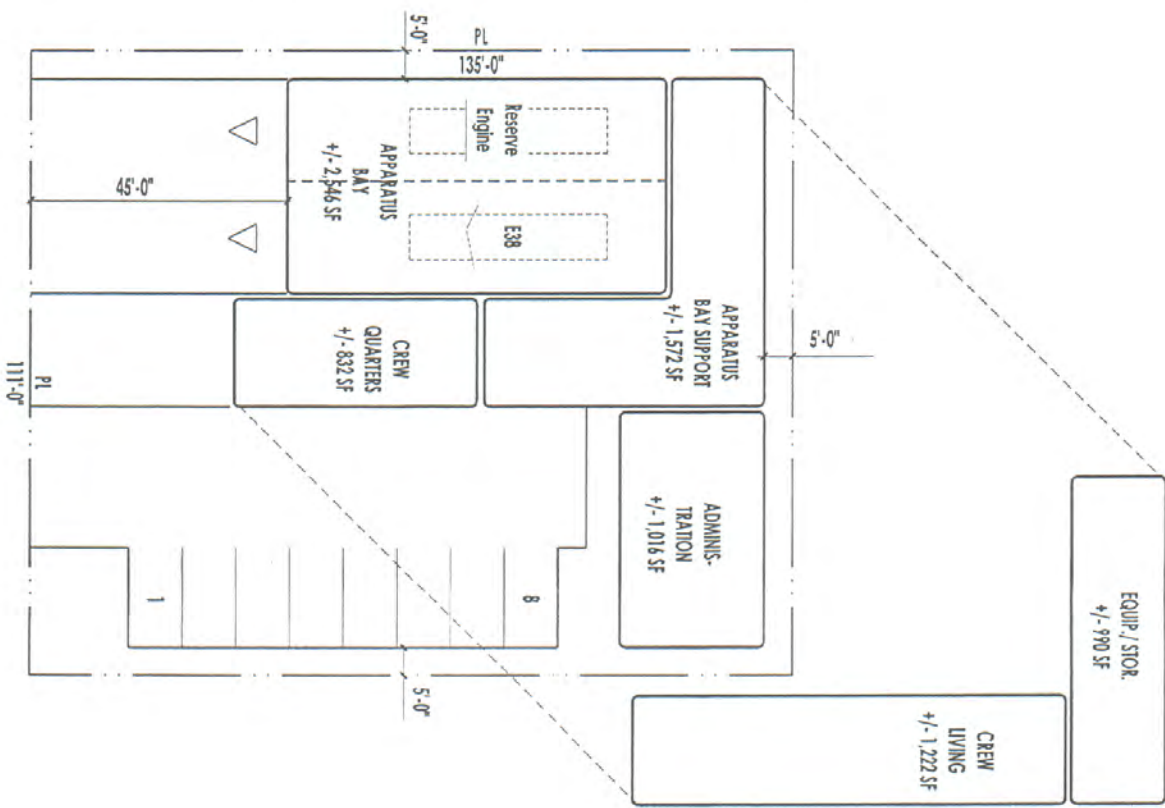
<b>Planned Operational Requirements</b>
This station is planned to accommodate the following <b>Core Station Companies:</b>
Engine (E38)
<b>Supporting Operations:</b>
Reserve Engine
<b>Total Replacement Square Footage:</b> 8,178 SF

**PROJECT DESCRIPTION:**

**REPLACEMENT** – This station will be replaced on a new site. It is 66 years old and has reached its useful life in terms of building systems, site capacity and operational efficiencies. The replacement facility will be two stories and located in Ravenna.

All required parking will be provided on site.





**PROGRAMMED OPERATIONAL REQUIREMENTS**

Baseline:	
Neighborhood I	6,972
Engine (E38)	
Supporting Operations	1,206
Reserve Engine	
Emergency Cache	
None	
Future Operations	
None	

Total Program Square Footage: 8,178  
 Program area not Accommodated: 0  
 Total Building Square Footage: 8,178

**PROGRAM COMPROMISES**

Modifications to program:  
 - N/A

Not Included:  
 - N/A

**PROTOTYPE STATISTICS:**

SITE AREA: 14,985 SF  
 TOTAL FLOOR PLAN AREA: 8,178 SF

Note: areas include 20% increase for circulation/structure



PROTOTYPE N1 + R: Architectural Site Plan/Floor Plans

**Test to Fit Diagram**

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### Fire Station No. 39 - Battalion VI

<b>Address:</b>	12705 30th Avenue NE
<b>Year Built:</b>	1949
<b>Station Category:</b>	Prior to 1954
<b>Zoning:</b>	Com.1-65
<b>Site Area:</b>	33,652
<b>Existing S.F.</b>	3,200
<b>Station Condition:</b>	
Station 39 in Lake City is in very poor condition due to its age and type of construction. It cannot be adequately renovated to accommodate modern firefighting operations and apparatus, and requires replacement.	

<b>Planned Operational Requirements</b>	
This station is planned to accommodate the following <b>Core Station Companies:</b>	
Engine (E 39)	
<b>Supporting Operations:</b>	
Reserve Engine (E355) North Rescue Unit with Support and Storage	
<b>Emergency Cache:</b>	
SFD Fragmentation Cache	
<b>Total Replacement Square Footage:</b>	<b>10,440 SF</b>

**PROJECT DESCRIPTION:**

**REPLACEMENT** -- This station will be replaced on the existing site. It is 54 years old and has reached its useful life in terms of building systems and operational efficiencies. The entire site will be available to the fire station operations after a neighboring community center is complete. There is site capacity for multiple supporting operations and an emergency cache. The replacement facility will be two stories and leaving additional site capacity for future operations.

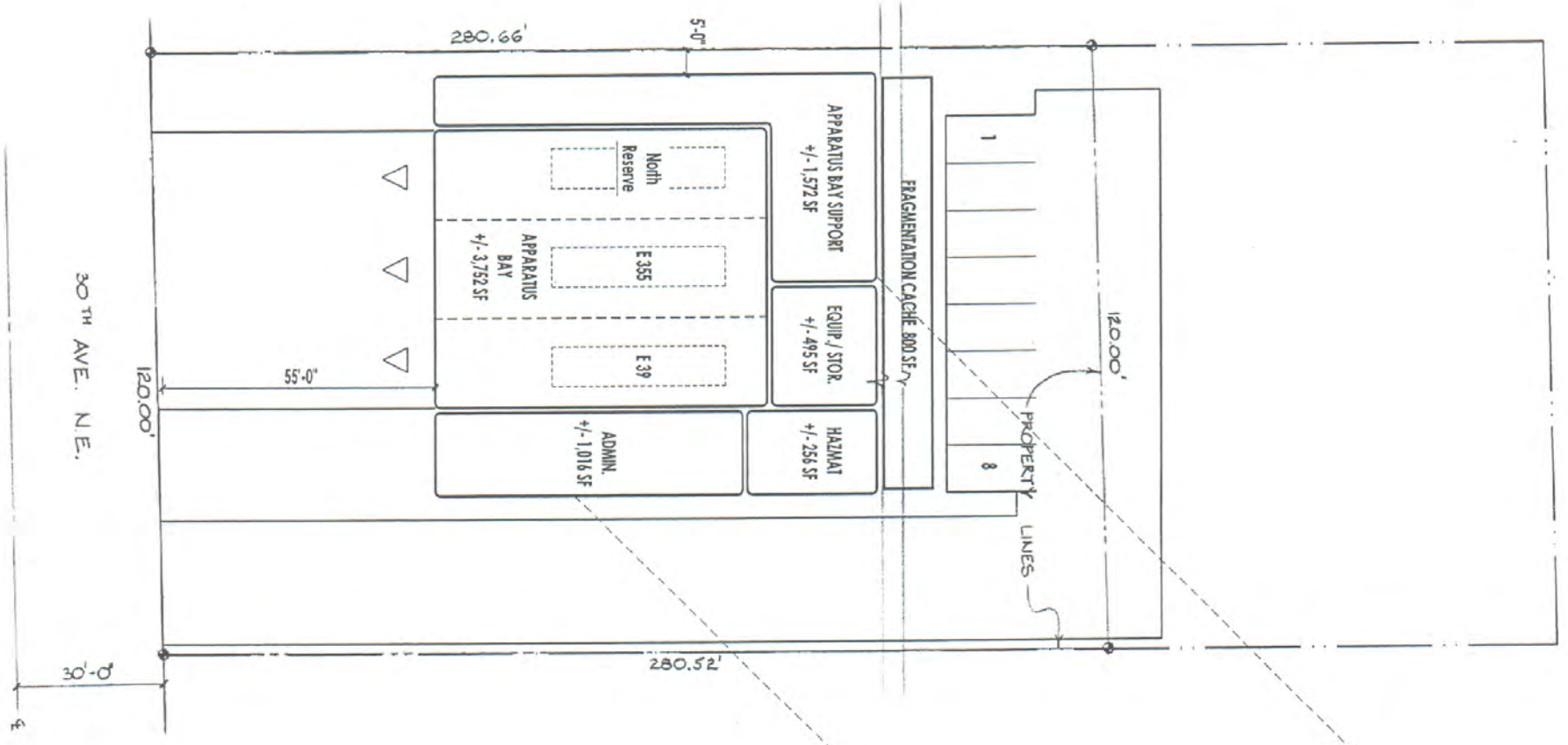
All required parking will be provided on site.





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SITE PLAN



PROTOTYPE N1 + R + N. Haz Mat: Architectural Site Plan/Floor Plans

**Test to Fit Diagram**

May 5, 2003

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PROGRAMMED OPERATIONAL REQUIREMENTS

Baseline:  
 Neighborhood I 6,972  
 Engine (E 39)

Supporting Operations 2,668  
 Reserve Engine (E35)  
 North Rescue Unit with Support and Storage

Emergency Cache 800  
 None

Future Operations  
 None

Total Program Square Footage: 10,440  
 Total Program Area not Accommodated: 0  
 Total Building Square Footage: 10,440

PROGRAM COMPROMISES

Modifications to program:  
 - None

Not Included:  
 - N/A

# Fire Station 39 - Replacement



### Fire Station No. 40 - Battalion VI

Address:	9401 35th Avenue NE
Year Built:	1965
Station Category:	Sixties Station
Zoning:	Res. SF 7200
Site Area:	14,382 SF
Existing S.F.	6,100

**Station Condition:**  
 Station 40, located in Wedgwood, is one of the newer facilities. It is basically in good condition, but requires some additional seismic bracing to meet current codes. It also requires interior remodeling to accommodate essential storage and decontamination facilities.

**Planned Operational Requirements**

This station is planned to accommodate the following

Core Station Companies:

Engine (E40)

Supporting Operations:

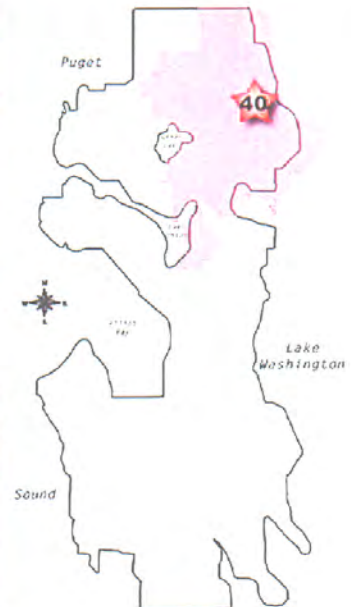
Reserve Engine (E339)

Total Seismic/Safety Improvement Area: **6,100 SF**

**PROJECT DESCRIPTION:**

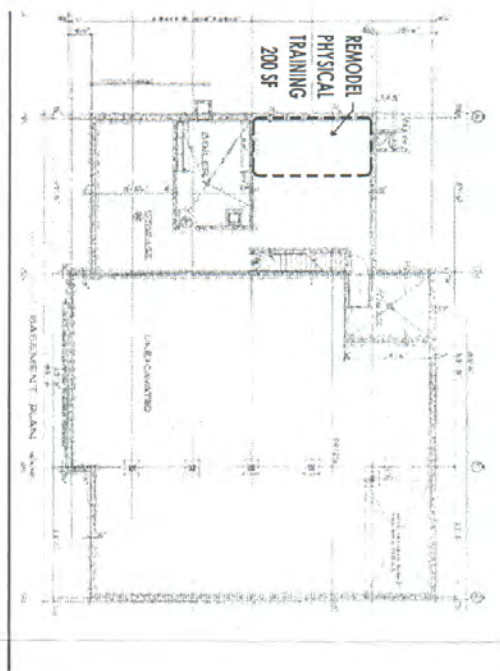
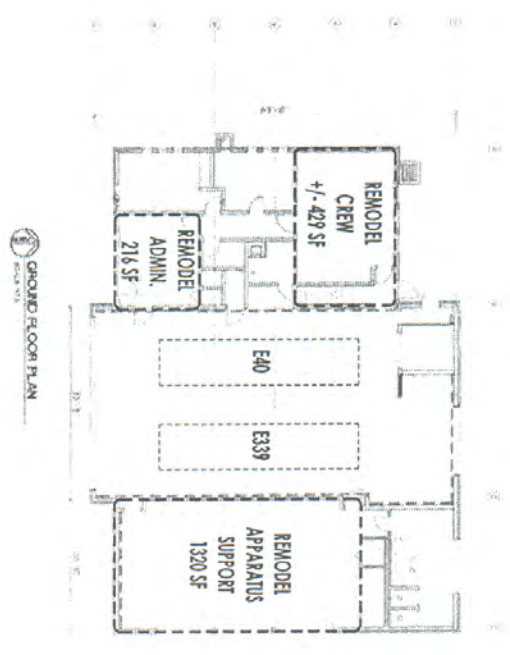
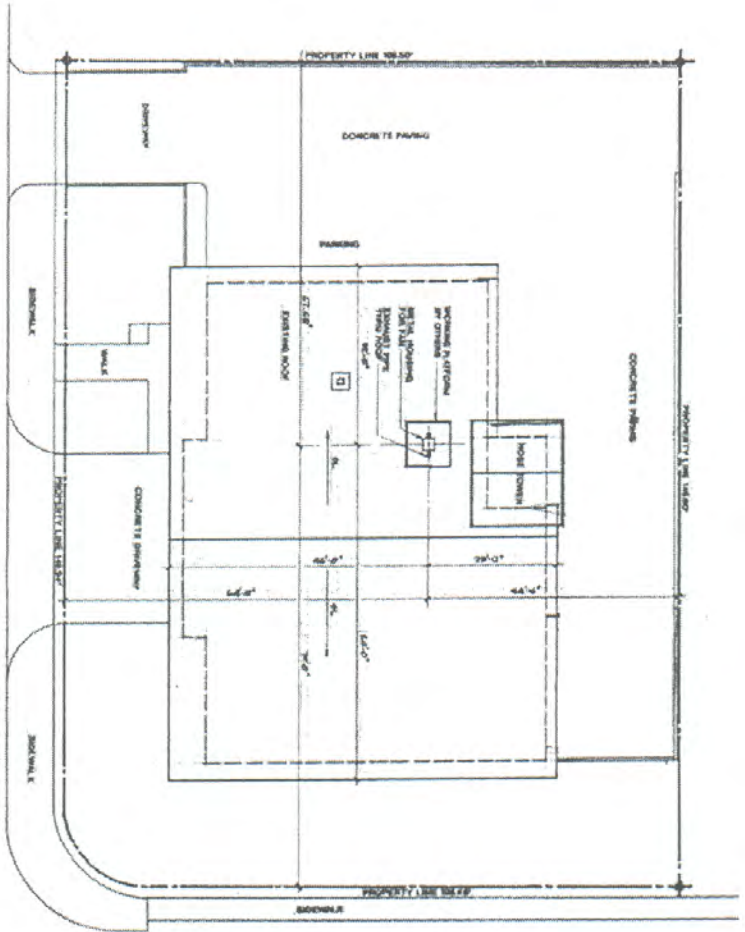
**SEISMIC/SAFETY IMPROVEMENTS** -- This station will receive a minor seismic and safety upgrade. The entire facility will be seismically retrofitted. 2,122 SF of the existing station will be remodeled to efficiently locate apparatus support functions such as decontamination, bunker gear, EMS and apparatus storage. A portion of the remodeled area will accommodate firefighter crew and fitness areas displaced by the apparatus support functions

The site will remain as currently exists with approximately 6 parking spaces.





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**PROGRAMMED OPERATIONAL REQUIREMENTS**

Baseline:	
Neighborhood I Engine (E40)	6,972
Supporting Operations Reserve Engine (E339)	1,206
Emergency Cache	None
Future Operations	None
Total Program Square Footage:	8,178
Program Area not Accommodated:	2,078
Total Building Square Footage:	6,100

**PROGRAM COMPROMISES**

- Modifications to Program:**
- Station Office/Lobby (Program Size: 410) = Actual Size: 216
  - Physical Training (Program Size: 410) = Actual Size: 200
  - Remodel Crew Area due to displacement of Dorm.
  - Apparatus Bay (Program Size: 1,340) = Existing Size: 1,814
  - Hose Dyer & Storage Alcove (Program Size: 120) = Existing Size: 76
  - BMS /App Equip. /Major Disaster Supply Storage (Program Size: 260) = Actual Size: 130
  - Officer's Quarters (Program Size: 340) = Existing Size: 359
  - Bakery/Dinning (Program Size: 428) = Actual Size: 200
  - Dayroom (Program Size: 180) = Actual Size: 100
  - Laundry/Utility (Program Size: 210) = Actual Size: 90

**Not Included:**

- Maintenance Work Area



Architectural Site Plan/Floor Plans

Test to Fit Diagram

May 5, 2003

1002528



### Fire Station No. 41 - Battalion IV

Address: 2416 - 34th Avenue W  
 Year Built: 1936  
 Station Category: Prior to 1954 and Historic  
 Zoning: NC 2-40  
 Site Area: 10,224  
 Existing S.F.: 4,500

**Station Condition:**  
 Station 41 is a historic station located in Magnolia. It was extensively renovated in 1988. Although the renovation included seismic bracing, minor structural work may be required to bring the station up to current standards. It is basically sound, but building systems (roof, heating, electrical service) and equipment are old and should be replaced. The station is too small to accommodate modern firefighting methods and apparatus, but can be expanded without compromising its historic character.

**Planned Operational Requirements**  
 This station is planned to accommodate the following  
**Core Station Companies:**  
 Engine 4  
**Supporting Operations:**  
 Reserve Engine  
  
**Total Renovated and Expanded Area: 6,460 SF**

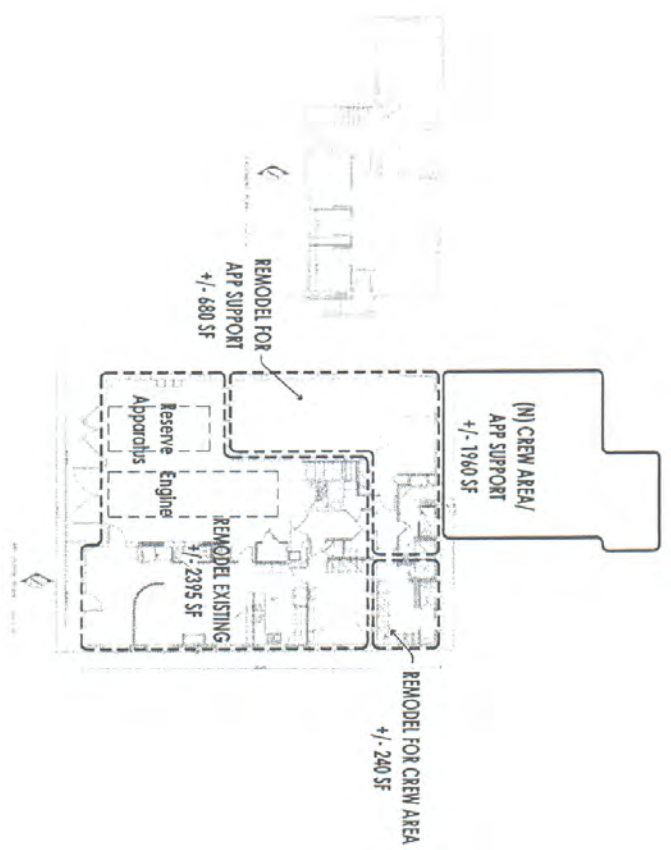
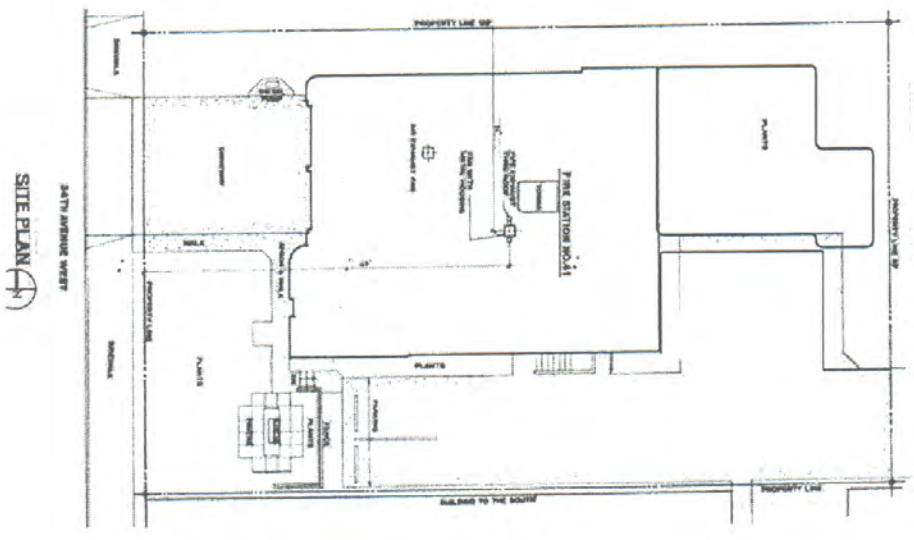
**PROJECT DESCRIPTION:**

**MAJOR RENOVATION and EXPANSION** -- The structure will be seismically upgraded only as required by the expansion design. The interior will be reconfigured and expanded to accommodate modern fire operations. The existing floor area of 4,500 SF will be supplemented by an expansion of the fire station at the northeast corner of the site. Approximately 3,300 SF of the existing station will be remodeled to efficiently locate apparatus support functions such as decontamination, bunker gear storage, EMS storage and maintenance. The total expansion area of 1,960 SF is dedicated to firefighter crew areas displaced by the apparatus support functions.

This historic structure requires careful consideration in the treatment to the existing front facade of the building. Of special concern is the existing apparatus bay doors. The width of the doors is too narrow to safely and efficiently operate modern fire apparatus. Two design options include widening the one bay door and relocating the center column or removing the center column. A second concern is the careful design of the addition so that it does not detract from the original character of the building. Retention of the historical character must be balanced with the mission of the facility which is to support fire operations.

All required parking can be accommodated on site.





**PROGRAMMED OPERATIONAL REQUIREMENTS**

Baseline:	
Neighborhood I	6,972
Engine 4	
Supporting Operations	1,206
Reserve Engine	
Emergency Cache	
None	
Future Operations	
None	
Total Program Square Footage:	8,178
Program area not accommodated:	1,718
Total Building Square Footage:	6,460

**PROGRAM COMPONENTS**

- Modifications to Program:**
- Apparatus Bay (Program Size: 2688) = Existing Size: 1,060
  - Officers Quarters (Program Size: 340) = Existing Size: 150
  - Recovery (Program Size: 210) = Existing Size: 150
  - Dining Area (Program Size: 218) = Existing Size: 150
  - Dryroom (Program Size: 180) = Existing Size: 150
  - Physical Training (Program Size: 410) = Existing Size: 150

**Not Included:**

- Behavior



Architectural Site Plan/Floor Plans

**Test to Fit Diagram**

May 5, 2003

1002528

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## APPENDICES

- A-1: OPERATIONS SUMMARY MATRIX
- A-2: SPACE NEEDS SUMMARY
- A-3: FURNITURE BUDGETS – BY STATION TYPE
- A-4: EQUIPMENT BUDGETS – BY STATION TYPE



**A-1: OPERATIONS SUMMARY MATRIX**



City of Seattle Fire Department  
FIRE FACILITIES

Operations Summary Matrix

Station No.	Planned Station Operations			Core and Supporting Operations				Cache and Potential Growth			Seattle Fire Stations Operational Plan Summary			
	Type	Apparatus	Staffing	Existing Building Designation	Facility Baseline	Special Support Unit	Current Reserve Apparatus Storage	Core/Supporting Operations SF	Emergency Cache	ALS/BLS Aid-ons	Total Operational Plan Square Footage	Improvement Type	Project Budget	Station No.
2	Downtown	Engine (E2) Ladder (L4) Ad (A2) BC	4 4 2 1  11 total	Historic	Battalion (B 25) Bay=3686 AP Supp=1892 Admin=1228 Crew=3069 Training=1276 Equip/Crs=1008 Circ/Struct=2271	Wellness/Fitness	Medic Reserve (MARS) 5320 BC Reserve (Bc-3764)		Fragmentation Cache	Yes		Restoration and Expansion	\$5,395,216	2
5	Westfield / Downtown	Engine (E5) Fire Boat (E-4)	4 4  8 total	Not Historic	Neighborhood II Bay=2660 AP Supp=1624 Admin=1231 Crew=2495 Equip/Crs=656 Circ/Struct=1777	Fire Boat Maintenance Shop	Sedan (3762) (Use Nil 2nd Bay)	27,471	800	2,395	34,216	Replacement	\$7,519,656	5
6	Neighborhood	Engine (E6) Ladder (L3)	3 4  7 total	Historic	Neighborhood II Bay=2680 AP Supp=1624 Admin=1231 Crew=2495 Equip/Crs=656 Circ/Struct=1777	None	None	11,219	0	0	11,219	Replacement	\$5,138,629	6
8	Neighborhood	Engine (E8) Ladder (L8)	3 4  7 total	Not Historic	Neighborhood II Bay=2680 AP Supp=1624 Admin=1231 Crew=2495 Equip/Crs=656 Circ/Struct=1777	None	None	10,663	0	2,365	13,050	Seismic/Safety	\$976,947	8
9	Neighborhood	Engine (E9) Air Unit	4 1  5 total	Not Historic	Neighborhood I Bay=1390 AP Supp=1087 Admin=846 Crew=1711 Equip/Crs=826 Circ/Struct=1162	Air Unit Cascabe System (Includes quarters for 1 air unit support personnel)	None	10,663	0	0	8,140	Replacement	\$3,256,328	9
10	Downtown	Engine (E10) Ladder (L1) Ad (A10) BC (E10B)	4 4 2 1 12 total	Historic	Downtown Bay=1340 AP Supp=1087 Admin=846 Crew=1711 Equip/Crs=826 Circ/Struct=1162	South Haz Mat Unit #77 (Included in HQ total)	None	8,178	0	0	8,178	Replacement	\$14,762,363	10
11	Neighborhood	Engine (E11)	4   4 total	Not Historic	Neighborhood I Bay=1340 AP Supp=1087 Admin=846 Crew=1711 Equip/Crs=826 Circ/Struct=1162	None	1185 Truck	33,686	0	0	32,179	Seismic/Safety	\$950,909	11

Planned Station Operations			Core and Supporting Operations					Cache and Potential Growth			Seattle Fire Stations Operational Plan Summary			
Station No.	Type	Apparatus	Staffing	Existing Building Designation	Facility Baseline	Special Support Unit	Current Reserve Apparatus Storage	Core/Supporting Operations SF	Emergency Cache	ALS/BLS Additions	Total Operational Plan Square Footage	Improvement Type	Project Budget	Station No.
13	Neighborhood	Engines (E13)	4 4 total	Historic	Neighborhood I Bays=1340 AP Supps=1087 Admin=846 Crew=1711 Equip/Cir=826 CircStruct=1162 G:972	None	None	6,972	None	None		Seismic/Safety	\$426,177	13
14	Neighborhood	Ladder (E14) Aid (A14) BC (B5)	4 2 1 7 total	Historic	Battalion (2 Companies) Bay=2650 AP Supps=1624 Admin=1231 Crew=2495 Equip/Cir=656 CircStruct=1777 BC Office/Training = 3572	South Rescue Unit w/ Rescue Van and Storage Tunnel Rescue #1	Reserve BC (96 3765) (852)	6,972	0	0	5,020	Restoration and Expansion	\$9,654,749	14
15	Neighborhood	Engine (E15)	4 4 total	Historic	Neighborhood I Bay=1340 AP Supps=1087 Admin=846 Crew=1711 Equip/Cir=826 CircStruct=1162 6,972	None	1,206 None	18,109	0	2,396 None	19,345	Seismic/Safety	\$568,301	15
17	Battalion	Engine (E17) Ladder (L9) Medic (M17) BC (B6) Medic	3 4 2 1 2 12 total	Historic	Battalion + Medic Bay=3666 AP Supps=3784 Admin=2025 Training=1270 Crew=3081 Equip/Cir=876 CircStruct=2966 19,122	Tunnel Rescue #2	96-3763 (866 BC Reserve)	6,972	0	0	5,000	Restoration and Expansion	\$3,798,342	17
18	Battalion	Engine (E18) Ladder (L8) Medic (M18) BC (B4)	3 4 2 1 10 total	Not Historic	Battalion Bays=866 AP Supps=3784 Admin=2025 Training=1278 Crew=3081 Equip/Cir=876 CircStruct=2966 17,918	None	L364 - Truck Reserve BC (96-3760 B44) Reserve Hose 19 (H371) Reserve Medic (WAS7-5324) 4,824	21,534	0	2,396 None	22,110	Seismic/Safety	\$397,878	18
20	Neighborhood	Engine (E20)	4 4 total	Not Historic	Neighborhood I Bay=1340 AP Supps=1087 Admin=846 Crew=1711 Equip/Cir=826 CircStruct=1162 6,972	Marine Support Unit	Reserve Engine	27,740	0	0	21,000	Replacement	\$3,518,656	20
21	Neighborhood	Engine (E21)	4 4 total	Not Historic	Neighborhood I Bay=1340 AP Supps=1087 Admin=846 Crew=1711 Equip/Cir=826 CircStruct=1162 6,972	Mass Casualty Incident Unit with Storage	1,206	8,434	0	0	0,434	Replacement	\$3,041,276	21
						1,206	0	8,178	0	0	8,178			

Planned Station Operations				Core and Supporting Operations				Cache and Potential Growth			Seattle Fire Stations Operational Plan Summary			
Station No.	Type	Apparatus	Staffing	Existing Building Designation	Facility Baseline	Special Support Unit	Current Reserve Apparatus Storage	Core/Supporting Operations SF	Emergency Cache	ALS/BSL Add-ons	Total Operational Plan Square Footage	Improvement Type	Project Budget	Station No.
22	Neighborhood	Engine (E22)	4 4 total	Not Historic	Neighborhood I Bay=1340 AP Supp=1087 Admin=846 Crew=1711 Equip/Cir=626 Circ/Struct=1162 6,972	Incident Command Vehicle 1,206 None	None 0 E319 - Engine	8,178	None 0	None 0	8,178	Replacement	\$3,865,054	22
24	Neighborhood	Engine (E24)	4 4 total	Not Historic	Neighborhood I Bay=1340 AP Supp=1087 Admin=846 Crew=1711 Equip/Cir=626 Circ/Struct=1162 6,972	None 1,206 None	None E319 - Engine 0	8,178	None 0	None 0	8,178	Seismic/Safety	\$781,079	24
25	Battalion	Engine (E25) Ladder (L10) Aid (A15A) BC Training	4 4 2 0 11 total	Not Historic	Battalion (Office at No. 2) Bay=3866 AP Supp=1992 Admin=1328 Training=1278 Crew=3089 Equip/Cir=1058 Circ/Struct=2526 15,157	Hose unit whose storage (lose 25) Power 25 1,206	H317 - Aid Reserve L303 - Truck 1,206	8,178	None 0 Yes	0 2,308	4,970	Seismic/Safety	\$621,131	25
26	Neighborhood	Engine (E26)	4 4 total	Not Historic	Neighborhood I Bay=1340 AP Supp=1087 Admin=846 Crew=1711 Equip/Cir=826 Circ/Struct=1162 6,972	Air 260 with cylinder storage 1,206	None 2,412	18,775	None 0	None 2,308	18,560	Seismic/Safety	\$644,947	26
27	Neighborhood	Engine (E27)	4 4 total	Not Historic	Neighborhood I Bay=1340 AP Supp=1087 Admin=846 Crew=1711 Equip/Cir=826 Circ/Struct=1162 6,972	None 1,206	Decon 27 Flitbed Crane Truck (store all in single bay) 0	8,178	None 0	None 0	8,900	Seismic/Safety	\$681,134	27
28	Neighborhood	Engine (E28) Ladder (L12) Medic (M26)	3 4 2 9 total	Not Historic	Neighborhood III Bay=3606 AP Supp=1992 Admin=1328 Crew=3009 Equip/Cir=1058 Circ/Struct=2271 13,624	0	None 1,206	8,178	USAR MMRS 0	None 0	5,960	Retain/Re	\$4,946,342	28
29	Neighborhood	Engine (E29)	4 4 total	Not Historic	Neighborhood I Bay=1340 AP Supp=1087 Admin=846 Crew=1711 Equip/Cir=626 Circ/Struct=1162 6,972	None 0	E320 - Engine 1,206	8,178	None 0	None 0	5,754	Seismic/Safety	\$787,355	29

Planned Station Operations			Core and Supporting Operations				Cache and Potential Growth			Seattle Fire Stations Operational Plan Summary				
Station No.	Type	Apparatus	Staffing	Existing Building Designation	Facility Baseline	Special Support Unit	Current Reserve Apparatus Storage	Core/Supporting Operations SF	Emergency Cache	ALS/BLS Add-ons	Total Operational Plan Square Footage	Improvement Type	Project Budget	Station No.
30	Neighborhood	Engine (E30)	4	Not Historic	Neighborhood I Bay=1340 AP Supp=1087 Admin=846 Crew=1711 Equip/Care=826 CircStuct=1162	None	E318 - Engine	8,178	None	None	8,178	Replacement	\$3,123,064	30
			4 total											
31	Neighborhood	Engine (E31) Ladder (L5) Medic (M31)	4	Not Historic	Neighborhood III Bay=3866 AP Supp=1592 Admin=1328 Crew=3089 Equip/Care=1658 CircStuct=2271	North End Haz Mat (Locate in Basement)	MIA96-3780 Medic Trailer mounted Generator	8,178	None	Yes	8,178	Seismic/Safety	\$1,680,783	31
			4											
			2											
			10 total											
32	Neighborhood	Engine (E32) Ladder (L1) Medic (M32) BC	4	Not Historic	Battalion Bay=3866 AP Supp=3764 Admin=2025 Training 1278 Crew=3081 Equip/Care=826 CircStuct 2966	None	Reserve Medic BC Reserve (96-3760 B77)	17,498	Fragmentation Cache	2,356 None	19,858	Replacement	\$7,129,792	32
			4											
			2											
			1											
			10 total											
33	Neighborhood	Engine (E33)	4	Not Historic	Neighborhood I Bay=1340 AP Supp=1087 Admin=846 Crew=1711 Equip/Care=826 CircStuct=1162	None	Reserve Engine	19,122	None	0	19,122	Seismic/Safety	\$774,508	33
			4											
			4 total											
34	Neighborhood	Engine (E34)	4	Not Historic	Neighborhood I Bay=1340 AP Supp=1087 Admin=846 Crew=1711 Equip/Care=826 CircStuct=1162	None	E-354 - Engine	8,178	None	None	8,178	Seismic/Safety	\$638,769	34
			4											
			4 total											
35	Neighborhood	Engine (E35)	4	Not Historic	Neighborhood I Bay=1310 AP Supp=1087 Admin=846 Crew 1711 Equip/Care=826 CircStuct=1162	None	M37-523 - Medic Engine F169	8,178	None	None	4,413	Replacement	\$3,455,902	35
			4											
			4 total											
36	Neighborhood	Engine (E36)	4	Not Historic	Neighborhood I Bay=1340 AP Supp=1087 Admin=846 Crew=1711 Equip/Care=826 CircStuct=1162	Marine Specialty (Unit 59)	None	2,412	None	0	9,384	Seismic/Safety	\$874,127	36
			4											
			4 total											
			1,206				0	8,178	0	0	5,305			

Planned Station Operations			Core and Supporting Operations					Cable and Potential Growth			Seattle Fire Stations Operational Plan Summary			
Station No.	Type	Apparatus	Staffing	Existing Building Designation	Facility Baseline	Special Support Unit	Current Reserve Apparatus Storage	Core/Supporting Operations SF	Emergency Cache	ALS/BLS Add-ons	Total Operational Plan Square Footage	Improvement Type	Project Budget	Station No.
37	Neighborhood Engine (E37)	Engine (E37)	4 4 total	Historic	Neighborhood I Bay=1340 AP Supp=1087 Admin=846 Crew=1711 Equip/Cir=826 Circ/Struct=1162 6,972	None	E365 - Engine	8,178	None	None	8,178	Replacement	\$3,763,320	37
38	Neighborhood Engine (E38)	Engine (E38)	4 4 total	Historic	Neighborhood I Bay=1340 AP Supp=1087 Admin=846 Crew=1711 Equip/Cir=826 Circ/Struct=1162 6,972	None	Reserve Engine	8,178	None	None	8,178	Replacement	\$3,453,320	38
39	Neighborhood Engine (E39)	Engine (E39)	4 4 total	Not Historic	Neighborhood I Bay=1340 AP Supp=1087 Admin=846 Crew=1711 Equip/Cir=826 Circ/Struct=1162 6,972	Multi-Rescue Unit	E355 - Engine	8,178	Fragmentation Cache	None	8,178	Replacement	\$4,752,182	39
40	Neighborhood Engine (E40)	Engine (E40)	4 4 total	Not Historic	Neighborhood I Bay=1340 AP Supp=1087 Admin=846 Crew=1711 Equip/Cir=826 Circ/Struct=1162 6,972	None	E339 - Engine	9,640	800	None	10,440	Seismic/Safety	\$186,036	40
41	Neighborhood Engine (E41)	Engine (E41)	4 4 total	Historic	Neighborhood I Bay=1340 AP Supp=1087 Admin=846 Crew=1711 Equip/Cir=826 Circ/Struct=1162 6,972	None	Reserve Engine	8,178	0	None	8,100	Renovation and Expansion	\$1,876,593	41
											6,460		\$100,361,903	



**A-2: SPACE NEEDS SUMMARY**



Appendix A-2

SPACE NEEDS SUMMARY

Each of the Test to Fit diagrams addressing renovation or seismic/safety work include a listing of program modifications. The program modifications shown on the diagram pages are net square footage, approximated and are for future design consideration only. They will not roll-up into the total square footage for program area not accommodated.

TYPES OF SPACES	Neighborhood I Square Footage	Neighborhood II Square Footage	Neighborhood III Square Footage	Battalion Station Square Footage	Supporting Operations Square Footage	Seismic/Safety Square Footage (varies based on remodel)
<b>CORE &amp; OPERATIONS SUPPORT</b>						
Apparatus Bay	1,340	2,680	3,886	3,886		
Hose Dryer & Storage Alcove	120	120	120	120		
Report Desk/Dispatch Counter	24	24	24	24		
Battery Charging Alcove	24	24	24	24		
Decontamination/Clean Room	200	200	238	250		
Maintenance Work Area	100	160	200	200		
Compressor	20	20	20	20		
Bunker Gear Room	243	460	620	522		
EMS Storage	80	110	200	200		
Apparatus Equip Storage	100	250	250	250		
Major Disaster Supply Storage	80	160	200	240		
Janitor	36	36	36	36		
Apparatus Restroom - Unisex	60	60	60	60		
BC Bay				1,206		
Drilling Platform				216		
Hose Storage				192		
BC Storage				80		
SCBA/Air Fill				240		
<b>ADMINISTRATION AREA</b>						
Public Lobby	140	140	140	140		
Station Office	270	315	414	414		
Officers Qtrs	240	680	678	678		
Accessible Restrom - Unisex	60	60	60	120		
Janitor	36	36	36	36		
BC Office & Qtrs				493		
General Office Support Area				64		
Receiving Area				64		
<b>CREW AREA</b>						
Kitchen (Beanery)	210	248	268	268		
Dining (Beanery)	218	248	325	325		
Day Room	180	266	360	352		
Physical Training	410	410	480	480		
Firefighter Bunk Rooms - Single	144	432	576	576		
Locker Room Alcoves	162	324	432	432		
Firefighter Bunk Room - Double	99	198	198	198		
Toilet/Shower Rooms	162	243	324	324		
Laundry/Utility	90	90	90	90		
Janitor at second floor	36	36	36	36		
<b>EQUIPMENT AND CIRCULATION</b>						
Electrical Room	80	80	100	100		
Communication Room	64	64	64	64		
Mechanical Room	150	150	200	150		
General Storage	100	130	150	130		
Stairs	320	320	320	320		
Elevator	112	112	224	112		
<b>TRAINING</b>						
Training Room				1,038		
Table/Chair Storage				104		
Service Area				48		
Training Storage				88		
Circulation/Structural (20%)	1,162	1,777	2,271	2,966		
<b>TOTAL</b>	<b>6,972</b>	<b>10,663</b>	<b>13,624</b>	<b>17,916</b>		
<b>SUPPORTING UNITS</b>						
Reserve/Specialty/Incident Command						
Apparatus Bay					1,206	
Storage					256	
				<b>Total</b>	<b>1,462</b>	
Hazardous Materials/Special Rescue Units						
Apparatus Bay					1,206	
Storage					256	
				<b>Total</b>	<b>1,462</b>	
<b>EMERGENCY CACHE</b>						
Fragmentation (Storage Room)				<b>Total</b>	<b>800</b>	
<b>USAR/MMRS</b>						
Apparatus Bays					2,400	
Storage					3,000	
				<b>Total</b>	<b>5,400</b>	
<b>SEISMIC/SAFETY</b>						
Physical Training						
EMS/Apparatus Equipment/Major Disaster Storage						
Decontamination/Clean Room						
Bunker Gear Storage						
Air Fill/SCBA						