
**MITCHELL ASSOCIATES ARCHITECTS
• EMERGENCY SERVICES FACILITIES •**

**CITY OF BEACON
FIRE DEPARTMENT
PHASE 1 FEASIBILITY STUDY OF
ALTERNATIVE SOLUTIONS FOR THE
EXISTING FIRE STATIONS**

May 24, 2006

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Background

On Monday, August 8, 2005 Robert Mitchell met with the City Manager Joe Braun, Fire Chief Tim Joseph and Lieutenant Tim Dexter to review current and future needs of the Fire Department. On Tuesday Mitchell returned and toured the existing three fire stations with the Chief and Lieutenant. Based on these visits and conversations, Mitchell Associates Architects (MAA) proposed to perform a feasibility study to evaluate the City's options and help the City make the wisest possible choices going forward. To that end MAA propose to perform the following tasks and evaluate the following options:

Task 1 – Perform a *Preliminary Evaluation* of the physical condition of the three existing fire stations to determine in a general sense their adaptability for renovations and/or additions. This evaluation will be general and architectural, and will not include an engineering analysis of structure or mechanical systems.

Task 2 – Develop a *User Needs Analysis* (Program) that looks forward, attempting to identify the needs of the Department for the next 25 years.

Task 3 – Using the results Tasks 1 & 2, determine if any of the three stations can accommodate an *addition sufficient to meet the forecasted need*.

Task 4 – In the event that none of the existing stations prove to be adaptable for the scale of renovations and additions indicated in Task 2, evaluate *alternative locations* for a new fire station.

This project was undertaken with the full understanding that fire protection for the City of Beacon is provided by volunteers from three independent fire companies working in conjunction with the City's career staff. With that in mind, every effort has been made to ensure that each stakeholder has full opportunity to express its positions and goals.

Specific Work Items

Item 1 - CAD Input of Headquarters and Tompkins Hose

The goal was to develop base CAD drawings to allow an examination of the possibilities for additions and renovations. Due to the severe limitations of the site for Engine #1, the Committee determined that it would not be reasonable to contemplate additions there. The City Building Department provided us with copies of blueprints from the construction of Tompkins Hose in 1980, and the renovations to Headquarters and Engine #1 in 1977. Simplified versions of these drawings were input into our CAD software and provided to the City. These files became the basis of the diagrammatic designs described below.

Item 2 - Preliminary Review of the Existing Buildings

We have visited each station, made observations and have reviewed drawings of each station. Each building has significant deficiencies ranging from life safety risks to impediments to proper fire station operation. As is to be expected, Tompkins Hose, being the newest station has the fewest problems; however, it is far from meeting current standards for a proper fire station. Both Headquarters and Engine One are completely inappropriate to be fire stations in their current condition. A summary of some of the deficiencies found is included in Appendix A.

Item 3 - Programming Process

MAA provided a programming template that was distributed to sub-committees of the programming committee for their individual input. These program committees were:

- Engine Company #1 – President of Company Mike Angeloni & Tom DiCastro, Sr.
- Mase Hook & Ladder – President of Company Jerry Antalek & Fred Antalek
- Lewis Tompkins Hose Company #1 – Vice Pres. Of Company Reverend Owen Merser & Dennis Lahey, Sr.
- Administration – Chief Joseph & Lieutenant Dexter
- Career Staff – Tim Dexter, Jr.

Each sub-committee was made up of range of representatives, and typically had between 8 and 10 members. After a series of meetings, each sub-committee submitted a program document identifying its needs. The documents were reviewed and refined by the Committee with MAA, and spreadsheets were developed to determine the building sizes required to meet the stated needs.

The programming meetings had additional participation by:

- Fire Advisory Board – Chair Pat Kelliher, Tony Piccone & Jeff Simko
- Planning Board – Chair Jay Hibbs

MAA met with the programming committee in working sessions starting in November. Over the course of these meetings, the separate groups shared their thoughts regarding their space needs, attachment to their existing facilities, the rich history and tradition of the companies, their feelings about additions, alterations to existing facilities and construction of a new facility. The results can be summarized as follows:

- Any one of the three companies, if it were to remain alone in its own building has similar needs. The previous statement only addresses the requirements to operate the individual Company, and excludes the following:
 1. Differences in the size of required apparatus bay space (eg. Ladder vs. Pumper).
 2. The existence of a large meeting room versus a small meeting/training room.
 3. The location of Departmental offices that are distinct from the Company offices.

Item #1 (Apparatus Bays) - it is necessary to evaluate the number of pieces of apparatus to be assigned to any individual Company. Projecting 30 years the programming committee felt the Department would need to have a total of 8 bays to support the fire, rescue, EMS and support functions of the dept with no station having less than 2. This leaves a range of possibilities of from 2 to 8 pieces of apparatus in any building.

Item #2 (Meeting/Training Rooms) – Each station currently has a recreational space, but only Tompkins has a “Meeting Room.” The question is where this function will be located in the future. In the course of this study we identified the following possible arrangements:

- The large meeting room remains at Tompkins, and smaller Meeting/Training room(s) are located at one or two other stations.

- The large meeting room is relocated to a new building to house Mase & Engine #1, and the existing space at Tompkins is reduced to a smaller Meeting/Training room.
- A new central station is built with a large Meeting/Training room and the existing stations closed.

Item #3 (Departmental Offices) – Office and storage space currently available for administration of the Department is grossly deficient. Furthermore, these needs will grow over time as the State and Federal requirements for training and documentation increase. Necessary spaces include the following:

- Chief's Office
- Department Officers
- Company Chiefs
- Tour Commander/Career Officer
- Department Secretary/Receptionist
- Conference Room
- Fire Prevention
- Offices for Training, Safety and EMS
- Records Storage
- Storage for the Conference Room

The need for these spaces was discussed at length, and **there was a clear agreement within the Committee that the future needs of the Department would not be met without these physical spaces.**

The programs are attached as Appendix B

Item 4 - Summary of Programming Results

The first thing that was determined and agreed to was the basic space needs that would apply equally to any single Company. The required area was determined in the abstract, ignoring any existing available space, and becomes the groundwork for evaluating the ability of the existing buildings to meet future requirements.

Required Space if One Story – 14,550 sq ft

Required Space if Two Story – 15,900 sq ft (16,609 if at Tompkins)

Required Space if Three Story – 17,250 sq ft

Existing at Headquarters – 7,038 sq ft Required Addition – 10,212 sq ft

Existing at Tompkins Hose – 10,133 Required Addition – 6,476 sq ft

After Engine #1 was evaluated for an addition the consulting Architects determined that the topography of the site precludes building a cost effective addition.

After evaluating the required expansion for individual companies, we calculated the space requirements for various combinations of number of companies and height of the building. In each case, we included the Departmental offices in the facility. The following spreadsheet summarizes the results. The results reflect economies of having multiple companies sharing common resources, and dis-economies of multi-story facilities due to space requirements for vertical circulation and redundancies of rooms such as bathrooms, janitor’s closets and utility rooms.

	One Company w/ Departmental Spaces	Two Companies w/ Departmental Spaces	Three Companies w/ Departmental Spaces
One Story			
Building Size	24,500	27,174	34,090
Apparatus Bay	5,709	5,709	9,135
Firematic Support & Mezzanine	3,339	3,765	4,790
Office & Public Area	15,452	17,701	20,165
Footprint (1)	23,300	25,974	32,890
Min Lot Size In Acres (100 cars)			1.95
Preferred Lot Size			2.45
Two Stories			
Building Size	25,870	28,544	35,460
Apparatus Bay	5,709	5,709	9,135
Firematic Support & Mezzanine	3,339	3,765	4,790
Office & Public Area	16,822	19,071	21,535
Footprint (2)	16,312	17,842	23,396
Min Lot Size In Acres (100 cars)			1.92
Preferred Lot Size			2.42
Three Stories			
Building Size	26,450	29,124	36,040
Apparatus Bay	5,709	5,709	9,135
Firematic Support & Mezzanine	3,339	3,765	4,790
Office & Public Area	17,402	19,651	22,115
Footprint (2)	14,475	15,123	20,154
Min Lot Size In Acres (100 cars)			1.76
Preferred Lot Size			2.26

Appendix C contains 11 spreadsheets (6 @ 8 ½ x 11 and 5 @ 11 x 17) that describe the existing conditions at Mase and Tompkins, and the following options:

- Basic one-company building areas
- Combinations of one, two or three companies in one building, for either one, two or three stories.
- Mase & Engine 1 located at Mase site with renovations and additions
- Tompkins hose with either one or two additional companies at Tompkins Hose site, with a new exterior skin and roof system.
- Minimal additions and renovations at Tompkins Hose with a large meeting room, with a new exterior skin and roof system.
- Minimal additions and renovations at Tompkins Hose with **no** large meeting room, with a new exterior skin and roof system.

Item 5 - Diagrammatic Block Floor Plans for up to Two Solutions and Diagrammatic Site Designs for up to Two Locations

MAA was contractually obligated to provide block diagrams floor plans and site plans for up to two solutions that would depict the conclusion of the Committee. As is so often the case in the real world, many more opportunities presented themselves, and we felt it was appropriate to evaluate them by means of a drawing. Appendix D contains the following drawings:

- L1 – 3 companies plus Departmental offices, 1 story, back-in, on a tight site
- L2 – 3 companies plus Departmental offices, 2 stories, back-in, on a tight site
- L3 – 3 companies plus Departmental offices, 3 stories, back-in, on a tight site
- L4 – 3 companies plus Departmental offices, 1 story, drive-thru, on an optimal site
- L4A – 3 companies plus Departmental offices, 2 stories, drive-through, on a tight site
- L5 – Mase & #1, plus Departmental offices & large meeting, new 2 stories on a tight site
- L6 – Mase & #1, plus Departmental offices, **no** large meeting, new building, 2 stories on a tight site
- L7 – Mase & #1, plus Departmental offices & large meeting, renovation of Mase w/ addition located on site of former City Hall, 3 stories on a tight site
- L8 – Mase & #1, plus Departmental offices, no large meeting, renovation of Mase w/ addition located on site of former City Hall, 2 stories on a tight site
- L9 – Mase alone, renovation w/ addition, 3 stories on its current, tight site
- L10 & 11 – 3 companies plus Departmental offices & large meeting, renovation of Tompkins w/ addition, 2 stories on its current tight site
- L12 & 13 – Tompkins and Mase plus Departmental offices & large meeting, renovation of Tompkins w/ addition, 2 stories on its current tight site
- L14 & 15 – Tompkins alone & large meeting, renovation of Tompkins w/ addition, 2 stories on its current tight site
- L16 – Engine #1 alone, 2 stories, on the current parking lot site w/ acquisition of the adjacent house
- L17 – Acquisition of the Brandley Dye Works, with renovations and additions

Item 6 - New Site Requirements

As shown in the spreadsheet above, and in diagrams L1 through L17, the new site requirements vary greatly, based on what combination of companies is going to occupy the site. For a new building, housing all firematic functions, the required area varied from just under 2 acres for a 3

story building with adequate parking spaces to just under 3 acres for a 1 story building with 100 parking spaces and recreation/expansion space.

Item 7 - Review of Alternative Prospective Sites

On 2/27/06 Chief Joseph and Lieutenant Dexter brought me to see 13 locations being considered by the Committee. These locations are:

1. South Avenue Park
2. The Elks Club
3. Sargent School Access Road, West Side
4. Sargent School Access Road, East Side
5. Former Ski Lodge
6. Left of, and adjacent Madame Brett
7. Memorial Park
8. Chem Prene
9. Adjacent City Hall
10. North Cedar Street
11. Old DMV site on Main Street
12. Brandley Dye Works
13. 578 Main Street

The properties range from easily developed, well located parcels such as Memorial Park to tight sites such as Liberty/East Main and North Cedar, to politically challenging sites such as DMV and Madame Brett (both of which are also small), to sites at the edge of the response area such as the former ski lodge and Chemprene. The land adjacent City Hall falls steeply from 9D and would be extremely expensive to develop. The Sargent School access road and Elks Club sites proximity to children is a challenge. 578 Main has potentially high demolition costs and appears to be below the flood plain.

Finally, there is the Brandley Dye works. This parcel offers a unique opportunity to rejuvenate and stimulate investment in an area of great potential. It offers significant architectural opportunities that can stimulate investors to make the types of property improvements that will have great and long lasting positive impact on the City.

Further documentation regarding the incremental site development costs is included as Appendix E, our observations regarding the sites are included as Appendix F, and aerial views are included as Appendix G.

Item 8 - Preliminary Budgets of Alternative Solutions

Instead of the two budget figures proposed in the original scope of work attached are 6 detailed Conceptual Budgets. These are for the following:

- Three companies, 2 stories on a tight site (L2)
- Mase & Engine #1, 1 story new construction on a tight site (L5)
- Mase & Engine #1, renovation plus 2 story addition, but no large meeting room (L8)
- Tompkins alone, with minor additions, keeping the large meeting room (L14 & 15)
- Engine #1 alone, 2 story, across from its current site (L16)
- Brandley Dye Works additions and renovations (L17)

In addition, we have provided a preliminary evaluation of the incremental site development costs relative to the “base” site development cost, which is based on Memorial Park.

INCREMENTAL SITE DEVELOPMENT COSTS

ITEM	DESCRIPTION	AMOUNT
1	SOUTH AVE PARK	\$50,000
2	ELKS CLUB	\$25,000
3	COMBINED SARGENT SITES	\$150,000
4	SARGENT SITE 1 ALONE	\$250,000
5	SARGENT SITE 2 ALONE	\$425,000
6	MEMORIAL PARK	NO UNUSUAL COSTS ASSOCIATED WITH THIS SITE
7	CHEM PRENE	\$125,000
8	CITY HALL	\$500,000
9	BRANDLY DYE WORKS	\$75,000
10	578 MAIN	\$100,000
11	SKI LODGE	NO UNUSUAL COSTS ASSOCIATED WITH THIS SITE

The results of the budget analysis are as follows:

Option	Notes	Gross Hard Cost	Gross Square Footage	HardCost Per Square Foot
THREE COMPANIES, 2 STORIES, TIGHT SITE – L2	New building on a new site	\$7,479,600	35,424	\$211.14
THREE COMPANIES, 1 STORY, TIGHT SITE – L1 (*)	New building on a new site	\$6,903,785	33,677	\$205.00
MASE & ENGINE #1, 1-STORY ON A TIGHT SITE – L-5	New building on a new site	\$6,335,500	26,761	\$236.74
MASE & ENGINE #1 WITHOUT LARGE MEETING ROOM - L8	Renovation & addition at Mase, (requires acquisition & demolition of old City Hall)	\$6,109,600	23,087	\$264.63
TOMPKINS HOSE ALONE WITH MINOR ADDITIONS - L-14, L-15	Has only small Training Room	\$2,782,900	13,030	\$213.58
TOMPKINS HOSE ALONE WITH MINOR ADDITIONS - L-14, L-15	Has large Meeting Room	\$3,338,500	16,163	\$206.55
ENGINE #1 ONLY, 2-STORY WITH PROGRAM ADDITIONS - L-16	New building on site across from existing station - purchase of adjacent house site	\$3,838,500	14,550	\$263.81
BRANDLEY DYE WORKS CENTRAL STATION FOR THREE COMPANIES L-17	Renovations & Additions at the Brandley Dye Works	\$7,479,800	35,680	\$209.64

(*) This cost was extrapolated by the Architect from data supplied by the Estimator. The costs estimates are included as Appendix H.

Soft Costs, Land Costs and Income and Tax Revenue from the Sale of Existing Properties

In addition to the hard construction costs, the project will incur “soft costs” in the order of magnitude of \$1,100,000 to \$1,250,000. Soft costs include professional fees (architect, engineer, surveyor, geotechnical, accounting, legal, etc.), Clerk-of-the-works, testing, insurance, bonding costs, furniture, furnishings, fit up, equipment, etc.

As is certainly clear, some of the sites being reviewed will need to be acquired.

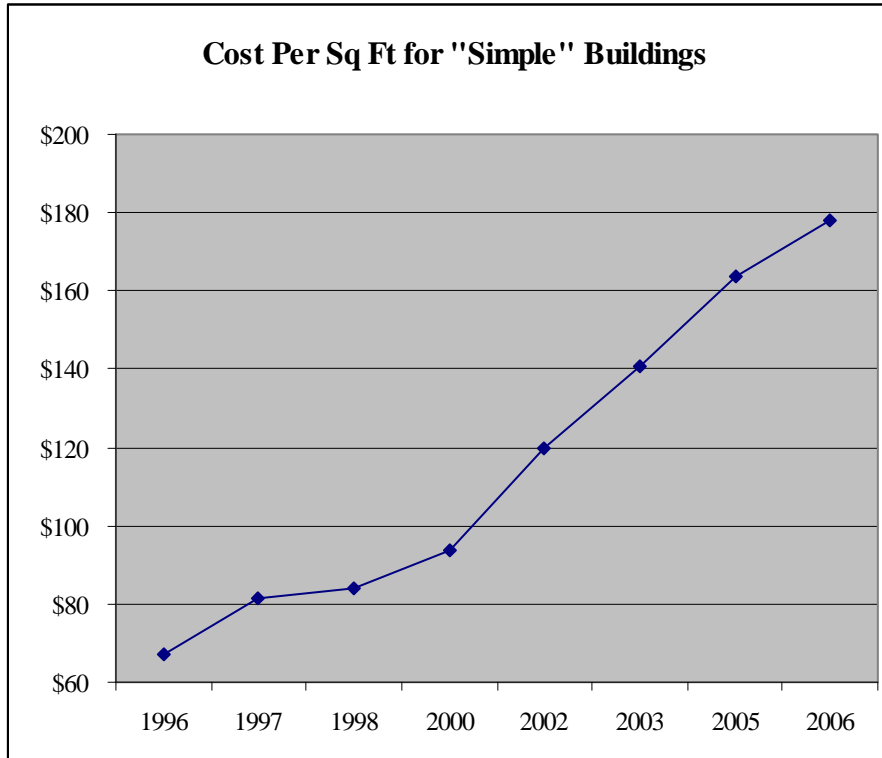
Based on which buildings are sold, the Committee has offered a complete guess that property sale income could be in the range of \$1,500,000. Of course, this assumption needs to be evaluated by means of building appraisals.

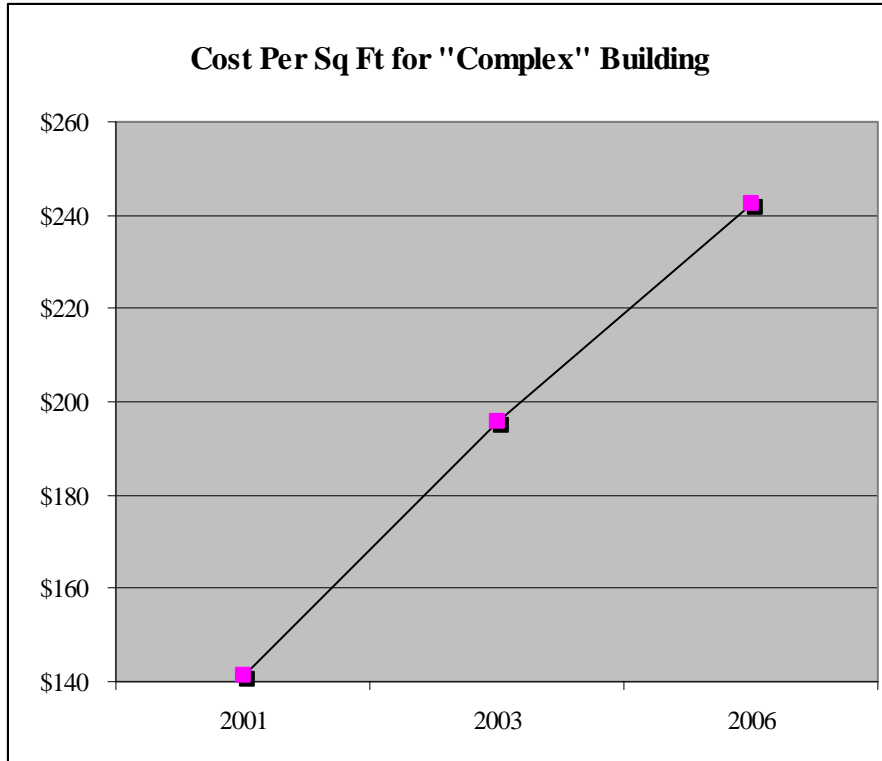
Sale of the existing fire stations would place those properties on the tax rolls.

Costs Associated with Phasing or Delay

The rate of growth in the cost of construction is far outstripping inflation in general.

The following two graphs compile this Architects experience over the past decade:





These graphs indicate an average cost growth of approximately 11.5%, well more than the 3-4% growth rate of the economy at large. You can clearly see that the graph is steeper in recent years. At an 11.5% growth rate, the cost of construction will increase 75% over the next 5 years. One might argue that this rate of growth is unsustainable. That may be so, but assuming that prices will flatten out is to deny the history of the past decade.

One scheme that was looked at by the Committee involved providing a new facility for Mase & Engine #1 now, and postponing renovation of Tompkins for five years. The costs difference would be as follows:

Build a new facility for three stations now:	\$7,479,800
Phase project over five years	
Building a new station for Mase, Engine #1, and Administration now	\$6,757,500
Renovating Tompkins in five years (\$2,782,900 Growing at 11.5%/anum)	\$4,870,075
Total Cost for Phased Project	\$11,627,575
Cost Savings for Building Entire Project Now	\$4,147,775

Architects Observations and Committee Recommendations

A central station for three companies costs in the range of \$7,500,000.

Combining Mase and Engine #1 in one facility with Administration, with Tompkins remaining in its current facility (renovated) costs on the range of \$9,540,400. Furthermore, a site would have to be found to house Mase, Engine #1 and Administration.

We explored the possibility of combining all three companies at the Tompkins Hose site. Drawings L10 and L-11 show that it is physically possible to place a large enough building on the site. However, the same drawings also show that the required shape and massing of the buildings to achieve this are extremely inefficient and expensive.

In order to have each company maintain separate quarters that meet the requirements stated in the program, the following expenses would be incurred:

- Mase in a new building - \$3,433,800
- Tompkins with renovations and additions - \$2,782,900
- Engine #1 in a new building - \$3,838,500
- Administrative Space added to Mase (11,320 sq ft) - \$2,377,200

This results in a total cost of \$12,432,400. Furthermore, the Mase & Engine would require acquisition of land.

If, as seems to this consultant and the Committee, the idea of the central station is compelling, and the City opts for a new building, then it remains to evaluate the alternative sites.

- Memorial Park is well suited from the point of view of location and topography.
- South Avenue Park is well situated, and may work well for a central station. Further analysis is needed to be absolutely sure
- The Elks club site is well suited from the point of view of location and topography, subject to the evaluation of its proximity to the school. We believe that acquisition of the Elks building would be the correct way to use this site.
- Using the two Sargent sites, with the station on the West side and parking on the East side would work well physically. The proximity to the school needs to be evaluated.
- Chem Prene and the Ski Lodge are not well located with the response area.
- The topography of the property adjacent the City Hall is a distinct disadvantage.
- The remainder of the sites that were considered are, in the Architect and Committee's opinions, too small.

The Brandley Dye works offers an unusual opportunity for the City to generate significant revitalization in an area of great potential. The construction cost is comparable to a new building; however the City would need to obtain the property.

Appendix A - Existing Conditions

Tompkins Hose

Life Safety & Accessibility

- Lack of sprinkler violates code
- Questionable make-up air
- Egress not ADA or ANSI compliant
- Vertical circulation not ADA or ANSI compliant
- Bathrooms not ADA or ANSI compliant
- No egress window in bunk room
- 80 foot long dead end corridor exceeds code
- Single means of egress violates code
- Stair rail openings violate code
- The two sets of egress doors that lead out of the large room in the lower level open over a 12" step to grade.
- Kitchen hood side overhangs do not meet code
- Lack of tailpipe fume exhaust violates NFPA 1500
- Upstairs cooking is in egress corridor

Energy & Mechanicals

- The main floor has two heating systems. Hot water baseboard around the west exterior walls which is supplemented by a roof mounted electric heating unit that provides forced hot air to all the interior offices and the ready room. This cannot be very energy efficient.
- Low R-value in roof

General

- Grossly inadequate storage
- The main roof was replaced about 6 years ago (epdm) but still leaks
- The EIFS is damaged in a number of places around the bldg.
- Rotted exterior hollow metal door frames
- Structural shifting in wall to balance of building
- No console in radio room
- Inadequate office space
- Kitchen ventilation is questionable

Apparatus Bay

- Inadequate clearance between trucks & side walls
- No general ventilation
- Apparatus floor is very slippery when wet due to the finish.
- Openings to balance of building are not rated
- Inadequate firematic storage

Mase

Life Safety & Accessibility

- Lack of sprinkler violates code
- Egress not ADA or ANSI compliant
- Vertical circulation not ADA or ANSI compliant
- No elevator
- Stair rail openings violate code
- Uncovered fire escape
- Basement egress is does not meet code
- Wood frame is not fire protected
- Electrical panel room violates code
- No egress window in bunk room
- Bathrooms not ADA or ANSI compliant
- Only one women's room – located on 2nd floor
- Inadequate ventilation & fresh makeup control
- Combustible surfaces adjacent cook top
- Loose wires dangling
- Kitchen hood does not comply with code
- Openings from apparatus bay to balance of building are not rated
- Basement 3'-8" corridor width does not allow ANSI compliance
- Main floor 4'-0" corridor width does not allow ANSI compliance
- Many of the windows have broken counterbalances.

Energy & Mechanical

- No wall insulation
- Some single glazed windows
- The double glazed units are 3/8" and some have lost their seals
- Window weather stripping is inadequate & worn
- Heating control is very rudimentary & does not work properly
- Electrical service is undersized
- No A/C on 1st or 3rd floor
- Company owned A/C on 2nd floor

General

- Grossly inadequate storage
- Floor tiles are peeling
- Inadequate laundry facilities
- Exterior window sills are deteriorating
- Joints in copper cornice are failing
- Rear parapet wall is failing

Apparatus Bay

- Inadequate clearance between trucks & side walls
- No general ventilation
- Inadequate firematic storage

Engine #1

Life Safety & Accessibility

- Lack of sprinkler violates code
- Egress not ADA or ANSI compliant
- Vertical circulation not ADA or ANSI compliant
- No elevator
- Stair rise exceeds code
- Stair width below code
- Stair rail openings violate code
- Basement stairs are a hazard
- Apparatus floor is located over occupied space. In event of fuel leakage, fuel would enter occupied space.
- Uncovered fire escape
- Basement egress to rear is illegal
- Wood frame is not fire protected
- Electrical panel room violates code
- Bathrooms not ADA or ANSI compliant
- ANSI clearance issues at most doors
- Only one women's room – located on 2nd floor
- Kitchen hood does not comply with code
- Openings from apparatus bay to balance of building are not rated

Energy & Mechanical

- No wall insulation
- Some single glazed windows
- The double glazed units are 3/8" and some have lost their seals
- Window weather stripping is inadequate & worn
- Heating control is very rudimentary & does not work properly
- Electrical service is undersized
- No A/C on 1st or 2nd floor – window units only
- Company owned A/C in bsmt
- Sewer line backs up

General

- Grossly inadequate storage
- Walls are peeling
- Floor tiles are peeling
- Inadequate laundry facilities
- Exterior window sills are deteriorating
- Windows leak – water is damaging interiors

Apparatus Bay

- Inadequate clearance between trucks & side walls
- Doors are too small
- No general ventilation
- Inadequate firematic storage
- Walls are peeling

MITCHELL ASSOCIATES ARCHITECTS

• EMERGENCY SERVICES FACILITIES •

Fire Station Program Document

Project Name: Standardized Company Needs (based on Beacon Engine # 1)

Program Meeting Date: 11/10/05, 11/29/05

Printout Date: March 12, 2015

Filename: Beacon Engine.doc

When answering questions, indicate what you want in the future, not what you currently have.

A General Information

- A1. Number of Members; total: _____ ; active: _____ ; female: _____ ; male: _____
- A2. Typical Turnout: _____
- A3. On-Call: _____

B Functional Activities in Building

- B1. Types of response:
- B1.1. Fire: **X**
 - B1.2. EMS: **X**
 - B1.3. Water Rescue: **Boat**
- B2. Training activities in building:
- B2.1. **Company/Department drills and lectures**
 - B2.2. **Space required for Physical Training**
- B3. Training activities on site:
- B3.1. **Auto Extraction Area**
- B4. Standing by :
- B4.1. Emergency: **Rarely – Company or mutual aid**
- B5. Emergency Shelter:
- B5.1. **Perhaps**
- B6. Firematic Business:
- B6.1. Describe: **Meetings/Training**
- B7. Social Business:
- B7.1. Describe: **Company Meetings and Functions, super bowl party, retirement party**
- B8. Meetings:
- B8.1. Type: **Company**; size: **30**; frequency: _____
 - B8.2. Type: **Banquets**; size: **40**; frequency: **Annual**
- B9. Social Life:
- B9.1. Daily recreation – describe: **Pool Table, darts and television**
 - B9.2. Periodic recreation – describe: **Occasional parties, i.e. parade, Super Bowl and Christmas Party**
 - B9.3. Outdoor recreation – describe: **Outdoor cooking, picnicking and horseshoes**

B10. Access control:

B10.1. Electronic access: **Yes**

B10.2. Vendor's access to drop off material: **Yes**; Where: **necessary**

B10.3. Will other fire companies park their apparatus in the bay under certain circumstances: **Yes**

.10.3.1. Describe: **Mutual Aid**

.10.3.2. Is their access to the building to be limited: **No**

APPARATUS

1 Apparatus Bays

1.1 Number of vehicles: **Currently 1, wants 2**; # of bays: **2**

1.1.1 Name: _____ ; type: **Pumper** ; length: _____ ; weight: _____

1.2 Type of bays:

1.2.1 Drive-through: **Yes**; quantity: **2**

1.3 Overhead doors: **Sufficient for Future Apparatus Requirements**

1.4 Gear lockers: **Volunteer gear is in cars, need place to hang gear when in house**

1.5 Number of gear lockers - now: **10**; later: **10**

1.6 Wall mounted hose reels: **As required for cleaning apparatus**

1.7 Fume exhaust: **Yes**

1.8 Truck fills:

1.8.1 Wall hydrant: **Yes**; Quantity: **2**

1.8.2 Outdoor hydrant: **Yes** ; Quantity: **Minimum 1**

1.9 Overhead electrical drops: **Yes** ; Quantity: **2**

1.10 Overhead airdrops: **Yes** ; Quantity: **2**

1.11 Compressed air for tools: **Yes**

1.12 Sinks: **Yes (1)** ; Where: **In bay**

1.13 Drench shower: **Yes**; Where: **isolated area** (Note Decon Laundry!)

1.14 Lockable storage cabinets: **Yes** ; size: **4 – 3 x 6**

1.15 Foam: **Yes**

1.15.1 Details: **Adjacent bay**

1.16 Epoxy flooring: **Yes**

FIREMATIC SUPPORT

1A Mezzanine

1A.1 Storage: **Firematic material, old hose, cots, etc.**

1A.2 Size: **1200** sq ft

2 Firematic Storage Room

2.1 Use: **Officer's Supply Closet**

2.2 Security: **??**

2.3 Size: **10 x 10**

2.4 Adjacencies: **Bay**

3 Officer's Supply Room

3.1 Use: **Radios, etc.**

3.2 Security: **Yes**

3.3 Size: **8 x 8**

3.4 Adjacencies: **Bay**

4 EMS Storage Room

4.1 Use: **EMS supplies**

4.2 Security: **????**

4.3 Size: **8 x 8**

4.4 Adjacencies: **Bay**

5 Engineers Work Room

5.1 Mechanic: _____; Type of work: _____

5.2 Workbench: **Yes**

5.3 Tool storage: **Yes**

5.4 Stationary power tools: **bench grinder & vise**

5.5 Air: **Yes**

5.6 Water: **Yes**

5.7 Location: _____

5.8 Size: **16 x 20**

6 DeCon/Laundry

- 6.1 Sink(s): **1**; Foot Pedal: **Yes**
- 6.2 Gear washer/extractor: **Yes**
- 6.3 Gear dryer: **Yes???**
- 6.4 Clothes washer & dryer: _____
- 6.5 Ventilated gear racks: **Yes**
- 6.6 Drench shower: _____ ; Where: _____
- 6.7 Backboard/Etc. cleaning: _____
- 6.8 Holding tank: _____
- 6.9 Size: **219** sq ft
- 6.10 Adjacencies: **Bay & exterior**

7 Hose Storage

- 7.1 A room, or on the floor: **On Apparatus Room Floor**
- 7.2 Hose racks: **2**; Size: **3 shelf x 8 Ft. Long, per engine company, none at ladder**
- 7.3 Hose drying: **Yes**
- 7.4 Location: **Apparatus Room**
- 7.5 Size: **3 x 8**
- 7.6 Comments: _____

8 Hose Dryer Recess

- 8.1 Size: **25** sq ft
- 8.2 Adjacencies: _____

9 Paid Staff Bunker Gear Lockers

- 9.1 Similar to Albany Airport ARFF
- 9.2 Quantity: **8**
- 9.3 Size: **73** sq ft
- 9.4 Adjacencies: _____

10 Janitor

- 10.1 Size: **8 x 9**
- 10.2 Adjacencies: _____

11 Apparatus Floor Uni-Sex Rest Rooms

- 11.1 Quantity: **1**
- 11.2 Fixture: **Sink, toilet & urinal**
- 11.3 Showers: **No**
- 11.4 Lockers: **No**
- 11.5 Size: **75** sq ft

11.6 Comments: _____

11.7 Adjacencies: _____

12 Radio Room

12.1 Location: **Adjacent to Apparatus Room**

12.2 View control: **Window to Apparatus Room**

12.3 Seating for how many: **3**

12.4 Door operator switches: **Yes**

12.5 Traffic device control: **Yes**

12.6 Light switches for app bay: **Yes**; Outside: _____

12.7 Internal paging system: **Yes**

12.8 Siren trigger: _____ ; Shutoff: _____ ; Siren location: _____

12.9 Computer equipment: **Yes**

12.10 Other equipment: **Chargers**

12.11 File cabinets: Yes ; Describe: _____

12.12 Wall mounted items: **Bulletin Board, Clock and map**

12.13 Rechargeable items (flashlights, plectrons): **Yes**

12.14 Lockable storage: _____

12.15 Size: **147** sq ft

12.16 Adjacencies: _____

ADMINISTRATION

13 Conference Room

13.1 Uses:

13.1.1 **Training for up to 25 people**

13.1.2 **Small meetings**

13.2 Seat how many: **12** at table; **18** at wall

13.3 Is there a workstation with a computer to be shared by all users: **Yes**

13.4 Size: **377** sq ft

13.5 Comments: **Furniture convertible from conference to classroom, drop down projector & screen**

13.6 Adjacencies: _____

14 Conference Room Table/Chair Storage

14.1 Table racks; Quantity: **2**

14.2 Stacking chair racks; Quantity: **2**

14.3 Size: **80** sq ft

14.4 Comments:

- 19.9.2 Beer cooler: **Yes** ; Size: _____
- 19.9.3 Sink: **Yes**; Size: **double**
- 19.9.4 Cold drinks: **Yes** ; Handled how: **cans**
- 19.10 Ice machine: **Yes** ; Size: **400 lbs**
- 19.11 Size: **749** sq ft
- 19.12 Adjacencies: **Day Room**
- 19.13 Comments: _____

20 Day Room

- 20.1 Kitchen/Kitchenette: **Kitchenette**
 - 20.1.1 Size: _____ x _____ ; or _____ sq ft
- 20.2 Dining/Eating: **Yes**
 - 20.2.1 Size: _____ x _____ ; or _____ sq ft
- 20.3 Living/T-V: _____
- 20.4 Total Size: **588** sq ft
- 20.5 Comments: **Firefighters Recreation Room**
- 20.6 Adjacencies: **Bunking & Bay**

21 Junior Firefighters Room

- 21.1 Couch: **Yes** ; seats how many: **6**
- 21.2 TV: **Yes** ; Size: _____
- 21.3 Bulletin board: **Yes** ; Size: **4 X 6**
- 21.4 Size: **280** sq ft
- 21.5 Comments: _____
- 21.6 Adjacencies: _____

22 Firefighters' Rest Rooms w/ Shower

- 22.1 Showers: **Yes**
- 22.2 Lockers: **No??**
- 22.3 Other: _____
- 22.4 Size: **396** sq ft
- 22.5 Comments: **No Lockers ???**
- 22.6 Adjacencies: _____

PAID PERSONNEL

23 Paid Personnel Bunk Room

- 23.1 Number of rooms: **2**
- 23.2 Beds per room: **2**
- 23.3 Size: **139 sq ft each**
- 23.4 Comments: **Must have egress windows by code**
- 23.5 Adjacencies: **Bay??**

24 Paid Personnel Bathroom

- 24.1 Quantity: **2**
- 24.2 Fixture: **Sink, toilet, urinal & shower**
- 24.3 Size: **98 sq ft each**
- 24.4 Comments: **One person at a time**
- 24.5 Adjacencies: **Bunk rooms**

25 Paid Personnel Locker Room

- 25.1 Size: **182 sq ft**
- 25.2 Comments: **24 lockers @ 2' X 2'**
- 25.3 Adjacencies: **Bunking**

PUBLIC SPACES

26 Public Entry Area

- 26.1 Air lock: **Yes**
- 26.2 Trophy case: **Yes** ; Size: _____
- 26.3 Bulletin board: **Yes**; Size: _____
- 26.4 Plaque: _____
- 26.5 Size: **12 x 14** ; or **168** sq ft
- 26.6 Comments: _____

27 Coat Room

- 27.1 Number of coats: **50**
- 27.2 Size: **51** sq ft
- 27.3 Comments: _____
- 27.4 Adjacencies: **Public entry**

28 Museum

- 28.1 Uses: **None Present - Needed**
- 28.2 Size: **80 sq ft, distributed throughout building**
- 28.3 Comments: _____
- 28.4 Adjacencies: _____

29 Meeting/Training Room

- 29.1 Public access: **Yes**
- 29.2 Uses:
 - 29.2.1 Seating: **49**
 - 29.2.2 Department meetings: **Yes**
 - 29.2.3 Training: **Yes**
 - 29.2.4 Fundraising dinners: **Yes**
 - 29.2.5 Political/Municipal: **No**
 - 29.2.6 Boy Scouts or other similar groups: **Yes**
 - 29.2.7 Rental: **Yes**; To whom: **members**
 - 29.2.8 Other: _____
- 29.3 Number of tables & size: now **10 classroom, 1 head table & (6) 5' dia. round**
- 29.4 Trophy case: ____ ; Size _____ ; location _____
- 29.5 Whiteboard: ____ ; Size _____ ; location _____
- 29.6 Bulletin board: ____ ; Size _____ ; location _____
- 29.7 TV: _____ ; Where stored: _____
- 29.8 Size: **748 sq ft**
- 29.9 Comments: _____
- 29.10 Adjacencies: **Public Entry**

30 Meeting/Training Room Storage

- 30.1 Table racks: **Yes**; Quantity: **4**
- 30.2 Chair racks: **Yes** ; Quantity: **6**
- 30.3 Size: **10 X 10, or 100 sq ft**
- 30.4 Adjacencies: **Meeting Training**

31 Kitchen

- 31.1 Uses: **Banquets, Christmas Parties, and company functions**
- 31.2 Equipment types and size:
 - Refrigerator: **Yes 25 cubic feet**
 - Sink(s) Pot: **2** ; Hand: **1**; Scrub: **1**; Disposal: **1**
 - Dishwasher: **1**; Type: **Commercial**
 - Stove: **Yes** ; Type: **Commercial**
 - Oven: **Yes**; Type: **Commercial**

Cook top:

Hood: **Yes**

Other equipment: _____

- 31.3 Center Island: **Yes**
- 31.4 Shuttered opening: **Yes**; Size: _____
- 31.5 Door to exterior: **Yes**
- 31.6 Dish storage: **Yes**
- 31.7 Pantry/food storage: **Yes**
- 31.8 Locked storage: **Yes**
- 31.9 Automatic shut off of heat generating equip @ fire call w/ manual reset: **Yes**
- 31.10 Size: **252** sq ft
- 31.11 Adjacencies: **Meeting/training**

32 Pantry

- 32.1 Size: **64** sq ft
- 32.2 Comments: _____
- 32.3 Adjacencies: _____

33 Public Rest Rooms

- 33.1 **2, adjacent Handicapped accessible Uni-Sex bathrooms**
- 33.2 Size: **150** sq ft
- 33.3 Comments: **Anything larger would duplicate room 22, above**
- 33.4 Adjacencies: _____

34 File Server/Telephone Room

- 34.1 Size: **48** sq ft
- 34.2 Comments: _____
- 34.3 Adjacencies: _____

35 Mechanical, Electrical, Plumbing, HVAC, Sprinkler, Alarm, etc.

- 35.1 Fuel type at site: **Gas**
- 35.2 Heating type in apparatus bay: **In Floor Radiant**
- 35.3 Heating type elsewhere: **Ducted HVAC**
- 35.4 Building to be sprinklered: **Yes**
- 35.5 Hose bibs for exterior: **Yes**
- 35.6 Circuits on generator: **All**
- 35.7 Security: _____ ; Describe: _____
- 35.8 Keyless entry: _____ ; Describe: _____
- 35.9 Alarm: _____ ; Describe: _____
- 35.10 Siren: _____ ; Mounting location: _____

35.11 Size: **300** sq ft

35.12 Comments: _____

35.13 Adjacencies: _____

MITCHELL ASSOCIATES ARCHITECTS

• EMERGENCY SERVICES FACILITIES •

Fire Station Program Document

Project Name: Beacon Fire Department - Shared Functions (based on Chief, Lieutenant & Career Comments)

Program Meeting Date: 11/10/05, 11/29/05

Printout Date: December 19, 2005

Filename: Shared Spaces Program.doc

A General Information

- A1. Number of Members; total: **85**; active: **85**; female: **2**; male: **83**
- A2. Typical Turnout: **25**
- A3. On-Call: **0**
- A4. Type of entity: **City Department**
- A5. **3 Companies**
 - A5.1. **Beacon Engine #1**
 - A5.2. **Tompkins Hose Company #1**
 - A5.3. **W.H. Mase Hook and Ladder Co #1**
- A6. Date of Company monthly meeting: **first Tuesday**; Date of Dept monthly meeting: _____
- A7. Location: **All three stations**

B Functional Activities in Building

- B1. Types of response: All Three Stations
 - B1.1. Fire: **Yes**
 - B1.2. EMS: **Yes**
 - B1.3. Heavy Rescue: **Yes**
 - B1.4. HAZ MAT: **Yes**
 - B1.5. Water Rescue: **Yes**
 - B1.6. Ambulance? ; Transporting?
 - B1.7. **To be a secondary EOC**
- B2. Training activities in building:
 - B2.1. **Yes, class and hands on**
 - B2.2. Training activities on site: **If Possible**
 - B2.3. Other uses of apparatus bay:
 - B2.4. Social events: **no**
 - B2.5. Craft fairs: **no**
 - B2.6. Sleeping Over: **no**

- B3. Standing by:
 - B3.1. Daily: **Yes**
 - B3.2. Emergency: **Yes**
 - B3.3. Outsiders: **Yes**
- B4. Emergency Shelter: **Not as primary possibly as secondary for firefighters**
 - B4.1. Who stays in building: **Paid staff, 1 per station on a regular basis**
 - B4.2. Special needs: **Bunk room, bath, storage space**
- B5. Firematic Business:
 - B5.1. Describe: ? **Yes**
- B6. Social Business:
 - B6.1. Describe: **Fire Company Activities**
- B7. Other:
 - B7.1. Describe:
- B8. Meetings:
 - B8.1. Type: **Each Company Meeting**; size: **30-40 people**; frequency: **Monthly**
 - B8.2. Type: **Committees**; size: **10-20 people**; frequency: **Varies**
- B9. Social Life:
 - B9.1. Daily recreation – describe: **TV, Pool Table**
 - B9.2. Periodic recreation – describe: **Various parties**
 - B9.3. Outdoor recreation – describe: **No**
- B10. Misc. Activities
 - B10.1. **Blood drives**
 - B10.2. **Community meeting room**
- B11. Access control:
 - B11.1. Electronic access: **Yes**
 - B11.2. Vendor's access to drop off material ?; Where: _____
 - B11.3. Will other fire companies park their apparatus in the bay under certain circumstances: **Yes**
 - .11.3.1. Describe: **under mutual aid for coverage to City of Beacon**
 - .11.3.2. Is their access to the building limited: **Yes**
 - .11.3.3. Describe: **Access to bays and communication room**

C Site

- C1. Who owns the road in front: **City**
- C2. Number of primary responder parking spaces needed: **10 per station**
- C3. Number of other parking spaces needed: **50 per station**
- C4. Recreation requirements (Pavilion, grill, patio, etc.): **yes, at all stations**
- C5. Utilities at site:
 - C5.1. Water: **Yes**; Size: _____
 - C5.2. Sewer: **Yes**; Size: _____
 - C5.3. Storm: **Yes**; Size: _____

- C5.4. Electric: **Yes**; 3 phase: _____
- C5.5. Gas: **Yes**; Size: _____
- C5.6. Phone: **Yes**
- C5.7. Cable: **Yes**
- C6. Electric company: **Central Hudson**
 - C6.1. Contact: _____
 - C6.2. Follow-up assigned to: _____
- C7. Gas company: **Central Hudson**
 - C7.1. Contact: _____
 - C7.2. Follow-up assigned to: _____
- C8. Telephone company: **Verizon**
 - C8.1. Contact: _____
 - C8.2. Follow-up assigned to: _____
- C9. Cable company: **Cablevision**
 - C9.1. Contact: _____
 - C9.2. Follow-up assigned to: _____
- C10. Alarm/Security company: **None**
 - C10.1. Contact: _____
 - C10.2. Follow-up assigned to: _____

APPARATUS

1 Apparatus Bays

- 1.1 Number of vehicles: **5**; # of bays: **8**
 - 1.1.1 Name: **12**; type: **Single**; length: _____; weight: _____
 - 1.1.2 Name: **55**; type: **Single**; length: _____; weight: _____
 - 1.1.3 Name: **11/13**; type: **Double**; length: _____; weight: _____
 - 1.1.4 Name: _____; type: **Double**; length: _____; weight: _____
 - 1.1.5 Name: **45**; type: **D/D**; length: _____; weight: _____
 - 1.1.6 Name: _____; type: **D/D**; length: _____; weight: _____
 - 1.1.7 Name: **Engine**; type: _____; length: _____; weight: _____
 - 1.1.8 Name: **Ladder**; type: _____; length: _____; weight: _____
 - 1.1.9 Name: **Fly Car**; type: _____; length: _____; weight: _____
 - 1.1.10 Name: **ATV @ Boathouse**; type: _____; length: _____; weight: _____
 - 1.1.11 Name: **Boat @ Boathouse**; type: _____; length: _____; weight: _____

- 1.2 Type of bays:
 - 1.2.1 Drive-through: **Yes**; quantity: **2**
 - 1.2.2 Double deep; quantity:
 - 1.2.3 Single deep: **X**; quantity: **6**
- 1.3 Wash bay: **No**; Where: **Need more bay space (3 more)**
- 1.4 Plan for future expansion of bays: **Yes #: 3**
- 1.5 Overhead doors:
 - 1.5.1 Front:
 - 1.5.1.1 Number: **5**
 - 1.5.1.2 Width: **14**; Height: **14**
 - 1.5.1.3 Windows: **Yes**
 - 1.5.2 Rear:
 - 1.5.2.1 Number: **2**
 - 1.5.2.2 Width: **14**; Height: **14**
 - 1.5.2.3 Windows: **Yes**
- 1.6 Pedestrian doors:
 - 1.6.1 Number: **1**
- 1.7 Number of gear lockers: **Career**; now: **12**; later: **28 + 30 for volunteers????**
 - 1.7.1 Location: **Against Wall**
- 1.8 Trench drains: **Yes**; Layout: **Middle of each bay**
- 1.9 Wall mounted hose reels: **Yes**; Quantity: **3 @ 100'**
- 1.10 Fume exhaust: **Yes**; Type: **Hose**
- 1.11 Truck fills:
 - 1.11.1 Overhead: **Yes**; Quantity: **3**
 - 1.11.2 Wall hydrant: **Yes**; Quantity: **2**
 - 1.11.3 Outdoor hydrant: **Yes**; Quantity: **1**
- 1.12 Overhead electrical drops: **Yes**; Quantity: **1/vehicle**
- 1.13 Overhead airdrops: **Yes**; Quantity: **3**
- 1.14 Compressed air for tools: **No**
- 1.15 Sinks: **Yes** ; Where: **Slop, utility & decon in Bay**
- 1.16 Drench shower: **Yes**; Where: **In Bay** (Note Decon Laundry!)
- 1.17 Lockable storage cabinets: **Yes**; size: **For App Maint & Tools**
- 1.18 Foam: **?**
- 1.19 Epoxy flooring: **Yes**
- 1.20 Wall construction type: **brick and block**
- 1.21 Assumed size: _____
- 1.22 Adjacencies: **Career Area & Radio Room**

FIREMATIC SUPPORT

1.A Mezzanine

1.A.1 Size: **940** sq ft

2 Central EMS Storage

2.1 Location: **Yes, off apparatus floor**

2.2 Comments: **Near decon room Hazardous Waste Disposal**

2.3 Location: **Yes, off apparatus floor**

2.4 Size: **192** sq ft

2.5 Comments: **Near decon room, secure**

3 Quartermaster

3.1 Security: **Quartermaster Only**

3.2 Size: **15 x 15**; or **225** sq ft

3.3 Adjacencies: _____

4 Air Room (SCBA)

4.1 Location: **Yes, off apparatus floor**

4.2 “Public” access: **No**

4.3 External feed lines:

4.4 Sinks: **Yes**

4.5 Air compressor: **Yes**

4.6 Filling station: **Yes**

4.7 SCBA storage: **Yes**

4.8 SCBA repair: **Yes**

4.9 Air Bottles – Size & Quantity: **Yes, 12**

4.10 Sound attenuation panels:

4.11 Size: **174** sq ft

4.12 Comments:

5 Oxygen Storage Room

5.1 Size: **8 x 10**; or **80** sq ft

5.2 Adjacencies:

5.3 Comments: location to be determined

CHIEF/DEPARTMENT ADMINISTRATIVE SUITE

6 Department Secretary/Receptionist

- 6.1 Seat how many: **1**
- 6.2 Is there a workstation with a computer: **Yes**
- 6.3 Size: **140** sq ft
- 6.4 Comments:
- 6.5 Adjacencies: **Reception area & Lobby**

7 Chief

- 7.1 Seat how many: **1**
- 7.2 Is there a workstation with a computer: **Yes**
- 7.3 Size: **178** sq ft
- 7.4 Comments: **with access to conference room**
- 7.5 Adjacencies:

8 Department Officers

- 8.1 Seat how many: **4 (Training, Fire Prevention, EMS & Safety)**
- 8.2 Is there a workstation with a computer: **Yes**
- 8.3 Size: **247** sq ft
- 8.4 Comments:
- 8.5 Adjacencies:

9 Company Chiefs (Departmental Assistant Chiefs)

- 9.1 Seat how many: **2 plus table**
- 9.2 Is there a workstation with a computer: **Yes**
- 9.3 Size: **233** sq ft
- 9.4 Comments:
- 9.5 Adjacencies:

10 Tour Commander/Career Officer Office

- 10.1 Seat how many: _____
- 10.2 Is there a workstation with a computer: **Yes**
- 10.3 Size: **140** sq ft **plus bedroom, 275 sq ft total**
- 10.4 Comments: **Room for bed & 4 lockers**
- 10.5 Adjacencies: **Bunk room/Radio room**

11 Fire Prevention Closet

- 11.1 Seat how many: **2**
- 11.2 Is there a workstation with a computer: **Yes**
- 11.3 Size: **12 x 12**; or **144** sq ft
- 11.4 Comments: **Room for storage of FP supplies**
- 11.5 Adjacencies: _____

12 Union Office

- 12.1 Seat how many: **4**
- 12.2 Is there a workstation with a computer: **Yes**
- 12.3 Size: **8 x 10**, or **80** sq ft
- 12.4 Adjacencies: _____

13 Records Storage

- 13.1 Location: Yes, to be determined
- 13.2 Size: **100** sq ft
- 13.3 Comments:
- 13.4 Adjacencies:

FIREFIGHTERS

14 Pavilion & Outdoor Recreation

- 14.1 Other
- 14.2 Comments: Need all stations
- 14.3 Adjacencies:

15 Exercise

- 15.1 Size: **1,038** sq ft
- 15.2 Equipment:
 - 15.2.1 Cardio: **Yes**
 - 15.2.2 Weights: **Yes**
 - 15.2.3 **Weight Machines:** Yes
- 15.3 Comments:
- 15.4 Adjacencies:

16 Lockers/Bath

- 16.1 Showers: **4**
- 16.2 **Lockers:** 50
- 16.3 Other:
- 16.4 Size: **624** sq ft
- 16.5 Comments:
- 16.6 Adjacencies:

PUBLIC SPACES

17 Public Entry Area

- 17.1 Air lock: **Yes**
- 17.2 Trophy case: **Yes**; Size: **10' x 15'**
- 17.3 Bulletin board: **Yes**; Size: **6' x 8'**
- 17.4 Plaque:
- 17.5 Size: **500** sq ft
- 17.6 Comments:
- 17.7 Adjacencies:

18 Coat Room

- 18.1 Number of coats: **170**
- 18.2 Size: **140** sq ft
- 18.3 Comments:
- 18.4 Adjacencies:

19 Large Group Training Room

- 19.1 Public access: **Yes, Each Company**
- 19.2 Size: **Current is 2,500** sq ft
- 19.3 Comments: **Sized for 166 people**
- 19.4 Adjacencies:

20 Large Group Training Room Table/Chair Storage

- 20.1 Table racks; Quantity: **6**
- 20.2 Chair racks; Quantity: **10**
- 20.3 Size: **247** sq ft
- 20.4 Comments:

21 Large Group Training Room A/V Storage

- 21.1 Size: **60** sq ft
- 21.2 Comments: **A/V Storage**

22 Kitchen

- 22.1 Uses: **Common Use**
- 22.2 Equipment types and size:
 - Refrigerator: **Yes**
 - Sink(s) Pot: **Yes** Hand: **Yes**; Scrub: **Yes**; Disposal: **Yes**
 - Dishwasher: **Yes**; Type:
 - Stove: **Yes**; Type:
 - Oven: **Yes**; Type:
 - Cook top: **Yes**; Type:
 - Hood: **Yes**
 - Other equipment:
- 22.3 Center Island: **Yes**
- 22.4 Shuttered opening: **Yes**; Size: **4' x 5'**
- 22.5 Door to exterior: **Yes**
- 22.6 Dish storage: **Yes**
- 22.7 Pantry/food storage: **Yes**
- 22.8 Locked storage: **Yes**
- 22.9 Automatic shut off of heat generating equip @ fire call w/ manual reset: **Yes**
- 22.10 Size: **Current @ Tompkins is 362, plan on 400** sq ft
- 22.11 Comments:

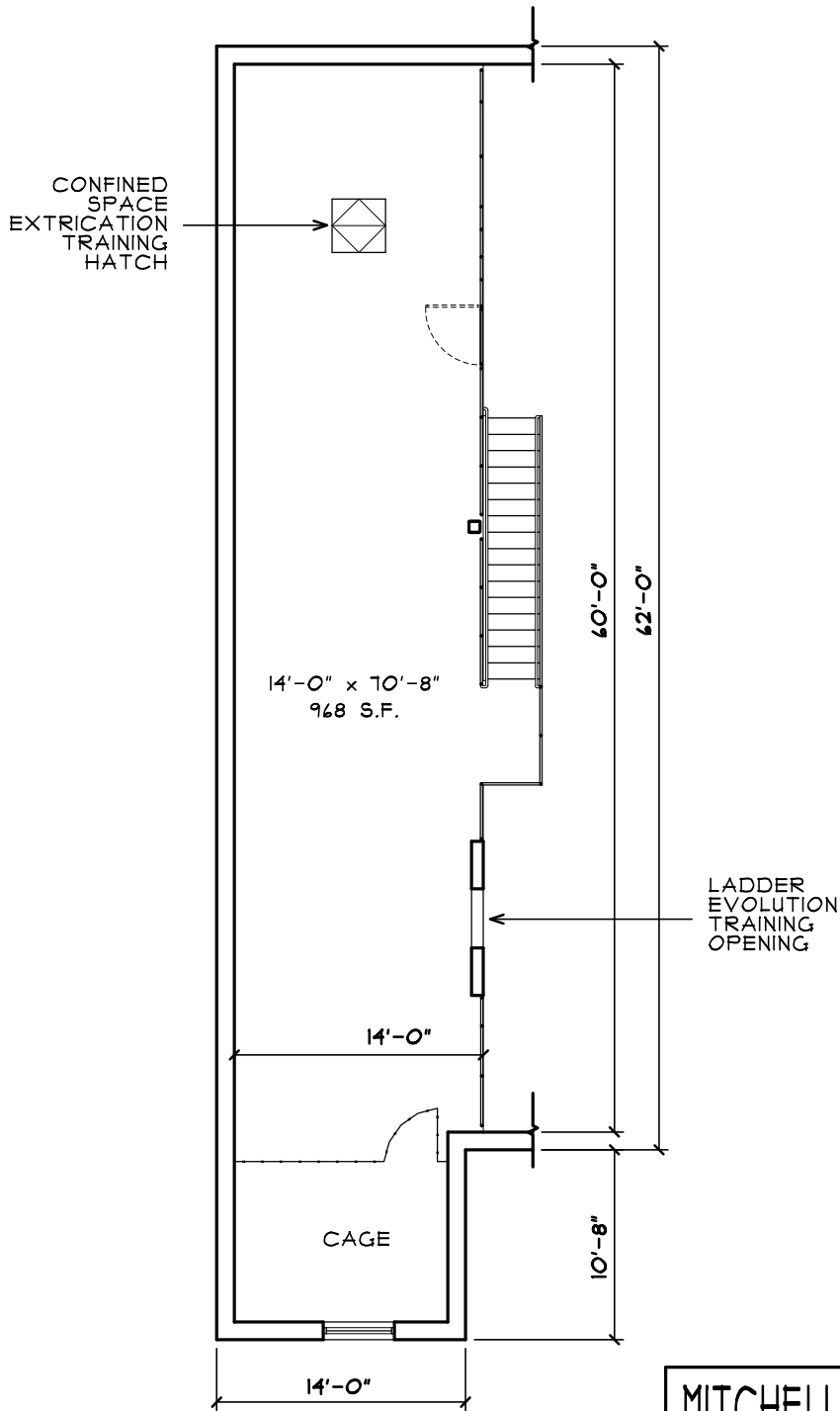
23 Pantry

- 23.1 Size: **100** sq ft
- 23.2 Comments:

24 Public Rest Rooms

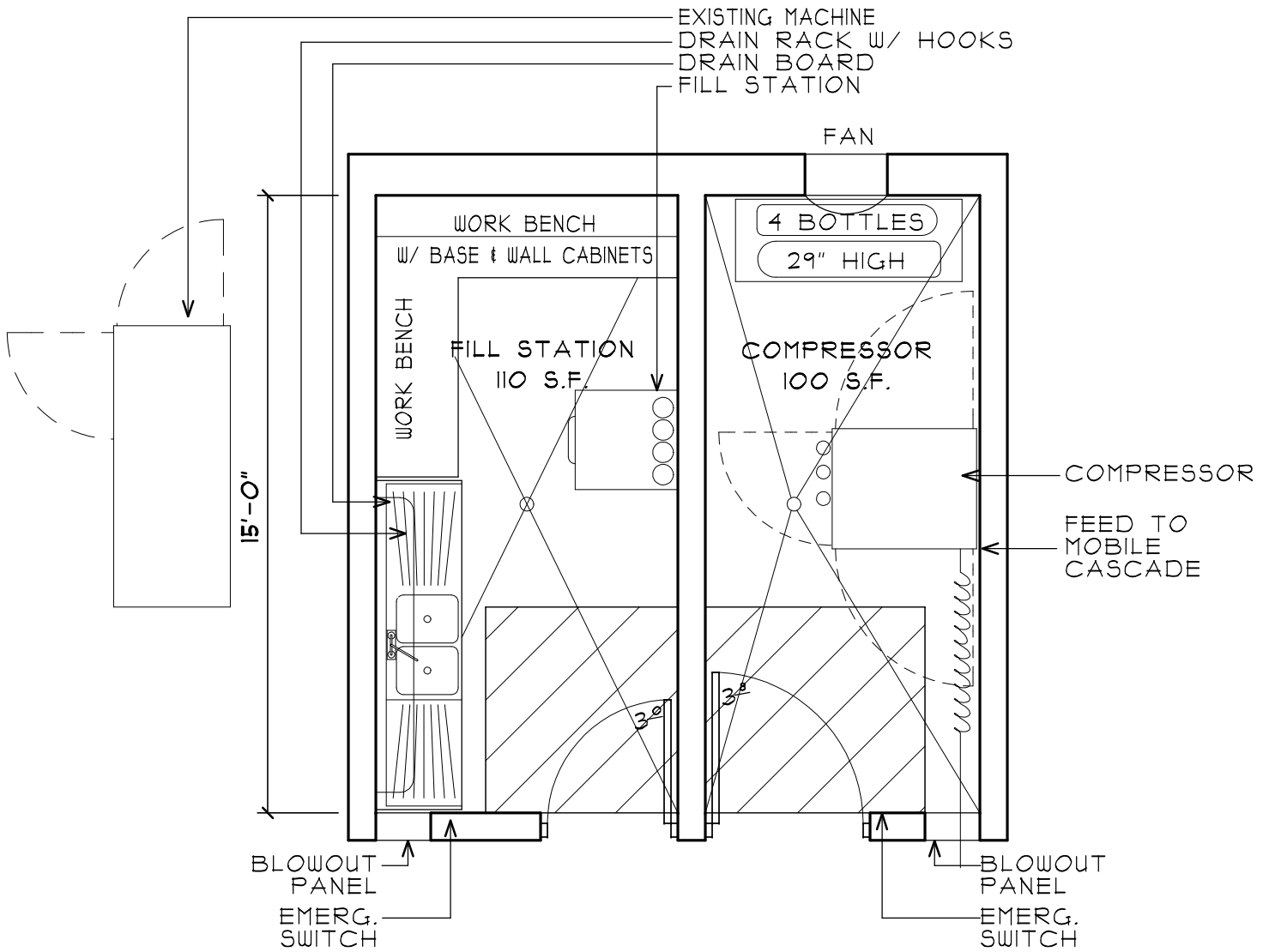
- 24.1 Handicapped accessible: **Yes, Male and Female**
- 24.2 Size: **413** sq ft
- 24.3 Comments: **Code required size**

ROOM #1.1



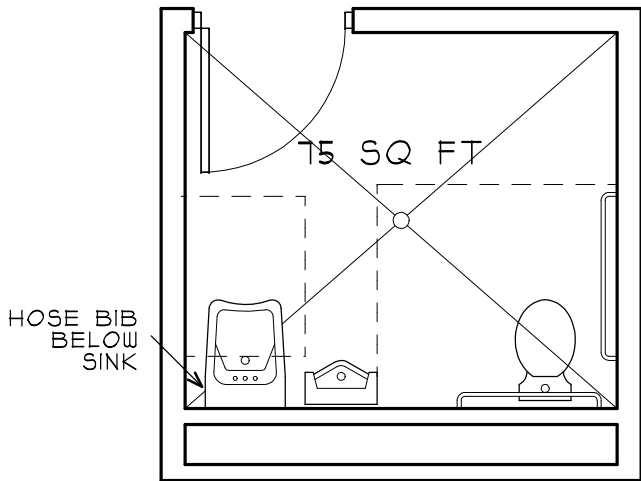
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MEZZANINE
PLOT DATE: 5/23/2006
SCALE: 3/32" = 1'-0"
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ROOMS #4 & 5

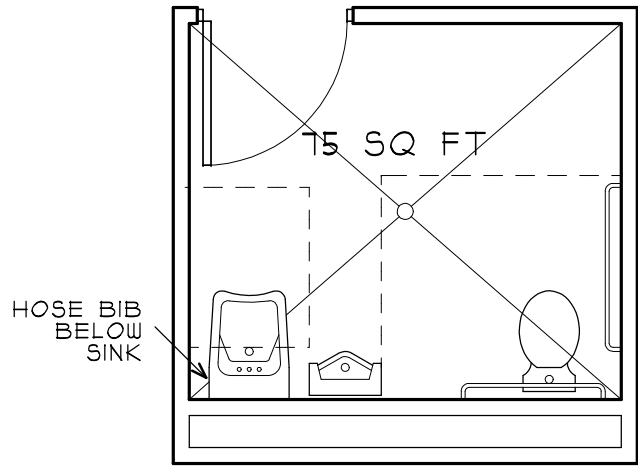


MITCHELL ASSOC. ARCHITECTS
SCBA
PLOT DATE: 5/23/2006
SCALE: 1/4" = 1'-0"
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ROOM #B11



6" CMU WALL



METAL STUD WALL

MITCHELL ASSOC. ARCHITECTS

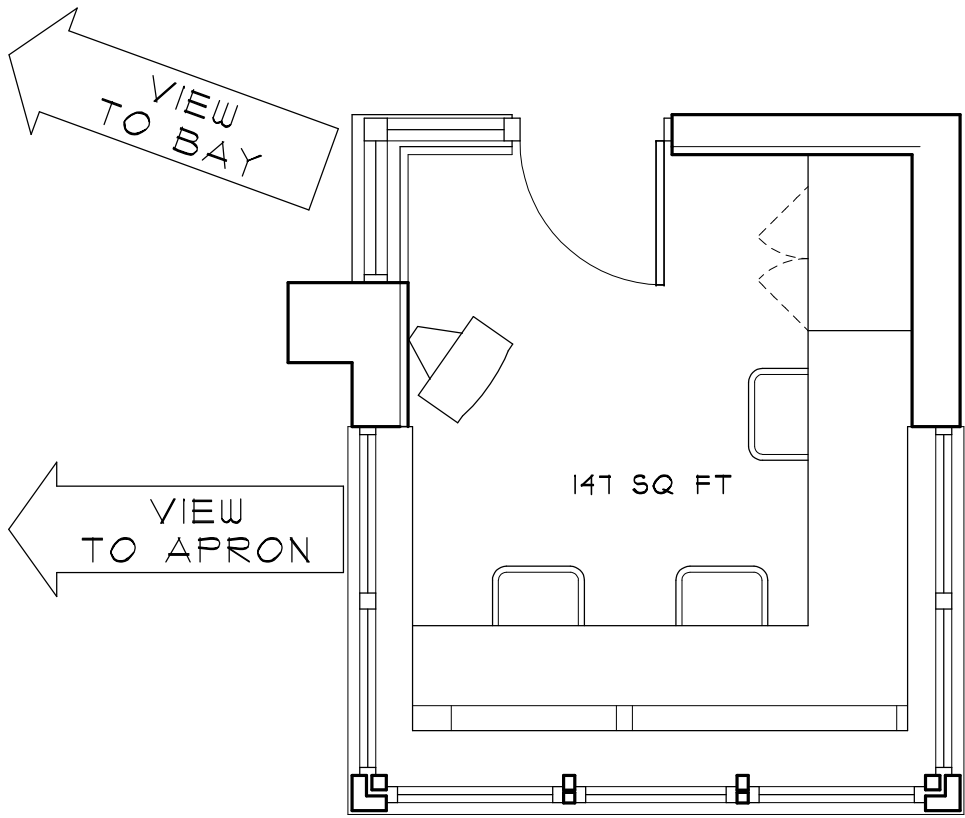
UNISEX BATHROOM

PLOT DATE: 5/23/2006

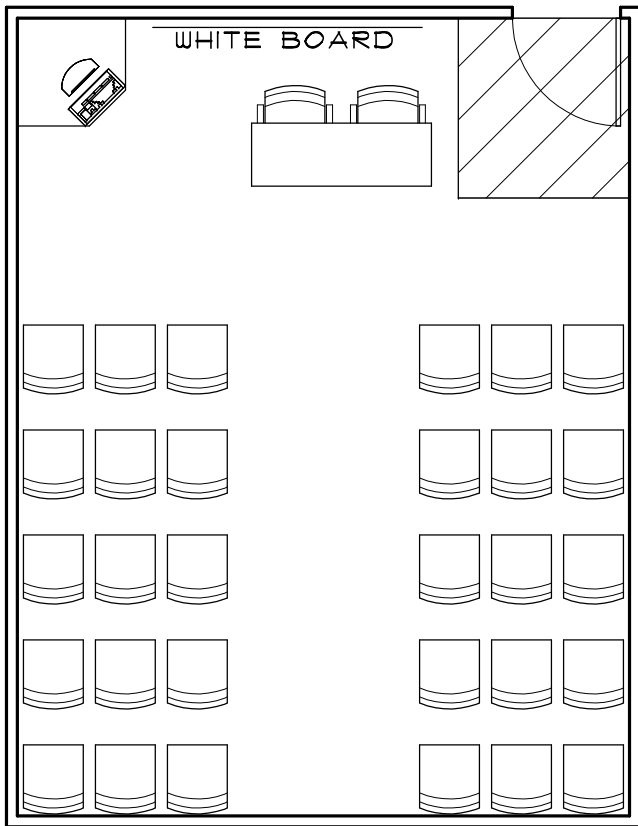
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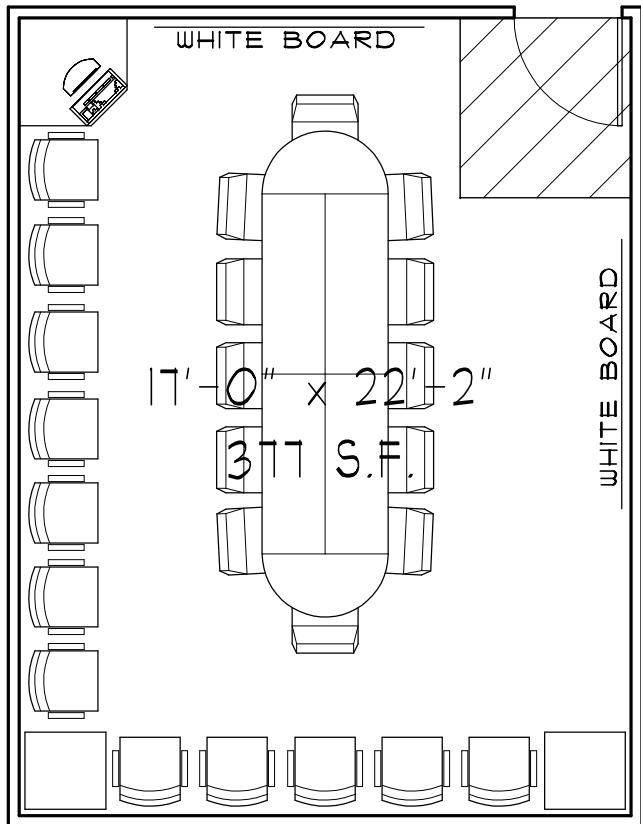
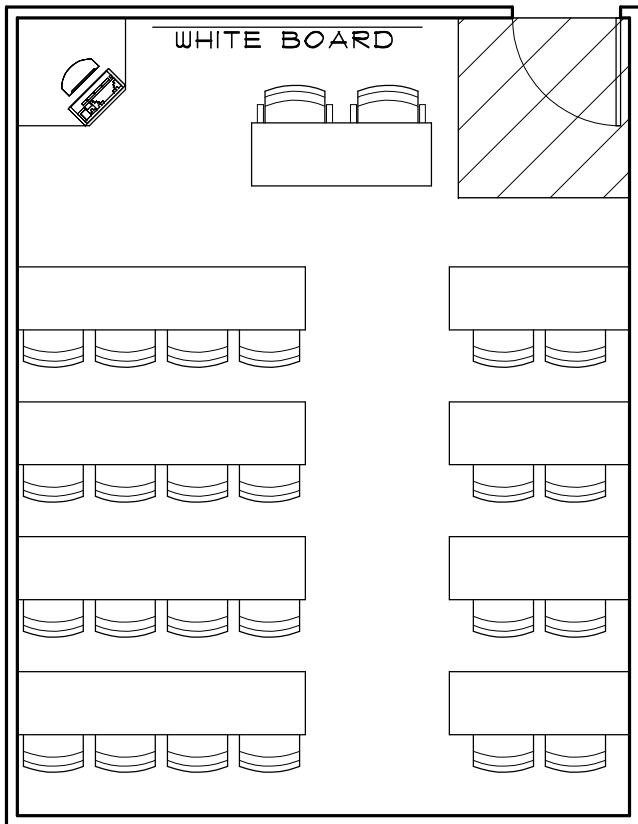
ROOM #B12



MITCHELL ASSOC. ARCHITECTS
RADIO ROOM
PLOT DATE: 5/23/2006
SCALE: 1/4" = 1'-0"
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ROOM #B13



MITCHELL ASSOC. ARCHITECTS

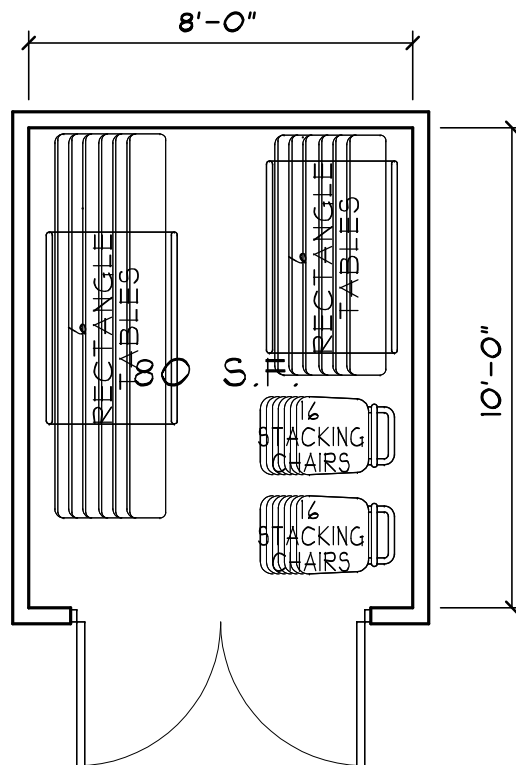
TRAINING/CONFERENCE

PLOT DATE: 5/23/2006

SCALE: 3/16" = 1'-0"

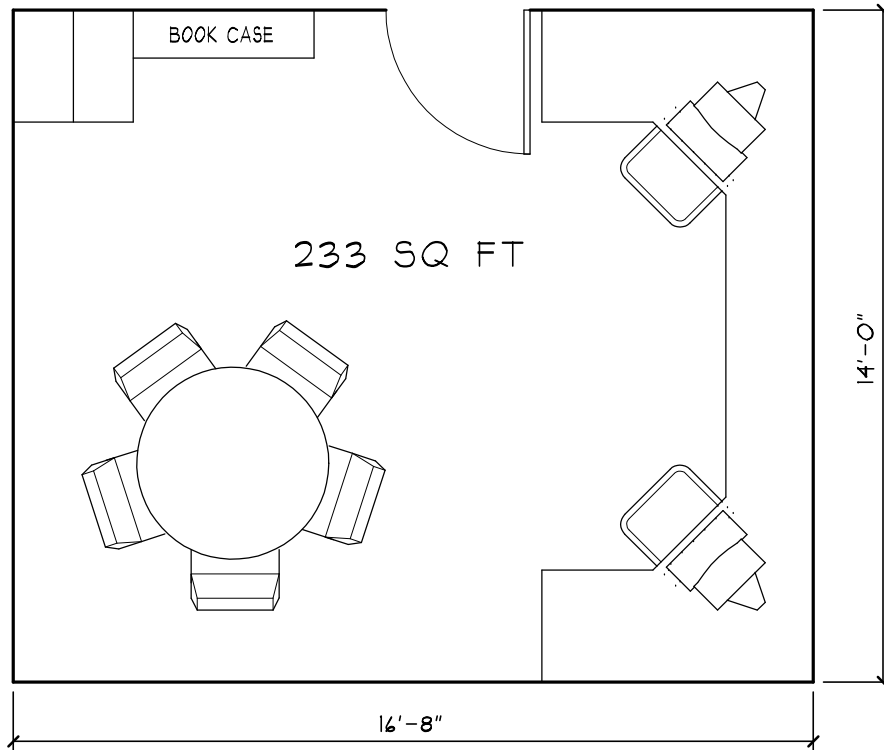
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ROOM #B14



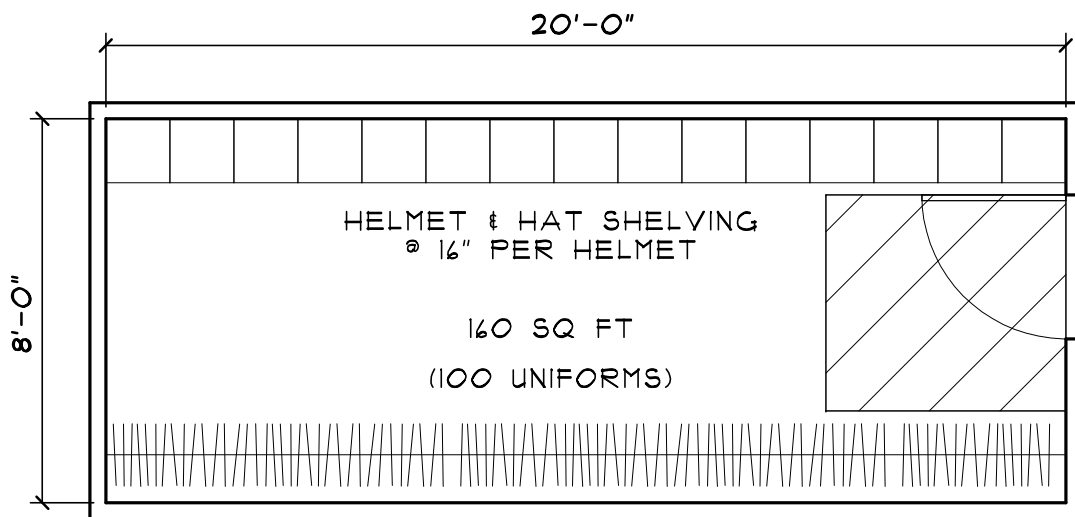
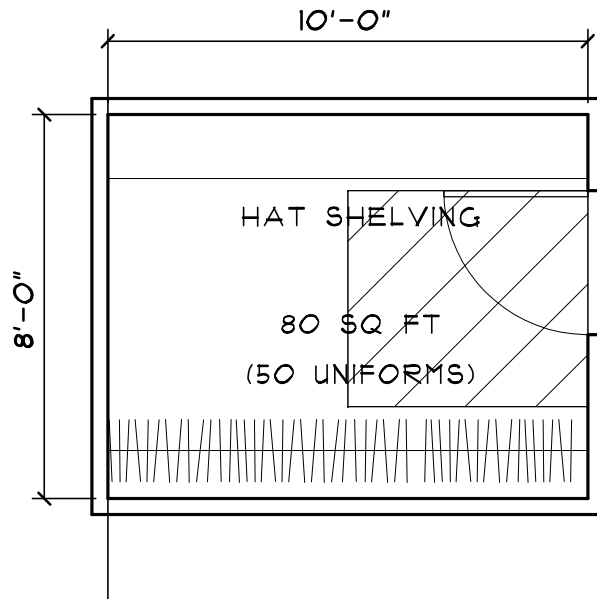
MITCHELL ASSOC. ARCHITECTS
CONFERENCE ROOM TABLE & CHAIR STORAGE
PLOT DATE: 5/23/2006
SCALE: 1/4" = 1'-0"

ROOM #B15-16



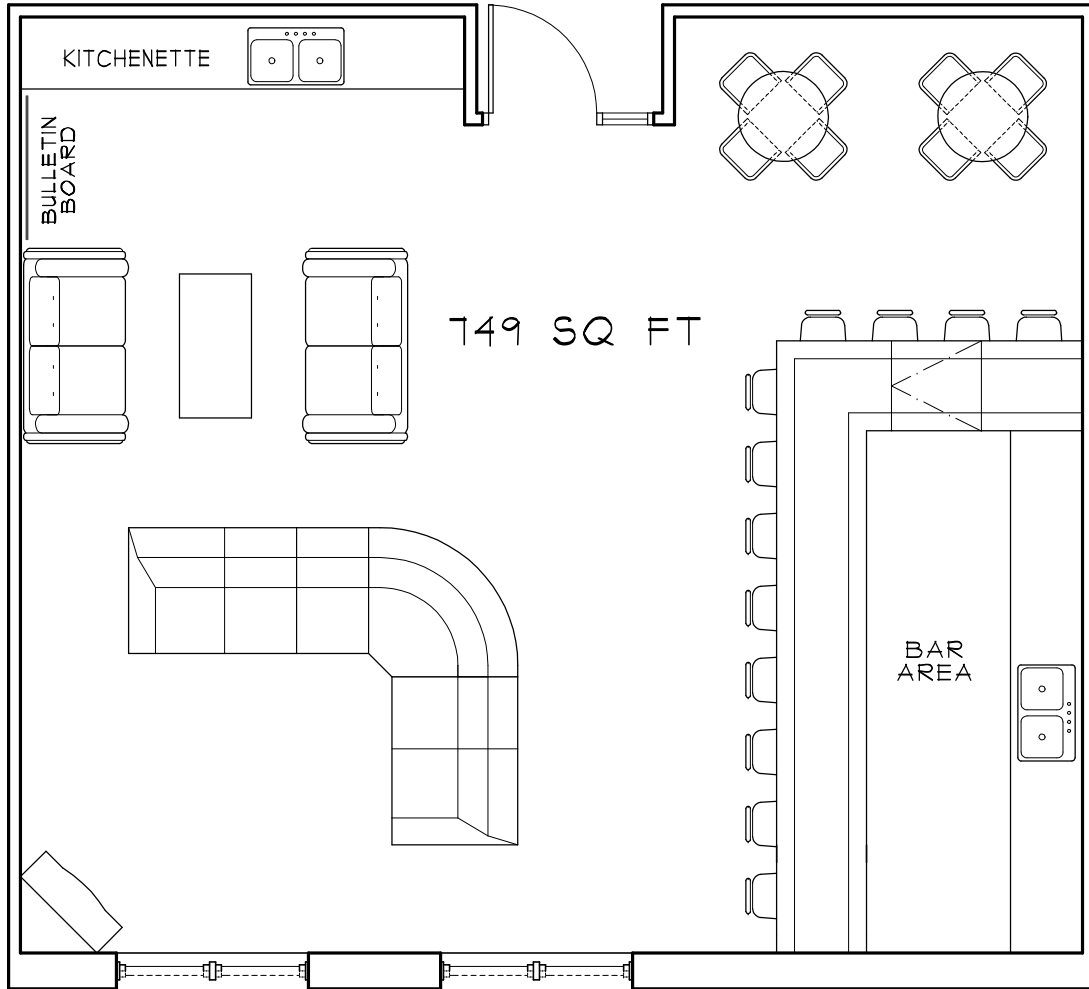
MITCHELL ASSOC. ARCHITECTS
OFFICE
PLOT DATE: 3/13/2015
SCALE: 1/4" = 1'-0"

ROOM #B18



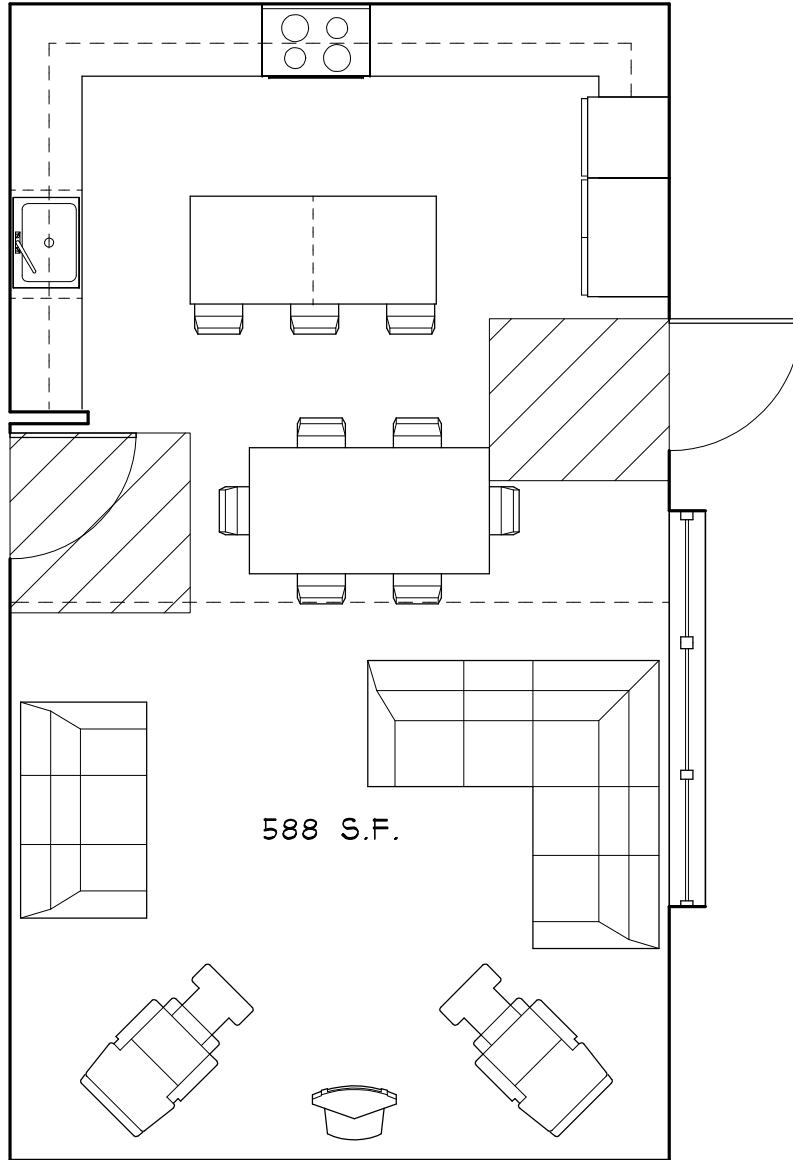
MITCHELL ASSOC. ARCHITECTS
UNIFORM STORAGE
PLOT DATE: 5/23/2006
SCALE: 1/4" = 1'-0"
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ROOM #B-19



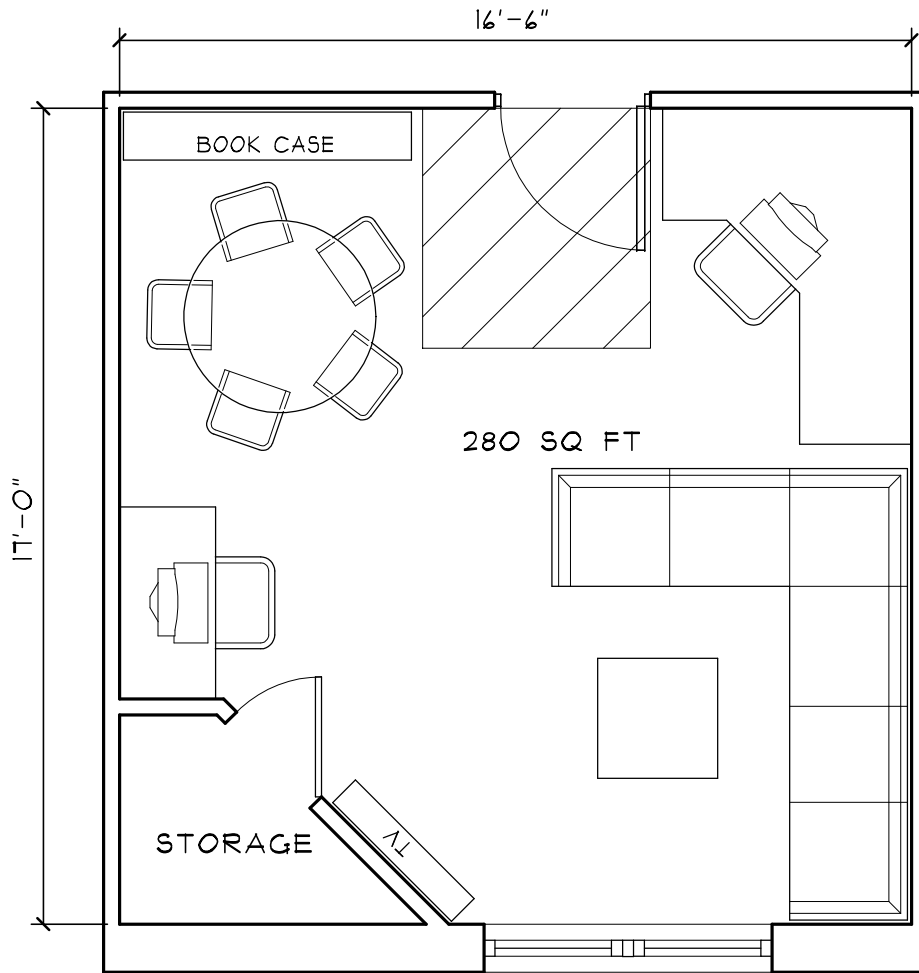
MITCHELL ASSOC. ARCHITECTS
FIREFIGHTERS
PLOT DATE: 5/23/2006
SCALE: 3/16" = 1'-0"

ROOM #B20



MITCHELL ASSOC. ARCHITECTS
DAY ROOM
PLOT DATE: 3/13/2015
SCALE: 3/16" = 1'-0"

ROOM #B21



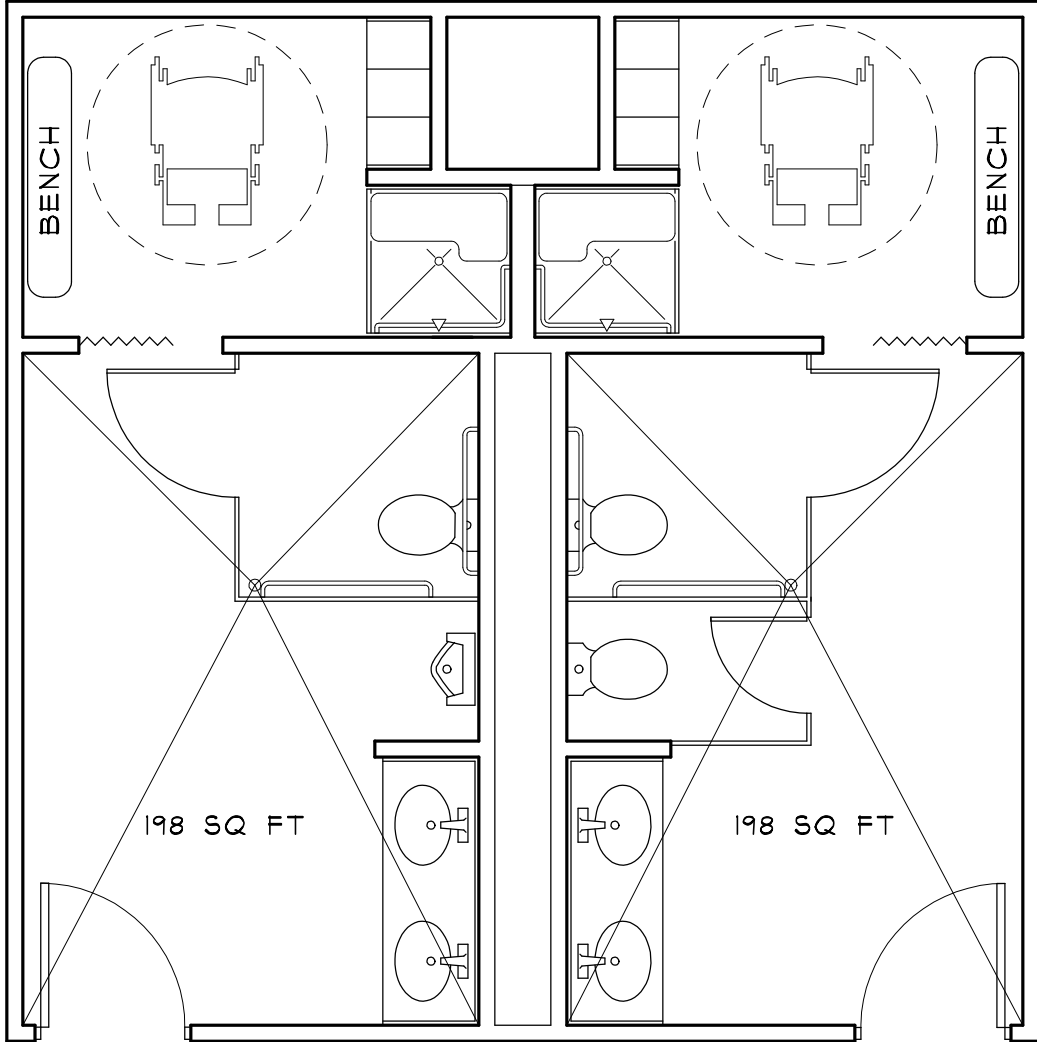
MITCHELL ASSOC. ARCHITECTS

JUNIOR FIREFIGHTERS

PLOT DATE: 5/23/2006

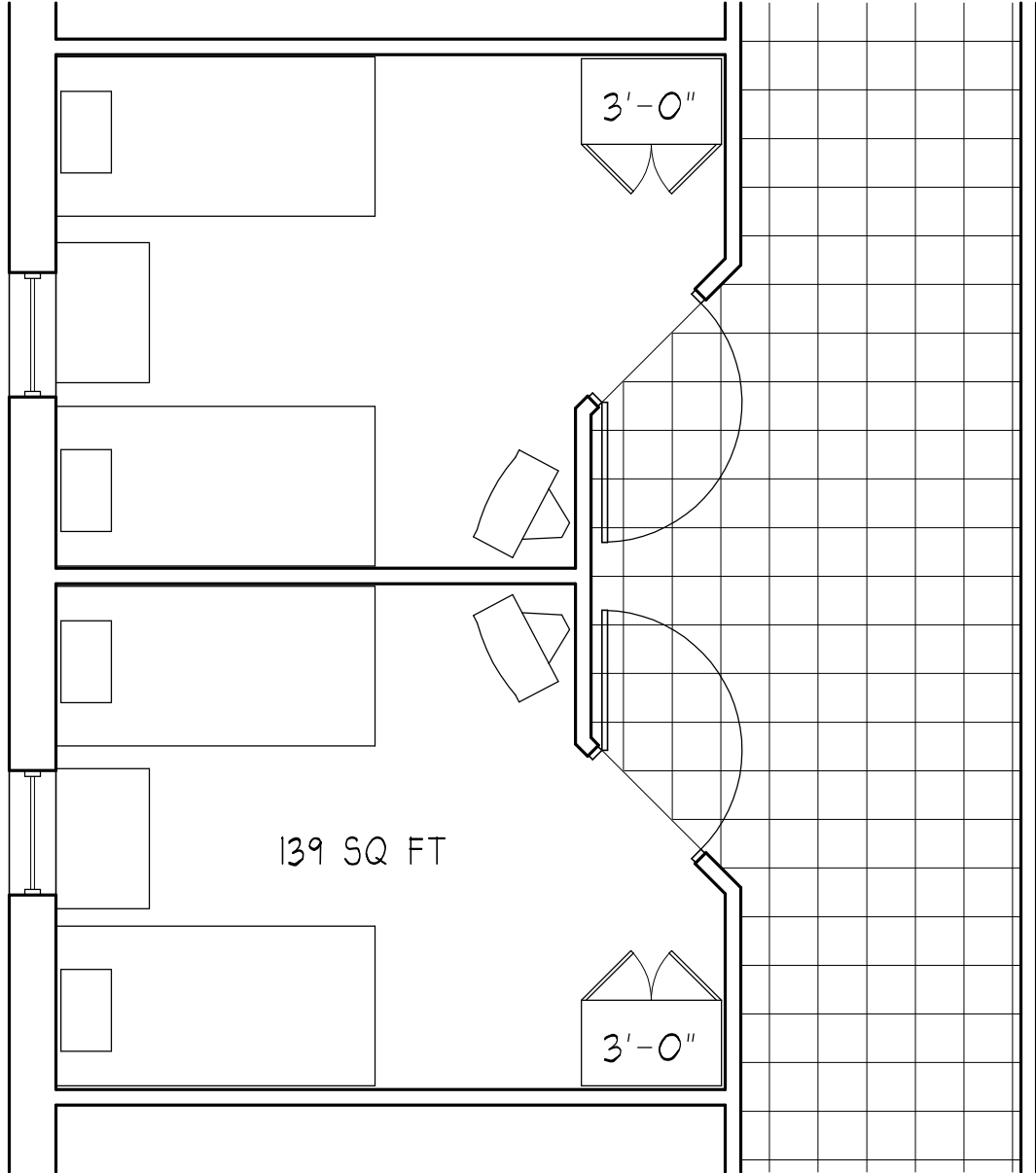
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ROOM #B22



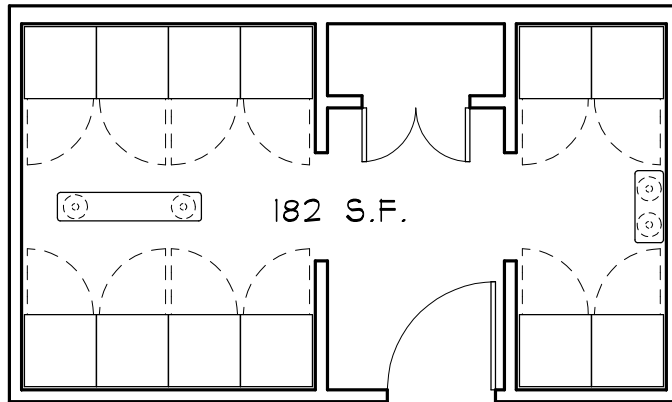
MITCHELL ASSOC. ARCHITECTS
BATHROOMS
PLOT DATE: 5/23/2006
SCALE: 1/4" = 1'-0"

ROOM #B23



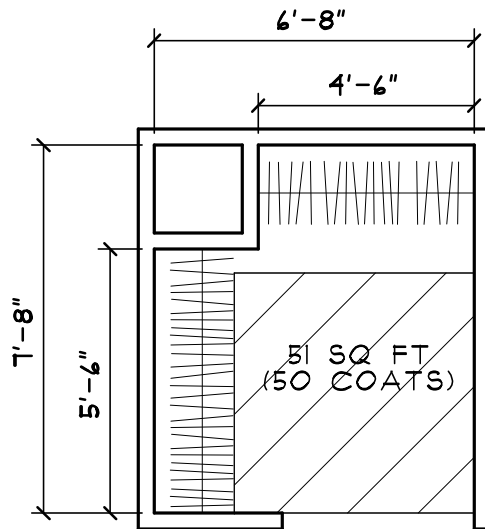
MITCHELL ASSOC. ARCHITECTS
BUNK ROOM
PLOT DATE: 5/23/2006
SCALE: 1/4" = 1'-0"

ROOM #B25



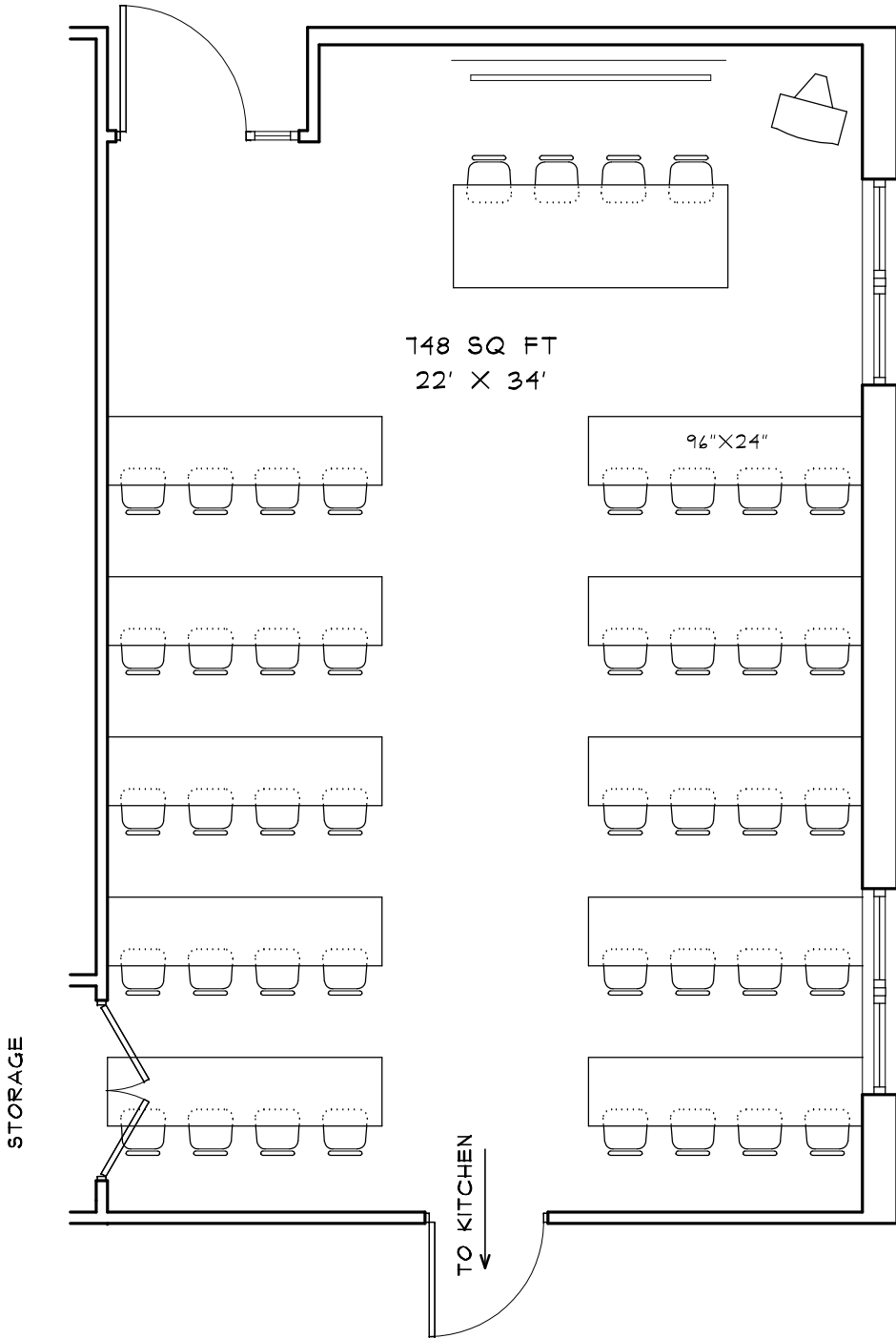
MITCHELL ASSOC. ARCHITECTS
LOCKER ROOM
PLOT DATE: 5/23/2006
SCALE: 3/16" = 1'-0"
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ROOM #B28



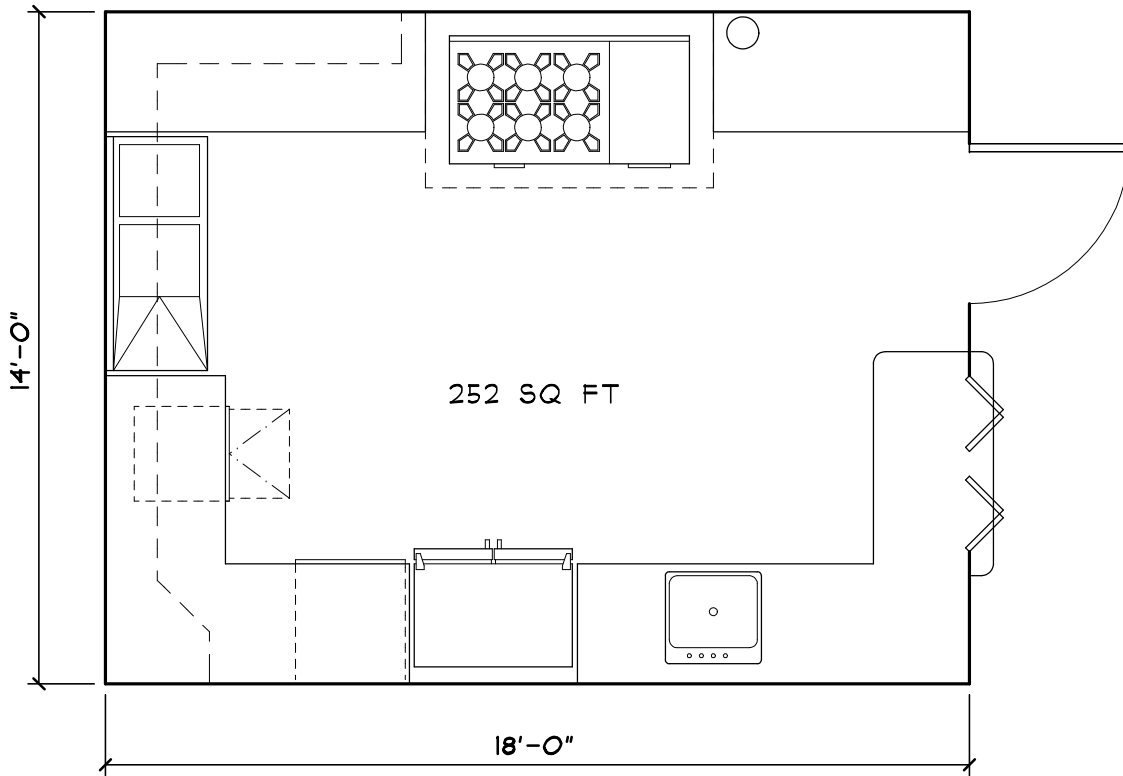
MITCHELL ASSOC. ARCHITECTS
COAT ROOM
PLOT DATE: 5/23/2006
SCALE: 1/4" = 1'-0"

ROOM #B30



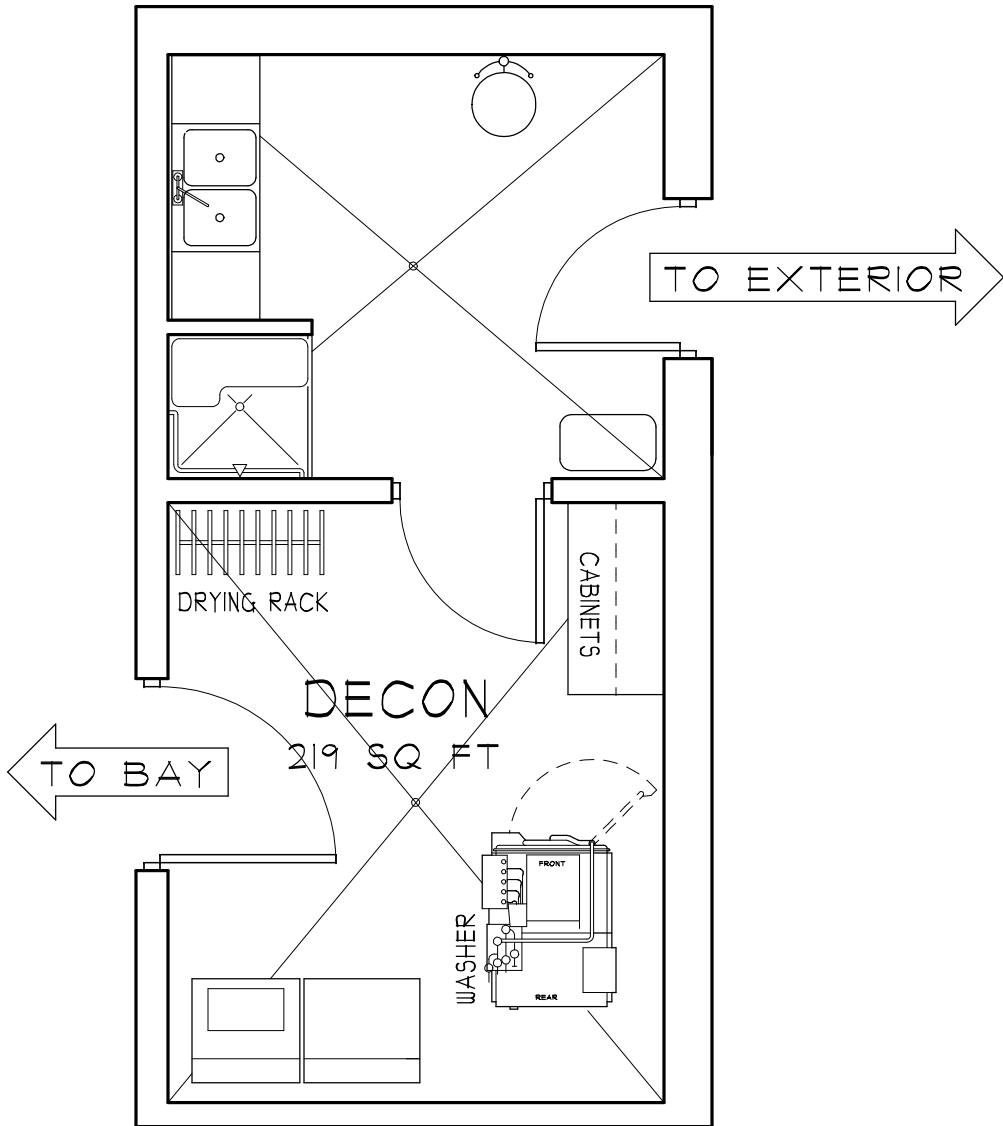
MITCHELL ASSOC. ARCHITECTS
MEETING/TRAINING
PLOT DATE: 5/23/2006
SCALE: 3/16" = 1'-0"
S:\J Drive\Archive\Beacon\Individual Rooms\B30-TRAINING

ROOM #B32



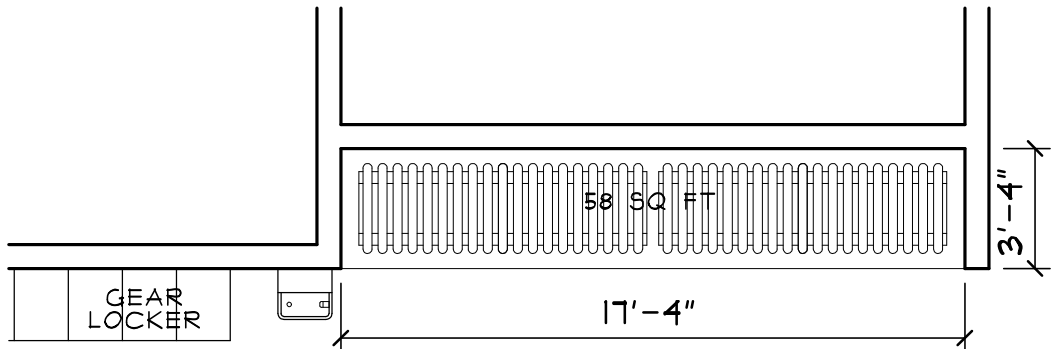
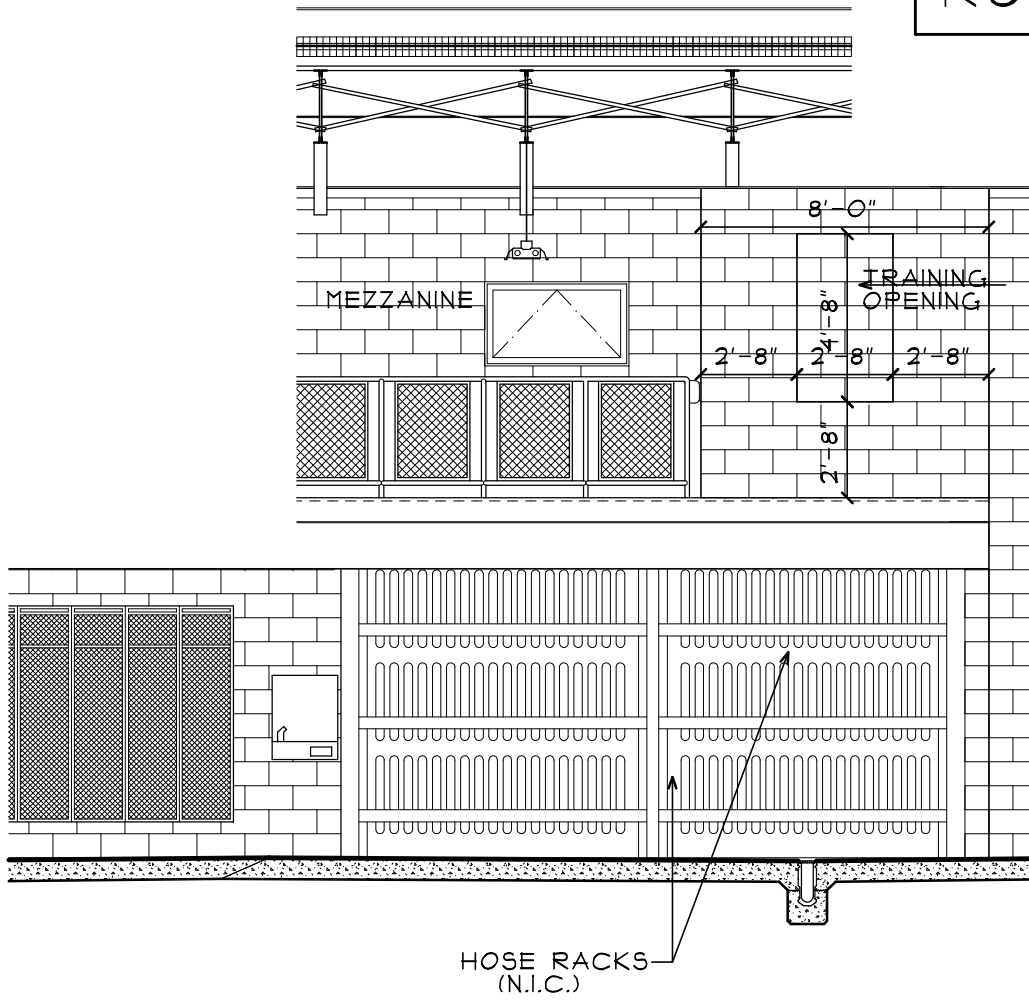
MITCHELL ASSOC. ARCHITECTS
KITCHEN
PLOT DATE: 5/23/2006
SCALE: 1/4" = 1'-0"

ROOM #B6



MITCHELL ASSOC. ARCHITECTS
DECON/LAUNDRY
PLOT DATE: 5/23/2006
SCALE: 1/4" = 1'-0"
S:\J Drive\Archive\Beacon\Individual Rooms\B6-DECON

ROOM #b7



MITCHELL ASSOC. ARCHITECTS

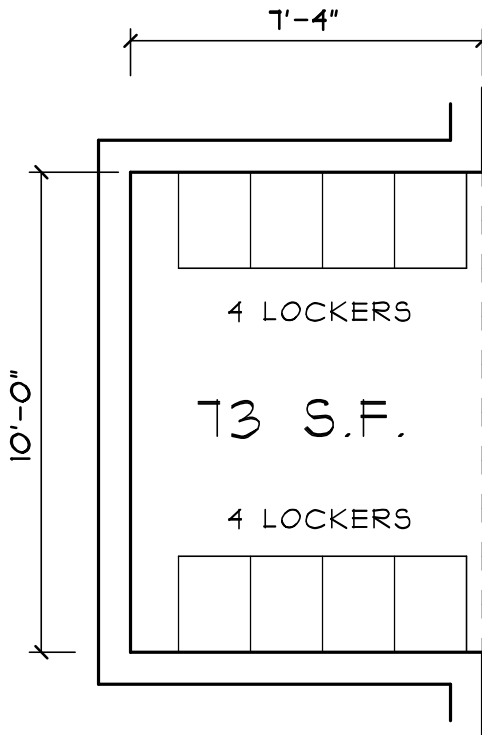
HOSE STORAGE ALCOVE

PLOT DATE: 5/23/2006

SCALE: 3/16" = 1'-0"

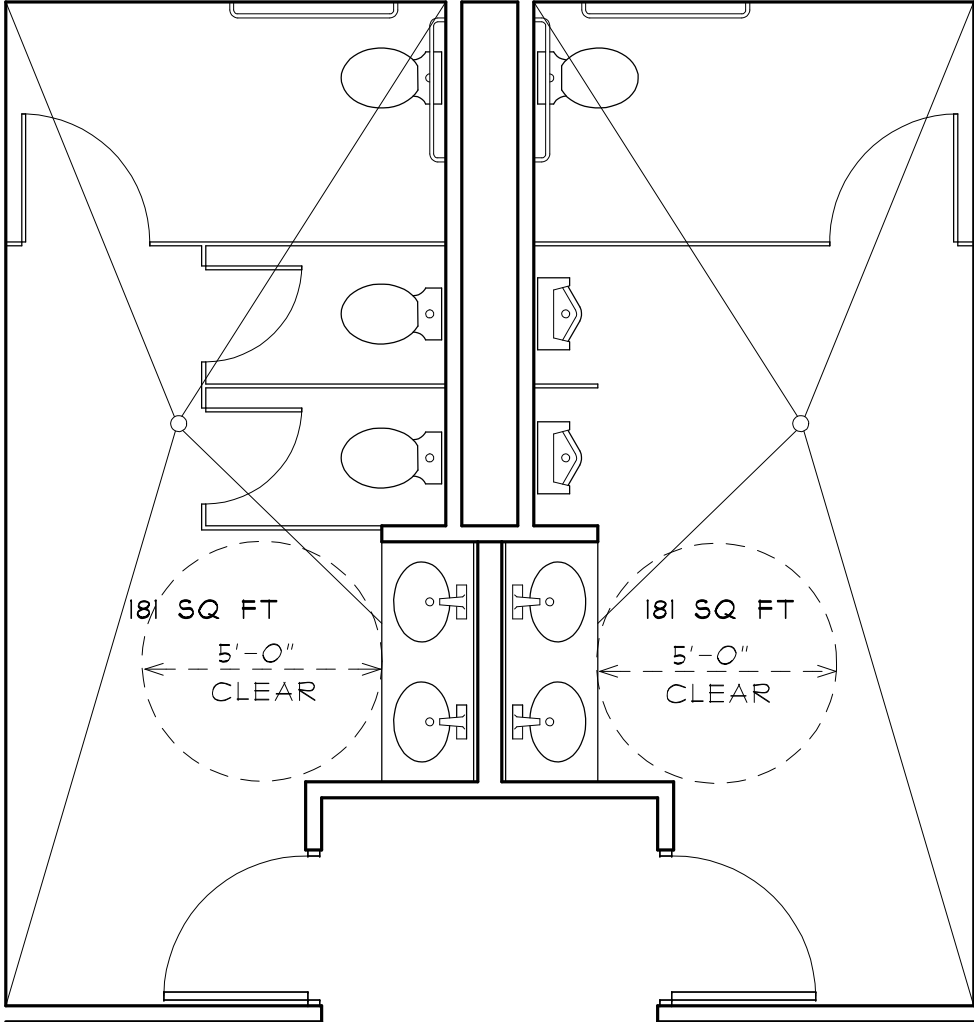
S:\J Drive\Archive\Beacon\Individual Rooms\B7-hose niche

ROOM #B9



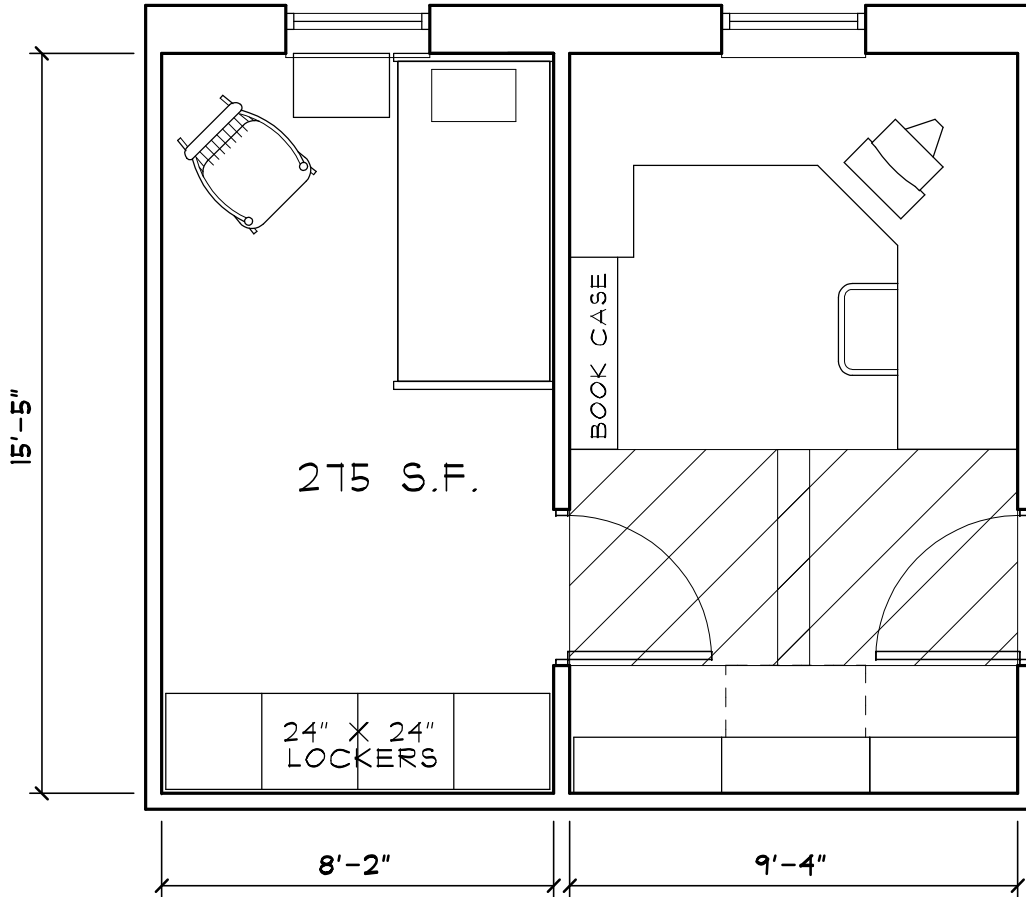
MITCHELL ASSOC. ARCHITECTS
PAID BUNKER GEAR
PLOT DATE: 5/23/2006
SCALE: 1/4" = 1'-0"

ROOM #__



MITCHELL ASSOC. ARCHITECTS
BATHROOMS
PLOT DATE: 5/23/2006
SCALE: 1/4" = 1'-0"
S:\J Drive\Archive\Beacon\Individual Rooms\BATHROOM

ROOM #D10



MITCHELL ASSOC. ARCHITECTS

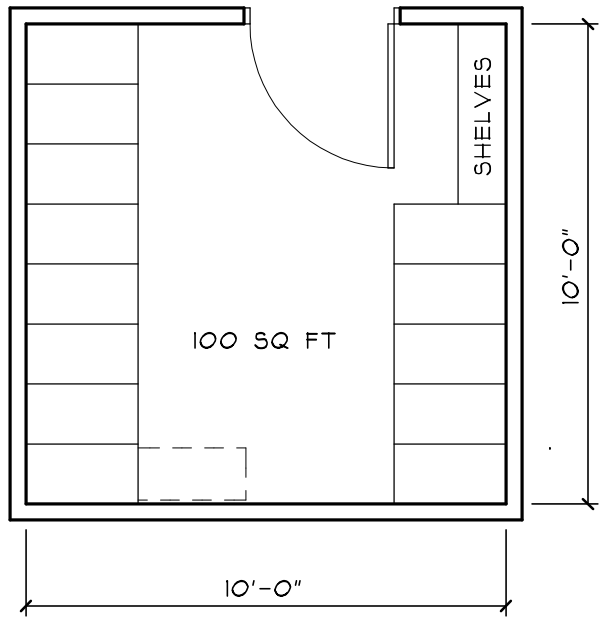
TOUR COMMANDER

PLOT DATE: 5/23/2006

SCALE: 1/4" = 1'-0"

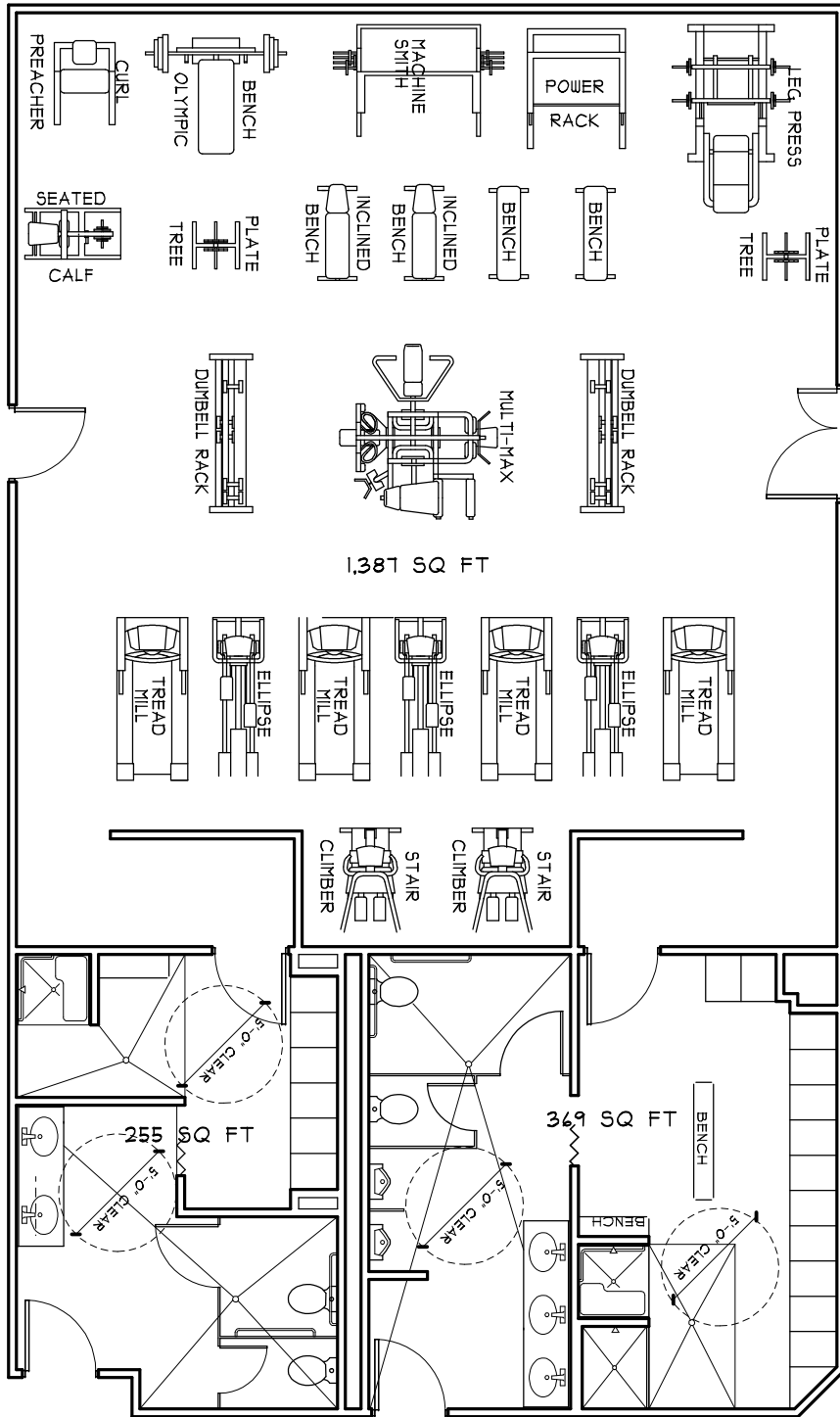
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ROOM #D13



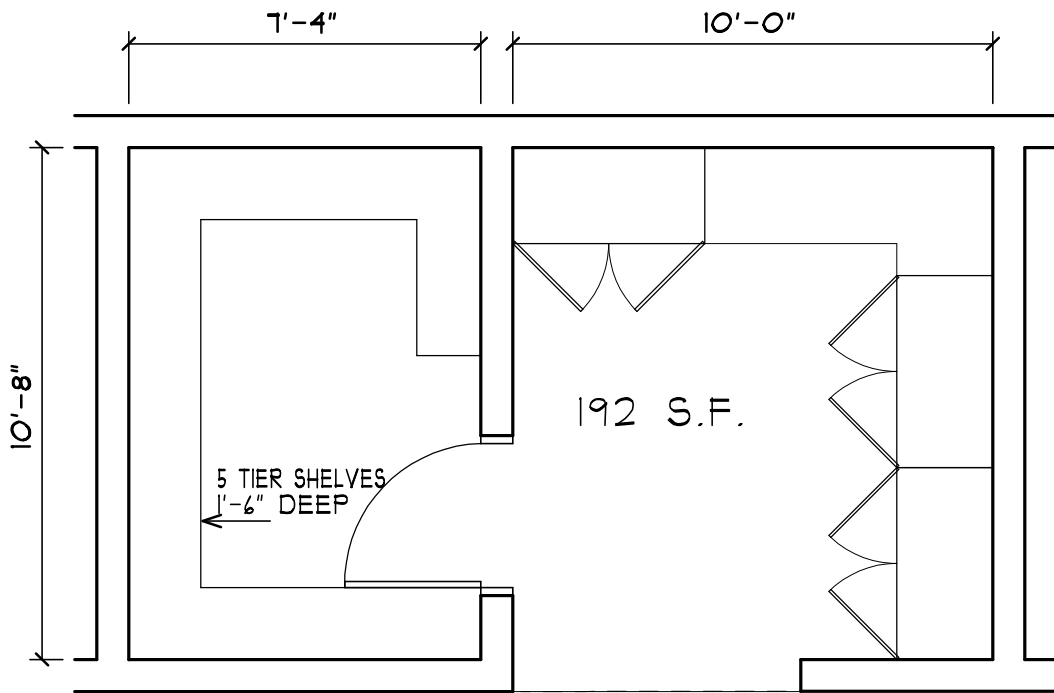
MITCHELL ASSOC. ARCHITECTS
RECORDS STORAGE
PLOT DATE: 5/23/2006
SCALE: 1/4" = 1'-0"
B:\J Drive\Archive\Beacon\Individual Rooms\D13-RECORDS

ROOM #D15



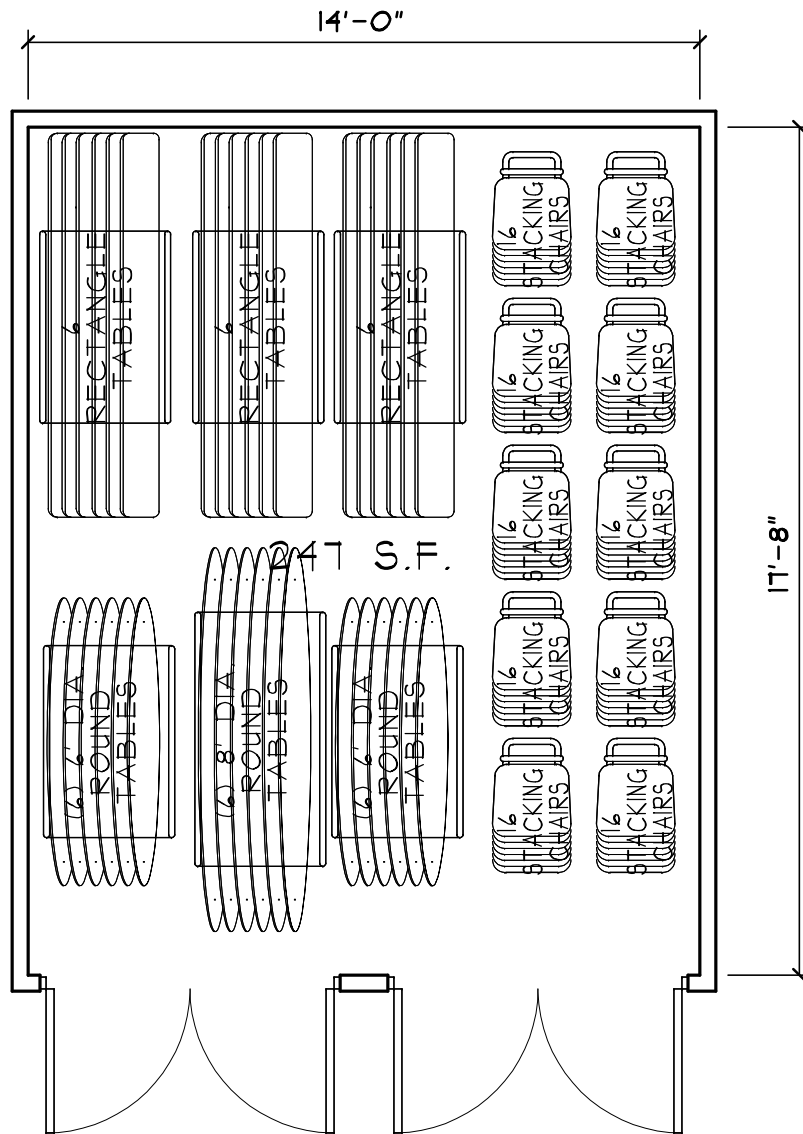
MITCHELL ASSOC. ARCHITECTS
GYM & LOCKER ROOM
PLOT DATE: 5/23/2006
SCALE: 1/8" = 1'-0"

ROOM #D2



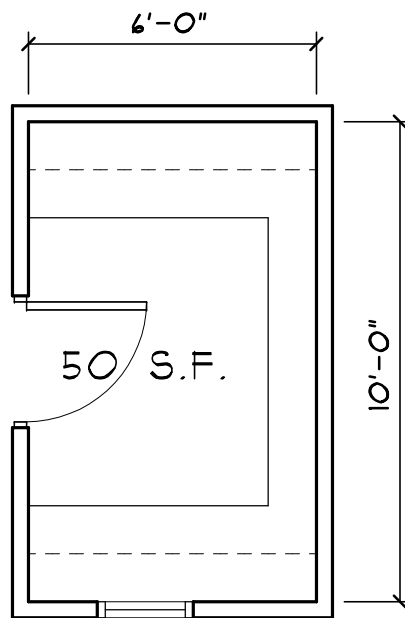
MITCHELL ASSOC. ARCHITECTS
EMS STORAGE
PLOT DATE: 5/23/2006
SCALE: 1/4" = 1'-0"

ROOM #D20



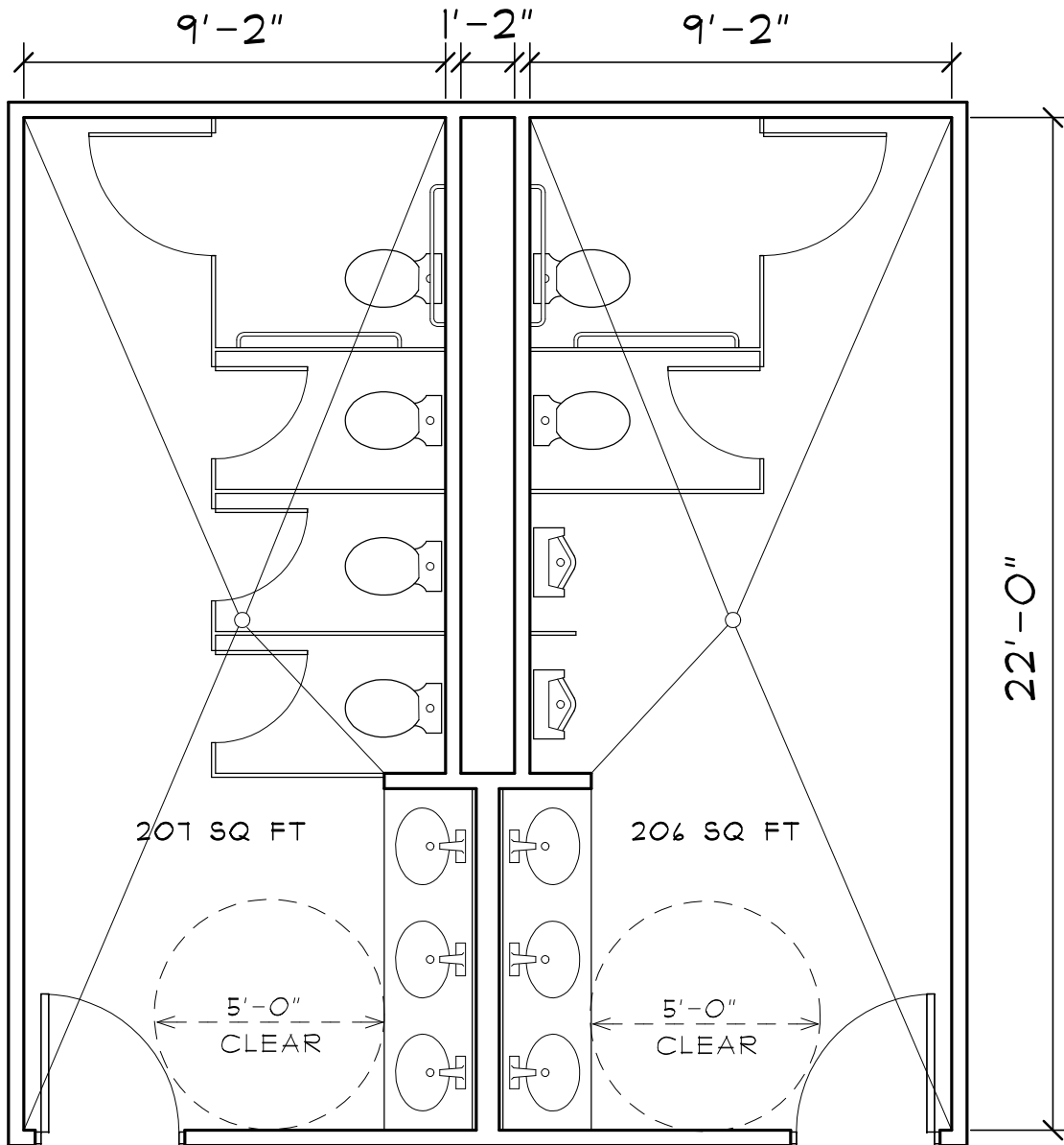
MITCHELL ASSOC. ARCHITECTS
TABLE & CHAIR STORAGE
PLOT DATE: 5/23/2006
SCALE: 1/4" = 1'-0"

ROOM #D21



MITCHELL ASSOC. ARCHITECTS
AUDIO VISUAL
PLOT DATE: 5/23/2006
SCALE: 1/4" = 1'-0"
S:\J Drive\Archive\Beacon\Individual Rooms\D21-A_V

ROOM #D24



MITCHELL ASSOC. ARCHITECTS
BATHROOMS
PLOT DATE: 5/23/2006
SCALE: 1/4" = 1'-0"

MITCHELL ASSOCIATES ARCHITECTS

• EMERGENCY SERVICES FACILITIES •

Fire Station Program Document

Project Name: City of Beacon Fire Department – Mase H & L

Program Meeting Date: 11/10/05

Printout Date: March 12, 2015

Filename: HDQTRS - Mase H & L.doc

When answering questions, indicate what you want in the future, not what you currently have.

A General Information

- A1. Number of Members; total: **100** ; active: 29 ; female: **0**; male:29
- A2. Typical Turnout: _____
- A3. On-Call: _____
- A4. Board Members:
- A4.1. **Jerry Antalek - President**
 - A4.2. **Dale Antalek – Vice President**
 - A4.3. **Tim Joseph - Chief**
 - A4.4. **Chuck Pisanelli - Captain**
- A5. Building Committee:
- A5.1. **Chuck Pisanelli**
 - A5.2. **Jerry Antalek**
 - A5.3. **Matt Naughton**
 - A5.4. **Dustin James**
 - A5.5. **Brian Smith**
 - A5.6. **Matt Dubetty**
 - A5.7. **Terry Davis**
 - A5.8. **Mike Frederic**
 - A5.9. **Lou Amoroso, Jr.**
- A6. Type of entity:
- A6.1. Municipality: **Beacon** Type: **City**
- A7. Number of Companies or Departments involved: **3**
- A7.1. Names: **Headquarters**
 - A7.2. **Station 1**
 - A7.3. **Station 2**
- A8. Date of District monthly meeting: _____; Date of Company monthly meeting: **1st Tuesday**

B Functional Activities in Building

B1. Types of response:

- B1.1. Fire: **X**
- B1.2. EMS: **X**
- B1.3. Heavy Rescue: **No**
- B1.4. HAZ MAT: **X**
- B1.5. Water Rescue: **No**
- B1.6. Ambulance: **No**; Transporting _____

B2. Training activities in building: **(Future) We need a location to conduct hands on training**

- B2.1. **Search & rescue in basement and ground (Current)**
- B2.2. **Ladders on exterior of Building – Films (Current)**

B3. Training activities on site:

- B3.1. **None**

B4. Other uses of apparatus bay:

- B4.1. Social events: **X**
- B4.2. Craft fairs: **No**
- B4.3. Other: **No**
- B4.4. Sleeping Over: **No**
- B4.5. Short term: **No**
- B4.6. Long term: **No**

B5. Meetings:

- B5.1. Type: **Company Meeting** ; size: **20/meeting** ; frequency: **Once per month**

B6. Social Life:

- B6.1. Daily recreation – describe: **Exercise – Gym equipment on 3rd floor**
- B6.2. Periodic recreation – describe: **Christmas Party and Banquet**
- B6.3. Outdoor recreation – describe: **Softball, Family Day and Day of Golf**

B7. Access control:

- B7.1. Electronic access: **Need**
- B7.2. Vendor's access to drop off material: **Limited**; Where: **Lobby – Pepsi Soda**
- B7.3. Will other fire companies park their apparatus in the bay under certain circumstances: **Yes**
 - .7.3.1. Describe: **Rombout FD Tower – Their ladder doesn't fit currently**
 - .7.3.2. Is their access to the building to be limited: **Yes**
 - .7.3.3. Describe: **First Floor Only**

APPARATUS

1 Apparatus Bays – Bay is too small – no room to get around the truck. No work bench or storage for gear/equipment

- 1.1 Number of vehicles: **1**; # of bays: **1**
 - 1.1.1 Name: **33-45** ; type: **Tower Ladder**; length: **48'** ; weight: **80,000 lbs**
- 1.2 Type of bays:
 - 1.2.1 Double deep: **X** ; quantity: 1
- 1.3 Wash bay: _____ ; Where: **Need a wash area in bay**
- 1.4 Plan for future expansion of bays: _____ # _____
- 1.5 Overhead doors: **Sufficient for Future Apparatus Requirements**
- 1.6 Pedestrian doors:
 - 1.6.1 Number: **2**
 - 1.6.2 Locations: **Front /Rear**
- 1.7 Number of gear lockers: _____ ; now: **4** ; later: **Need at least 20**
 - 1.7.1 Location: **In Bay**
- 1.8 Signage requirements: _____
- 1.9 Trench drains: _____ ; Layout: _____
- 1.10 Wall mounted hose reels: _____ ; Quantity: _____
- 1.11 Fume exhaust: **X** ; Type: _____ ; Later: _____
- 1.12 Truck fills: **Not Needed**
 - 1.12.1 Wall hydrant: **Yes** ; Quantity: _____
- 1.13 Overhead electrical drops: **Need** ; Quantity: _____
- 1.14 Overhead airdrops: **Need**; Quantity: _____
- 1.15 Compressed air for tools: **Need**
- 1.16 Sinks: **X** ; Where: **In Bay – Need upgrade**
- 1.17 Drench shower: _____ ; Where: _____ (Note Decon Laundry!)
- 1.18 Lockable storage cabinets: **Need Storage for equipment**
- 1.19 Foam: _____
 - 1.19.1 Details: _____
- 1.20 Other equipment: _____

- 1.21 Epoxy flooring: _____
- 1.22 Wall construction type: _____
- 1.23 Assumed size: _____
- 1.24 Adjacencies: _____

- 6.6 Drench shower: _____ ; Where: _____
- 6.7 Backboard/Etc. cleaning: _____
- 6.8 Holding tank: _____
- 6.9 Size: _____ x _____ ; or _____ sq ft
- 6.10 Comments/Adjacencies: **No location for Decon Equipment - Need**

7 Hazardous Waste Disposal – Need – Don’t have it now

- 7.1 Location: _____
- 7.2 Size: _____ x _____ ; or _____ sq ft
- 7.3 Comments: _____

8 Oxygen Storage Room - ?

- 8.1 Size: _____ x _____ ; or _____ sq ft
- 8.2 Adjacencies: _____
- 8.3 Comments: _____

Hose Storage – Not Needed – All hose at Engine Stations

9 Apparatus Floor Rest Rooms

- 9.1 Quantity: **1**
- 9.2 Fixture: **Sink, toilet & urinal? Yes**
- 9.3 Showers: **No**
- 9.4 Lockers: **No**
- 9.5 Other: _____
- 9.6 Comments: **Same as public and career rest room**
- 9.7 Adjacencies: _____

10 Radio Room –Need larger room and technology upgrade

- 10.1 Location: **Adjacent to Apparatus Room**
- 10.2 View control: **Window to Apparatus Room**
- 10.3 Seating for how many: **3**
- 10.4 Door operator switches: **Yes**
- 10.5 Traffic device control: **Yes**
- 10.6 Light switches for app bay: **Yes**; Outside: _____
- 10.7 Internal paging system: **Yes**
- 10.8 Siren trigger: _____ ; Shutoff: _____ ; Siren location: _____
- 10.9 Computer equipment: **Yes**
- 10.10 Other equipment: **Chargers**
- 10.11 File cabinets: Yes ; Describe: _____
- 10.12 Wall mounted items: **Bulletin Board, Clock and map**

- 10.13 Rechargeable items (flashlights, plectrons): **Yes**
- 10.14 Lockable storage: _____
- 10.15 Size: **147** sq ft
- 10.16 Adjacencies: _____

* CAD system only functional at HQ – needs to be at St 1 and St. 2

* Need new computers and technology and space

ADMINISTRATION

11 Firefighter’s Lobby – Same as Public

- 11.1 Size: _____ x _____ ; or _____ sq ft
- 11.2 Comments: **Could be larger**
- 11.3 Adjacencies: _____

12 Conference Room

- 12.1 Uses:
 - 12.1.1 **Training for up to 25 people**
 - 12.1.2 **Small meetings**
- 12.2 Seat how many: **12** at table; **18** at wall
- 12.3 Is there a workstation with a computer to be shared by all users: **Yes**
- 12.4 Size: **377** sq ft
- 12.5 Comments: **Furniture convertible from conference to classroom, drop down projector & screen**
- 12.6 Adjacencies: _____

13 Active Officers

- 13.1 Seat how many: **4**
- 13.2 Is there a workstation with a computer: **2 or more**
- 13.3 Size: **233** sq ft
- 13.4 Comments: _____
- 13.5 Adjacencies: _____

14 Civil Officers

- 14.1 Seat how many: **4**
- 14.2 Is there a workstation with a computer: **2 or more**
- 14.3 Size : **233** sq ft
- 14.4 Comments: _____
- 14.5 Adjacencies: _____

15 Records Storage

- 15.1 Location: **Near Office**
- 15.2 Size: **100** sq ft
- 15.3 Comments: _____
- 15.4 Adjacencies: _____

16 Uniform Storage

- 16.1 Location: _____
- 16.2 Size: **80** sq ft
- 16.3 Comments: **50 uniforms = 20 ft of pole, plus 50 hats**
- 16.4 Adjacencies: _____

FIREFIGHTERS

17 Firefighters' Rest Rooms

- 17.1 Showers: **1 – 3rd Floor**
- 17.2 Lockers: **4 – in Bay**
- 17.3 Other: _____
- 17.4 Comments: **Need locker room /showers**
- 17.5 Adjacencies: _____

18 Firefighter's Recreation Room

- 18.1 Number of chair seating: **20**
- 18.2 Couch: **Yes** ; seats how many: **6**
- 18.3 TV: **Yes** ; Size: _____
- 18.4 Card table: **Yes**; how many: **2**
- 18.5 Coffee maker: **Yes**
- 18.6 Microwave: **Yes**
- 18.7 Popcorn maker: _____
- 18.8 Bulletin board: **Yes** ; Size: **4 X 6**
- 18.9 Bar: **Yes**
 - 18.9.1 Length: _____ ; seats: **12**
 - 18.9.2 Beer cooler: **Yes** ; Size: _____
 - 18.9.3 Sink: **Yes**; Size: **double**
 - 18.9.4 Cold drinks: **Yes** ; Handled how: **cans**
- 18.10 Ice machine: **Yes** ; Size: **400 lbs**
- 18.11 Size: **749** sq ft

18.12 Adjacencies: _____

18.13 Comments: _____

19 Volunteer Firefighters Day Room (Same as Paid Day Room???)

19.1 Kitchen/Kitchenette: **Kitchenette**

19.1.1 Size: _____ x _____ ; or _____ sq ft

19.2 Dining/Eating: **Yes**

19.2.1 Size: _____ x _____ ; or _____ sq ft

19.3 Living/T-V: _____

19.4 Total Size: **588** sq ft

19.5 Comments: _____

19.6 Adjacencies: _____

20 Junior Firefighters Room

20.1 Couch: **Yes** ; seats how many: **6**

20.2 TV: **Yes** ; Size: _____

20.3 Bulletin board: **Yes** ; Size: **4 X 6**

20.4 Size: **280** sq ft

20.5 Comments: _____

20.6 Adjacencies: _____

21 Lockers/Bath – Need locker area & shower

21.1 Showers: _____

21.2 Lockers: _____

21.3 Other: _____

21.4 Size: _____ x _____ ; or _____ sq ft

21.5 Comments: _____

21.6 Adjacencies: _____

<p>PAID PERSONNEL</p>

22 Paid Personnel Bunk Room

22.1 Number of rooms: **2**

22.2 Beds per room: **2**

22.3 Size: **139** sq ft each

22.4 Comments: **Must have egress windows by code**

22.5 Adjacencies: **Bay??**

23 Paid Personnel Bathroom

- 23.1 Quantity: **2**
- 23.2 Fixture: **Sink, toilet, urinal & shower**
- 23.3 Size: **98 sq ft each**
- 23.4 Comments: **One person at a time**
- 23.5 Adjacencies: **Bunk rooms**

24 Paid Personnel Locker Room

- 24.1 Size: **305 sq ft**
- 24.2 Comments: **24 lockers @ 2' X 2'**
- 24.3 Adjacencies: **Bunking**

25 Paid Personnel Day Room

- 25.1 **Kitchen, Dining, Living & T-V**
- 25.2 Size: **588 sq ft**
- 25.3 Comments: _____
- 25.4 Adjacencies: **Bunking & Bay**

26 Bunker's Living Room - Need

- 26.1 Seat how many: _____
- 26.2 Size: _____ x _____ ; or _____ sq ft
- 26.3 Comments: _____
- 26.4 Adjacencies: _____

27 Bunker's Study Room - Need

- 27.1 Quantity: _____
- 27.2 Size: _____ x _____ ; or _____ sq ft
- 27.3 Comments: _____
- 27.4 Adjacencies: _____

28 Bunker's Bulk Storage - Need

- 28.1 Size: _____ x _____ ; or _____ sq ft
- 28.2 Comments: _____
- 28.3 Adjacencies: _____

PUBLIC SPACES

29 Public Entry Area

- 29.1 Air lock: **Yes**
- 29.2 Trophy case: **Yes** ; Size: _____
- 29.3 Bulletin board: **Yes**; Size: _____
- 29.4 Plaque: _____
- 29.5 Size: **12 x 14** ; or **168** sq ft
- 29.6 Comments: _____
- 29.7 Adjacencies: _____

30 Coat Room

- 30.1 Number of coats: **50**
- 30.2 Size: **51** sq ft
- 30.3 Comments: _____
- 30.4 Adjacencies: **Public entry**

31 Museum

- 31.1 Uses: **None Present - Needed**
- 31.2 Size: _____ x _____ ; or _____ sq ft
- 31.3 Comments: _____
- 31.4 Adjacencies: _____

32 Meeting/Training Room

- 32.1 Public access: **Yes**
- 32.2 Uses:
 - 32.2.1 Seating: **49**
 - 32.2.2 Department meetings: **Yes**
 - 32.2.3 Training: **Yes**
 - 32.2.4 Fundraising dinners: **Yes**
 - 32.2.5 Political/Municipal: **No**
 - 32.2.6 Boy Scouts or other similar groups: **Yes**
 - 32.2.7 Rental: **Yes**; To whom: **members**
- 32.3 Number of tables & size: now **10 classroom, 1 head table & (6) 5' dia. round**
- 32.4 Trophy case: ____ ; Size _____ ; location _____
- 32.5 Whiteboard: ____ ; Size _____ ; location _____
- 32.6 Bulletin board: ____ ; Size _____ ; location _____
- 32.7 TV: _____ ; Where stored: _____

- 32.8 Size: **748** sq ft
- 32.9 Comments: _____
- 32.10 Adjacencies: **Public Entry**

33 Meeting/Training Room Storage #1

- 33.1 Table racks: **Yes**; Quantity: **4**
- 33.2 Chair racks: **Yes** ; Quantity: **6**
- 33.3 Size: **9 X 12**, or **108** sq ft
- 33.4 Adjacencies: **Meeting Training**

34 Kitchen

- 34.1 Uses: **Banquets, Christmas Parties, and company functions**
- 34.2 Equipment types and size:
 - Refrigerator: **Yes 25 cubic feet**
 - Sink(s) Pot: **2** ; Hand: 1; Scrub: 1; Disposal: **1**
 - Dishwasher: **1**; Type: **Commercial**
 - Stove: **Yes** ; Type: **Commercial**
 - Oven: **Yes**; Type: **Commercial**
 - Cook top:
 - Hood: **Yes**
 - Other equipment: _____
- 34.3 Center Island: **Yes**
- 34.4 Shuttered opening: **Yes**; Size: _____
- 34.5 Door to exterior: **Yes**
- 34.6 Dish storage: **Yes**
- 34.7 Pantry/food storage: **Yes**
- 34.8 Locked storage: **Yes**
- 34.9 Automatic shut off of heat generating equip @ fire call w/ manual reset: **Yes**
- 34.10 Adjacencies: **Meeting/training**

35 Public Rest Rooms

- 35.1 **Handicapped accessible**
- 35.2 Size: _____ sq ft
- 35.3 Comments: **Size to be determined by code**
- 35.4 Adjacencies: _____

36 File Server/Telephone Room

- 36.1 Size: **48** sq ft
- 36.2 Comments: _____
- 36.3 Adjacencies: _____

37 Mechanical, Electrical, Plumbing, HVAC, Sprinkler, Alarm, etc.

- 37.1 Fuel type at site: _____
- 37.2 Heating type in apparatus bay: _____
- 37.3 Heating type elsewhere: _____
- 37.4 Building to be sprinklered: _____
 - 37.4.1 Adequate water pressure: _____
 - 37.4.2 Storage tank: _____
- 37.5 Hose bibs for exterior: _____
- 37.6 Bay lighting type: _____
- 37.7 Site lighting type: _____
- 37.8 Other lighting considerations: _____
- 37.9 Generator: ____; Describe: _____
- 37.10 Location of generator: _____
- 37.11 Circuits on generator: _____
- 37.12 Security: ____; Describe: _____
- 37.13 Keyless entry: ____; Describe: _____
- 37.14 Alarm: ____; Describe: _____
- 37.15 Siren: ____; Mounting location: _____
- 37.16 Hazardous waste handling: _____
- 37.17 Size: **300** sq ft
- 37.18 Comments: _____
- 37.19 Adjacencies: _____

MITCHELL ASSOCIATES ARCHITECTS

• EMERGENCY SERVICES FACILITIES •

Fire Station Program Document

Project Name: City of Beacon – Station 2 – Lewis Tompkins Hose Co. No. 1

Program Meeting Date: 11/10/05

Printout Date: March 12, 2015

Filename: Station 2 - Tompkins Hose.doc

When answering questions, indicate what you want in the future, not what you currently have.

A General Information

- A1. Number of Members; total: **150**; active: **31** ; female: **2** ; male: **29**
- A2. Typical Turnout: _____
- A3. On-Call: _____
- A4. Board Members:
- A4.1. **15 Civil Officers & Trustees**
- A5. Building Committee:
- A5.1. **All Trustees & Line Officers - 10**
- A5.2. **Dennis Lahey**
- A5.3. **Kirk Kolikowski**
- A5.4. **Tony Piccone**
- A5.5. **Nick Francks**
- A6. Type of entity:
- A6.1. District: _____
- A6.2. Fire Protection District: _____ ; Contract is with: _____
- A6.3. Fire Company: **Lewis Tompkins Hose Co. No. 1** Contract is with: _____
- A6.4. Municipality: **City of Beacon** Type: _____
- A6.5. Other: _____
- A7. 501C.3: _____
- A8. Describe Business & Social Structure: _____

- A9. Number of Companies or Departments involved: **3**
- A9.1. Names: **W H Mase H & L**
- A9.2. **Lewis Tompson Hose**
- A9.3. **Beacon Engine**
- A10. Date of District monthly meeting: **Company Meeting 1st Tuesday of the Month**; Date of Dept monthly meeting: _____
- A11. Location: **LTH Fire Sta. 2**

B Functional Activities in Building

B1. Types of response:

B1.1. Fire: **X**

B1.2. EMS: **X**

B1.3. Heavy Rescue: **X**

B1.4. HAZ MAT: **X**

B1.5. Water Rescue: **X**

B1.6. Ambulance: _____ ; Transporting _____

B2. Training activities in building:

B2.1. **All classroom and some firefighting (ex. Search & rescue**

B3. Training activities on site:

B3.1. **Very limited**

B4. Other uses of apparatus bay:

B4.1. Social events: **No**

B4.2. Craft fairs: **No**

B4.3. Other: **No**

B4.4. Sleeping Over: **No**

B4.5. Short term: **No**

B4.6. Long term: **No**

B5. Standing by :

B5.1. Daily: **No**

B5.2. Outsiders: **Standby Only**

B6. Emergency Shelter:

B6.1. Who stays in building: **Standby Crews**

B6.2. Special needs: **No Quarters for Standby-By Fireman**

B6.3. Special storage: **None available at this time**

B7. Firematic Business:

B7.1. Describe: **F.D. Secretary, Fire Prevention Office (No Office or Storage)**

B8. Social Business:

B8.1. Describe: **1 Civil Officers Office for all Civil Officers**

B9. Meetings:

B9.1. Type: **Company** ; size: **Approx. 50** ; frequency: **Monthly**

B9.2. Type: **Department** ; size: **Approx. 100** ; frequency: **Quarterly**

B10. Social Life:

B10.1. Daily recreation – describe: **TV Room Only**

B10.2. Periodic recreation – describe: **Party's approximately 200 max occupants**

B10.3. Outdoor recreation – describe: **None**

B11. Misc. Activities

B11.1. **Fund Raisers**

B12. Access control:

- B12.1. Electronic access: **Keyless entry**
- B12.2. Vendor's access to drop off material: _____ ; Where: **Lobby only**
- B12.3. Will other fire companies park their apparatus in the bay under certain circumstances: _____
 - .12.3.1. Describe: **Yes – only for stand-by. No extra bays**
 - .12.3.2. Is their access to the building to be limited: **Yes**
 - .12.3.3. Describe: **Must have someone present to open doors and must have free space in bays**

C Site

- C1. Who owns the road in front: **State, County, Town - TOWN**
- C2. Traffic control:
 - C2.1. Needs to be created: **X** ; Agency involved: _____
- C3. Number of primary responder parking spaces needed : **25-70**
- C4. Number of other parking spaces needed: **75-100**
 - Recreation requirements (Pavilion, grill, patio, etc.): **Pavilion, grilling area, horseshoe & pits**

APPARATUS

1 Apparatus Bays

- 1.1 Number of vehicles: **3** ; # of bays: **3**
 - 1.1.1 Name: **Engine**; type: _____ ; length: _____ ; weight: _____
 - 1.1.2 Name: **Engine** ; type: _____ ; length: _____ ; weight: _____
 - 1.1.3 Name: **Rescue** ; type: _____ ; length: _____ ; weight: _____
- 1.2 Type of bays: (**Needed – Extra Bays for Washing Boat and ATV**)
 - 1.2.1 Single deep: **X**; quantity: **3**
- 1.3 Wash bay: **None**; Where: _____
- 1.4 Plan for future expansion of bays: **No # Needed**
- 1.5 Overhead doors: **Sufficient for Future Apparatus Requirements**
- 1.6 Pedestrian doors:
 - 1.6.1 Number: **2**
 - 1.6.2 Locations: **1 Interior and 1 Exterior**
- 1.7 Number of gear lockers: **0**; now: **0** ; later: **Needed**
 - 1.7.1 Location: _____
- 1.8 Signage requirements: _____
- 1.9 Trench drains: _____ ; Layout: _____
- 1.10 Wall mounted hose reels: **None**; Quantity: _____
- 1.11 Fume exhaust: **Yes**; Type: **Ceiling**; Later: _____
- 1.12 Truck fills:
 - 1.12.1 Overhead: **X** ; Quantity: **2**

4 EMS Storage Room

- 4.1 Use: **EMS supplies**
- 4.2 Security: **????**
- 4.3 Size: **8 x 8**
- 4.4 Adjacencies: **Bay**

5 Engineers Work Room

- 5.1 Mechanic: _____; Type of work: _____
- 5.2 Workbench: **Yes**
- 5.3 Tool storage: **Yes**
- 5.4 Stationary power tools: **bench grinder & vise**
- 5.5 Air: **Yes**
- 5.6 Water: **Yes**
- 5.7 Location: _____
- 5.8 Size: **16 x 20**

6 DeCon/Laundry

- 6.1 Sink(s): **1** ; Foot Pedal: **Yes**
- 6.2 Gear washer/extractor: **Yes**
- 6.3 Gear dryer: **Yes???**
- 6.4 Clothes washer & dryer: _____
- 6.5 Ventilated gear racks: **Yes**
- 6.6 Drench shower: _____ ; Where: _____
- 6.7 Backboard/Etc. cleaning: _____
- 6.8 Holding tank: _____
- 6.9 Size: **219** sq ft
- 6.10 Adjacencies: **Bay & exterior**

7 Hazardous Waste Disposal

- 7.1 Location: **None - Needed**
- 7.2 Size: _____ x _____ ; or _____ sq ft
- 7.3 Comments: _____

8 Oxygen Storage Room

- 8.1 Size: **None** x _____ ; or _____ sq ft
- 8.2 Adjacencies: _____
- 8.3 Comments: **Needed**

9 Hose Storage

- 9.1 A room, or on the floor: **On Apparatus Room Floor**
- 9.2 Hose racks: **1** ; # _____ ; Size: **5 shelf x 8 Ft. Long**
- 9.3 Hose drying: **Yes**
- 9.4 Location: **Apparatus Room**
- 9.5 Size: **3 x 8**
- 9.6 Comments: _____

10 Janitor

- 10.1 Size: **8 x 9**
- 10.2 Adjacencies: _____

11 Apparatus Floor Uni-Sex Rest Rooms

- 11.1 Quantity: **1**
- 11.2 Fixture: **Sink, toilet & urinal? Yes**
- 11.3 Showers: **No**
- 11.4 Lockers: **No**
- 11.5 Size: **75 sq ft**
- 11.6 Comments: _____
- 11.7 Adjacencies: _____

12 Radio Room

- 12.1 Location: **Adjacent to Apparatus Room**
- 12.2 View control: **Window to Apparatus Room**
- 12.3 Seating for how many: **3**
- 12.4 Door operator switches: **Yes**
- 12.5 Traffic device control: **Yes**
- 12.6 Light switches for app bay: **Yes**; Outside: _____
- 12.7 Internal paging system: **Yes**
- 12.8 Siren trigger: _____ ; Shutoff: _____ ; Siren location: _____
- 12.9 Computer equipment: **Yes**
- 12.10 Other equipment: **Chargers**
- 12.11 File cabinets: Yes ; Describe: _____
- 12.12 Wall mounted items: **Bulletin Board, Clock and map**
- 12.13 Rechargeable items (flashlights, plectrons): **Yes**
- 12.14 Lockable storage: _____
- 12.15 Size: **147 sq ft**
- 12.16 Adjacencies: _____

ADMINISTRATION

13 Conference Room

- 13.1 Uses:
 - 13.1.1 **Training for up to 25 people**
 - 13.1.2 **Small meetings**
- 13.2 Seat how many: **12** at table; **18** at wall
- 13.3 Is there a workstation with a computer to be shared by all users: **Yes**
- 13.4 Size: **377** sq ft
- 13.5 Comments: **Furniture convertible from conference to classroom, drop down projector & screen**
- 13.6 Adjacencies: _____

14 Active Officers

- 14.1 Seat how many: **4**
- 14.2 Is there a workstation with a computer: **2 or more**
- 14.3 Size: **233** sq ft
- 14.4 Comments: _____
- 14.5 Adjacencies: _____

15 Civil Officers

- 15.1 Seat how many: **4**
- 15.2 Is there a workstation with a computer: **2 or more**
- 15.3 Size : **233** sq ft
- 15.4 Comments: _____
- 15.5 Adjacencies: _____

16 Records Storage

- 16.1 Location: **Near Office**
- 16.2 Size: **100** sq ft
- 16.3 Comments: _____
- 16.4 Adjacencies: _____

17 Uniform Storage

- 17.1 Location: _____
- 17.2 Size: **Current is 266** sq ft
- 17.3 Comments: **??? uniforms = ?? ft of pole, plus ?? helmets & ?? hats**
- 17.4 Adjacencies: _____

VOLUNTEER FIREFIGHTERS

18 Firefighters' Rest Rooms

- 18.1 Showers: **2 ??**
- 18.2 Lockers: **2 ??**
- 18.3 Other: _____
- 18.4 Comments: _____
- 18.5 Adjacencies: _____

19 Firefighter's Recreation Room

- 19.1 Number of chair seating: **20**
- 19.2 Couch: **Yes** ; seats how many: **6**
- 19.3 TV: **Yes** ; Size: _____
- 19.4 Card table: **Yes**; how many: **2**
- 19.5 Coffee maker: **Yes**
- 19.6 Microwave: **Yes**
- 19.7 Popcorn maker: _____
- 19.8 Bulletin board: **Yes** ; Size: **4 X 6**
- 19.9 Bar: **Yes**
 - 19.9.1 Length: _____ ; seats: **12**
 - 19.9.2 Beer cooler: **Yes** ; Size: _____
 - 19.9.3 Sink: **Yes**; Size: **double**
 - 19.9.4 Cold drinks: **Yes** ; Handled how: **cans**
- 19.10 Ice machine: **Yes** ; Size: **400 lbs**
- 19.11 Size: **749** sq ft
- 19.12 Adjacencies: _____
- 19.13 Comments: _____

20 Volunteer Firefighters Day Room (Same as Paid Day Room???)

- 20.1 Kitchen/Kitchenette: **Kitchenette**
 - 20.1.1 Size: _____ x _____ ; or _____ sq ft
- 20.2 Dining/Eating: **Yes**
 - 20.2.1 Size: _____ x _____ ; or _____ sq ft
- 20.3 Living/T-V: _____
- 20.4 Total Size: **588** sq ft
- 20.5 Comments: _____
- 20.6 Adjacencies: _____

26 Paid Personnel Day Room

- 26.1 **Kitchen, Dining, Living & T-V**
- 26.2 Size: **588** sq ft
- 26.3 Comments: _____
- 26.4 Adjacencies: **Bunking & Bay**

PUBLIC SPACES

27 Public Entry Area

- 27.1 Air lock: **None**
- 27.2 Trophy case: **Yes**; Size: **Now 20' – Needs Expansion**
- 27.3 Bulletin board: **Yes** ; Size: **Now 6-8"**
- 27.4 Plaque: _____
- 27.5 Size: _____ x _____ ; or _____ sq ft
- 27.6 Comments: _____
- 27.7 Adjacencies: _____

28 Coat Room

- 28.1 Number of coats: _____
- 28.2 Size: _____ x _____ ; or _____ sq ft
- 28.3 Comments: **Downstairs – too small-needs expansion**
- 28.4 Adjacencies: _____

29 Museum

- 29.1 Uses: **None Present - Needed**
- 29.2 Size: _____ x _____ ; or _____ sq ft
- 29.3 Comments: _____
- 29.4 Adjacencies: _____

30 Meeting/Training Room

- 30.1 Public access: **Yes**
- 30.2 Uses:
 - 30.2.1 Seating: **49**
 - 30.2.2 Department meetings: **Yes**
 - 30.2.3 Training: **Yes**
 - 30.2.4 Fundraising dinners: **Yes**

- 30.2.5 Political/Municipal: **No**
- 30.2.6 Boy Scouts or other similar groups: **Yes**
- 30.2.7 Rental: **Yes**; To whom: **members**
- 30.2.8 Other: _____
- 30.3 Number of tables & size: now **10 classroom, 1 head table & (6) 5' dia. round**
- 30.4 Trophy case: ____ ; Size _____ ; location _____
- 30.5 Whiteboard: ____ ; Size _____ ; location _____
- 30.6 Bulletin board: ____ ; Size _____ ; location _____
- 30.7 TV: _____ ; Where stored: _____
- 30.8 Size: **748** sq ft
- 30.9 Comments: _____
- 30.10 Adjacencies: **Public Entry**

31 Meeting/Training Room Storage #1

- 31.1 Table racks: **Yes**; Quantity: **4**
- 31.2 Chair racks: **Yes** ; Quantity: **6**
- 31.3 Size: **9 X 12**, or **108** sq ft
- 31.4 Adjacencies: **Meeting Training**

32 Kitchen

- 32.1 Uses: **Banquets, Christmas Parties, and company functions**
- 32.2 Equipment types and size:
 - Refrigerator: **Yes 25 cubic feet**
 - Sink(s) Pot: **2** ; Hand: **1**; Scrub: **1**; Disposal: **1**
 - Dishwasher: **1**; Type: **Commercial**
 - Stove: **Yes** ; Type: **Commercial**
 - Oven: **Yes**; Type: **Commercial**
 - Cook top:
 - Hood: **Yes**
 - Other equipment: _____
- 32.3 Center Island: **Yes**
- 32.4 Shuttered opening: **Yes**; Size: _____
- 32.5 Door to exterior: **Yes**
- 32.6 Dish storage: **Yes**
- 32.7 Pantry/food storage: **Yes**
- 32.8 Locked storage: **Yes**
- 32.9 Automatic shut off of heat generating equip @ fire call w/ manual reset: **Yes**
- 32.10 Size: **252** sq ft
- 32.11 Adjacencies: **Meeting/training**

33 Public Rest Rooms

33.1 **Handicapped accessible**

33.2 Size: _____ sq ft

33.3 Comments: **Size to be determined by code**

33.4 Adjacencies: _____

34 File Server/Telephone Room

34.1 Size: **48** sq ft

34.2 Comments: _____

34.3 Adjacencies: _____

35 Mechanical, Electrical, Plumbing, HVAC, Sprinkler, Alarm, etc.

35.1 Fuel type at site: _____

35.2 Heating type in apparatus bay: _____

35.3 Heating type elsewhere: _____

35.4 Building to be sprinklered: _____

35.4.1 Adequate water pressure: _____

35.4.2 Storage tank: _____

35.5 Hose bibs for exterior: _____

35.6 Bay lighting type: _____

35.7 Site lighting type: _____

35.8 Other lighting considerations: _____

35.9 Generator: ____; Describe: _____

35.10 Location of generator: _____

35.11 Circuits on generator: _____

35.12 Security: ____; Describe: _____

35.13 Keyless entry: ____; Describe: _____

35.14 Alarm: ____; Describe: _____

35.15 Siren: ____; Mounting location: _____

35.16 Hazardous waste handling: _____

35.17 Size: **300** sq ft

35.18 Comments: _____

35.19 Adjacencies: _____

MITCHELL ASSOCIATES ARCHITECTS

• EMERGENCY SERVICES FACILITIES •

Fire Station Program Document

Project Name: Beacon Fire Department - Career Members Comments

Program Meeting Date: _____

Printout Date: March 12, 2015

Filename: Fire Program Full.doc

A General Information

- A1. Number of Members; total: **12** ; active: **12** ; female: **0**; male:**12**
- A2. Typical Turnout: **12 sets in house**
- A3. On-Call: **0**

B Functional Activities in Building

- B1. Types of response: All Three Stations
 - B1.1. Fire: **X**
 - B1.2. EMS: **X**
 - B1.3. Heavy Rescue: **X**
 - B1.4. HAZ MAT: **X**
 - B1.5. Water Rescue: **X**
 - B1.6. Ambulance: **No** ; Transporting **?**
 - B1.7. Other: _____
- B2. Training activities in building:
 - B2.1. **Search & Rescue, Hose advancement, EMS**
 - B2.2. Who stays in building: **Paid staff, 1 per station**
- B3. Meetings:
 - B3.1. Type: **Union**; size: **12 people**; frequency: **Every 2 Months**
- B4. Misc. Activities
 - B4.1. **Fire prevention classes**
- B5. Access control:
 - B5.1. Will other fire companies park their apparatus in the bay under certain circumstances: **Yes**
 - .5.1.1. Describe: **under mutual aid for coverage to City of Beacon**

APPARATUS

1 Apparatus Bays

- 1.1 Number of vehicles: **5**; # of bays: **10**
 - 1.1.1 Name: **12** ; type: **Single**; length: _____ ; weight: _____
 - 1.1.2 Name: **55** ; type: **Single**; length: _____ ; weight: _____
 - 1.1.3 Name: **11/13**; type: **Double**; length: _____ ; weight: _____
 - 1.1.4 Name: **--** ; type: **Double**; length: _____ ; weight: _____
 - 1.1.5 Name: **45** ; type: **D/D** ; length: _____ ; weight: _____
 - 1.1.6 Name: **--** ; type: **D/D** ; length: _____ ; weight: _____
- 1.2 Type of bays: * **All drive-through bays to be double bays also**
 - 1.2.1 Drive-through: **Yes** ; quantity:**2**
 - 1.2.2 Double deep: * ; quantity: **6**
 - 1.2.3 Single deep: **Yes** ; quantity:**2**
- 1.3 Overhead doors:
 - 1.3.1 Front:
 - 1.3.1.1 Number: **6**
 - 1.3.1.2 Width: **14** ; Height: **16**
 - 1.3.1.3 Windows: **Yes**
 - 1.3.2 Rear:
 - 1.3.2.1 Number: **2**
 - 1.3.2.2 Width: **14**; Height: **16**
 - 1.3.2.3 Windows: **Yes**
- 1.4 Pedestrian doors:
 - 1.4.1 Number: **5**
 - 1.4.2 Locations: **1 per side & 1 on parking lot side**
- 1.5 Number of gear lockers: **Career** ; now: **12** ; later: **28 + 30 for volunteers**
 - 1.5.1 Location: **Against Wall**
- 1.6 Trench drains: **Yes** ; Layout: **Middle of each bay**
- 1.7 Wall mounted hose reels: **Yes** ; Quantity: **3 @ 100'**
- 1.8 Fume exhaust: **Yes**; Type: **Hose**
- 1.9 Truck fills:
 - 1.9.1 Overhead: **Yes** ; Quantity: **3**
 - 1.9.2 Wall hydrant: **Yes** ; Quantity: **2**
 - 1.9.3 Outdoor hydrant: **Yes** ; Quantity: **1**
- 1.10 Overhead electrical drops: **Yes** ; Quantity: **1/vehicle**
- 1.11 Overhead airdrops: **Yes** ; Quantity: **3**

- 1.12 Compressed air for tools: **No**
- 1.13 Sinks: **Yes** ; Where: **Slop, utility & decon in Bay**
- 1.14 Drench shower: **Yes**; Where: **In Bay** (Note Decon Laundry!)
- 1.15 Lockable storage cabinets: **Yes** ; size: **For App Maint & Tools**
- 1.16 Foam: **?**
- 1.17 Details: _____
- 1.18 Epoxy flooring: **Yes**
- 1.19 Wall construction type: **brick and block**
- 1.20 Assumed size: _____
- 1.21 Adjacencies: **Career Area & Radio Room**

FIREMATIC SUPPORT

1A Mezzanine – for ladder & rope training

1A.1 Size: _____ x _____ ; or _____ sq ft

2 Storage Room #1

- 2.1 Use: **Quartermaster**
- 2.2 Security: **Quartermaster Only**
- 2.3 Size: **20 x 20**; or **400** sq ft
- 2.4 Adjacencies: _____

3 Storage Room #2

- 3.1 Use: **FD Equipment**
- 3.2 Location: **Off apparatus floor**
- 3.3 Security: **Open**
- 3.4 Size: _____ x _____ ; or _____ sq ft
- 3.5 Adjacencies: _____

4 EMS Storage Room

- 4.1 Use: **Supplies, O2 Cascade**
- 4.2 Location: **Off apparatus floor**
- 4.3 Security: **Yes**
- 4.4 Size: **10 x 10** ; or **100** sq ft
- 4.5 Adjacencies: _____

5 Engineers Work Room

- 5.1 Mechanic: **Yes**; Type of work: **Equipment repair and maintenance**
- 5.2 Workbench: **Yes**
- 5.3 Tool storage: **Rolling/Lockable**
- 5.4 Stationary power tools: **Grinder**
- 5.5 Air: **Yes**
- 5.6 Water: **Yes**
- 5.7 Location: **Off apparatus floor**
- 5.8 Size: **15 x 15** ; or **225** sq ft

6 DeCon/Laundry

- 6.1 Sink(s): **Yes** ; Foot Pedal: **Yes**
- 6.2 Gear washer/extractor: **Yes**
- 6.3 Gear dryer: **Yes**
- 6.4 Clothes washer & dryer: **Yes**
- 6.5 Ventilated gear racks: **Yes**
- 6.6 Drench shower: **No**; Where: _____
- 6.7 Backboard/Etc. cleaning: **No**
- 6.8 Holding tank: **Yes**
- 6.9 Size: _____ x _____ ; or _____ sq ft
- 6.10 Adjacencies: _____
- 6.11 Special needs: **Red Bag Container**
- 6.12 Comments/Adjacencies: _____

7 Air Room (SCBA)

- 7.1 Location: **Off apparatus floor**
- 7.2 “Public” access: **No**
- 7.3 External feed lines: **Yes**
- 7.4 Sinks: **Utility**
- 7.5 Air compressor: **Eagle Air**
- 7.6 Filling station: **Eagle Air**
- 7.7 SCBA storage: **Yes**
- 7.8 SCBA repair: **Yes**
- 7.9 Air Bottles – Size & Quantity: **Up to 20**
- 7.10 Sound attenuation panels: **Yes**
- 7.11 Size: _____ x _____ ; or _____ sq ft
- 7.12 Comments: _____

8 Hose Storage

- 8.1 A room, or on the floor: **In room ??**
- 8.2 Hose racks: _____ ; # _____ ; Size: _____
- 8.3 Hose drying: **Mechanical**
- 8.4 Location: **Off Bay**
- 8.5 Size: _____ x _____ ; or _____ sq ft
- 8.6 Comments: _____

9 Apparatus Floor Rest Rooms

- 9.1 Quantity: **1unisex**
- 9.2 Fixture: **Sink, toilet & urinal**
- 9.3 Showers: **No**
- 9.4 Lockers: **No**
- 9.5 Other: _____
- 9.6 Comments: **Easy to clean (floor drain)**
- 9.7 Adjacencies: _____

10 Radio Room

- 10.1 Location: **Near Bay**
- 10.2 View control: **Yes**
- 10.3 Seating for how many: **6**
- 10.4 Door operator switches: **Yes**
- 10.5 Traffic device control: **If Applicable**
- 10.6 Light switches for app bay: **Yes** ; Outside: **Yes**
- 10.7 Internal paging system: **Yes**
- 10.8 Siren trigger: **Yes** ; Shutoff: **Yes** ; Siren location: **Only if we need one for disaster**
- 10.9 Computer equipment: **CAD – Desktop, printers, routers**
- Other equipment: **Fax, copier, shelving**
- 10.10 File cabinets: **Yes** ; Describe: _____
- 10.11 Wall mounted items: **File holders, shelves**
- 10.12 Rechargeable items (flashlights, plectrons): **Yes**
- 10.13 Lockable storage: **Yes**
- 10.14 Assumed minimum size: **10 x 10** ; or **100** sq ft
- 10.15 Adjacencies: _____

ADMINISTRATION

11 Conference Room

- 11.1 Uses:
 - 11.1.1 **Meetings**
- 11.2 Seat how many: **20** at table; **20** at wall
- 11.3 Is there a workstation with a computer to be shared by all users: **No**
- 11.4 Size: _____ x _____ ; or _____ sq ft
- 11.5 Comments: **Internet/Computer Capabilities**
- 11.6 Adjacencies: _____

12 Chief's Office

- 12.1 Seat how many: **6**
- 12.2 Is there a workstation with a computer: **Yes**
- 12.3 Size: **20 x 20** ; or **400** sq ft
- 12.4 Comments: _____
- 12.5 Adjacencies: _____

13 Active Officers Office

- 13.1 Seat how many: **6**
- 13.2 Is there a workstation with a computer: **Yes**
- 13.3 Size: **12 x 12** ; or **144** sq ft
- 13.4 Comments: _____
- 13.5 Adjacencies: _____

14 Dept. Secretary Office

- 14.1 Seat how many: **4**
- 14.2 Is there a workstation with a computer: **Yes**
- 14.3 Size: **15 x 20** ; or **300** sq ft
- 14.4 Comments: **Room for file storage**
- 14.5 Adjacencies: _____

15 Tour Commander/Career Officer Office

- 15.1 Seat how many: _____
- 15.2 Is there a workstation with a computer: **Yes**
- 15.3 Size: _____ x _____ ; or _____ sq ft
- 15.4 Comments: **Room for bed & 4 lockers**
- 15.5 Adjacencies: **Bunk room/Radio room**

16 Fire Prevention Office

- 16.1 Seat how many: **2**
- 16.2 Is there a workstation with a computer: **Yes**
- 16.3 Size: **12 x 12** ; or **144** sq ft
- 16.4 Comments: **Room for storage of FP supplies**
- 16.5 Adjacencies: _____

17 Union Office

- 17.1 Seat how many: **4**
- 17.2 Is there a workstation with a computer: **Yes**
- 17.3 Size: **10 x 10** or **100** sq ft
- 17.4 Comments: _____
- 17.5 Adjacencies: _____

18 Training Division Office

- 18.1 Seat how many: **2**
- 18.2 Is there a workstation with a computer: **Yes**
- 18.3 Size: **10 x 15** or **150** sq ft
- 18.4 Comments: **Training officers & supplies**
- 18.5 Adjacencies: _____

FIREFIGHTERS

19 Exercise

- 19.1 Size: **25 x 20** ; or **500** sq ft
- 19.2 Equipment:
 - 19.2.1 Cardio: **Yes**
 - 19.2.2 Weights: **Yes**
 - 19.2.3 Weight Machines: **Yes**
- 19.3 Comments: **Weights are very important**
- 19.4 Adjacencies: _____

BUNKING

20 Career/Bed Rooms

- 20.1 Number of rooms: _____
- 20.2 Beds per room: **Room for 10**
- 20.3 Storage: **No**
- 20.4 Desks: **No**
- 20.5 Size: _____ x _____ ; or _____ sq ft
- 20.6 Comments: **Privacy walls between beds, carpet**
- 20.7 Adjacencies: **Career Area**

21 Bunker's Bathrooms

- 21.1 Quantity: **M/F**
- 21.2 Details: **2 toilets, 2 urinals, 4 showers 2 sinks**
- 21.3 Size: _____ x _____ ; or _____ sq ft
- 21.4 Comments: _____
- 21.5 Adjacencies: **Locker Room**

22 Bunker's Locker Room

- 22.1 Details: **M/F up to 30 full sized**
- 22.2 Size: _____ x _____ ; or _____ sq ft
- 22.3 Comments: _____
- 22.4 Adjacencies: **Career Area**

23 Bunker's Kitchen

- 23.1 Equipment: **Commercial refrigerator, stove, sink, dishwasher & microwave**
- 23.2 Size: _____ x _____ ; or _____ sq ft
- 23.3 Comments: **Room for large table for eating**
- 23.4 Adjacencies: **Career Area**

24 Bunker's Living Room

- 24.1 Seat how many: _____
- 24.2 Size: **20 x 20** ; or **400** sq ft
- 24.3 Comments: _____
- 24.4 Adjacencies: **Career area**

25 Bunker's Study Room

- 25.1 Quantity: **One**
- 25.2 Size: **8 x 10** ; or **80** sq ft
- 25.3 Comments: **4 chairs & table, carpet**
- 25.4 Adjacencies: **Career Area**

PUBLIC SPACES

26 Public Entry Area

- 26.1 Air lock: **Yes**
- 26.2 Trophy case: **No** ; Size: _____
- 26.3 Bulletin board: **Yes** ; Size: _____
- 26.4 Plaque: _____
- 26.5 Size: **8 x 9** ; or **72** sq ft
- 26.6 Comments: _____
- 26.7 Adjacencies: _____

27 Training Room

- 27.1 Public access: **Yes**
- 27.2 Uses:
 - 27.2.1 Department meetings: **No**
 - 27.2.2 Training: **Only**
 - 27.2.3 Fundraising dinners: **No**
 - 27.2.4 Political/Municipal: **Yes**
 - 27.2.5 Boy Scouts or other similar groups: **No**
 - 27.2.6 Rental: **No**
- 27.3 Purpose: **Training Only**
 - 27.3.1 Avg. people: **50**
 - 27.3.2 Frequency: **Often**
 - 27.3.3 Seating: **Tables & chairs**
 - 27.3.4 Special needs: **Power point**
- 27.4 Trophy case: **No**; Size _____ ; location _____
- 27.5 Whiteboard: **Yes**; Size: **Whole wall** ; location _____
- 27.6 Bulletin board: _____ ; Size _____ ; location _____
- 27.7 TV: **Yes** ; Where stored: _____
- 27.8 Size: _____ x _____ ; or _____ sq ft
- 27.9 Comments: _____

27.10 Adjacencies: _____

MISCELLANEOUS SPACES

28 House Keeping Storage

28.1 Location: _____

28.2 Size: **10 x 5** ; or **50** sq ft

28.3 Comments: _____

29 Janitors Closet

29.1 Size: **3 x 4** ; or **12** sq ft

29.2 Comments: **As needed - & splash walls**

30 Mechanical, Electrical, Plumbing, HVAC, Sprinkler, Alarm, etc.

30.1 Bay lighting type: **Quiet, bright white light**

30.2 Site lighting type: **Quiet, bright white light**

30.3 Generator: **Yes**; Describe: **To power whole building**

30.4 Security: **Yes**; Describe: **Locked doors**

30.5 Keyless entry: **Yes** ; Describe: **ID card or key fob**

30.6 Alarm: **No** ; Describe: _____

30.7 Siren: **Maybe** ; Mounting location: _____

31 Miscellaneous Issues

Comments: **All security doors self closing upon alarm w/ magnets**

MITCHELL ASSOCIATES ARCHITECTS

• EMERGENCY SERVICES FACILITIES •

Fire Station Program Document

Project Name: Beacon Fire Department

Program Meeting Date: **11/10/05**

Printout Date: March 12, 2015

Filename: Fire Program Full.doc

A General Information

- A1. Number of Members; total: **85** ; active: **85** ; female: **2** ; male: **83**
- A2. Typical Turnout: **25**
- A3. On-Call: **0**
- A4. Type of entity:
- A4.1. Municipality: Type: **City**
- 501C.3: Describe Business & Social Structure:
- A5. Number of Companies or Departments involved: **3**
- A5.1. Names: **Beacon Engine #1**
- A5.2. **Tompkins Hose Company #1**
- A5.3. **W.H. Mase Hook and Ladder Co #1**
- A6. Date of Company monthly meeting: **first Tuesday**; Date of Dept monthly meeting:
- A7. Location: **All three stations**

B Functional Activities in Building

- B1. Types of response: All Three Stations
- B1.1. Fire: **X**
- B1.2. EMS: **X**
- B1.3. Heavy Rescue: **X**
- B1.4. HAZ MAT: **X**
- B1.5. Water Rescue: **X**
- B1.6. Ambulance ?; Transporting ?
- B2. Training activities in building:
- B2.1. **Yes, class and hands on**
- B2.2. Training activities on site:
- B2.3. **If Possible**
- B2.4. Other uses of apparatus bay:
- B2.5. Social events: **no**
- B2.6. Craft fairs: **no**
- B2.7. Sleeping Over: **no**
- B3. Standing by :
- B3.1. Daily: **Yes**

- B3.2. Emergency: **Yes**
- B3.3. Outsiders: **Yes**
- B4. Emergency Shelter: **Not as primary possibly as secondary**
 - B4.1. Who stays in building: **Paid staff, 1 per station**
 - B4.2. Special needs: **Bunk room, bath, storage space**
- B5. Firematic Business:
 - B5.1. Describe: ? **Yes**
- B6. Social Business:
 - B6.1. Describe: ? **Yes, Fire Company Activities**
- B7. Other:
 - B7.1. Describe:
- B8. Meetings:
 - B8.1. Type: **Each Company Meetings** ; size: **30-40 people** ; frequency: **Monthly**
 - B8.2. Type: **Committees** ; size: **10-20 people** ; frequency: **Varies**
- B9. Social Life:
 - B9.1. Daily recreation – describe: **TV, Pool Table**
 - B9.2. Periodic recreation – describe: **Various parties**
 - B9.3. Outdoor recreation – describe: **No**
- B10. Misc. Activities
 - B10.1. **Blood drives**
 - B10.2. **Community meeting room**
- B11. Access control:
 - B11.1. Electronic access: **Yes**
 - B11.2. Vendor's access to drop off material ?; Where:
 - B11.3. Will other fire companies park their apparatus in the bay under certain circumstances: **Yes**
 - .11.3.1. Describe: **under mutual aid for coverage to City of Beacon**
 - .11.3.2. Is their access to the building limited: **Yes**
 - .11.3.3. Describe: **Access to boys and communication room**

C Site

- C1. Who owns the road in front: **City**
- C2. Number of primary responder parking spaces needed : **10 per station**
- C3. Number of other parking spaces needed: **50 per station**
- C4. Recreation requirements (Pavilion, grill, patio, etc.): **yes all stations**
- C5. Utilities at site:
 - C5.1. Water: **X** ; Size: Sewer: **X** ; Size: _____
 - C5.2. Storm: **X** ; Size:
 - C5.3. Electric: **X** ; 3 phase:
 - C5.4. Gas: **X** ; Size:

- C5.5. Phone: **X**
- C5.6. Cable: **X**
- C6. Electric company : **Central Hudson**
 - C6.1. Contact:
 - C6.2. Follow-up assigned to:
- C7. Gas company: **Central Hudson**
 - C7.1. Contact:
 - C7.2. Follow-up assigned to:
- C8. Telephone company: **Verizon**
 - C8.1. Contact:
 - C8.2. Follow-up assigned to:
- C9. Cable company: **Cablevision**
 - C9.1. Contact:
- C10. Alarm/Security company: **None**
 - C10.1. Contact:
 - C10.2. Follow-up assigned to:

APPARATUS

1 Apparatus Bays

- 1.1 Number of vehicles: **5** ; # of bays: **8**
 - 1.1.1 Name: **Station 2** ; type: **3 bays** ; length : ; weight
 - 1.1.2 Name: **Station 1** ; type: **1 bay** ; length: ; weight:
 - 1.1.3 Name: **Headquarters**; type: **1 bay** ; length: ; weight:
 - 1.1.4 Name: ; type: ; length: ; weight:
 - 1.1.5 Name: ; type: ; length: ; weight:
 - 1.1.6 Name: ; type: ; length: ; weight:
 - 1.1.7 Name: ; type: ; length: ; weight: _____
 - 1.1.8 Name: ; type: ; length: ; weight: _____
- 1.2 Type of bays:
 - 1.2.1 Drive-through: **X** ; quantity: **2**
 - 1.2.2 Double deep ; quantity:
 - 1.2.3 Single deep: **X** ; quantity: **6**
- 1.3 Wash bay: **No**; Where: **Need more bay space (3 more)**
- 1.4 Plan for future expansion of bays: **Yes # 3**

- 1.5 Overhead doors:
 - 1.5.1 Front:
 - 1.5.1.1 Number: **5**
 - 1.5.1.2 Width: **14** ; Height: **14**
 - 1.5.1.3 Windows: **Yes**
 - 1.5.2 Rear:
 - 1.5.2.1 Number: **2**
 - 1.5.2.2 Width: **14** ; Height: **14**
 - 1.5.2.3 Windows: **Yes**
 - 1.6 Pedestrian doors:
 - 1.6.1 Number: **1**
 - 1.6.2 Locations:
 - 1.7 Number of gear lockers: now: **none** ; later: **50**
 - 1.7.1 Location: **Apparatus floor or locker room**
 - 1.8 Signage requirements:
 - 1.9 Trench drains: Yes ; Layout: **To be determined**
 - 1.10 Wall mounted hose reels: **Don't have** ; Quantity: **Need 3**
 - 1.11 Fume exhaust: **Yes**; Type: **To be determined** ; Later:
 - 1.12 Truck fills:
 - 1.12.1 Overhead: **Yes** ; Quantity: **All**
 - 1.12.2 Wall hydrant: **Yes** ; Quantity **2**
 - 1.12.3 Outdoor hydrant: **Yes** ; Quantity: **1 at each station**
 - 1.13 Overhead electrical drops: **Yes** ; Quantity: **All**
 - 1.14 Overhead airdrops: **Yes** ; Quantity: **All**
 - 1.15 Compressed air for tools: **Yes**
 - 1.16 Sinks: **Yes** ; Where: **Each Side of the building**
 - 1.17 Drench shower: **No**; Where: (Note Decon Laundry!)
 - 1.18 Lockable storage cabinets: **Yes** ; size:
 - 1.19 Foam: **Yes**
 - 1.19.1 Details: **Need more storage** at all stations
- Other equipment:
- 1.20 Epoxy flooring: **Yes**
 - 1.21 Wall construction type: **brick and block**
 - 1.22 Assumed size:
- Adjacencies:

FIREMATIC SUPPORT

1A Mezzanine

1A.1 Size: **20 x 100** ; or **2000** sq ft

2 Storage Room #1

- 2.1 Use: **Gear lockers**
- 2.2 Location: **Off apparatus floor**
- 2.3 Security: **No**
- 2.4 Size: **25 x 25** ; or **625** sq ft
- 2.5 Adjacencies:

3 Storage Room #2

- 3.1 Use: **Need quarter master**
- 3.2 Location: **Off apparatus floor**
- 3.3 Security: **Yes**
- 3.4 Size: **13 x 15** ; or **225** sq ft
- 3.5 Adjacencies:

4 EMS Storage Room

- 4.1 Use: **Yes, equipment and drugs**
- 4.2 Location: **Off apparatus floor**
- 4.3 Security: **Yes**
- 4.4 Size: **18 x 20** ; or **360** sq ft
- 4.5 Adjacencies:

5 Engineers Work Room

- 5.1 Mechanic: **Yes**; Type of work: **Light maintenance building and rigs**
- 5.2 Workbench: **Yes**
- 5.3 **Tool storage**: **Yes**
- 5.4 Stationary power tools: **Yes**
- 5.5 Air: **Yes**
- 5.6 **Water**: **Yes**
- 5.7 Location: **Off apparatus floor**
- 5.8 Size: **12 x 15** ; or **225** sq ft

6 DeCon/Laundry

- 6.1 Sink(s): **Yes** ; Foot Pedal: **Yes**
- 6.2 Gear washer/extractor: **Yes**
- 6.3 Gear dryer: **Yes**
- 6.4 Clothes washer & dryer: **Yes**
- 6.5 Ventilated gear racks: **Yes**
- 6.6 Drench shower: **Yes** ; Where:
- 6.7 Backboard/Etc. cleaning: **Yes**
- 6.8 Holding tank: **Yes**
- 6.9 Size: **12 x 12** ; or **144** sq ft
- 6.10 Adjacencies:
- 6.11 Special needs:
- 6.12 Comments/Adjacencies:

7 Hazardous Waste Disposal

- 7.1 Location: **Yes, off apparatus floor**
- 7.2 Size: **10 x 12** ; or **120** sq ft
- 7.3 Comments: **Near decon room**

8 Air Room (SCBA)

- 8.1 Location: **Yes, off apparatus floor**
- 8.2 “Public” access: **No**
- 8.3 External feed lines:
- 8.4 Sinks: **Yes**
- 8.5 Air compressor: **Yes**
- 8.6 Filling station: **Yes**
- 8.7 SCBA storage: **Yes**
- 8.8 SCBA repair: **Yes**
- 8.9 Air Bottles – Size & Quantity: **Yes, 12**
- 8.10 Sound attenuation panels:
- 8.11 Size: **15 x 20** ; or **300** sq ft
- 8.12 Comments:

9 Oxygen Storage Room

- 9.1 Size: **10 x 12**; or **120** sq ft
- 9.2 Adjacencies:
- 9.3 Comments: location to be determined

10 Hose Storage

- 10.1 A room, or on the floor: **Need room**
- 10.2 Hose racks: **3** ; # per ; Size: Station
- 10.3 Hose drying: **Yes**
- 10.4 Location: apparatus
- 10.5 Size: **15 x 20**; or **300** sq ft
- 10.6 Comments:

11 Apparatus Floor Rest Rooms

- 11.1 Quantity: **1 each**
- 11.2 Fixture: **Sink, toilet & urinal?**
- 11.3 Showers: **no**
- 11.4 Lockers: **no**
- 11.5 Comments: **12x15** or **180** sq. ft.

12 Radio Room

- 12.1 Location: **Next to apparatus floor**
- 12.2 View control: **Yes**
- 12.3 Seating for how many: **5**
- 12.4 Door operator switches: **Need all bays**
- 12.5 Traffic device control: **Yes**
- 12.6 Light switches for app bay: **Yes** ; Outside: **Yes**
- 12.7 Internal paging system: **Yes**
- 12.8 Siren trigger: **Yes** ; Shutoff: **Yes** ; Siren location: **Roof**
- 12.9 Computer equipment: **Yes**
- 12.10 Other equipment: **Radios**

- 12.11 File cabinets: **Yes** ; Describe:
- 12.12 Wall mounted items: **Yes**
- 12.13 Rechargeable items (flashlights, plectrons): **Yes**
- 12.14 Lockable storage: **Yes**
- 12.15 Assumed minimum size: **12 x 15** ; or sq ft
- 12.16 Adjacencies:

ADMINISTRATION

13 Firefighter's Lobby

- 13.1 Size: x ; or sq ft
- 13.2 Comments:
- 13.3 Adjacencies:

14 Conference Room

- 14.1 Uses:
 - 14.1.1 Meetings
- 14.2 Seat how many: **10 at table; 10 at wall**
- 14.3 Is there a workstation with a computer to be shared by all users:
- 14.4 Size: **12 x 30** ; or **360** sq ft
- 14.5 Comments:
- 14.6 Adjacencies:

15 Office #1 ***Quantity???

- 15.1 Name of Occupant: **Need active officers, Capt. and Lt. at all 3 stations**
- 15.2 Seat how many: **4 per office**
- 15.3 Is there a workstation with a computer: **Yes**
- 15.4 Size: **10 x 12** ; or 120 sq ft
- 15.5 Comments:
- 15.6 Adjacencies:

16 Office #2

- 16.1 Name of Occupant: **Need active officers**
- 16.2 Seat how many: **4**
- 16.3 Is there a workstation with a computer: **Yes**
- 16.4 Size : 12 x 12 ; or **144** sq ft
- 16.5 Comments:
- 16.6 Adjacencies:

17 Office #3

- 17.1 Name of Occupant: Active Officers
- 17.2 Seat how many: **4**
- 17.3 Is there a workstation with a computer: **Yes**
- 17.4 Size: x ; or sq ft
- 17.5 Comments:

17.6 Adjacencies:

18 Office #4

18.1 Name of Occupant: **Chiefs Office**

18.2 Seat how many: **4**

18.3 Is there a workstation with a computer: **Yes**

18.4 Size: x ; or sq ft

18.5 Comments: **with access to conference room, space for secretary**

18.6 Adjacencies:

19 Office #5

19.1 Name of Occupant: **2 Assistant Chiefs – shared office**

19.2 Seat how many: **4**

19.3 Is there a workstation with a computer: **Yes**

19.4 Size: x or sq ft

19.5 Comments:

19.6 Adjacencies:

20 Office #6

20.1 Name of Occupant: **Fire prevention and training**

20.2 Seat how many: **4**

20.3 **Is there a workstation with a computer:** Yes

20.4 Size x ; or sq ft

20.5 Comments:

20.6 Adjacencies:

21 Office #7

21.1 Name of Occupant: **Social Office, Each company**

21.2 Seat how many: **4**

21.3 Is there a workstation with a computer: **Yes**

22 Records Storage

22.1 Location: Yes, to be determined

22.2 Size: x ; or sq ft

22.3 Comments:

22.4 Adjacencies :

FIREFIGHTERS

23 Firefighters' Rest Rooms

- 23.1 Showers: **X**
- 23.2 Lockers: **X**
- 23.3 Other
- 23.4 Comments: Need all stations
- 23.5 Adjacencies:

24 Firefighter's Recreation Room

- 24.1 Uses:
 - 24.1.1 **Similar to Hudson Fire Department**
- 24.2 Number of chair seating: **25**
- 24.3 Couch: **2** ; seats how many: **27**
- 24.4 TV: **X** ; Size: **50"**
- 24.5 Card table: **Fold up** ; how many: **3**
- 24.6 Coffee maker: **Yes**
- 24.7 Microwave: **Yes**
- 24.8 Popcorn maker: **Yes**
- 24.9 Bulletin board: **Yes** ; Size:
- 24.10 Bar: **Yes**
 - 24.10.1 Length: **20'** ; seats: **12**
 - 24.10.2 Beer cooler: **1** ; Size: **2 kegs**
 - 24.10.3 Sink: **Yes** ; Size: **3 sinks**
 - 24.10.4 Cold drinks: **Yes** ; Handled how: **Fountain**
 - 24.10.5 Ice machine: **Yes** ; Size: **300 lb**
- 24.11 Size: **30 x 30** ; or **900** sq ft
- 24.12 Adjacencies:
- 24.13 Comments

25 Day Room

- 25.1 Kitchen/Kitchenette: **Yes**
 - 25.1.1 Size: x ;or sq ft
- 25.2 Dining/Eating:
 - 25.2.1 Size x ; or sq ft
- 25.3 Living/T-V: **Yes**
- 25.4 Size: **20 x 30**

- 25.5 Total Size: x ; or sq ft
- 25.6 Comments:
- 25.7 Adjacencies

26 Explorers

- 26.1 Size: x ; or **270** sq ft
- 26.2 Comments: **TV, computer**

27 Exercise

- 27.1 Size: **20 x 30** ; or **600** sq ft
- 27.2 Equipment:
 - 27.2.1 Cardio: **Yes**
 - 27.2.2 Weights: **Yes**
 - 27.2.3 **Weight Machines:** Yes
- 27.3 Comments:
- 27.4 Adjacencies:

28 Lockers/Bath

- 28.1 Showers: **4**
- 28.2 **Lockers:** 50
- 28.3 Other:
- 28.4 Size: **20 x 20** ; or **400** sq ft
- 28.5 Comments:
- 28.6 Adjacencies:

BUNKING

29 Bunkers/Bed Rooms

- 29.1 Number of rooms: **4**
- 29.2 Beds per room: **2-4**
- 29.3 Storage: _____Lockers
- 29.4 Desks: No
- 29.5 Size: x ; or sq ft
- 29.6 Comments: **Space for lockers**
- 29.7 Adjacencies:

30 Bunker's Bathrooms

- 30.1 Quantity: **2**
- 30.2 Details: **Male and Female**
- 30.3 Size: x ; or sq ft
- 30.4 Comments:
- 30.5 Adjacencies:

31 Bunker's Locker Room

- 31.1 Details: **No**
- 31.2 Size: x ; or sq ft
- 31.3 Comments:
- 31.4 Adjacencies:

32 Bunker's Kitchen

- 32.1 Equipment: **No**
- 32.2 Size x ; or sq ft
- 32.3 Comments:
- 32.4 Adjacencies

33 Bunker's Dining Room

- 33.1 Seat how many: **No** ; size:
- 33.2 Size: x ; or sq ft
- 33.3 Comments:
- 33.4 Adjacencies:

34 Bunker's Living Room

- 34.1 Seat how many: **No**
- 34.2 Size: x ; or sq ft
- 34.3 Comments:
- 34.4 Adjacencies:

35 Bunker's Study Room

- 35.1 Quantity: **No**
- 35.2 Size: x ; or sq ft
- 35.3 Comments:
- 35.4 Adjacencies:

36 Bunker's Bulk Storage

- 36.1 Size: **12 x 12**; or **144** sq ft
- 36.2 Comments :

PUBLIC SPACES

37 Public Entry Area

- 37.1 Air lock: **Yes**
- 37.2 Trophy case: **Yes** ; Size: **10' x 15'**
- 37.3 Bulletin board: **Yes**; Size: **6' x 8'**
- 37.4 Plaque:
- 37.5 Size: **x** ; or sq ft
- 37.6 Comments:
- 37.7 Adjacencies:

38 Coat Room

- 38.1 Number of coats:
- 38.2 Size: **12 x 15** ; or **180** sq ft
- 38.3 Comments :
- 38.4 Adjacencies:

39 Museum

- 39.1 Uses :
- 39.2 Size: **x** ; or sq ft
- 39.3 Comments:
- 39.4 Adjacencies:

40 Meeting/Training Room

- 40.1 Public access: **Yes, Each Company**
- 40.2 Uses:
 - 40.2.1 Department meetings: **20' x 30'**
 - 40.2.2 Training: **20' x 30'**
 - 40.2.3 Fundraising dinners: **Yes**
 - 40.2.4 Political/Municipal: **Yes**
 - 40.2.5 Boy Scouts or other similar groups: **Yes**
 - 40.2.6 Rental: ; To whom:
 - 40.2.7 Other :

- 40.3 Purpose:
 - 40.3.1 Avg. people: **30 per room**
 - 40.3.2 Frequency: **4 per month**
 - 40.3.3 Seating: **30 per room**
 - 40.3.4 Special needs: **Overhead projection with a drop screen**
- 40.4 Purpose: Computer
 - 40.4.1 Avg. people:
 - 40.4.2 Frequency:
 - 40.4.3 Seating: Special needs:
- 40.5 Number of tables & size: now **5** ; future **15**
- 40.6 Trophy case: ; Size ; location
- 40.7 Whiteboard: ; Size ; location
- 40.8 Bulletin board: ; Size ; location
- 40.9 TV: ; Where stored:
- 40.10 Size: x or sq ft
- 40.11 Comments:
- 40.12 Adjacencies:

41 Meeting/Training Room Storage #1

- 41.1 Table racks: ; Quantity: **15**
- 41.2 Chair racks ; Quantity: **60**
- 41.3 Size: **20 x 30**; or **600** sq ft
- 41.4 Comments:

42 Meeting/Training Room Storage #2

- 42.1 Size: **20 x 30** ; or **600** sq ft
- 42.2 Comments: **Av Storage**

43 Kitchen

- 43.1 Uses: **Common Use**
- 43.2 Equipment types and size:
 - Refrigerator: **Yes**
 - Sink(s) Pot: **Yes** Hand: **Yes**; Scrub: **Yes**; Disposal: **Yes**
 - Dishwasher: **Yes** ; Type:
 - Stove ; Type:
 - Oven: ; Type:
 - Cook top:
 - Hood:
 - Other equipment:
 - 43.3 Center Island: **Yes**

- 43.4 Shuttered opening: **Yes** ; Size: **2' x 5'**
- 43.5 Door to exterior: **Yes**
- 43.6 Dish storage: **Yes**
- 43.7 Pantry/food storage: **Yes**
- 43.8 Locked storage: **Yes**
- 43.9 Automatic shut off of heat generating equip @ fire call w/ manual reset: **Yes**
- 43.10 Size: **20 x 20** ; or **400** sq ft
- 43.11 Comments:

44 Pantry

- 44.1 Size: **10 x 10** ; or **100** sq ft
- 44.2 Comments:

45 Public Rest Rooms

- 45.1 Handicapped accessible: **Yes, Male and Female**
- 45.2 Comments:

MISCELLANEOUS SPACES

46 House Keeping Storage

- 46.1 Location:
- 46.2 Size: **10 x 10** ; or **100** sq ft
- 46.3 Comments:

47 Janitors Closet

- 47.1 Size: **5 x 10** ; or **50** sq ft
- 47.2 Comments:

48 Mechanical, Electrical, Plumbing, HVAC, Sprinkler, Alarm, etc.

- 48.1 Fuel type at site: **Gas**
- 48.2 Heating type in apparatus bay: **Gas**
- 48.3 Heating type elsewhere: **Gas**
- 48.4 Building to be sprinklered: **Yes**
 - 48.4.1 Adequate water pressure: **Yes**
 - 48.4.2 Storage tank: **No**
 - 48.4.3 Hose bibs for exterior: **Yes**

- 48.5 Electrical:
 - 48.5.1 Bay lighting type: **To Be Determined**
 - 48.5.2 Site lighting type: **To Be Determined**
 - 48.5.3 Other lighting considerations: **To Be Determined**
 - 48.5.4 Generator: **Yes**; Describe:
 - 48.5.5 Location of generator: **Outside**
- 48.6 Circuits on generator: **Yes**
- 48.7 Security ; Describe:
- 48.8 Keyless entry: **Yes** ; Describe:
- 48.9 Alarm: **Yes** ; Describe **Roof**
- 48.10 Siren: ; Mounting location:
- 48.11 Electrical requirements:
- 48.12 Comments:
- 48.13 Hazardous waste handling:
- 48.14 Size: **10 x 10**; or **100** sq ft
- 48.15 Comments:

49 Miscellaneous Issues

Comments: **HVAC everything but apparatus floor**

Appendix C - Building Area Spreadsheets

Beacon Fire Department - Summary of Program Sizes

	One Company w/ Departmental Spaces	Two Companies w/ Departmental Spaces	Three Companies w/ Departmental Spaces
One Story			
Building Size	24,500	27,174	34,090
Apparatus Bay	5,709	5,709	9,135
Firematic Support & Mezzanine	3,339	3,765	4,790
Office & Public Area	15,452	17,701	20,165
Footprint (1)	23,300	25,974	32,890
Min Lot Size In Acres (100 cars)			1.95
Preferred Lot Size			2.45
Two Stories			
Building Size	25,870	28,544	35,460
Apparatus Bay	5,709	5,709	9,135
Firematic Support & Mezzanine	3,339	3,765	4,790
Office & Public Area	16,822	19,071	21,535
Footprint (2)	16,312	17,842	23,396
Min Lot Size In Acres (100 cars)			1.92
Preferred Lot Size			2.42
Three Stories			
Building Size	26,450	29,124	36,040
Apparatus Bay	5,709	5,709	9,135
Firematic Support & Mezzanine	3,339	3,765	4,790
Office & Public Area	17,402	19,651	22,115
Footprint (2)	14,475	15,123	20,154
Min Lot Size In Acres (100 cars)			1.76
Preferred Lot Size			2.26

- Notes:** (1) Footprint is total building size minus the mezzanine.
 (2) Refer to the detailed space usage analysis spreadsheets.
 (3) Drawing L4 depicts a one story building on a 2.9 acre "suburban" site.

Relative Change in Areas			
Two Stories vs. One	One Company	2 Companies	3 Companies
Building Size	1,370	1,370	1,370
Apparatus Bay	-	-	-
Firematic Support & Mezzanine	-	-	-
Office & Public Area	1,370	1,370	1,370
Footprint (2)	(6,988)	(8,132)	(9,494)
Min Lot Size	-	-	(0)
Preferred Lot Size	-	-	(0)
Three Stories vs. Two			
Building Size	580	580	580
Apparatus Bay	-	-	-
Firematic Support & Mezzanine	-	-	-
Office & Public Area	580	580	580
Footprint (2)	(1,837)	(2,718)	(3,242)
Min Lot Size	-	-	(0)
Preferred Lot Size	-	-	(0)

Mase Hook Ladder - Existing Space/Usage

	Room Name	Bsmt	1st Floor	2nd Floor	3rd Floor	Total
Apparatus Bay						
	Apparatus Bay		915			915
	Subtotal - Apparatus		915			915
Firematic Support						
	Men	0	84	0	0	84
	Apparatus Storage	0	61	0	0	61
	Radio	0	95	0	0	95
	Subtotal - Firematic Support	0	240	0	0	240
Administration						
	Uniform Storage	0	0	45	0	45
	Subtotal - Administration	0	0	45	0	45
Volunteer Firefighters						
	Recreation	0	0	852	0	852
	Lounge	0	0	423	0	423
	Men	0	0	60	60	120
	Women	0	0	42	42	84
	Banquet	0	0	0	1290	1,290
	Kitchen	0	0	0	168	168
	Table Storage	0	0	0	30	30
	Subtotal - Volunteer Firefighters	0	0	1,377	1,590	2,967
Paid Personnel						
	Career Firefighter	0	115	0	0	115
	Subtotal - Paid Personnel	0	115	0	0	115
Public Spaces						
	Vestibule	80	133	0	0	213
	Subtotal - Public Spaces	80	133	0	0	213
Miscellaneous Space						
	Storage	172	0	0	0	172
	Equipment	189	0	0	0	189
	Janitor	0	16	5	5	26
	Mechanical/Electrical	199	0	0	0	199
	Subtotal - Miscellaneous Spaces	560	16	5	5	586
Vertical Circulation						
	Stairwell (area per floor)	69	125	125	125	444
	Subtotal - Vertical Circulation	69	125	125	125	444
Area Subtotals						
	Bay	0	915	0	0	915
	Firematic Support	0	240	0	0	240
	Office & Living	709	389	1,552	1,720	4,370
Walls & Circulation						
	Apparatus Bay Walls @ 12%	0	110	0	0	110
	Firematic Support Walls @ 15%	0	36	0	0	36
	Firematic Support Circulation @ 5%	0	12	0	0	12
	Office Area Walls @ 13%	92	51	202	224	568
	Office Area Circulation @ 18%	128	70	279	310	787
	Subtotal - Miscellaneous	220	278	481	533	1,513
	Total >>	929	1,822	2,033	2,253	7,038
	Footprint>>					2,015

Tompkins Hose - Existing Space/Usage

		Lower	1st Floor	Total
Apparatus Bay				
Apparatus Bay			2,175	2,175
Subtotal - Apparatus			2,175	2,175
Firematic Support				
Communications		0	96	96
Subtotal - Firematic Support		0	96	96
Administration				
Trustees		0	266	266
Office		0	120	120
Office		0	130	130
Uniform Storage		0	266	266
Storage		0	146	146
Subtotal - Administration		0	928	928
Volunteer Firefighters				
Ready Room		0	1016	1,016
Men's Bathroom w/ Showers		0	186	186
Galley		0	47	47
Kitchen		361	0	361
Meeting		2502	0	2,502
Subtotal - Volunteer Firefighters		2,863	1,249	4,112
Paid Personnel				
Career Firefighter		0	225	225
Career Firefighter's Bathroom		0	39	39
Subtotal - Paid Personnel		0	264	264
Public Spaces				
Lobby		184	87	271
Vestibule		0	63	63
Coats		102	0	102
???		20	0	20
Women		114	0	114
Men		167	0	167
Subtotal - Public Spaces		587	150	737
Miscellaneous Space				
Storage		133	0	133
Equipment		133	0	133
Janitor		0	29	29
Mechanical/Electrical		248	0	248
Subtotal - Miscellaneous Spaces		514	29	543
Vertical Circulation				
Stairwell (area per floor)		134	132	266
Subtotal - Vertical Circulation		134	132	266
Area Subtotals				
Bay		0	2,175	2,175
Firematic Support		0	96	96
Office & Living		4,098	2,752	6,850
Walls & Circulation				
Apparatus Bay Walls @ 5%		0	109	109
Firematic Support Walls @ 8%		0	8	8
Firematic Support Circulation @ 5%		0	5	5
Office Area Walls @ 5%		205	138	343
Office Area Circulation @ 8%		328	220	548
Subtotal - Miscellaneous		533	479	1,012
Total >>		4,631	5,502	10,133
			Footprint>>	6,080

Beacon Fire Department - Basic Company Space/Usage Analysis

Program Item	Room Name	1st Floor Area	Mezz	2nd Floor Area	Area Both Floors
	Apparatus Bay				
1	Apparatus Bay	2,440			2,440
	Subtotal - Apparatus	2,440			2,440
	Firematic Support				
1.1	Mezzanine (60' x 20')		1,200		1,200
2	Firematic Storage Room	100			100
3	Officer's Supply Room	64			64
4	EMS Storage Room	64			64
5	Engineer's Work Room	320			320
6	Decon/Laundry	219			219
7	Hose Storage	58			58
8	Hose Dryer Recess	25			25
9	Paid Staff Bunker Gear Lockers	73			73
10	Janitors Closet	72			72
11	Firefighter's Uni-Sex ADA Rest Room	75			75
12	Radio Room	147			147
	Subtotal - Firematic Support	1,217			1,217
	Administration				
13	Conference Room	0		377	377
14	Conference Room Table/Chair Storage	0		80	80
15	Active Officers	0		233	233
16	Civil Officers	0		233	233
17	Records Storage	0		73	73
18	Uniform Storage	160		0	160
	Subtotal - Administration	160		996	1,156
	Volunteer Firefighters				
19	Firefighter's Recreation Room	749		0	749
20	Day Room	588		0	588
21	Junior Firefighter's Room	280		0	280
22	Firefighter's Rest Rooms w/ Shower	396		0	396
	Subtotal - Volunteer Firefighters	2,013		0	2,013
	Paid Personnel				
23	Paid Personnel Bunk Room (2 @ 139)	278		0	278
24	Paid Personnel Bathroom (2 @ 98)	196		0	196
25	Paid Personnel Locker Room	182		0	182
	Subtotal - Paid Personnel	656		0	656
	Public Spaces				
26	Public Entry Area	0		168	168
27	Coat Room	0		51	51
28	Museum	40		40	80
29	Meeting/Training Room	0		748	748
30	Meeting/Training Room Storage	0		100	100
31	Kitchen	0		252	252
32	Pantry	0		64	64
33	Public Rest Rooms (2 - Unisex)	0		150	150
	Subtotal - Public Spaces	40		1,573	1,613
	Miscellaneous Space				
34	Housekeeping Storage	80		0	80
35	File Server/Telephone	0		50	50
36	Generator	240		0	240
37	Mechanical/Electrical	300		60	360
	Subtotal - Miscellaneous Spaces	620		110	730
	Vertical Circulation				
38	(2) Stairwells (area per floor)	388		308	696
39	Elevator (area per floor)	58		58	116
40	Elevator Equipment Room	82		0	82
41	Elevator Foyer	80		80	160
	Subtotal - Vertical Circulation	608		446	1,054
	Area Subtotals				
	Bay	2,440			2,440
	Firematic Support	1,217			1,217
	Mezzanine		1,200		1,200
	Office & Living	4,097		3,125	7,222
	Walls & Circulation				
	Apparatus Bay Walls @ 5%	122			122
	Firematic Support Walls @ 10%	122			122
	Firematic Support Circulation @ 5%	61			61
	Office Area Walls @ 12%	492		375	867
	Office Area Circulation @ 18%	737		563	1,300
	Subtotal - Miscellaneous	1,534	0	938	2,471
	Total >>	9,288	1,200	4,063	14,550

Beacon Fire Department - Shared Departmental Functions Space/Usage Analysis

Program Item	Room Name	1st Floor Area	Mezz	2nd Floor Area	Area Both Floors
	Apparatus Bay				
1	Apparatus Bay (8 @ 16'-8" x 60' Plus sides)	8,700			8,700
	Subtotal - Apparatus	8,700			8,700
	Firematic Support				
1.1	Mezzanine (60' x 20')		1,200		1,200
2	Central EMS Storage	192			192
3	Quartermaster	225			225
4	SCBA	210			210
5	Oxygen Storage	80			80
	Subtotal - Firematic Support	707			707
	Chief/Department Admin				
6	Department Secretary/Receptionist	0		140	140
7	Chief	0		178	178
8	Department Officers	0		247	247
9	Company Chiefs	0		233	233
10	Tour Commander/Career Officer	275		0	275
11	Fire Prevention Closet	144		0	144
12	Union Office	80		0	80
13	Records Storage	0		100	100
	Subtotal - Chief/Department Admin	499		898	1,397
	Firefighters				
14	Pavilion & Outdoor Recreation	NA		0	0
15	Exercise	1387		0	1,387
16	Lockers/Bath	624		0	624
	Subtotal - Firefighters	2,011		0	2,011
	Public Spaces				
17	Public Entry Area	300		300	600
18	Coat Room	0		140	140
19	Large Group Training Room	0		2500	2,500
20	Large Group Training Room Table/ChairStorage	0		247	247
21	Large Group Training Room A/V Storage	0		60	60
22	Kitchen	0		400	400
23	Pantry	0		100	100
24	Public Rest Rooms M & F	0		413	413
	Subtotal - Public Spaces	300		4,160	4,460
	Area Subtotals				
	Bay	8,700			8,700
	Firematic Support	707			707
	Mezzanine		1,200		1,200
	Office & Living	2,810		5,058	7,868
	Walls & Circulation				
	Apparatus Bay Walls @ 5%	435			435
	Firematic Support Walls @ 10%	71			71
	Firematic Support Circulation @ 5%	35			35
	Office Area Walls @ 12%	337		607	944
	Office Area Circulation @ 18%	506		910	1,416
	Subtotal - Miscellaneous	1,384	0	1,517	2,901
	Total >>	13,601	1,200	6,575	21,376

Tompkins Hose - Minimum Addition & Small Training Room Space/Usage Analysis

Program Item	Room Name	Lower Floor Area	Upper Floor Area	Area Both Floors
	Apparatus Bay			
1	Apparatus Bay	2,175		2,175
	Subtotal - Apparatus	2,175		2,175
	Firematic Support			
1.1	Mezzanine (60' x 20')			0
2	Firematic Storage Room	0	100	100
3	Officer's Supply Room	0	64	64
4	EMS Storage Room	0	64	64
5	Engineer's Work Room	0	320	320
6	Decon/Laundry	0	219	219
7	Hose Storage	0	58	58
8	Hose Dryer Recess	0	25	25
9	Paid Staff Bunker Gear Lockers	0	73	73
10	Janitors Closet	0	72	72
11	Firefighter's Uni-Sex ADA Rest Room	0	75	75
12	Radio Room	0	147	147
	Subtotal - Firematic Support	0	1,217	1,217
	Administration			
13	Conference Room	0	377	377
14	Conference Room Table/Chair Storage	0	80	80
15	Active Officers	0	233	233
16	Civil Officers	0	233	233
17	Records Storage	73	0	73
18	Uniform Storage	160	0	160
	Subtotal - Administration	233	923	1,156
	Volunteer Firefighters			
19	Firefighter's Recreation Room	0	749	749
20	Day Room	0	588	588
21	Junior Firefighter's Room	0	280	280
22	Firefighter's Rest Rooms w/ Shower	0	396	396
	Subtotal - Volunteer Firefighters	0	2,013	2,013
	Paid Personnel			
23	Paid Personnel Bunk Room (2 @ 139)	0	278	278
24	Paid Personnel Bathroom (2 @ 98)	0	196	196
25	Paid Personnel Locker Room	0	182	182
	Subtotal - Paid Personnel	0	656	656
	Public Spaces			
26	Public Entry Area	168	0	168
27	Coat Room	51	0	51
28	Museum	40	40	80
29	Small Training Room	750	0	750
30	Small Training Room A/V Storage	50	0	50
31	Small Training Room Table Storage	100	0	100
32	Kitchen	100	0	100
33	Pantry	30	0	30
34	Public Rest Rooms (2 - Unisex)	280	0	280
	Subtotal - Public Spaces	1,569	40	1,609
	Miscellaneous Space			
35	Housekeeping Storage	80	0	80
36	File Server/Telephone	50	0	50
37	Generator	240	0	240
38	Mechanical/Electrical	300	60	360
	Subtotal - Miscellaneous Spaces	670	60	730
	Vertical Circulation			
39	(2) Stairwells (area per floor)	388	308	696
40	Elevator (area per floor)	44	44	88
41	Elevator Equipment Room	82	0	82
42	Elevator Foyer	80	80	160
	Subtotal - Vertical Circulation	594	432	1,026
	Area Subtotals			
	Bay	2,175		2,175
	Firematic Support	0	1,217	1,217
	Mezzanine			0
	Office & Living	3,066	4,124	7,190
	Walls & Circulation			
	Apparatus Bay Walls @ 5%	109		109
	Firematic Support Walls @ 10%	0	122	122
	Firematic Support Circulation @ 5%	0	61	61
	Office Area Walls @ 12%	368	495	863
	Office Area Circulation @ 18%	552	742	1,294
	Subtotal - Miscellaneous	1,029	1,420	2,448
	Total >>	6,270	6,761	13,030

Total Building Areas						
	Lower Floor Area			Upper Floor Area		
	Proposed	Existing	New	Proposed	Existing	New
Apparatus Bay				2,284		
Firematic Support				1,400		
Office & Living	3,986			5,361		
Total per Floor	3,986	4,631	(645)	9,045	5,502	3,543
Total 2 Floors	13,030	10,133	2,898			

Tompkins Hose - Minimum Addition Space/Usage Analysis - With Large Meeting Room

Program Item	Room Name	Lower Floor Area	Upper Floor Area	Area Both Floors
	Apparatus Bay			
1	Apparatus Bay	2,175		2,175
	Subtotal - Apparatus	2,175		2,175
	Firematic Support			
1.1	Mezzanine (60' x 20')			0
2	Firematic Storage Room	0	100	100
3	Officer's Supply Room	0	64	64
4	EMS Storage Room	0	64	64
5	Engineer's Work Room	0	320	320
6	Decon/Laundry	0	219	219
7	Hose Storage	0	58	58
8	Hose Dryer Recess	0	25	25
9	Paid Staff Bunker Gear Lockers	0	73	73
10	Janitors Closet	0	72	72
11	Firefighter's Uni-Sex ADA Rest Room	0	75	75
12	Radio Room	0	147	147
	Subtotal - Firematic Support	0	1,217	1,217
	Administratio			
13	Conference Room	0	377	377
14	Conference Room Table/Chair Storage	0	80	80
15	Active Officers	0	233	233
16	Civil Officers	0	233	233
17	Records Storage	0	73	73
18	Uniform Storage	0	160	160
	Subtotal - Administration	0	1,156	1,156
	Volunteer Firefighter			
19	Firefighter's Recreation Room	0	749	749
20	Day Room	0	588	588
21	Junior Firefighter's Room	0	280	280
22	Firefighter's Rest Rooms w/ Shower	0	396	396
	Subtotal - Volunteer Firefighters	0	2,013	2,013
	Paid Personnel			
23	Paid Personnel Bunk Room (2 @ 139)	0	278	278
24	Paid Personnel Bathroom (2 @ 98)	0	196	196
25	Paid Personnel Locker Room	0	182	182
	Subtotal - Paid Personnel	0	656	656
	Public Spaces			
26	Public Entry Area	168	0	168
27	Coat Room	51	0	51
28	Museum	40	40	80
29	Large Group Training Room	2500	0	2,500
30	Large Group Training Room A/V Storage	247	0	247
31	Large Group Training Room Storage	60	0	60
32	Kitchen	400	0	400
33	Pantry	100	0	100
34	Public Rest Rooms (2 - Unisex)	413	0	413
	Subtotal - Public Spaces	3,979	40	4,019
	Miscellaneous Space			
35	Housekeeping Storage	0	80	80
36	File Server/Telephone	0	50	50
37	Generator	240	0	240
38	Mechanical/Electrical	300	60	360
	Subtotal - Miscellaneous Spaces	540	190	730
	Vertical Circulation			
39	(2) Stairwells (area per floor)	388	308	696
40	Elevator (area per floor)	44	44	88
41	Elevator Equipment Room	0	82	82
42	Elevator Foyer	80	80	160
	Subtotal - Vertical Circulation	512	514	1,026
	Area Subtotals			
	Bay	2,175		2,175
	Firematic Support	0	1,217	1,217
	Mezzanine			0
	Office & Living	5,031	4,569	9,600
	Walls & Circulation			
	Apparatus Bay Walls @ 5%	109		109
	Firematic Support Walls @ 10%	0	122	122
	Firematic Support Circulation @ 5%	0	61	61
	Office Area Walls @ 12%	604	548	1,152
	Office Area Circulation @ 18%	906	822	1,728
	Subtotal - Miscellaneous	1,618	1,553	3,171
	Total >>	8,824	7,339	16,163

Total Building Areas						
	Lower Floor Area			Upper Floor Area		
	Proposed	Existing	New	Proposed	Existing	New
Apparatus Bay				2,284		
Firematic Support				1,400		
Office & Living	6,540			5,940		
Total per Floor	6,540	4,631	1,910	9,623	5,502	4,121
Total 2 Floors	16,163	10,133	6,031			

Beacon Fire Department - Combined Company w/ Department 1 Story Space/Usage Analysis

			Departmental Spaces Plus One Company				With 2nd Co.			With 3rd Co.		
	Basic Individual Company Program Item	Shared Department Function Program Item	Room Name	1st Floor Area	Mezz	Area Both Floors	1st Floor Area	Mezz	Area Both Floors	1st Floor Area	Mezz	Area Both Floors
1			Apparatus Bay									
2	NA	1	Apparatus Bay (5 trucks in case 1 & 2, 8 in case 3)	5,437		5,437	5,437		5,437	8,700		8,700
3			Subtotal - Apparatus	5,437		5,437	5,437		5,437	8,700		8,700
4			Firematic Support									
5	NA	1.1	Mezzanine (60' x 20')		1,200	1,200		1,200	1,200		1,800	1,800
6												
7	2		Firematic Storage Room	100		100	200		200	300		300
8	3		Officer's Supply Room	64		64	128		128	192		192
9	4		EMS Storage Room Not Applicable	NA		NA	NA		NA	NA		NA
10		2	Central EMS Storage	192		192	192		192	192		192
11	5		Engineer's Work Room	320		320	320		320	320		320
12		3	Quartermaster	225		225	225		225	225		225
13	6		Decon/Laundry	219		219	219		219	219		219
14		4	SCBA	210		210	210		210	210		210
15		5	Oxygen Storage	80		80	80		80	80		80
16	7		Hose Storage	58		58	116		116	174		174
17	8		Hose Dryer Recess	25		25	25		25	25		25
18	9		Paid Staff Bunker Gear Lockers	73		73	146		146	219		219
19	10		Janitors Closet	72		72	72		72	72		72
20	11		Firefighter's Uni-Sex ADA Rest Room	75		75	150		150	225		225
21	12		Radio Room	147		147	147		147	147		147
22			Subtotal - Firematic Support	1,860		1,860	2,230		2,230	2,600		2,600
23			Administration									
24	13		Conference Room	377		377	377		377	377		377
25	14		Conference Room Table/Chair Storage	80		80	80		80	80		80
26	15		Active Officers	233		233	280		280	336		336
27	16		Civil Officers	233		233	466		466	699		699
28		6	Department Secretary/Receptionist	140		140	140		140	140		140
29		7	Chief	178		178	178		178	178		178
30		8	Department Officers	247		247	247		247	247		247
31		9	Company Chiefs	233		233	233		233	233		233
32		10	Tour Commander/Career Officer	275		275	275		275	275		275
33		11	Fire Prevention Closet	144		144	144		144	144		144
34		12	Union Office	80		80	80		80	80		80
35	17	13	Records Storage	173		173	246		246	319		319
36	18		Uniform Storage	160		160	320		320	480		480
37			Subtotal - Administration	2,553		2,553	3,066		3,066	3,588		3,588
38			Volunteer Firefighters									
39	19		Firefighter's Recreation Room	749		749	996		996	1325		1,325
40	20		Day Room	588		588	782		782	1040		1,040
41	21		Junior Firefighter's Room	280		280	336		336	403		403
42		14	Pavilion & Outdoor Recreation	NA		NA	NA		NA	NA		NA
43		15	Exercise	1387		1,387	1387		1,387	1387		1,387
44		16	Lockers/Bath	624		624	624		624	624		624
45	22		Firefighter's Rest Rooms w/ Shower	NA		0	NA		0	NA		0
46			Subtotal - Volunteer Firefighters	3,628		3,628	4,125		4,125	4,779		4,779
47			Paid Personnel									
48	23		Paid Personnel Bunk Room (2 @ 139)	278		278	556		556	834		834
49	24		Paid Personnel Bathroom (2 @ 98)	196		196	392		392	588		588
50	25		Paid Personnel Locker Room	182		182	364		364	546		546
51			Subtotal - Paid Personnel	656		656	1,312		1,312	1,968		1,968
52			Public Spaces									
53	26	17	Public Entry Area	300		300	300		300	300		300
54	27	18	Coat Room	51		51	51		51	51		51
55	28		Museum	40		40	40		40	40		40
56	29		Meeting/Training Room	0		0	0		0	0		0
57	30		Meeting/Training Room Storage	0		0	0		0	0		0
58		19	Large Group Training Room	2500		2,500	2500		2,500	2500		2,500
59		20	Large Group Training Room Table/Chair Storage	247		247	247		247	247		247
60		21	Large Group Training Room A/V Storage	60		60	60		60	60		60
61	31	22	Kitchen	400		400	400		400	400		400
62	32	23	Pantry	100		100	164		164	228		228
63	33	24	Public Rest Rooms M & F	413		413	413		413	413		413
64			Subtotal - Public Spaces	4,111		4,111	4,175		4,175	4,239		4,239
65			Miscellaneous Space									
66	34		Housekeeping Storage	80		80	80		80	80		80
67	35		File Server/Telephone	0		0	0		0	0		0
68	36		Generator	240		240	240		240	240		240
69	37		Mechanical/Electrical	300		300	300		300	300		300
70			Subtotal - Miscellaneous Spaces	620		620	620		620	620		620
####			Area Subtotals									
####			Bay	5,437		5,437	5,437		5,437	8,700		8,700
####			Firematic Support	1,860		1,860	2,230		2,230	2,600		2,600
####			Mezzanine		1,200	1,200		1,200	1,200		1,800	1,800
####			Office & Living	11,568		11,568	13,298		13,298	15,194		15,194
####			Walls & Circulation									
####			Apparatus Bay Walls @ 5%	272		272	272		272	435		435
####			Firematic Support Walls @ 10%	186		186	223		223	260		260
####			Firematic Support Circulation @ 5%	93		93	112		112	130		130
####			Office Area Walls @ 12%	1,388		1,388	1,596		1,596	1,823		1,823
####			Office Area Circulation @ 18%	2,082		2,082	2,394		2,394	2,735		2,735
####			Subtotal - Miscellaneous	4,021	0	4,021	4,596	0	4,596	5,383	0	5,383
####			Total >>	22,886	1,200	24,086	25,561	1,200	26,761	31,877	1,800	33,677
####			Footprint w/o Apparatus Bay>>	15,038			17,287			19,752		
####			Apparatus Bay & Firematic Support>>	7,848			8,273			12,125		

Beacon Fire Department - Combined Company w/ Department 2 Story Space/Usage Analysis

			Departmental Spaces Plus One Company					With 2nd Company				With 3rd Company			
	Basic Individual Company Program Item	Shared Department Function Program Item	Room Name	1st Floor Area	Mezz	2nd Floor Area	Area Both Floors	1st Floor Area	Mezz	2nd Floor Area	Area Both Floors	1st Floor Area	Mezz	2nd Floor Area	Area Both Floors
1			Apparatus Bay												
2	NA	1	Apparatus Bay (5 trucks in case 1 & 2, 8 in case 3)	5,437			5,437	5,437			5,437		8,700		8,700
3			Subtotal - Apparatus	5,437			5,437	5,437			5,437		8,700		8,700
4			Firematic Support												
5	NA	1.1	Mezzanine (60' x 20')		1,200		1,200		1,200		1,200		1,800		1,800
6															
7	2		Firematic Storage Room	100			100	200			200		300		300
8	3		Officer's Supply Room	64			64	128			128		192		192
9	4		EMS Storage Room Not Applicable	NA			NA	NA			NA		NA		NA
10		2	Central EMS Storage	192			192	192			192		192		192
11	5		Engineer's Work Room	320			320	320			320		320		320
12		3	Quartermaster	225			225	225			225		225		225
13	6		Decon/Laundry	219			219	219			219		219		219
14		4	SCBA	210			210	210			210		210		210
15		5	Oxygen Storage	80			80	80			80		80		80
16	7		Hose Storage	58			58	116			116		174		174
17	8		Hose Dryer Recess	25			25	25			25		25		25
18	9		Paid Staff Bunker Gear Lockers	73			73	146			146		219		219
19	10		Janitors Closet	72			72	72			72		72		72
20	11		Firefighter's Uni-Sex ADA Rest Room	75			75	150			150		225		225
21	12		Radio Room	147			147	147			147		147		147
22			Subtotal - Firematic Support	1,860			1,860	2,230			2,230		2,600		2,600
23			Administration												
24	13		Conference Room	0		377	377	0		377	377	0		377	377
25	14		Conference Room Table/Chair Storage	0		80	80	0		80	80	0		80	80
26	15		Active Officers	0		233	233	0		280	280	0		336	336
27	16		Civil Officers	0		233	233	0		466	466	0		699	699
28		6	Department Secretary/Receptionist	0		140	140	0		140	140	0		140	140
29		7	Chief	0		178	178	0		178	178	0		178	178
30		8	Department Officers	0		247	247	0		247	247	0		247	247
31		9	Company Chiefs	0		233	233	0		233	233	0		233	233
32		10	Tour Commander/Career Officer	275		0	275	275			275	275		0	275
33		11	Fire Prevention Closet	144		0	144	0		144	144	0		144	144
34		12	Union Office	80		0	80	80		0	80	80		0	80
35	17	13	Records Storage	0		173	173	0		246	246	0		319	319
36	18		Uniform Storage	160		0	160	0		320	320	0		480	480
37			Subtotal - Administration	659		1,894	2,553	355		2,711	3,066	355		3,233	3,588
38			Volunteer Firefighters												
39	19		Firefighter's Recreation Room	749		0	749	996		0	996	1325		0	1,325
40	20		Day Room	588		0	588	782		0	782	1040		0	1,040
41	21		Junior Firefighter's Room	280		0	280	336		0	336	403		0	403
42		14	Pavilion & Outdoor Recreation	NA		NA	NA	NA		NA	NA	NA		NA	NA
43		15	Exercise	1387		0	1,387	1387		0	1,387	1387		0	1,387
44		16	Lockers/Bath	624		0	624	624		0	624	624		0	624
45	22		Firefighter's Rest Rooms w/ Shower	NA		NA	0	NA		NA	0	NA		NA	0
46			Subtotal - Volunteer Firefighters	3,628		0	3,628	4,125		0	4,125	4,779		0	4,779
47			Paid Personnel												
48	23		Paid Personnel Bunk Room (2 @ 139)	278		0	278	556		0	556	834		0	834
49	24		Paid Personnel Bathroom (2 @ 98)	196		0	196	392		0	392	588		0	588
50	25		Paid Personnel Locker Room	182		0	182	364		0	364	546		0	546
51			Subtotal - Paid Personnel	656		0	656	1,312		0	1,312	1,968		0	1,968
52			Public Spaces												
53	26	17	Public Entry Area	300		168	468	300		168	468	300		168	468
54	27	18	Coat Room	0		51	51	0		51	51	0		51	51
55	28		Museum	40		40	80	40		40	80	40		40	80
56	29		Meeting/Training Room	0		NA	0	0		NA	0	0		NA	0
57	30		Meeting/Training Room Storage	0		NA	0	0		NA	0	0		NA	0
58		19	Large Group Training Room	0		2500	2,500	0		2500	2,500	0		2500	2,500
59		20	Large Group Training Room Table/Chair Storage	0		247	247	0		247	247	0		247	247
60		21	Large Group Training Room A/V Storage	0		60	60	0		60	60	0		60	60
61	31	22	Kitchen	0		400	400	0		400	400	0		400	400
62	32	23	Pantry	0		100	100	0		164	164	0		228	228
63	33	24	Public Rest Rooms M & F	0		413	413	0		413	413	0		413	413
64			Subtotal - Public Spaces	340		3,979	4,319	340		4,043	4,383	340		4,107	4,447
65			Miscellaneous Space												
66	34		Housekeeping Storage	80		0	80	80		0	80	80		0	80
67	35		File Server/Telephone	0		50	50	0		50	50	0		50	50
68	36		Generator	240		0	240	240		0	240	240		0	240
69	37		Mechanical/Electrical	300		60	360	300		60	360	300		60	360
70			Subtotal - Miscellaneous Spaces	620		110	730	620		110	730	620		110	730
71			Vertical Circulation												
72	38		(2) Stairwells (area per floor)	388		308	696	388		308	696	388		308	696
73	39		Elevator (area per floor)	58		58	116	58		58	116	58		58	116
74	40		Elevator Equipment Room	82		0	82	82		0	82	82		0	82
75	41		Elevator Foyer	80		80	160	80		80	160	80		80	160
76			Subtotal - Vertical Circulation	608		446	1,054	608		446	1,054	608		446	1,054
77			Area Subtotals												
78			Bay	5,437			5,437	5,437			5,437	8,700			8,700
79			Firematic Support	1,860			1,860	2,230			2,230	2,600			2,600
80			Mezzanine		1,200		1,200		1,200		1,200		1,800		1,800
81			Office & Living	6,511			6,429	12,940	7,360		7,310	14,670	8,670		7,896
82			Walls & Circulation												
83			Apparatus Bay Walls @ 5%	272			272	272			272	435			435
84			Firematic Support Walls @ 10%	186			186	223			223	260			260
85			Firematic Support Circulation @ 5%	93			93	112			112	130			130
86			Office Area Walls @ 12%	781		771	1,553	883		877	1,760	1,040		947	1,988
87			Office Area Circulation @ 18%	1,172		1,157	2,329	1,325		1,316	2,641	1,561		1,421	2,982
88			Subtotal - Miscellaneous	2,504	0	1,929	4,433	2,814	0	2,193	5,007	3,426	0	2,369	5,795
89			Total >>	16,312	1,200	8,358	25,870	17,842	1,200	9,502	28,544	23,396	1,800	10,264	35,460
90			Footprint w/o Apparatus Bay>>	8,464				9,568				11,271			
91			Apparatus Bay & Firematic Support>>	7,848				8,273				12,125			

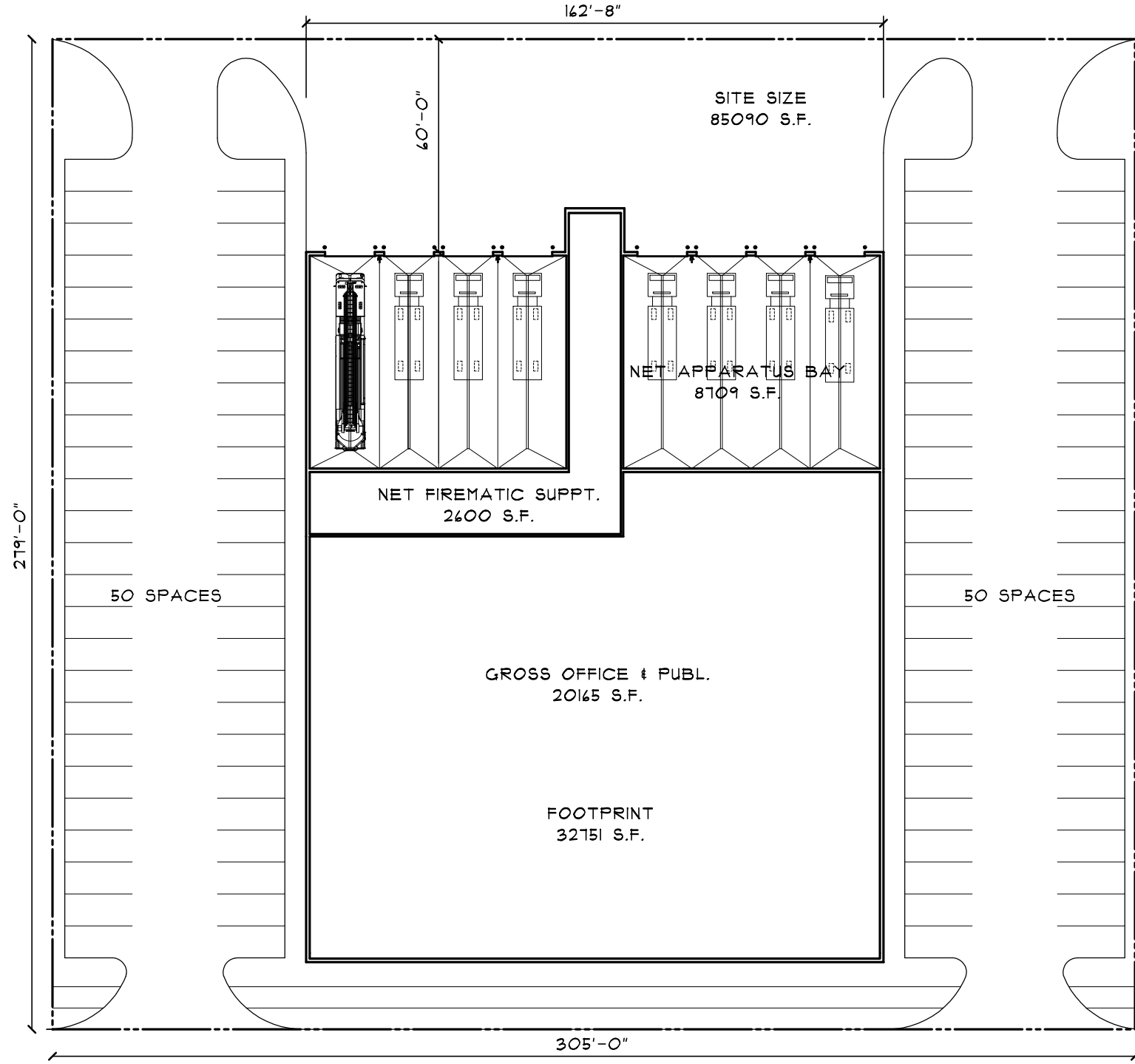
Beacon Fire Department - Combined Company w/ Department 3 Story Space/Usage Analysis

		Headquarters Shared With One Company						With 2nd Company				With 3rd Company					
Basic Individual Company Program Item	Shared Department Function Program Item	Room Name	1st Floor Area	Mezz	2nd Floor Area	3rd Floor Area	Area Both Floors	1st Floor Area	Mezz	2nd Floor Area	3rd Floor Area	Area Both Floors	1st Floor Area	Mezz	2nd Floor Area	3rd Floor Area	Area Both Floors
1		Apparatus Bay															
2	NA	1	Apparatus Bay (5 trucks in case 1 & 2, 8 in case 2)	5,700			5,700	5,700				5,700					8,700
3			Subtotal - Apparatus	5,700			5,700	5,700				5,700					8,700
4			Firematic Support														
5	NA	1.1	Mezzanine (60' x 20')		1,200		1,200		1,200			1,200			1,800		1,800
6																	
7	2		Firematic Storage Room	100			100	200				200			300		300
8	3		Officer's Supply Room	64			64	128				128			192		192
9	4		EMS Storage Room Not Applicable	NA			NA	NA				NA		NA		NA	NA
10		2	Central EMS Storage	192			192	192				192			192		192
11	5		Engineer's Work Room	320			320	320				320			320		320
12		3	Quartermaster	225			225	225				225			225		225
13	6		Decon/Laundry	219			219	219				219			219		219
14		4	SCBA	210			210	210				210			210		210
15		5	Oxygen Storage	80			80	80				80			80		80
16	7		Hose Storage	58			58	116				116			174		174
17	8		Hose Dryer Recess	25			25	25				25			25		25
18	9		Paid Staff Bunker Gear Lockers	73			73	146				146			219		219
19	10		Janitors Closet	72			72	72				72			72		72
20	11		Firefighter's Uni-Sex ADA Rest Room	75			75	150				150			225		225
21	12		Radio Room	147			147	147				147			147		147
22			Subtotal - Firematic Support	1,860			1,860	2,230				2,230			2,600		2,600
23			Administration														
24	13		Conference Room	0			377	377	0			377			377		377
25	14		Conference Room Table/Chair Storage	0			80	80	0			80			80		80
26	15		Active Officers	0			233	233	0			280			280		336
27	16		Civil Officers	0			233	233	0			466			466		699
28		6	Department Secretary/Receptionist	0			140	140	0			140			140		140
29		7	Chief	0			178	178	0			178			178		178
30		8	Department Officers	0			247	247	0			247			247		247
31		9	Company Chiefs	0			233	233	0			233			233		233
32		10	Tour Commander/Career Officer	275			0	275	275			0		275	275		275
33		11	Fire Prevention Closet	0			144	144	0			144			144		144
34		12	Union Office	0			80	80	0			80			80		80
35	17	13	Records Storage	0			173	173	0			246			246		319
36	18		Uniform Storage	160			160	160	0			320			320		480
37			Subtotal - Administration	435			2,278	2,553	275			2,791			3,066	275	2,833
38			Volunteer Firefighters														
39	19		Firefighter's Recreation Room	0			749	749	996			749		1,745	1325		749
40	20		Day Room	588			0	588	782			0		782	1040		0
41	21		Junior Firefighter's Room	0			280	280	336			280		616	403		280
42		14	Pavilion & Outdoor Recreation	NA			NA	NA	NA			NA		NA	NA		NA
43		15	Exercise	1387			0	1,387	1387			0		1,387	1387		0
44		16	Lockers/Bath	624			0	624	624			0		624	624		0
45	22		Firefighter's Rest Rooms w/ Shower	NA			NA	0	NA			NA		0	NA		NA
46			Subtotal - Volunteer Firefighters	2,599			1,029	3,628	4,125			1,029		5,154	4,779		1,029
47			Paid Personnel														
48	23		Paid Personnel Bunk Room (2 @ 139)	278			0	278	556			0		556	834		0
49	24		Paid Personnel Bathroom (2 @ 98)	196			0	196	392			0		392	588		0
50	25		Paid Personnel Locker Room	182			0	182	364			0		364	546		0
51			Subtotal - Paid Personnel	656			0	656	1,312			0		1,312	1,968		0
52			Public Spaces														
53	26	17	Public Entry Area	300		168		468	300			168		468	300		168
54	27	18	Coat Room	0		51		51	0			51		51	0		51
55	28		Museum	40		40		80	40			40		80	40		40
56	29		Meeting/Training Room	0		NA		0	0			NA		0	0		NA
57	30		Meeting/Training Room Storage	0		NA		0	0			NA		0	0		NA
58		19	Large Group Training Room	0		2500		2,500	0			2500		2,500	0		2500
59		20	Large Group Training Room Table/ChairStorage	0		247		247	0			247		247	0		247
60		21	Large Group Training Room A/V Storage	0		60		60	0			60		60	0		60
61	31	22	Kitchen	0		400		400	0			400		400	0		400
62	32	23	Pantry	0		100		100	0			164		164	0		228
63	33	24	Public Rest Rooms M & F	0		413		413	0			413		413	0		413
64			Subtotal - Public Spaces	340		3,979		4,319	340			4,043		4,383	340		4,107
65			Miscellaneous Space														
66	34		Housekeeping Storage	80			0	80	80			0		80	80		0
67	35		File Server/Telephone	0			50	50	0			50		50	0		50
68	36		Generator	240			0	240	240			0		240	240		0
69	37		Mechanical/Electrical	300			60	360	300			60		360	300		60
70			Subtotal - Miscellaneous Spaces	620			110	730	620			110		730	620		110
71			Vertical Circulation														
72	38		(2) Stairwells (area per floor)	388		308		308	1,004			308		308	1,004		388
73	39		Elevator (area per floor)	44		44		44	132			44		44	132		44
74	40		Elevator Equipment Room	82		0		0	82			0		82	82		0
75	41		Elevator Foyer	80		80		80	240			80		80	240		80
76			Subtotal - Vertical Circulation	594		432		432	1,458			432		432	1,458		594
77			Area Subtotals														
78			Bay	5,700				5,700	5,700					5,700	8,700		
79			Firematic Support	1,860				1,860	2,230					2,230	2,600		
80			Mezzanine		1,200			1,200		1,200				1,200		1,800	
81			Office & Living	5,244		4,411	3,849	13,504	7,266			4,475	4,362	16,103	8,576		4,539
82			Walls & Circulation														
83			Apparatus Bay Walls @ 5%	285				285	285					285	435		
84			Firematic Support Walls @ 10%	186				186	223					223	260		
85			Firematic Support Circulation @ 5%	93				93	112					112	130		
86			Office Area Walls @ 12%	629		529	462	1,620	872			537	523	1,932	1,029	545	528
87			Office Area Circulation @ 18%	944		794	693	2,431	1,308			806	785	2,899	1,544	817	793
88			Subtotal - Miscellaneous	2,137	0	1,323	1,155	4,615	2,799	0	1,343	1,308	5,450	3,398	0	1,362	1,321
89			Total >>	14,941	1,200	5,734	5,004	26,879	17,996	1,200	5,818	5,670	30,683	23,274	1,800	5,901	5,725
90			Footprint w/o Apparatus Bay>>	6,817					9,446						11,149		
91			Apparatus Bay & Firematic Support>>	8,124					8,550						12,125		

Beacon Fire Department - Mase & Engine 1 @ Mase w/ Department 3 Story Space/Usage Analysis

Drawing L-8	Departmental Spaces Plus Mase & Engine #1 @ Renovated Mase Station - Main Training/Meeting Room is at Tompkins							
	Basic Individual Company Program Item	Shared Department Function Program Item	Room Name	1st Floor Area	Mezz	2nd Floor Area	3rd Floor Area	Area All Floors
1			Apparatus Bay					
2	NA	1	Apparatus Bay (5 trucks in case 1 & 2, 8 in case 3)	5,437				5,437
3			Subtotal - Apparatus	5,437				5,437
4			Firematic Support					
5	NA	1.1	Mezzanine (60' x 20')		1,200			1,200
6								
7	2		Firematic Storage Room	200				200
8	3		Officer's Supply Room	128				128
9	4		EMS Storage Room Not Applicable	NA				NA
10		2	Central EMS Storage	192				192
11	5		Engineer's Work Room	320				320
12		3	Quartermaster	225				225
13	6		Decon/Laundry	219				219
14		4	SCBA	210				210
15		5	Oxygen Storage	80				80
16	7		Hose Storage	116				116
17	8		Hose Dryer Recess	25				25
18	9		Paid Staff Bunker Gear Lockers	146				146
19	10		Janitors Closet	72				72
20	11		Firefighter's Uni-Sex ADA Rest Room	150				150
21	12		Radio Room	147				147
22			Subtotal - Firematic Support	2,230				2,230
23			Administration					
24	13		Conference Room	0		377		377
25	14		Conference Room Table/Chair Storage	0		80		80
26	15		Active Officers	0		280		280
27	16		Civil Officers	0		466		466
28		6	Department Secretary/Receptionist	0		140		140
29		7	Chief	0		178		178
30		8	Department Officers	0		247		247
31		9	Company Chiefs	0		233		233
32		10	Tour Commander/Career Officer	275		0		275
33		11	Fire Prevention Closet	0		144		144
34		12	Union Office	0		80		80
35	17	13	Records Storage	0		246	0	246
36	18		Uniform Storage	0		0	320	320
37			Subtotal - Administration	275		2,471	320	3,066
38			Volunteer Firefighters					
39	19		Firefighter's Recreation Room	996			0	996
40	20		Day Room	782			0	782
41	21		Junior Firefighter's Room	0			336	336
42		14	Pavilion & Outdoor Recreation	NA			NA	NA
43		15	Exercise	0		1,387	0	1,387
44		16	Lockers/Bath	0		624	0	624
45	22		Firefighter's Rest Rooms w/ Shower	NA			NA	0
46			Subtotal - Volunteer Firefighters	1,778			336	4,125
47			Paid Personnel					
48	23		Paid Personnel Bunk Room (2 @ 139)	556				556
49	24		Paid Personnel Bathroom (2 @ 98)	392				392
50	25		Paid Personnel Locker Room	364				364
51			Subtotal - Paid Personnel	1,312				1,312
52			Public Spaces					
53	26	17	Public Entry Area	200		50	120	250
54	27	18	Coat Room	0		40		40
55	28		Museum	40		40		80
56	29		Meeting/Training Room	0		0	750	750
57	30		Meeting/Training Room Storage	0		0	100	100
58		19	Large Group Training Room	0		NA		0
59		20	Large Group Training Room Table/Chair Storage	0		NA		0
60		21	Large Group Training Room A/V Storage	0		60		60
61	31	22	Kitchen	0		100		100
62	32	23	Pantry	0		60		60
63	33	24	Public Rest Rooms M & F	0		0	150	0
64			Subtotal - Public Spaces	240		350	1,120	1,440
65			Miscellaneous Space					
66	34		Housekeeping Storage	0		80	0	80
67	35		File Server/Telephone	0		50	0	50
68	36		Generator	240		0	0	240
69	37		Mechanical/Electrical	300		60	40	400
70			Subtotal - Miscellaneous Spaces	540		190	40	770
71			Vertical Circulation					
72	38		(2) Stairwells (area per floor)	388		308	308	1,004
73	39		Elevator (area per floor)	58		58	58	174
74	40		Elevator Equipment Room	82		0	0	82
75	41		Elevator Foyer	80		80	80	240
76			Subtotal - Vertical Circulation	608		446	446	1,500
77			Area Subtotals					
78			Bay	5,437				5,437
79			Firematic Support	2,230				2,230
80			Mezzanine		1,200			1,200
81			Office & Living	4,753		3,457	2,262	10,472
82			Walls & Circulation					
83			Apparatus Bay Walls @ 5%	272				272
84			Firematic Support Walls @ 10%	223				223
85			Firematic Support Circulation @ 5%	112				112
86			Office Area Walls @ 12%	570		415	271	1,257
87			Office Area Circulation @ 18%	856		622	407	1,885
88			Subtotal - Miscellaneous	2,032	0	1,037	679	3,748
89			Total >>	14,453	1,200	4,494	2,941	23,087
90			Footprint w/o Apparatus Bay>>	6,179				
91			Apparatus Bay & Firematic Support>>	8,273				

Appendix D - Diagrammatic Plans



DWG DATE: 1/24/2008

REV	DATE	DESCRIPTION
1		
2		
3		
4		
5		

STATUS: PRELIMINARY

**BLOCK SITE PLAN
3 COMPANIES-1 STORY**

SCALE: 1" = 40'

DWG. BY: RAM

DWG ID#: 1\Beacon\Generic 3 Company Station

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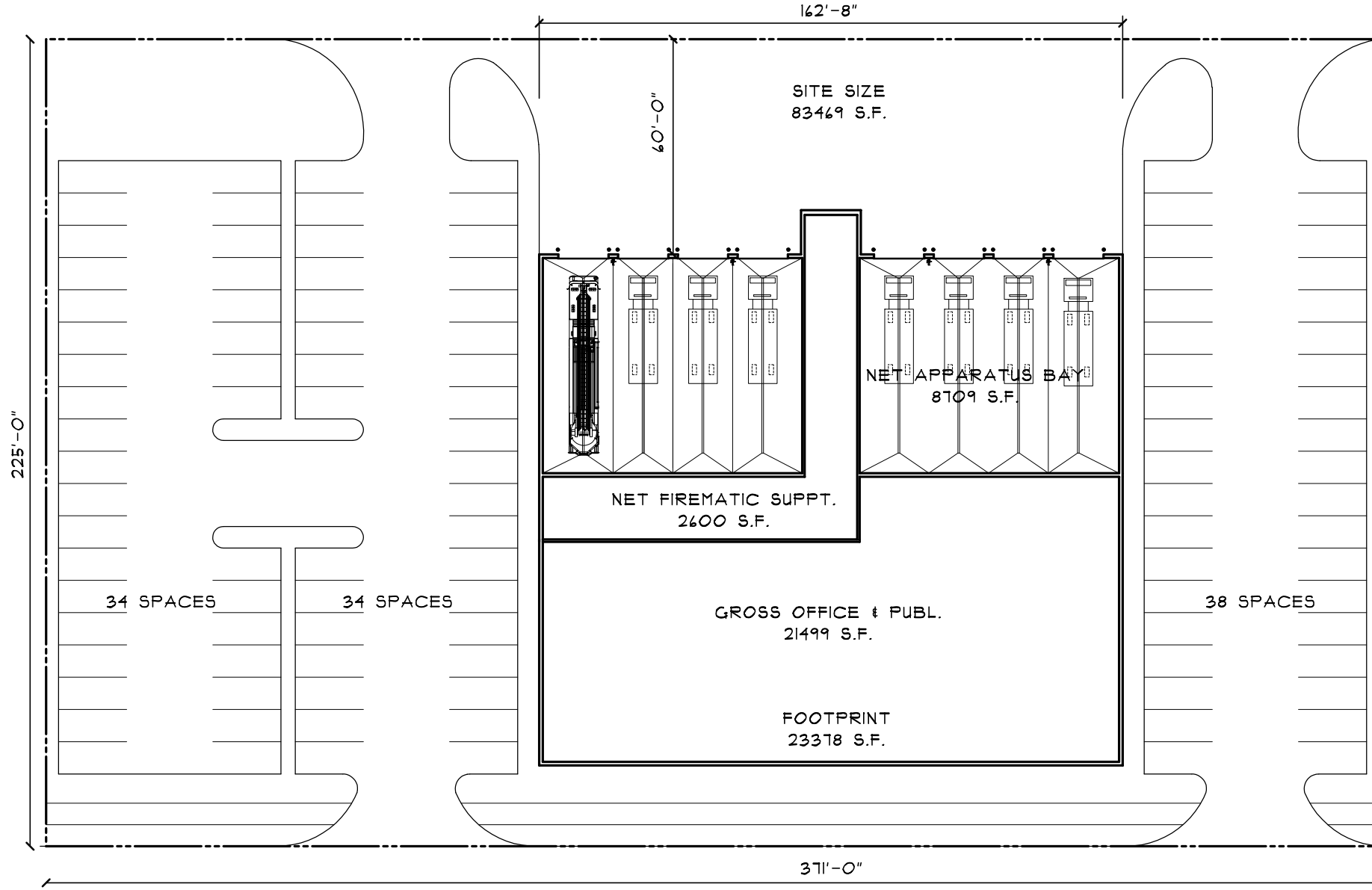
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BEACON FIRE DEPARTMENT**

BEACON, NY

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ARCHITECTS**

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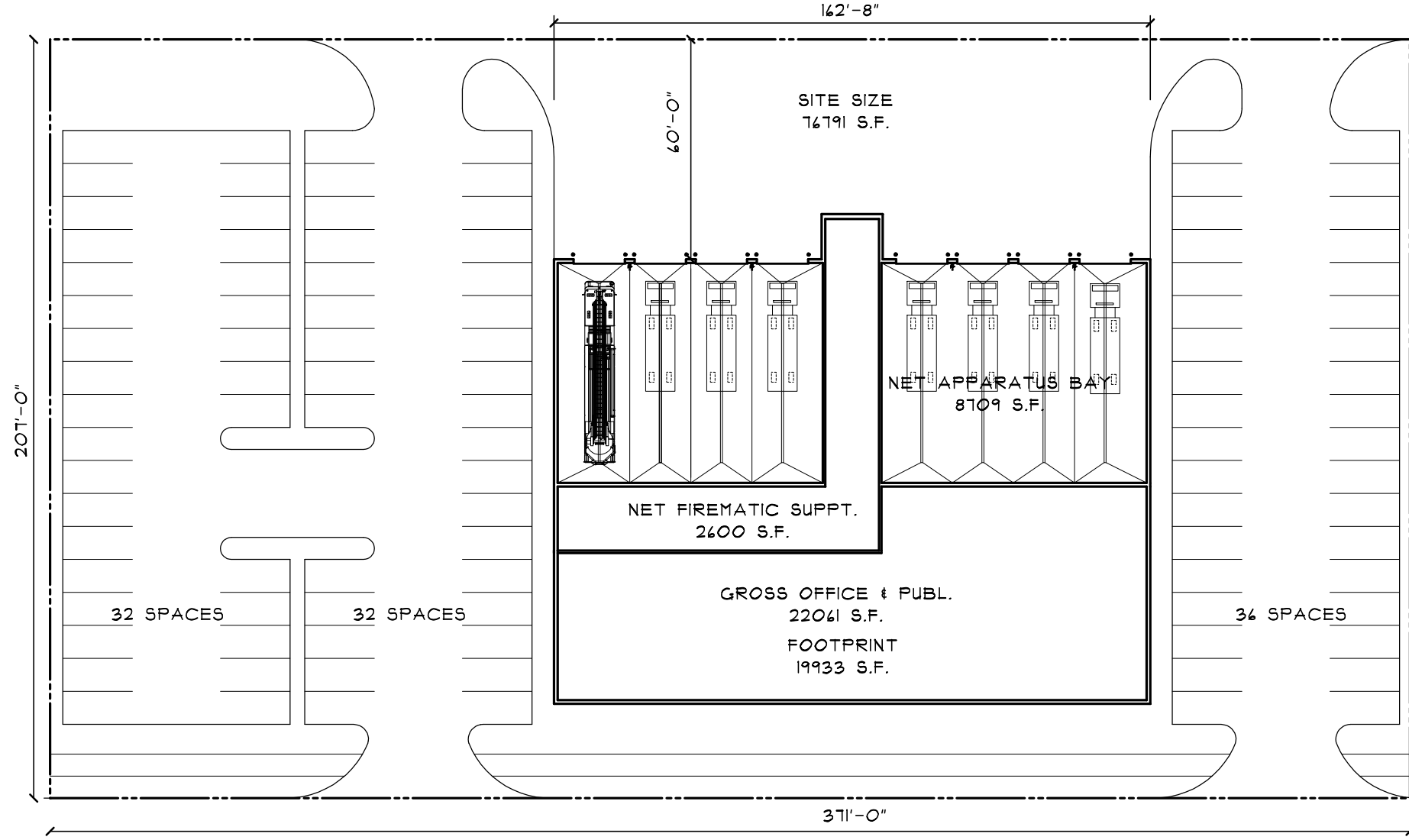
REV	DATE	DESCRIPTION
A		
A		
A		
A		
A		

DWG DATE: 1/24/2006
 DWG ID: P:\Beacon\Generte 3 Company Station &
 DWG BY: RAM
 SCALE: 1" = 40'
 BLOCK SITE PLAN
 3 COMPANIES - 2 STORIES
 STATUS: PRELIMINARY

L2

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DWG DATE: 1/24/2008

REV. NO. DESCRIPTION

1

2

3

4

5

6

STATUS: PRELIMINARY

**BLOCK SITE PLAN
3 COMPANIES - 3 STORIES**

SCALE: 1" = 40'

DWG. BY: RAM

DWG. D/P: J:\Beacon\Generic 3 Company Station &

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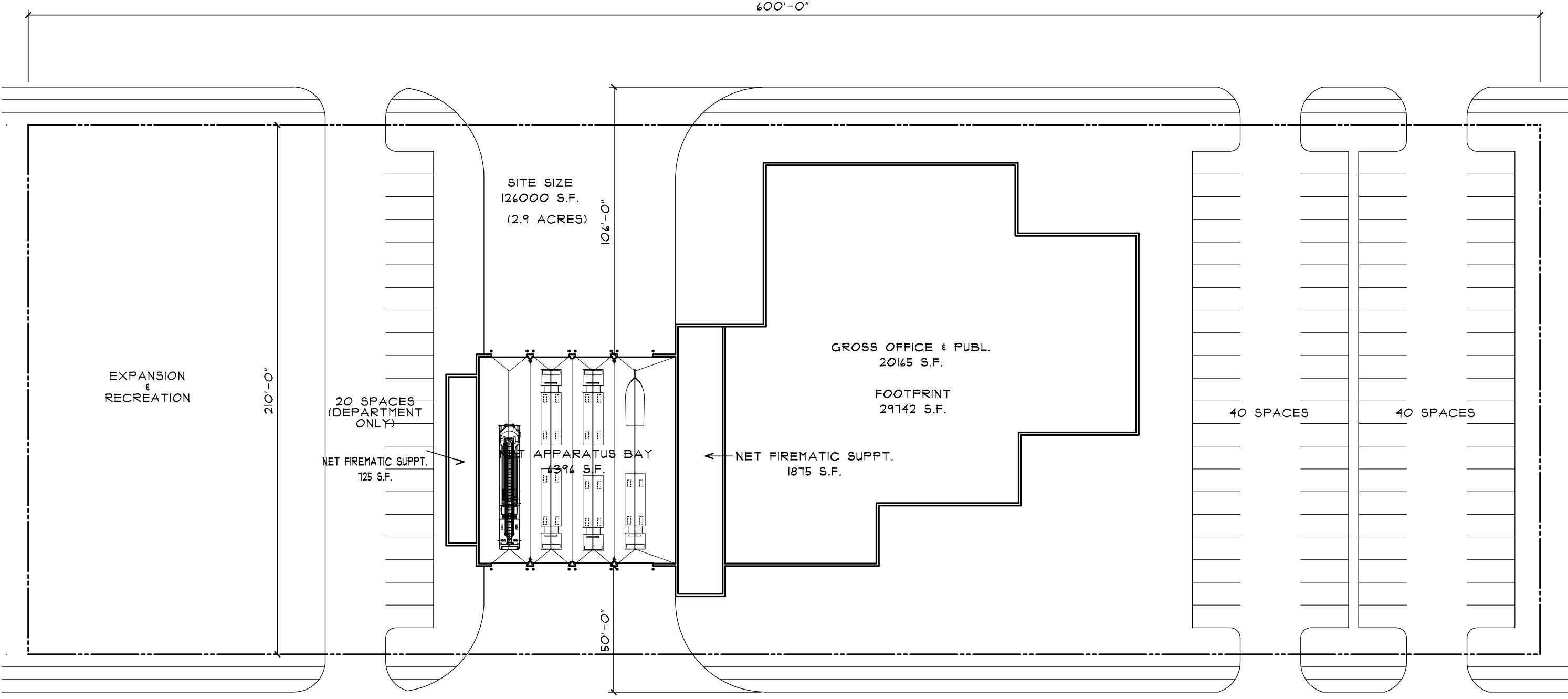
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ALL 3 COMPANIES
1 STORY ON A
OPTIMAL SITE

SITE SIZE
126000 S.F.
(2.9 ACRES)

GROSS OFFICE & PUBL.
20165 S.F.

FOOTPRINT
29142 S.F.

APPARATUS BAY
439 S.F.

NET FIREMATIC SUPPT.
1875 S.F.

20 SPACES
(DEPARTMENT
ONLY)

NET FIREMATIC SUPPT.
125 S.F.

40 SPACES

40 SPACES

DATE	DESCRIPTION
1/24/2006	

BLOCK SITE PLAN
OPTIMAL SUBURBAN SITE
 SCALE: 1" = 40'
 DWG. BY: RAM
 DWG. ID#: A:\Beacon\Beacon 3 Company Station & Site

STATUS: PRELIMINARY

L4

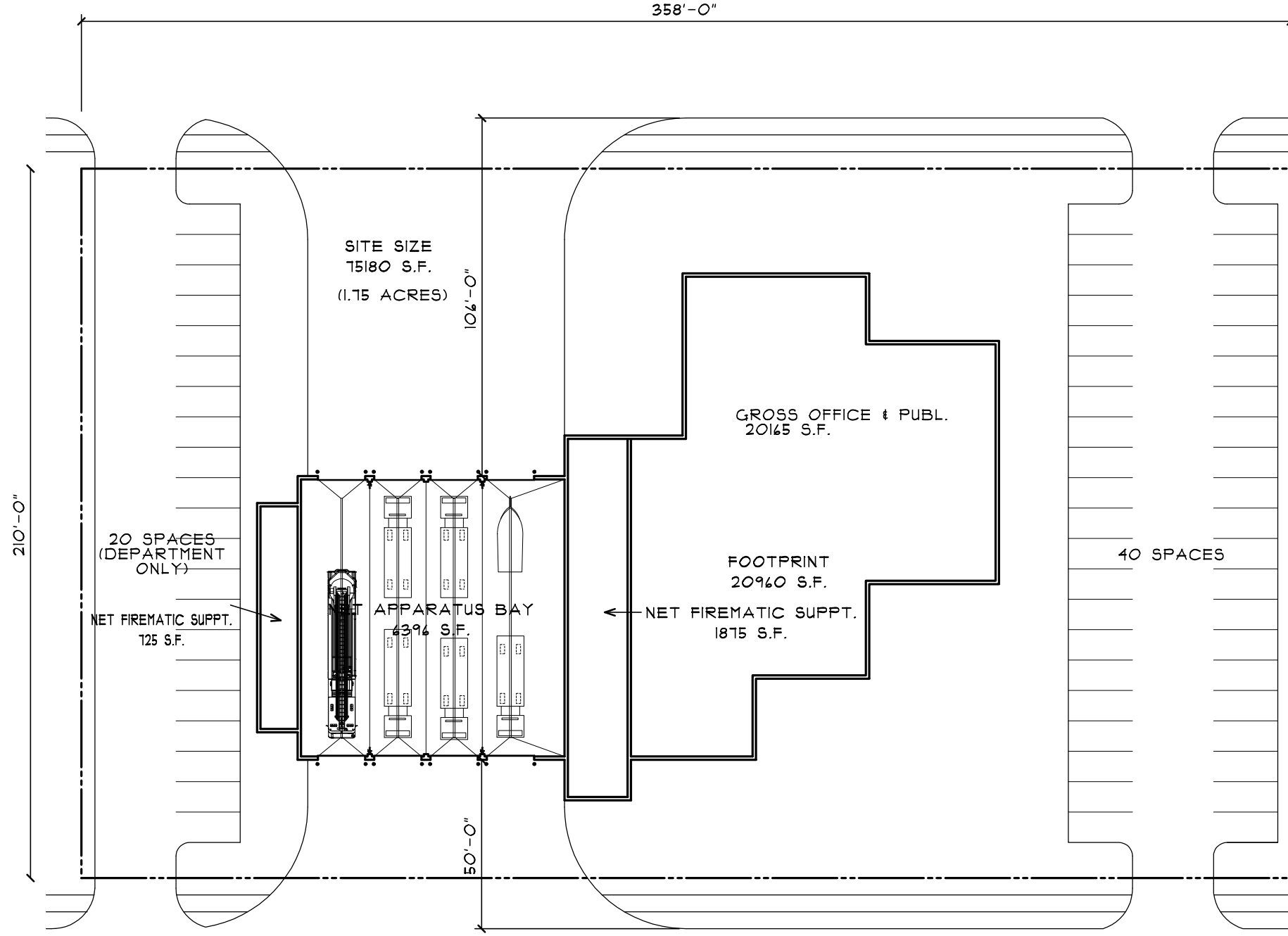
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ALL 3 COMPANIES
2 STORIES ON A
MINIMAL SITE

REV	DATE	DESCRIPTION
1	1/24/2008	
2		
3		
4		
5		

BLOCK SITE PLAN
"TIGHT SUBURBAN SITE"

SCALE: 1" = 40'

DWG. BY: RAM

DWG. ID#: J. [unreadable] (Insert 3 Company Station & Site)

STATUS: PRELIMINARY

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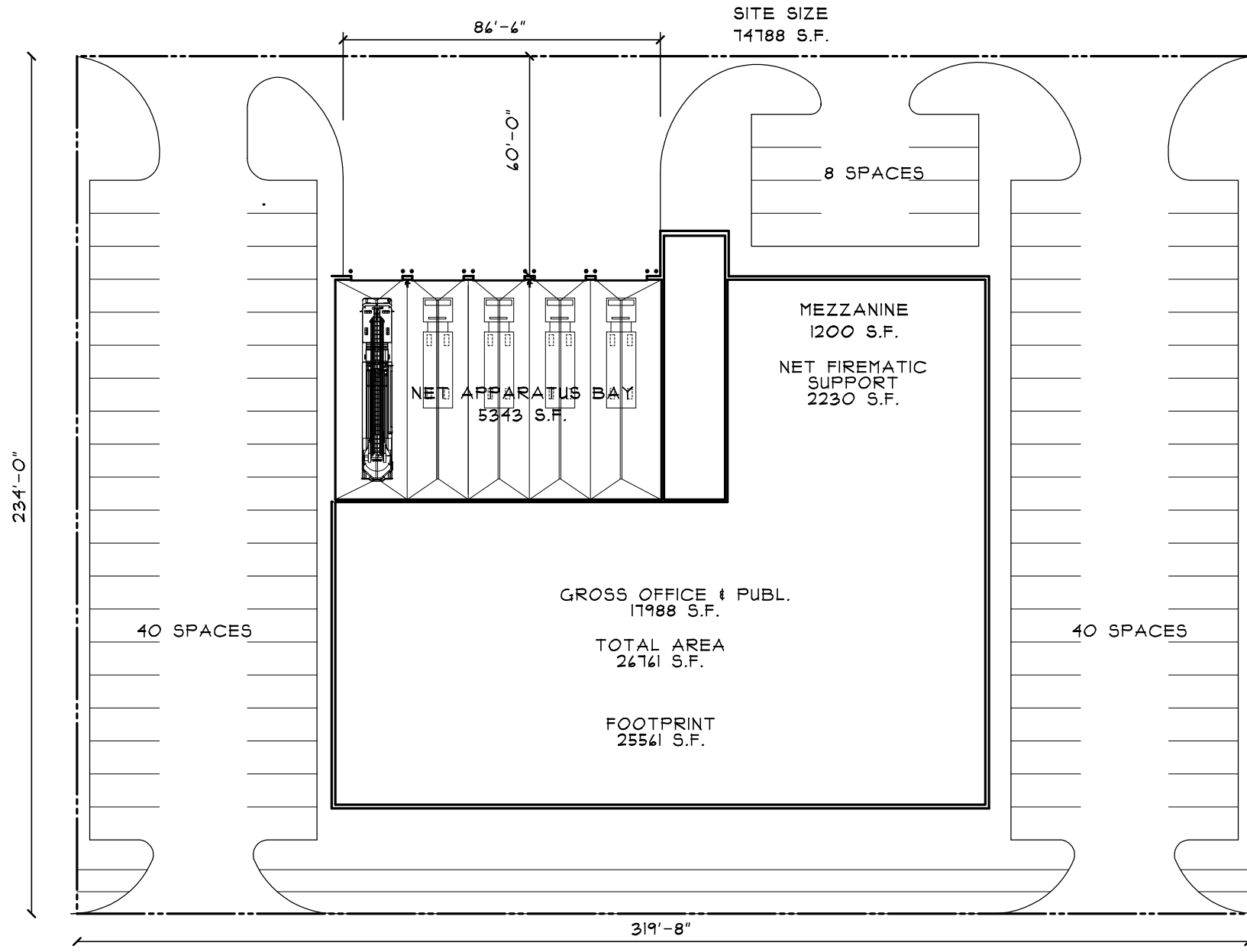
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L4A



MASE #1
1 STORY ON A
TIGHT SITE
LARGE MEETING
ROOM IS LOCATED
HERE

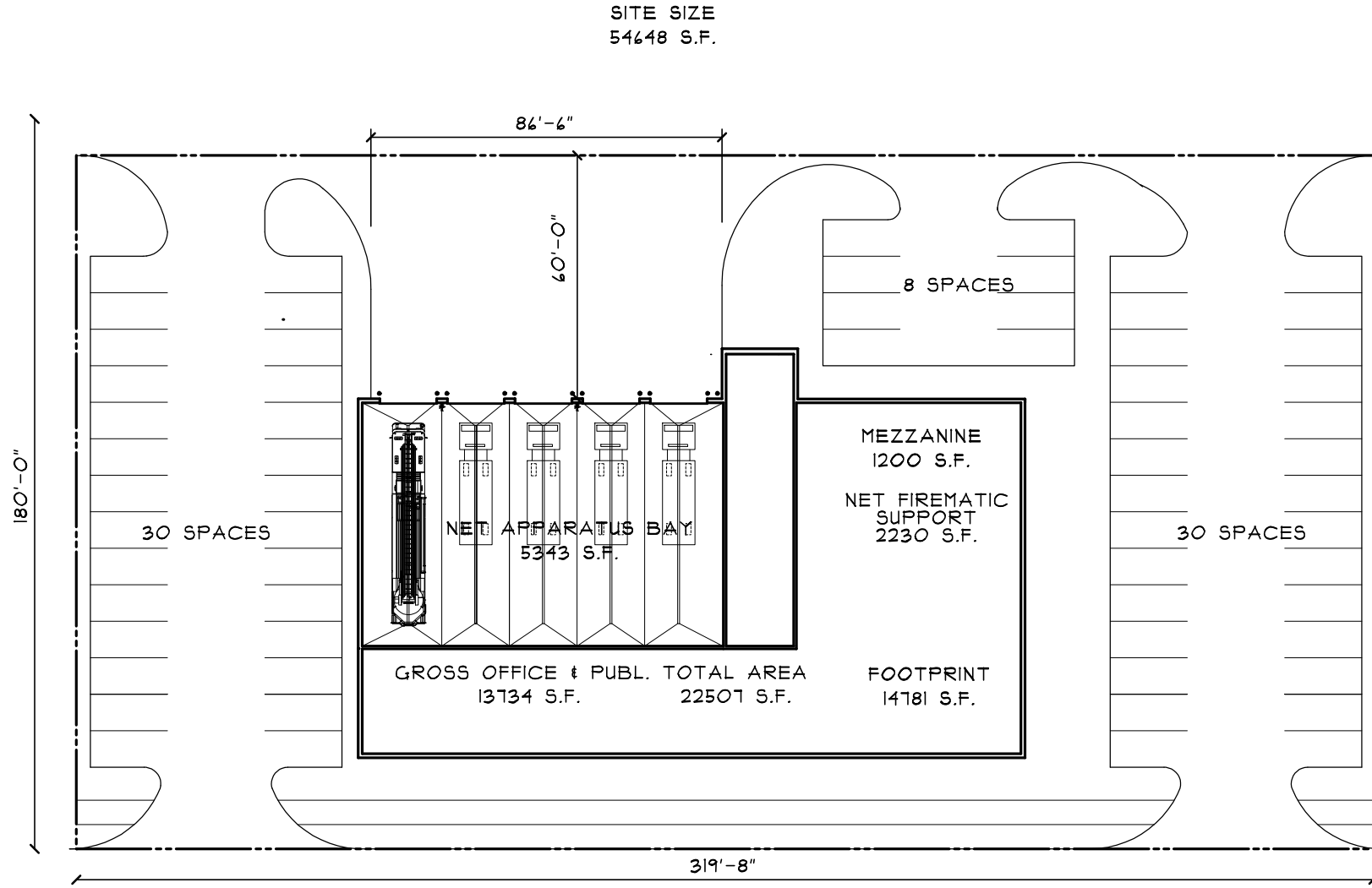
REV	DATE	DESCRIPTION
1		
2		
3		
4		
5		

STATUS: PRELIMINARY

BLOCK SITE PLAN
MASE & #1-1 STORY
SCALE: 1" = 40'
DWG. BY: RAM
DWG. ID#: 1\Beacon\Mase_#1HR

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BEACON, NY

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REV	DATE	DESCRIPTION
A		
A		
A		
A		
A		

DWG ID: P:\Beacon\New_HHQ

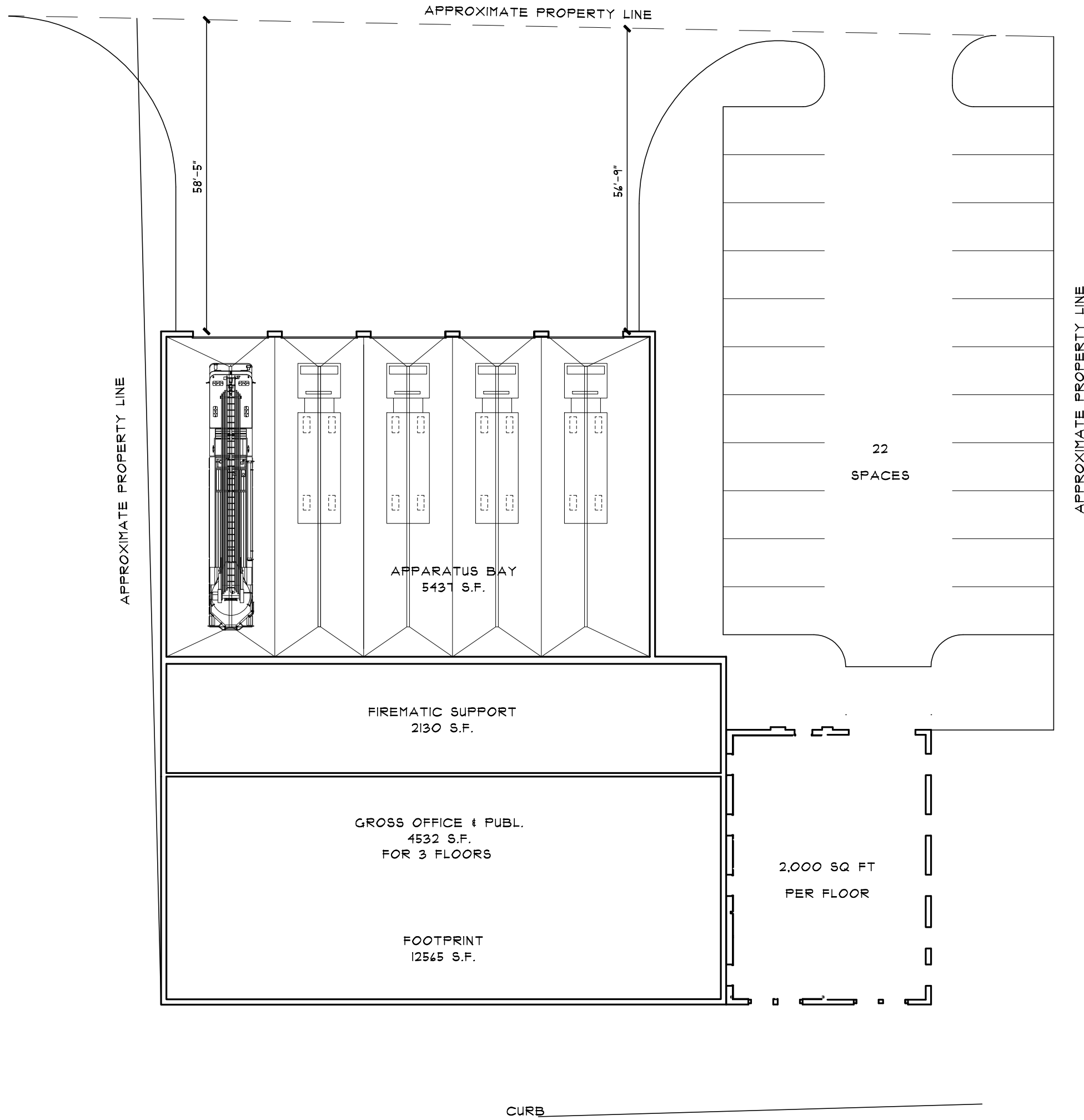
STATUS: PRELIMINARY

BLOCK SITE PLAN
MASE & #1 - 2 STORY
 SCALE: 1" = 40'
 DWG. BY: RAM
 DWG ID: P:\Beacon\New_HHQ

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MASE & ENGINE #1
WITH THE LARGE
MEETING/TRAINING ROOM
(3 STORIES)

DWG DATE: 1/24/2006

REV	DATE	DESCRIPTION
1		
2		
3		
4		
5		

STATUS: PRELIMINARY

**BLOCK SITE PLAN
MASE & #1 LARGE**

SCALE: 1" = 20'

DWG. BY: RAM

DWG. ID#: J:\Beacon\Mase\PLAN FOR MASE

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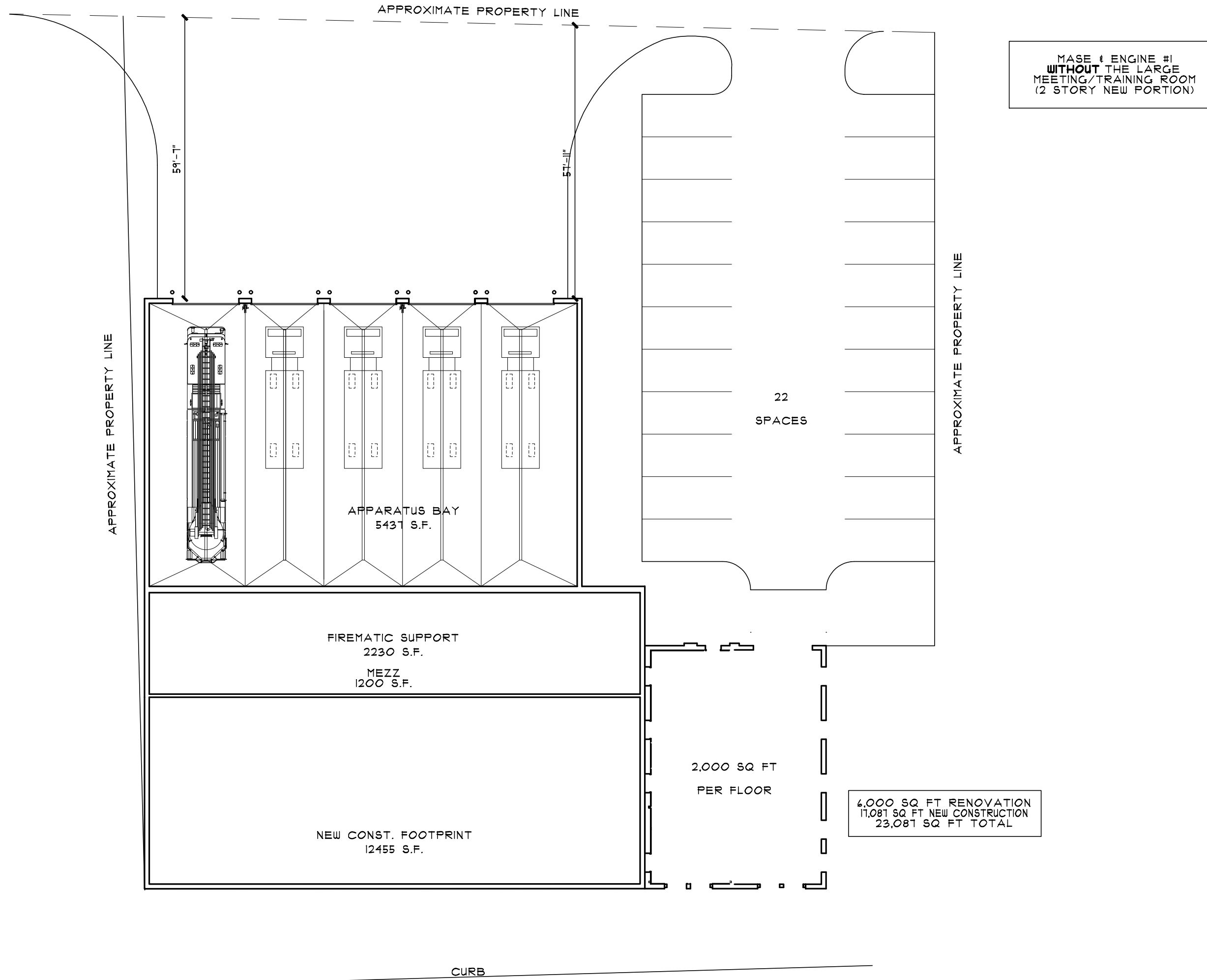
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L7



REV	DATE	DESCRIPTION
1		
2		
3		
4		
5		

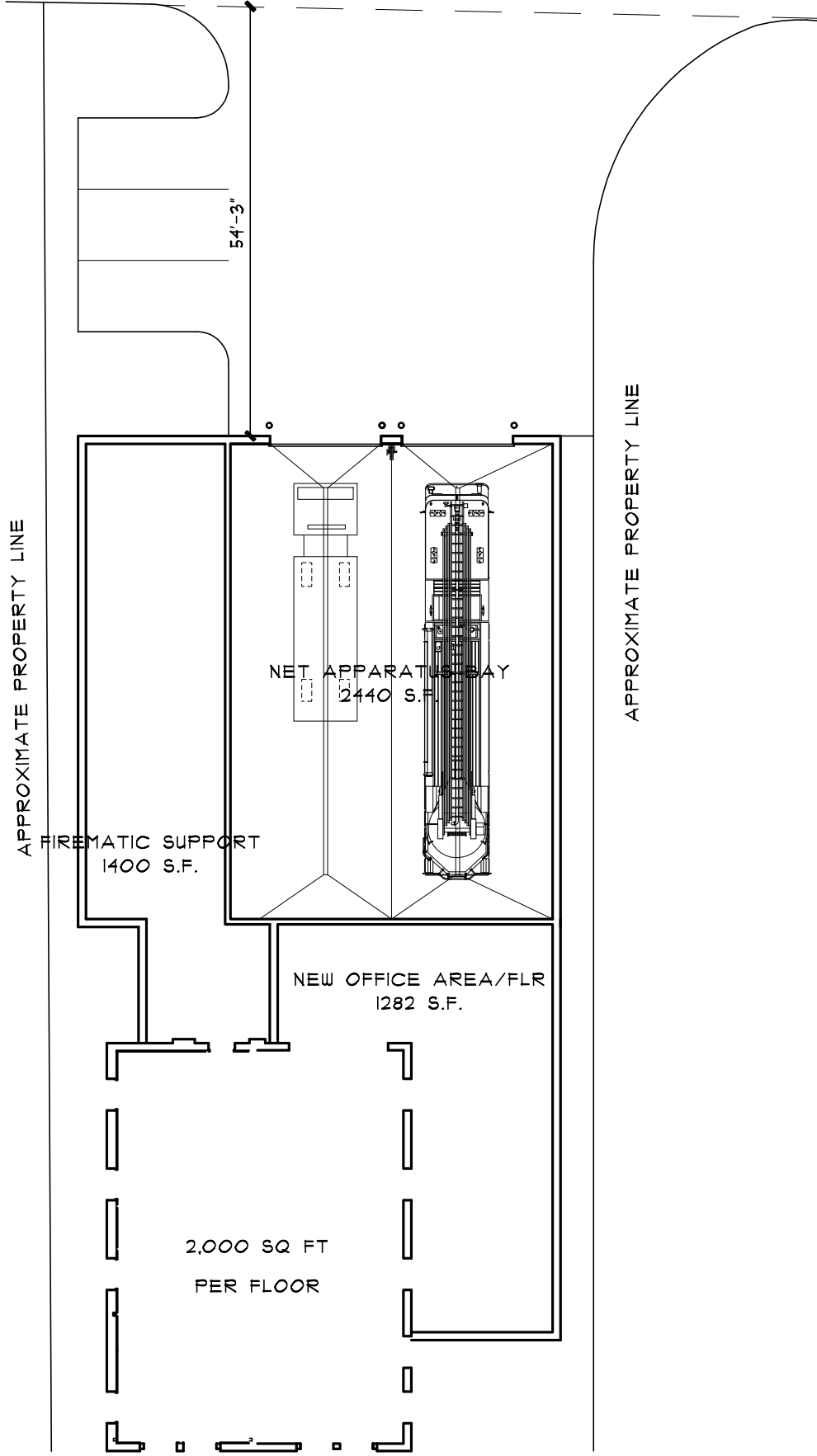
**BLOCK SITE PLAN
MASE & #1 SMALL**
 SCALE: 1" = 20'
 DWG. BY: RAM
 DWG. ID#: 4 \ Beacon \ Mase \ PLAN FOR MASE
 STATUS: PRELIMINARY

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 (516) 210-5672 fax 765-295C

APPROXIMATE PROPERTY LINE



MASE ALONE
 WITH IMPROVEMENTS
 (3 STORY SOLUTION)

REV	DATE	DESCRIPTION
A		
A		
A		
A		

BLOCK SITE PLAN
MASE ALONE
 SCALE: 1" = 20'
 DWG. BY: RAM
 DWG ID#: A:\Beacon\Mase\PLAN FOR MASE
 STATUS: PRELIMINARY

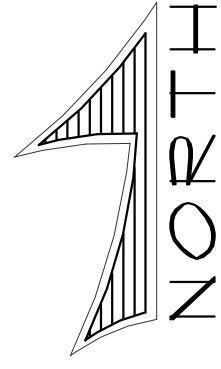
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BEACON, NY



FERRY STREET

LANDS ACQUIRED BY THE NEW YORK STATE DEPT. OF TRANSPORTATION
(FOR ARTERIAL HWY. PURPOSES)

38 PARKING SPACES

PROTESTANT N/F
EPISCOPAL DIOCESE
OF NEW YORK

SOUTH AVENUE

EXISTING
4574 S.F.
PROPOSED
2031 S.F.
TOTAL
6605 S.F.

TOMPKINS HOSE WITH
ALL COMPANIES
LOWER LEVEL

DWG DATE: 1/24/2008

REV. NO. DESCRIPTION

1

2

3

4

5

6

STATUS:

LOWER SITE PLAN
3 DEPTS. MERGED

SCALE: 1" = 40'

DWG. BY: RAM /

DWG. ID#: 1 (Beacon) (Tomkins) (Hose) (Hose) (Hose)

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TOMPKINS HOSE

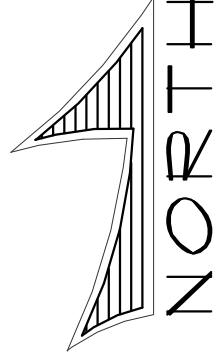
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L10

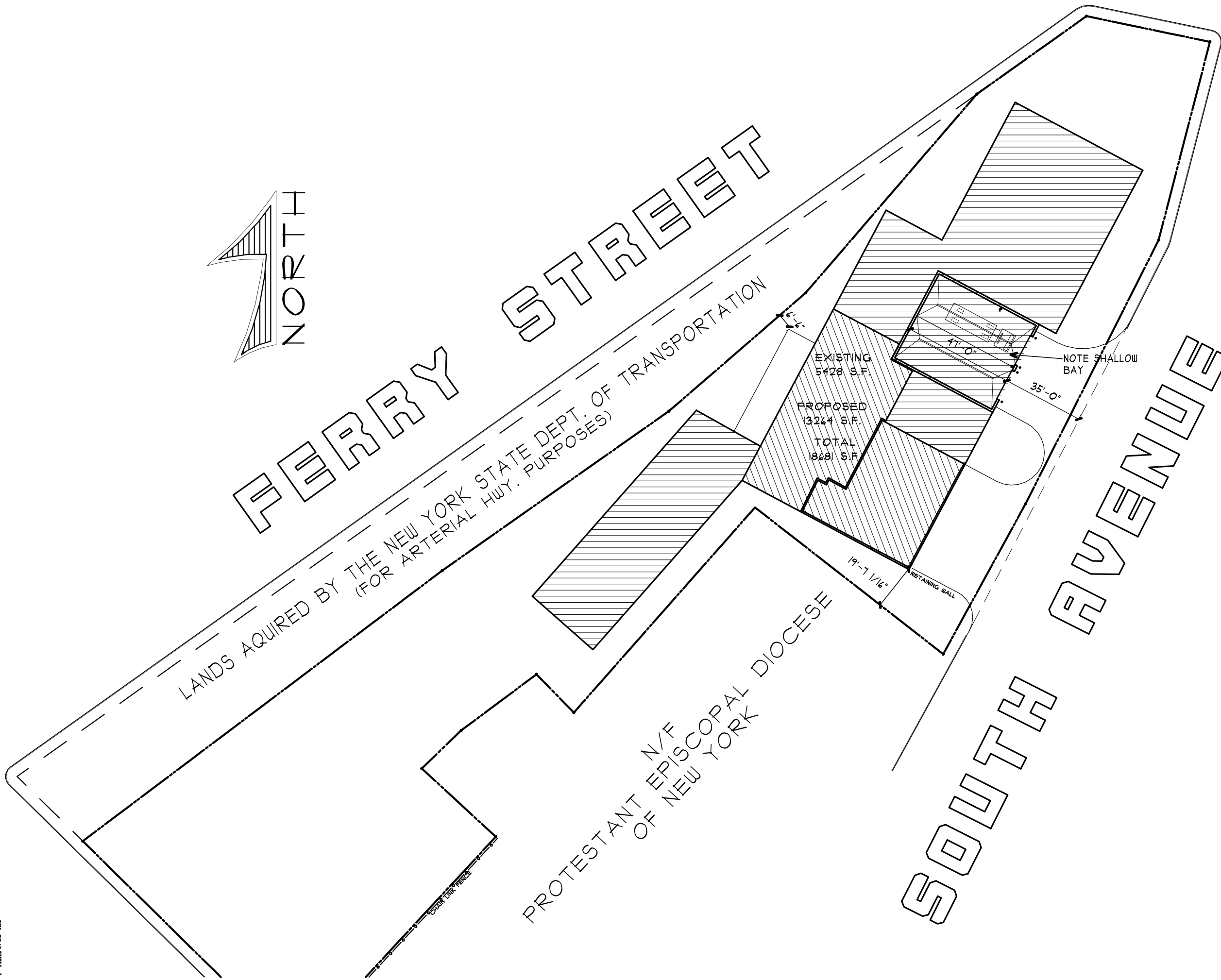


FERRY STREET

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PROTESTANT N/F
OF NEW YORK
EPISCOPAL DIOCESE

SOUTH AVENUE



TOMPKINS HOSE WITH
ALL COMPANIES
UPPER LEVEL

EXISTING
5428 S.F.
PROPOSED
3264 S.F.
TOTAL
8692 S.F.

NOTE SHALLOW
BAY

RETAINING WALL

DWG DATE: 1/24/2008

REV	DATE	DESCRIPTION
1		
2		
3		
4		
5		

STATUS:

UPPER SITE PLAN
3 DEPTS. MERGED

SCALE: 1" = 40'

DWG. BY: RAM /

DWG ID#: 4 (Beacon) / Tompkins (TOMP) 081 04

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TOMPKINS HOSE

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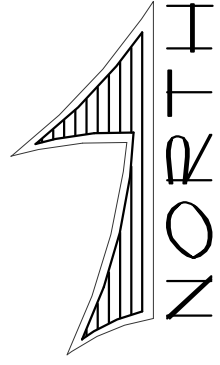
BEACON, NY

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Yonkersville, NY 12188

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FERRY STREET

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(FOR ARTERIAL HWY. PURPOSES)

55 PARKING SPACES

CHAIN LINK FENCE

PROTESTANT EPISCOPAL DIOCESE
OF NEW YORK

SOUTH AVENUE

NEW
290 S.F.

EXISTING
4576 S.F.
FOOTPRINT
8223 S.F.

NEW
3373 S.F.

TOMPKINS HOSE W/ MASE
WITH LARGE GROUP TRAINING
ROOM
LOWER LEVEL

REV	DATE	DESCRIPTION
1		
2		
3		
4		
5		

DWG DATE: 1/24/2006
LOWER SITE PLAN
MASE ADDED
 SCALE: 1" = 40'
 DWG. BY: RAM /
 DWG ID#: 2 (owner) (topline) (MPP) (JMS)

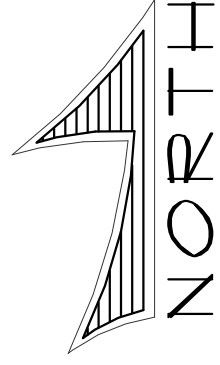
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L12



FERRY STREET

LANDS ACQUIRED BY THE NEW YORK STATE DEPT. OF TRANSPORTATION
(FOR ARTERIAL HWY. PURPOSES)

PROTESTANT EPISCOPAL DIOCESE
OF NEW YORK

SOUTH AVENUE

NEW
285 S.F.

FOOTPRINT
12149 S.F.

EXISTING
5458 S.F.

NEW
6429 S.F.

NOTE SHALLOW
BAY

35'-0"

11'-0"

19'-7 1/16"

RETAINING WALL

TOMPKINS HOSE W/ MASE
WITH LARGE GROUP TRAINING
ROOM
UPPER LEVEL

REV	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

UPPER SITE PLAN
MASE ADDED

SCALE: 1" = 40'

DWG. BY: RAM /

DWG ID#: 5 (insert Tompkins Hooses T MASE)

STATUS:

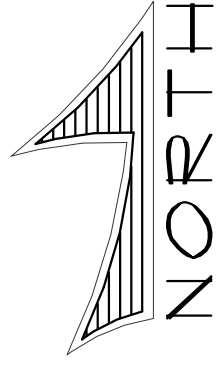
TOMPKINS HOSE

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BEACON, NY

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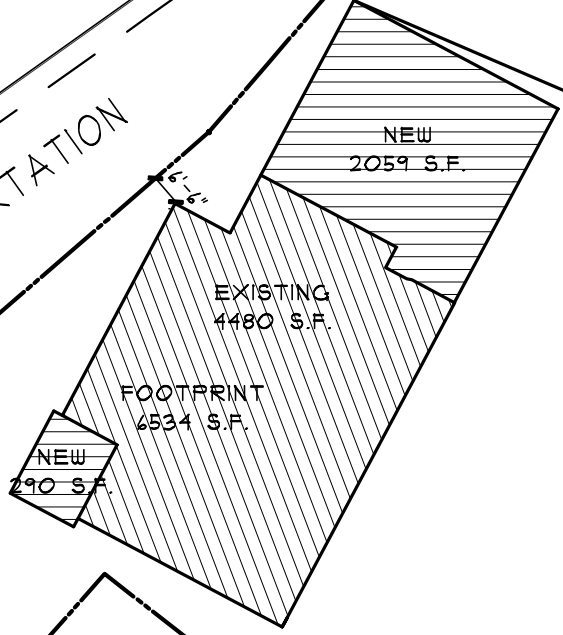
FERRY STREET

LANDS ACQUIRED BY THE NEW YORK STATE DEPT. OF TRANSPORTATION
(FOR ARTERIAL HWY. PURPOSES)

55 PARKING SPACES

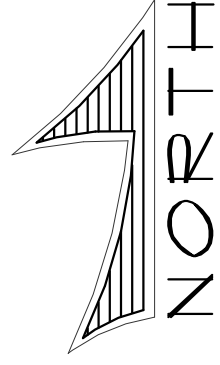
CHAIN LINK FENCE

PROTESTANT EPISCOPAL DIOCESE OF NEW YORK



TOMPKINS HOSE ALONE
WITH MINOR ADDITIONS, KEEPING
THE LARGE GROUP TRAINING
ROOM
LOWER LEVEL

SOUTH AVENUE



FERRY STREET

LANDS ACQUIRED BY THE NEW YORK STATE DEPT. OF TRANSPORTATION
(FOR ARTERIAL HWY. PURPOSES)

PROTESTANT EPISCOPAL DIOCESE
OF NEW YORK

SOUTH AVENUE



TOMPKINS HOSE ALONE
WITH MINOR ADDITIONS, KEEPING
THE LARGE GROUP TRAINING
ROOM
UPPER LEVEL

NO.	DATE	DESCRIPTION
1	1/24/2006	ISSUED FOR PERMIT
2		
3		
4		
5		
6		
7		
8		
9		
10		

DWG ID# 1/24/2006

UPPER SITE PLAN
MINOR ADDITIONS

SCALE: 1" = 40'

DWG. BY: RAM /

DWG. ID# 1/24/2006

TOMPKINS HOSE

CITY OF BEACON FIRE DEPARTMENT

BEACON, NY

MITCHELL ASSOCIATES
• ARCHITECTS •

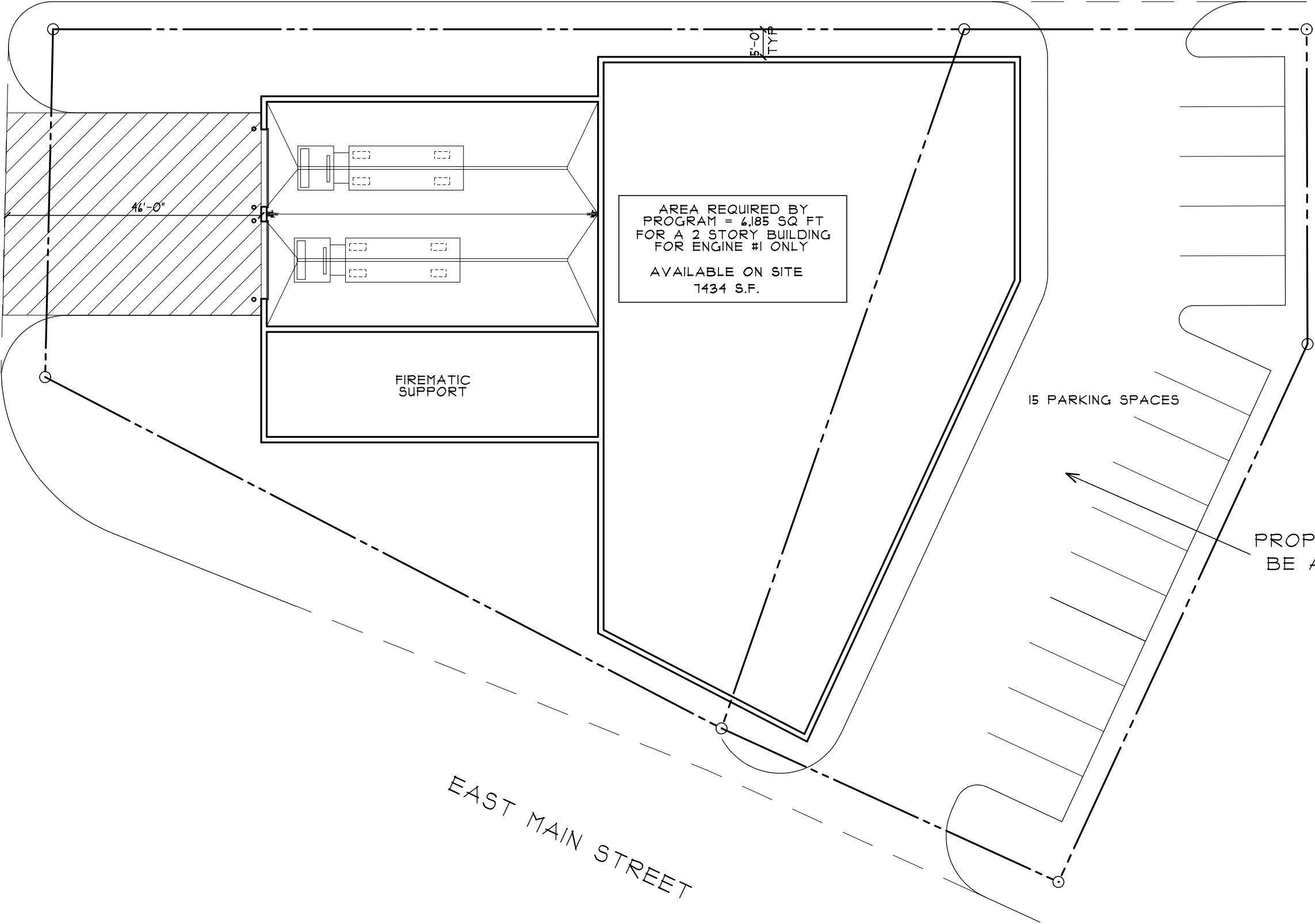
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LIBERTY STREET

LOT LINES ARE APPROXIMATED FROM A "PARCEL EXPLORER" IMAGE DATED 12/21/05

SPRING STREET

ENGINE #1 ONLY
2 STORY, WITH PROGRAM ADDITIONS
PLANS L12 & L13 SHOW MASE COMBINED WITH TOMPKINS HOSE



AREA REQUIRED BY PROGRAM = 4,185 SQ FT FOR A 2 STORY BUILDING FOR ENGINE #1 ONLY
AVAILABLE ON SITE 1434 S.F.

FIREMATIC SUPPORT

15 PARKING SPACES

PROPERTY TO BE ACQUIRED

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NO.	DATE	DESCRIPTION
1	11/24/2006	ENGINE #1 SITE

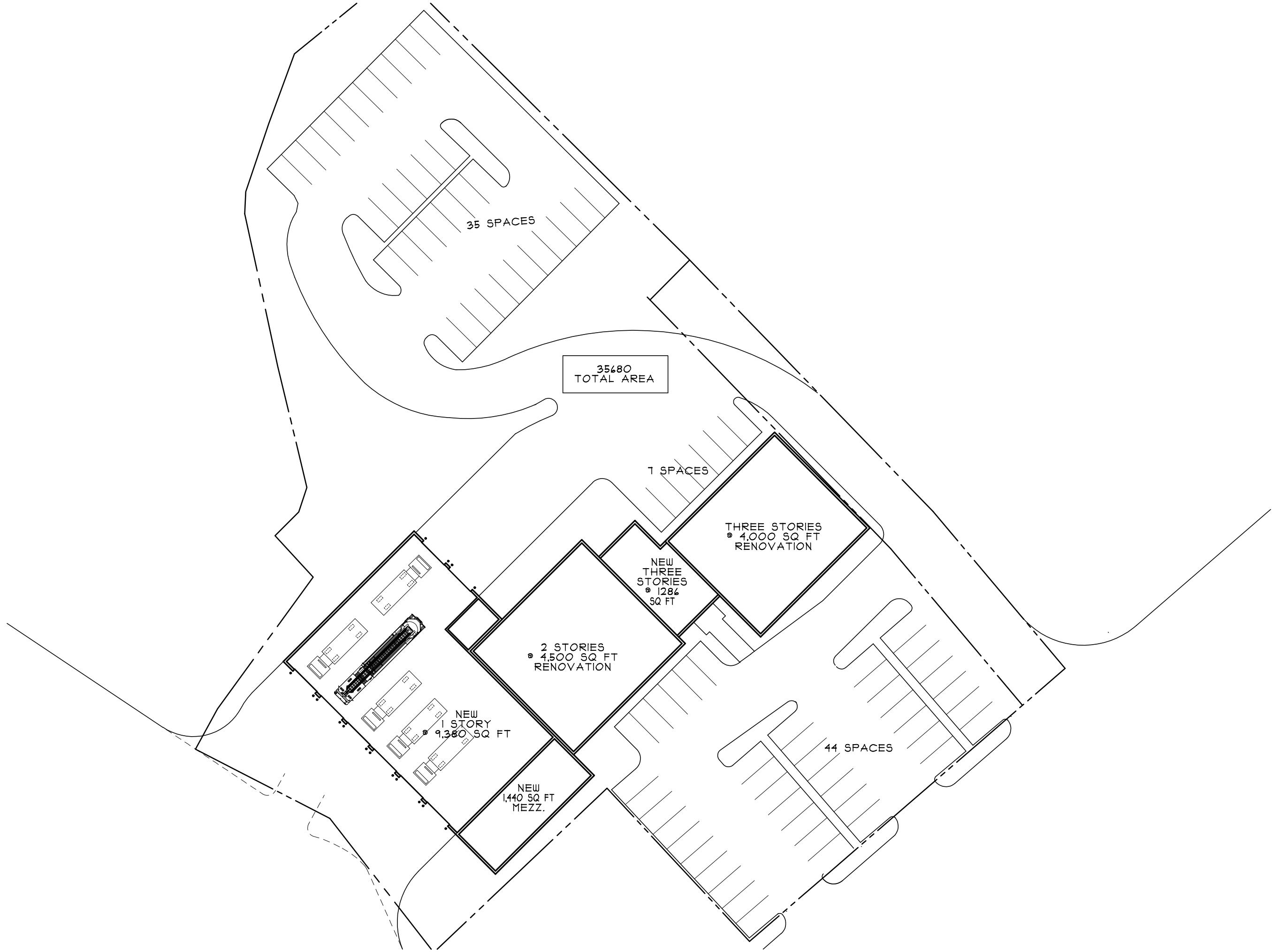
DWG DATE: 11/24/2006
SCALE: 1" = 20'
DWG. BY: RAM
DWG. ID#: i:\Beacon\ENGI_SITE
STATUS: PRELIMINARY

L16

NEW FIRE STATION
BEACON FIRE DEPARTMENT

MITCHELL ASSOCIATES
ARCHITECTS

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Beacon, NY 12516
(516) 210-6672 fax 765-2860



REV	DATE	DESCRIPTION
1	5/22/2006	ISSUED FOR PERMITS
2		
3		
4		
5		

DWG ID#: A:\beacon\brandley dye

BRANDLEY DYE WORKS
3 COMPANIES
SCALE: 1" = 40'
DWG. BY: RAM
STATUS: PRELIMINARY

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BEACON, NY
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**MITCHELL ASSOCIATES
ARCHITECTS**

Appendix E - Site Development Costs

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: SITE SPECIFIC PREMIUM COSTS
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY: E.H.
CHKD. BY: _____
DATE: 04/11/06
REV. DATE: _____

GSF 35,424

ITEM	DESCRIPTION	AMOUNT	TOTAL
1	SOUTH AVE PARK	\$50,000	
2	ELKS CLUB	\$25,000	
3	COMBINED SARGENT SITES	\$150,000	
4	SARGENT SITE 1 ALONE	\$250,000	
5	SARGENT SITE 2 ALONE	\$425,000	
6	MEMORIAL PARK	NO UNUSUAL COSTS ASSOCIATED WITH THIS SITE	
7	CHEM PRENE	\$125,000	
8	CITY HALL	\$500,000	
9	BRANDLY DYE WORKS	\$75,000	
10	578 MAIN	\$100,000	
11	SKI LODGE	NO UNUSUAL COSTS ASSOCIATED WITH THIS SITE	

THE ESTIMATES FOR EACH SCHEME INCLUDE A BASE SITE SUCH AS
MEMORIAL PARK OR THE SKI LODGE SITE.
EACH OF THE OTHER PROPOSED SITES WOULD REQUIRE ADDITIONAL WORK
TO MAKE THE SITES SUITABLE TO BUILD ON.
THE ABOVE TABLE OUTLINES PROBABLE ADDITIONAL COSTS ASSOCIATED WITH EACH SITE

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: SITE SPECIFIC COSTS
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY: E.H.
CHKD. BY: _____
DATE: 04/11/06
REV. DATE:

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	TOTAL
1.	<u>SOUTH AVE PARK</u>					
	RELOCATE BASKETBALL COURT	1	LS	50,000.00	50,000	50,000
2.	<u>ELKS CLUB</u>					
	DEMO EXISTING BUILDING	1	LS	25,000.00	25,000	25,000
3.	<u>COMBINED SARGENT SITES</u>					
	PARKING ON ONE SITE - BUILDING ON OPPOSITE SITE					
	CUT REQUIRED ON SITE 1	1	LS	75,000.00	75,000	
	FILL REQUIRED ON SITE 2	1	LS	25,000.00	25,000	
	RETAINING WALL REQUIRED ON SITE 2	1	LS	50,000.00	50,000	
						150,000
4.	<u>SARGENT SITE 1 ALONE</u>					
	CUT & GRADING REQUIRED ON SITE 1	1	LS	250,000.00	250,000	250,000
5.	<u>SARGENT SITE 2 ALONE</u>					
	FILL REQUIRED ON SITE 2	1	LS	25,000.00	25,000	
	RETAINING WALL REQUIRED ON SITE 2	1	LS	50,000.00	50,000	
	ADDITIONAL 500' OF ACCESS ROAD REQUIRED	1	LS	350,000.00	350,000	
						425,000
6.	<u>MEMORIAL PARK</u>					
	NO UNUSUAL COSTS ASSOCIATED WITH THIS SITE					

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: THREE COMPANIES, 2 STORIES, TIGHT SITE - L2
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY: E.H.
CHKD. BY: _____
DATE: 04/11/06
REV. DATE:

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	TOTAL	
<u>7.</u>	<u>CHEM PRENE</u>						
	ADDITIONAL GRADING	1	LS	125,000	125,000	125,000	
<u>8.</u>	<u>CITY HALL</u>						
	MAJOR GRADING AND STABILIZATION	1	LS	500,000	500,000	500,000	
<u>9.</u>	<u>BRANDLY DYE WORKS</u>						
	ADDITIONAL DEMOLITION	1	LS	25,000.00	25,000	75,000	
	ADDITIONAL GRADING & FILL	1	LS	50,000.00	50,000		
<u>10.</u>	<u>578 MAIN</u>						
	EXCESSIVE GRADING & SITE RETAINING	1	LS	50,000.00	50,000	100,000	
	ADDITIONAL DEMOLITION	1	LS	50,000.00	50,000		
<u>11.</u>	<u>SKI LODGE</u>	NO UNUSUAL COSTS ASSOCIATED WITH THIS SITE					

Appendix F - Site Observations

On 2/27/06 Chief Joseph, and Lieutenant Dexter brought me to see 13 locations being considered. These locations are:

1. South Avenue Park
2. The Elks Club
3. Sargent School Access Road, West Side
4. Sargent School Access Road, East Side
5. Former Ski Lodge
6. Left of, and adjacent Madame Brett
7. Memorial Park
8. Chem Prene
9. Adjacent City Hall
10. North Cedar Street
11. Old DMV site on Main Street
12. Brandley Dye Works
13. 578 Main Street

Lieutenant Dexter provided copies of aerial maps from the county system, as well as surveys of the Brandley Dye Works and the former ski lodge. In evaluating the sites, we need to keep in mind that they must, at a minimum, be big enough to hold the fire station and the required parking. The smallest site plan for all three companies (L3) required 76,791 sq ft. This also required a 3 story building. The 2 story version (L2) required 83,469 sq ft. For a site that would only hold Mase and Engine #1(L6), which assumes Tompkins stays where it is with the large meeting room, the site need 57,525 sq ft.

My observations of the sites were as follows:

1. **South Avenue Park** – The parcel fronts on South Avenue, and backs onto Wolcott Avenue, which is higher. There is a clear opening between the basketball and tennis courts of approximately 240 feet, and the depth to the path that runs parallel to South Avenue is approximately 285 feet. This provides approximately 68,400 sq ft of area. There is a possibility that a curb cut on Wolcott in the vicinity of the bocci courts could provide access to the rear portion of the building.
 - The site seems well suited for a for a 2 story station for Mase & Engine #1 (L6).
 - The site is well located within the city, but probably too close to Tompkins to house Mase & Engine #1 in a separate facility..
 - The site can undoubtedly support a central station for all three companies subsequent to a more detailed site analysis.
 - The site is City owned.
 - The site offers an amenity package potential that could enhance volunteer recruitment and retention.
2. **The Elks Club** – The parcel fronts Wolcott Avenue, opposite the entrance to the Sargent School access road. The parcel has beneficial frontage on Fulton Avenue, and frontage on Tioronda Avenue, which is probably not useful due to the low elevation of Tioronda. If the Elks remain on the site, and relinquish the frontage staring 50 feet in front of their building, the reasonable developable area would be approximately 220 feet deep, and 250 feet wide, or 55,000 sq ft.

- The site is only usable for a 2 story station for Mase & Engine #1 (L6) unless the Fire Department obtains the entire parcel.
- It may be possible to house all three companies if the Department obtains the ability to use the Elks parking area.
- The site is adequately located within the City.
- The site would need to be acquired.
- The site has a major vulnerability in its location opposite the school access road entrance. This represents both a significant potential delay in response, and a hazard potential associated with the school children.
- The parcel would be greatly enhanced as a site for a fire station if the entire parcel were purchased from the Elks.
- It would be highly recommended to install traffic control at the corner of the access road and Wolcott Avenue

3. **Sargent School Access Road, West Side** – The parcel has approximately 250 feet of frontage on the Sargent School access road, and a depth of approximately 300 feet, or 75,000 sq ft. The parcel rises gently from the access road at a slope that would not interfere with use for a fire station.

- The site is usable for a 2 story station for 2 or 3 companies (refer to site plans L1 & L2), but would be significantly improved if social parking could be located across the access road.
- The site is adequately located within the City.
- The site is owned by the School District and would have to be acquired.
- The site has a major vulnerability in its location opening onto the school access road entrance. This represents both a significant potential delay in response, and a hazard potential associated with the school children.
- There are no utilities currently in the access road, and would need to be extended.
- It would be highly recommended to install traffic control at the corner of the access road and Wolcott Avenue.
- It might be possible to relieve some of the traffic problem by constructing a separate access road adjacent the school access road.

4. **Sargent School Access Road, East Side** - This parcel has a frontage along the school access road of at least 250 feet. It has a depth of approximately 300 feet to Tioronda Avenue, but this is compromised by an approximate 40 drop.

- The site slope to Tioronda is a challenge. However, with further study, it might be determined that an access road can successfully be cut from Tioronda, starting close to Wolcott.
- The site might be usable for a 2 story station for 2 or 3 companies (refer to site plans L1 & L2). This will require further study, needing topographic maps. This would be significantly improved if social parking could be located across the access road.
- The site is adequately located within the City.
- The site is owned by the School District and would have to be acquired.
- The site has a major vulnerability in its location opening onto the school access road entrance. This represents both a significant potential delay in response, and a hazard potential associated with the school children.

- There are no utilities currently in the access road, and would need to be extended.
 - It would be highly recommended to install traffic control at the corner of the access road and Wolcott Avenue.
 - It is our initial recommendation that if the access road is considered, the station should be on the West side.
5. **Former Ski Lodge** – This 6 acre parcel has over 400 feet of frontage along Howland Avenue, and a usable depth of approximately 200 feet for a building, with land behind it available for additional parking & recreation, for at least 87,000 sq ft.
- The site is usable for a 2 story station for 2 or 3 companies (refer to site plans L1 & L2), and possibly for a one story building (see plan L4 & L4A).
 - The site seems easily developable due to slopes and soils.
 - There is no storm water collection at the site
 - The site is located near the extreme Southern end of the service area. This is likely to increase the response time both to and from the station.
 - The site is City owned.
 - The site offers an amenity package potential that could enhance volunteer recruitment and retention.
6. **Left of and adjacent Madame Brett** – This parcel has approximately 200 feet of frontage and at least 250 feet of usable depth, for 50,000 sq ft.
- The site is tight for a 2 story station for 2 companies; with a limit of approximately 40 parking spaces (refer to site plan L5 and remove one of the side parking lots).
 - The site is well located within the city.
 - The site fronts on a narrow street.
 - The site is not owned by the City.
 - Acquisition might be difficult.
 - Screening would need to be developed adjacent the Madame Brett property.
7. **Memorial Park** – This parcel, when formerly evaluated for the Police Department, had 196 feet of frontage, and an average depth of 226 feet, for 44,390 sq ft. Expanding the width of the site to a total of 370 feet would provide 83,620 sq ft.
- The site is usable for a 2 story station for 3 companies (L2).
 - The site seems easily developable due to slopes and soils.
 - The site does not seem to be currently used for park purposes.
 - Water and sewer have been stubbed into the site.
 - The site is City owned.
 - There may be existing deed restrictions, and/or a waiver may be needed from the NYS legislature.
 - There may be political opposition to the use of this site, perhaps related to a prior attempt to use the site for courts.
 - The site offers an amenity package potential that could enhance volunteer recruitment and retention.
8. **Chemprene** – This parcel fronts on Townsend Street at the corner of Desoto. It contains approximately 557 feet parallel to Townsend, and has a depth of approximately

260 feet, for 114,820 sq ft. There is a possibility that an additional means of egress can be obtained as an easement to travel along the internal road structure of Chemprene.

- The site is large enough for any development plans.
- The site offers an amenity package potential that could enhance volunteer recruitment and retention.
- The site would need to be acquired.
- The site is located near the extreme Northern end of the service area. This is likely to increase the response time both to and from the station.

9. **Adjacent City Hall** – This parcel has approximately 500 feet of frontage along Wolcott Avenue, with a depth varying from approximately 200 feet to 340 feet. It is difficult to state what the usable area is due to its severe topography.

- The site is below the level of the frontage road, and falls away steeply from the road
- The development potential of the site is severely limited due to the slopes.
- It is currently unclear that a usable fire station can be built on this parcel
- The site is well located within the city.
- The site is City owned.

10. **North Cedar Street** – This parcel has approximately 100 feet of frontage, and a depth of 250 feet. There is an adjacent parcel of approximately 50 foot width that would bring the entire parcel frontage to 150 feet, for 37,500 sq ft.

- The site is substantially smaller than what has been recommended in the study to date. We do not believe that a station for more than one company can be built on it.
- The site is well located within the city.
- The site fronts on narrow streets
- The site is not owned by the City.

11. **Old DMV site on Main Street** – This parcel has approximately 163 feet of frontage along Main Street and a depth of approximately 200 feet, for 32,600 sq ft.

- The site is substantially smaller than what has been recommended in the study to date. We do not believe that a station for more than one company can be built on it.
- The site is well located within the city.
- The site is not owned by the City.
- The City would lose downtown parking.

12. **Brandley Dye Works** – This parcel has approximately 140 feet of frontage on East Main Street and 212 feet of frontage on Leonard Street. It contains roughly 2 acres.

- The site contains two buildings that might be renovated, containing 21,000 gross square feet of space.

- The site seems to be able to adequately accommodate a central fire station to house all 3 companies along with parking for approximately 88 cars (see plan L17).
- The site is well located within the city.
- The site is not owned by the City.
- As a former industrial site, further consideration/ investigation would have to be done to determine the potential for remediation.
- Renovation of this site would have great significance for the redevelopment of this portion of the City.
- The site's adjacency to the Fishkill Creek and the footbridge could create an amenity to enhance recruitment and retention as well as an amenity for the general public.

13. **578 Main Street** – This parcel has approximately 270 feet of frontage on Ackerman Street and a depth of approximately 200 feet to Herbert Street, for 54,000 sq ft.

- The site may be large enough to hold Mase and Engine #1(L6).
- The site is well located within the city.
- The site appears to be located within a flood plain
- Demolition costs could be significant
- Parking would need to be located across the street and across the railroad tracks, delaying response time.
- Retaining walls would need to be built.
- The site is not owned by the City.

14. **Liberty, East Main & Spring Streets** – This parcel has approximately 226 feet of frontage on Spring Street, 63 feet on Liberty 205 feet on Liberty (assuming the acquisition of the adjacent parcel), with 24,600 sq ft.

- The site is only usable as a replacement location for Engine #1 (see plan L16).
- Building a new station for Engine #1 would max out the site and there would
- The site is a former gas station and may have environmental issues
- The site is owned by the fire company and would need to be acquired by the City.
- The adjacent residential parcel would need to be acquired and demolished.
- Parking would be extremely tight, and limited to 15 spaces.

Appendix G - Aerial Views

South Avenue Park



Atlas - Printable Map

Elks



PRINT MAP

Sargent West





Sargent East

PRINT MAP

Ski Lodge



Madame Brett



Memorial Park



PRINT MAP

Chem Prene



PRINT MAP

City Hall



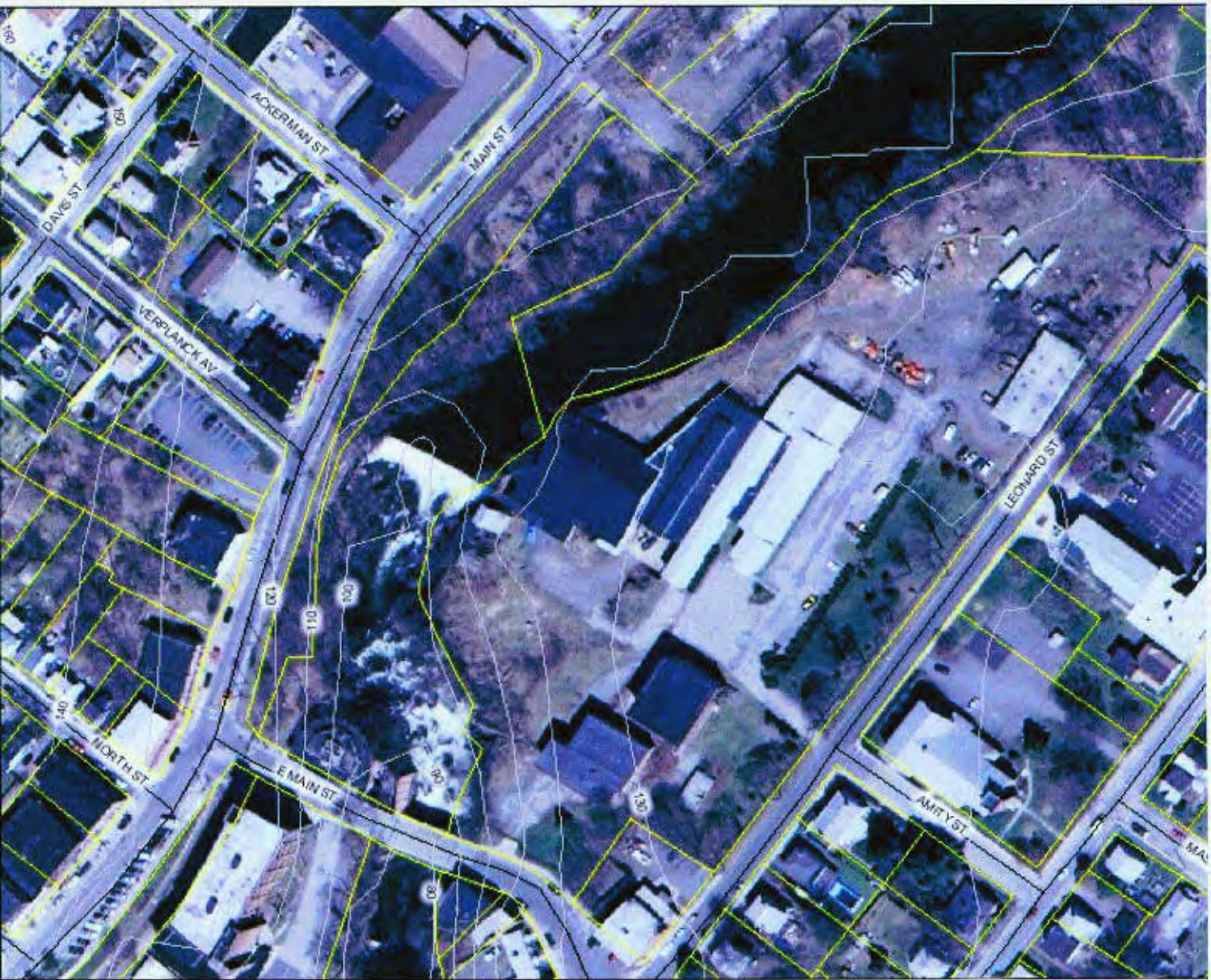
PRINT MAP

Old DMV



PRINT MAP

Brandley Dye Works



PRINT MAP

578 Main



Appendix H - Estimates

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: TOMKINS HOSE ALONE WITH MINOR ADDITIONS - L-14, L-15
WITHOUT LARGE GROUP MEETING ROOM
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY:
CHKD. BY: E.H. _____
DATE: _____
REV. DATE: 04/11/06

TOTAL PROJECT BUDGET \$2,782,900

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: TOMKINS HOSE ALONE WITH MINOR ADDITIONS - L-14, L-15
WITHOUT LARGE GROUP MEETING ROOM
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY:
CHKD. BY: E.H.
DATE: _____
REV. DATE: 04/11/06

1. ALL PRICES ARE BASED ON SPRING 2006 CONSTRUCTION COSTS AND ESCALATED TO.
A THEORETICAL START OF CONSTRUCTION OF SPRING 2007

2. THE FOLLOWING ITEMS ARE NOT INCLUDED:

- a) PROFESSIONAL FEES
- b) FURNITURE, FURNISHINGS AND MOVABLE EQUIPMENT
- c) HAZARDOUS MATERIAL ABATEMENT
- d) CONSTRUCTION CONTINGENCY COSTS
- e) LAND ACQUISITION COSTS

3. ABNORMAL SUBSURFACE CONDITIONS ARE NOT INCLUDED.

4. THIS ESTIMATE IS BASED ON;

SKETCHES	DATED
L2	1/23/06
L5	1/23/06
L8	3/3/06
L14	3/3/06
L15	3/3/06
L16	3/3/06
L17	3/2/06

A SITE VISIT CONDUCTED FEBRUARY 27, 2006

A NARRATIVE ENTITLED "BEACON FIRE DEPARTMENT OPTIONS" DATED FEBRUARY 9, 2006

ARIAL MAPS OF SITE OPTIONS PROVIDED MARCH 22, 2006

SPACE/USAGE ANALYSIS FOR EACH BUILDING OPTION PROVIDED BY MITCHELL ASSOCIATES

5. THE ESTIMATE IS BASED ON A BASE SITE SUCH AS MEMORIAL PARK OR
THE SKI LODGE.

ESTIMATES SITE COSTS SHOULD BE ADDED TO THE OTHER SITES AS
SITE SPECIFIC PREMIUMS WHERE NECESSARY.

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: TOMKINS HOSE ALONE WITH MINOR ADDITIONS - L-14, L-15
WITHOUT LARGE GROUP MEETING ROOM
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY:
CHKD. BY: E.H.
DATE: _____
REV. DATE: 04/11/06

GSF 13,030

ITEM	DESCRIPTION	AMOUNT		TOTAL	\$/sf
1	SITWORK	\$175,776			\$13.49
2	FOUNDATIONS	\$31,860			\$2.45
3	SLAB-ON-GRADE	\$38,250			\$2.94
4	ELEVATED FLOOR SLABS	\$22,313			\$1.71
5	ROOF SYSTEM	\$85,276			\$6.54
6	FAÇADE	\$652,400			\$50.07
7	INTERIOR FIT-OUT	\$164,451			\$12.62
8	VERTICAL CIRCULATION	\$97,240			\$7.46
9	SPECIALTIES & EQUIPMENT	\$76,500			\$5.87
10	PLUMBING	\$80,000			\$6.14
11	FIRE PROTECTION	\$28,235			\$2.17
12	HVAC	\$151,990			\$11.66
13	ELECTRIC	\$188,925			\$14.50
	SUBTOTAL		\$1,793,216		
	GENERAL CONDITIONS - 10.0%		\$179,284		
	SUBTOTAL		\$1,972,500		
	G.C. OH & P - 21.0%		\$414,200		
	SUBTOTAL		\$2,386,700		
	DESIGN CONTINGENCY - 10.0%		\$238,700		
	SUBTOTAL		\$2,625,400	COST TODAY	\$201.49
	ESCALATION - 6.0%		\$157,500		
	TOTAL COST FOR 2007 GROUNDBREAKING			\$2,782,900	\$214

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: TOMKINS HOSE ALONE WITH MINOR ADDITIONS - L-14, L-15
WITHOUT LARGE GROUP MEETING ROOM
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY:
CHKD. BY: E.H.
DATE:
REV. DATE: 04/11/06

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	TOTAL
1.	<u>SITWORK</u>					
a.	Clear & Grub Site	-0	SF	0.15		
b.	Remove Paving	10,000	SF	0.50	5,000	
c.	Utilities					
	.1 Water Service	-0	LS	10,000.00		
	.2 Fire Service	-0	LS	10,000.00		
	.3 Sewer	-0	LS	30,000.00		
	.4 Storm	-0	LS	20,000.00		
	.5 Electric	-0	LS	20,000.00		
d.	Extra-Heavy Duty Asphalt Paving	200	SY	30.00	6,000	
e.	Heavy Duty Asphalt Paving	580	SY	25.00	14,500	
f.	Curb	400	LF	20.00	8,000	
g.	Sidewalk	1,000	SF	10.00	10,000	
h.	Topsoil & Seed	9,383	SF	0.20	1,877	
i.	Demolition of Existing Interior Space	10,133	SF	3.00	30,399	
j.	Site Preparation	1	LS	100,000.00	100,000	
						175,776
2.	<u>FOUNDATIONS</u>					
a.	Excavation	62	CY	15.00	930	
b.	Backfill	16	CY	15.00	240	
c.	Dispose of Excess Material	57	CY	20.00	1,140	
d.	Footings	34	CY	350.00	11,900	
e.	Foundation Walls	17	CY	450.00	7,650	
f.	Elevator Pit	1	LS	10,000.00	10,000	
						31,860
3.	<u>SLAB-ON-GRADE</u>					
a.	SOG at Apparatus Bay	-0	SF	15.00		
b.	SOG at Balance of Building	5,100	SF	7.50	38,250	
						38,250

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: TOMKINS HOSE ALONE WITH MINOR ADDITIONS - L-14, L-15
WITHOUT LARGE GROUP MEETING ROOM
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY:
CHKD. BY: E.H.
DATE: _____
REV. DATE: 04/11/06

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	TOTAL
4.	<u>ELEVATED FLOOR SLABS</u>					
	a. Steel Framing at 10# per SF	8,500	Lbs	1.75	14,875	
	b. Metal Deck	850	SF	3.75	3,188	
	c. Concrete on Metal Deck	850	SF	5.00	4,250	
						22,313
5.	<u>ROOF SYSTEM</u>					
	a. Steel Framing at 8# per SF	21,000	Lbs	1.75	36,750	
	b. Metal Deck	2,623	SF	3.50	9,181	
	c. Roofing & Insulation	2,623	SF	15.00	39,345	
						85,276
6.	<u>FAÇADE</u>					
	a. Strip EIFS From Existing Façade	8,000	SF	1.50	12,000	
	b. Remove Windows	2,400	SF	1.00	2,400	
	c. Brick Veneer	8,000	SF	25.00	200,000	
	d. New Masonry Façade	4,200	SF	50.00	210,000	
	e. Windows	3,500	SF	55.00	192,500	
	f. Apparatus Doors	3	EA	4,000.00	12,000	
	g. Exterior HM Doors, Frames & Hardware					
	.1 Single	4	EA	1,200.00	4,800	
	.2 Double	1	PR	2,200.00	2,200	
	h. Aluminum & Glass Doors	2	PR	5,000.00	10,000	
	i. Aluminum & Glass Storefront & Vestibule	100	SF	55.00	5,500	
	j. Access Doors	1	LS	1,000.00	1,000	
						652,400

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: TOMKINS HOSE ALONE WITH MINOR ADDITIONS - L-14, L-15
WITHOUT LARGE GROUP MEETING ROOM
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY:
CHKD. BY: E.H.
DATE:
REV. DATE: 04/11/06

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	TOTAL
<u>7.</u>	<u>INTERIOR FIT-OUT</u>					
a.	Firematic Support	1,217	SF	8.89	10,819	
b.	Mezzanine	-0-	SF	14.00		
c.	Administration Areas	1,156	SF	17.00	19,652	
d.	Volunteer Fire Fighters areas	2,013	SF	13.00	26,169	
e.	Paid Personnel	656	SF	15.00	9,840	
f.	Public Spaces & Meeting Rooms					
	Public Entry	168	SF	30.00	5,040	
	Coat Room	51	SF	36.00	1,836	
	Museum	80	SF	30.00	2,400	
	Small Training Room	750	SF	9.00	6,750	
	Small Training Room A/V Storage	50	SF	15.00	750	
	Small Training Room Table Storage	100	SF	30.00	3,000	
	Kitchen	100	SF	29.00	2,900	
	Pantry	30	SF	20.00	600	
	Public Restrooms	280	SF	32.00	8,960	
g.	Misc Space	730	SF	14.00	10,220	
h.	Vertical Circulation					
	Stairwells	696	SF	17.00	11,832	
	Elevator Machine Room	82	SF	24.00	1,968	
	Elevator Foyers	160	SF	31.00	4,960	
i.	Office Area Circulation	1,294	SF	20.00	25,880	
j.	Apparatus Bay	2,175	SF	5.00	10,875	
						164,451

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: TOMKINS HOSE ALONE WITH MINOR ADDITIONS - L-14, L-15
WITHOUT LARGE GROUP MEETING ROOM
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY:
CHKD. BY: E.H.
DATE:
REV. DATE: 04/11/06

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	TOTAL
<u>8.</u>	<u>VERTICAL CIRCULATION</u>					
	a. 2-Stop Hydraulic Elevator	1	EA	60,000.00	60,000	
	b. Stairs - Complete	392	RFT	95.00	37,240	
						97,240
<u>9.</u>	<u>SPECIALTIES & EQUIPMENT</u>					
	a. Kitchen Equipment	1	LS	20,000.00	20,000	
	b. Bunker Gear Lockers	40	EA	275.00	11,000	
	c. Other Lockers	1	LS	6,000.00	6,000	
	d. Window Treatments	3,500	SF	5.00	17,500	
	e. Closet Poles & Shelves	1	LS	1,000.00	1,000	
	f. Storage Shelving	1	LS	7,500.00	7,500	
	g. Toilet Partitions	1	LS	5,000.00	5,000	
	h. Toilet Accessories	1	LS	2,500.00	2,500	
	i. Signage	1	LS	1,000.00	1,000	
	j. Fire Fighters Medallion	1	LS	5,000.00	5,000	
						76,500
<u>10.</u>	<u>PLUMBING</u>					
	a. Fixtures	20	EA	4,000.00	80,000	
	b. Radiant Heating at Apparatus Bay		NIC			
	c. Trench Drains		NIC			
						80,000
<u>11.</u>	<u>FIRE PROTECTION</u>					
	a. Apparatus Bay	2,175	SF	3.00	6,525	
	b. Offices & Common Areas	10,855	SF	2.00	21,710	
						28,235
<u>12.</u>	<u>HVAC</u>					
	a. Apparatus Bay	2,175	SF	5.00	10,875	
	b. Offices & Common Areas	10,855	SF	13.00	141,115	
						151,990

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: TOMKINS HOSE ALONE WITH MINOR ADDITIONS - L-14, L-15
WITHOUT LARGE GROUP MEETING ROOM
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY:
CHKD. BY: E.H.
DATE:
REV. DATE: 04/11/06

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	TOTAL
13.	<u>ELECTRIC</u>					
	a. Apparatus Bay	2,175	SF	12.00	26,100	
	b. Offices & Common Areas	10,855	SF	15.00	162,825	
						188,925

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: TOMKINS HOSE ALONE WITH MINOR ADDITIONS - L-14, L-15
KEEPING LARGE GROUP MEETING ROOM
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY:
CHKD. BY: E.H.
DATE: _____
REV. DATE: 04/11/06

TOTAL PROJECT BUDGET \$3,338,500

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: TOMKINS HOSE ALONE WITH MINOR ADDITIONS - L-14, L-15
KEEPING LARGE GROUP MEETING ROOM
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY:
CHKD. BY: E.H.
DATE: _____
REV. DATE: 04/11/06

1. ALL PRICES ARE BASED ON SPRING 2006 CONSTRUCTION COSTS AND ESCALATED TO.
A THEORETICAL START OF CONSTRUCTION OF SPRING 2007

2. THE FOLLOWING ITEMS ARE NOT INCLUDED:

- a) PROFESSIONAL FEES
- b) FURNITURE, FURNISHINGS AND MOVABLE EQUIPMENT
- c) HAZARDOUS MATERIAL ABATEMENT
- d) CONSTRUCTION CONTINGENCY COSTS
- e) LAND ACQUISITION COSTS

3. ABNORMAL SUBSURFACE CONDITIONS ARE NOT INCLUDED.

4. THIS ESTIMATE IS BASED ON;

SKETCHES	DATED
L2	1/23/06
L5	1/23/06
L8	3/3/06
L14	3/3/06
L15	3/3/06
L16	3/3/06
L17	3/2/06

A SITE VISIT CONDUCTED FEBRUARY 27, 2006
A NARRATIVE ENTITLED "BEACON FIRE DEPARTMENT OPTIONS" DATED FEBRUARY 9, 2006
AERIAL MAPS OF SITE OPTIONS PROVIDED MARCH 22, 2006
SPACE/USAGE ANALYSIS FOR EACH BUILDING OPTION PROVIDED BY MITCHELL ASSOCIATES

5. THE ESTIMATE IS BASED ON A BASE SITE SUCH AS MEMORIAL PARK OR
THE SKI LODGE.
ESTIMATES SITE COSTS SHOULD BE ADDED TO THE OTHER SITES AS
SITE SPECIFIC PREMIUMS WHERE NECESSARY.

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: TOMKINS HOSE ALONE WITH MINOR ADDITIONS - L-14, L-15
KEEPING LARGE GROUP MEETING ROOM
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY:
CHKD. BY: E.H.
DATE: _____
REV. DATE: 04/11/06

ITEM	DESCRIPTION	AMOUNT	GSF 16,163	
			TOTAL	\$/SF
1	SITWORK	\$175,149		10.84
2	FOUNDATIONS	\$35,815		2.22
3	SLAB-ON-GRADE	\$46,365		2.87
4	ELEVATED FLOOR SLABS	\$61,662		3.82
5	ROOF SYSTEM	\$133,998		8.29
6	FAÇADE	\$731,000		45.23
7	INTERIOR FIT-OUT	\$207,797		12.86
8	VERTICAL CIRCULATION	\$97,240		6.02
9	SPECIALTIES & EQUIPMENT	\$79,000		4.89
10	PLUMBING	\$120,000		7.42
11	FIRE PROTECTION	\$34,501		2.13
12	HVAC	\$192,719		11.92
13	ELECTRIC	\$235,920		14.60
	SUBTOTAL		\$2,151,166	
	GENERAL CONDITIONS - 10.0%		\$215,134	
	SUBTOTAL		\$2,366,300	
	G.C. OH & P - 21.0%		\$496,900	
	SUBTOTAL		\$2,863,200	
	DESIGN CONTINGENCY - 10.0%		\$286,300	
	SUBTOTAL		\$3,149,500	COST TODAY
	ESCALATION - 6.0%		\$189,000	\$194.86
	TOTAL COST FOR 2007 GROUNDBREAKING		\$3,338,500	\$207

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: TOMKINS HOSE ALONE WITH MINOR ADDITIONS - L-14, L-15
KEEPING LARGE GROUP MEETING ROOM
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY:
CHKD. BY: E.H.
DATE:
REV. DATE: 04/11/06

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	TOTAL
1.	<u>SITWORK</u>					
a.	Clear & Grub Site	-0	SF	0.15		
b.	Remove Paving	10,000	SF	0.50	5,000	
c.	Utilities					
	.1 Water Service	-0	LS	10,000.00		
	.2 Fire Service	-0	LS	10,000.00		
	.3 Sewer	-0	LS	30,000.00		
	.4 Storm	-0	LS	20,000.00		
	.5 Electric	-0	LS	20,000.00		
d.	Extra-Heavy Duty Asphalt Paving	200	SY	30.00	6,000	
e.	Heavy Duty Asphalt Paving	580	SY	25.00	14,500	
f.	Curb	400	LF	20.00	8,000	
g.	Sidewalk	1,000	SF	10.00	10,000	
h.	Topsoil & Seed	6,250	SF	0.20	1,250	
i.	Demolition of Existing Interior Space	10,133	SF	3.00	30,399	
j.	Site Preparation	1	LS	100,000.00	100,000	175,149
2.	<u>FOUNDATIONS</u>					
a.	Excavation	77	CY	15.00	1,155	
b.	Backfill	20	CY	15.00	300	
c.	Dispose of Excess Material	68	CY	20.00	1,360	
d.	Footings	40	CY	350.00	14,000	
e.	Foundation Walls	20	CY	450.00	9,000	
f.	Elevator Pit	1	LS	10,000.00	10,000	35,815
3.	<u>SLAB-ON-GRADE</u>					
a.	SOG at Apparatus Bay	-0	SF	15.00		
b.	SOG at Balance of Building	6,182	SF	7.50	46,365	46,365

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: TOMKINS HOSE ALONE WITH MINOR ADDITIONS - L-14, L-15
KEEPING LARGE GROUP MEETING ROOM
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY:
CHKD. BY: E.H.
DATE: _____
REV. DATE: 04/11/06

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	TOTAL
4.	<u>ELEVATED FLOOR SLABS</u>					
	a. Steel Framing at 10# per SF	23,490	Lbs	1.75	41,108	
	b. Metal Deck	2,349	SF	3.75	8,809	
	c. Concrete on Metal Deck	2,349	SF	5.00	11,745	
						61,662
5.	<u>ROOF SYSTEM</u>					
	a. Steel Framing at 8# per SF	32,984	Lbs	1.75	57,722	
	b. Metal Deck	4,123	SF	3.50	14,431	
	c. Roofing & Insulation	4,123	SF	15.00	61,845	
						133,998
6.	<u>FAÇADE</u>					
	a. Strip EIFS From Existing Façade	8,000	SF	1.50	12,000	
	b. Remove Windows	2,400	SF	1.00	2,400	
	c. Brick Veneer	8,000	SF	25.00	200,000	
	d. New Masonry Façade	5,130	SF	50.00	256,500	
	e. Windows	4,000	SF	55.00	220,000	
	f. Apparatus Doors	3	EA	4,000.00	12,000	
	g. Exterior HM Doors, Frames & Hardware					
	.1 Single	6	EA	1,200.00	7,200	
	.2 Double	2	PR	2,200.00	4,400	
	h. Aluminum & Glass Doors	2	PR	5,000.00	10,000	
	i. Aluminum & Glass Storefront & Vestibule	100	SF	55.00	5,500	
	j. Access Doors	1	LS	1,000.00	1,000	
						731,000

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: TOMKINS HOSE ALONE WITH MINOR ADDITIONS - L-14, L-15
KEEPING LARGE GROUP MEETING ROOM
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY:
CHKD. BY: E.H.
DATE:
REV. DATE: 04/11/06

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	TOTAL
<u>7.</u>	<u>INTERIOR FIT-OUT</u>					
a.	Firematic Support	1,217	SF	8.89	10,819	
b.	Mezzanine	-0-	SF	14.00		
c.	Administration Areas	1,156	SF	17.00	19,652	
d.	Volunteer Fire Fighters areas	2,013	SF	13.00	26,169	
e.	Paid Personnel	656	SF	15.00	9,840	
f.	Public Spaces & Meeting Rooms					
	Public Entry	168	SF	30.00	5,040	
	Coat Room	51	SF	36.00	1,836	
	Museum	80	SF	30.00	2,400	
	Large Group Training	2,500	SF	9.00	22,500	
	Large Group Training - Chair & Table Storage	60	SF	15.00	900	
	Large Group Training - AV Storage	247	SF	30.00	7,410	
	Kitchen	400	SF	29.00	11,600	
	Pantry	100	SF	20.00	2,000	
	Public Restrooms	413	SF	32.00	13,216	
g.	Misc Space	730	SF	14.00	10,220	
h.	Vertical Circulation					
	Stairwells	696	SF	17.00	11,832	
	Elevator Machine Room	82	SF	24.00	1,968	
	Elevator Foyers	160	SF	31.00	4,960	
i.	Office Area Circulation	1,728	SF	20.00	34,560	
j.	Apparatus Bay	2,175	SF	5.00	10,875	
		14,632				
						207,797

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: TOMKINS HOSE ALONE WITH MINOR ADDITIONS - L-14, L-15
KEEPING LARGE GROUP MEETING ROOM
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY:
CHKD. BY: E.H.
DATE:
REV. DATE: 04/11/06

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	TOTAL
<u>8.</u>	<u>VERTICAL CIRCULATION</u>					
	a. 2-Stop Hydraulic Elevator	1	EA	60,000.00	60,000	
	b. Stairs - Complete	392	RFT	95.00	37,240	
						97,240
<u>9.</u>	<u>SPECIALTIES & EQUIPMENT</u>					
	a. Kitchen Equipment	1	LS	20,000.00	20,000	
	b. Bunker Gear Lockers	40	EA	275.00	11,000	
	c. Other Lockers	1	LS	6,000.00	6,000	
	d. Window Treatments	4,000	SF	5.00	20,000	
	e. Closet Poles & Shelves	1	LS	1,000.00	1,000	
	f. Storage Shelving	1	LS	7,500.00	7,500	
	g. Toilet Partitions	1	LS	5,000.00	5,000	
	h. Toilet Accessories	1	LS	2,500.00	2,500	
	i. Signage	1	LS	1,000.00	1,000	
	j. Fire Fighters Medallion	1	LS	5,000.00	5,000	
						79,000
<u>10.</u>	<u>PLUMBING</u>					
	a. Fixtures	30	EA	4,000.00	120,000	
	b. Radiant Heating at Apparatus Bay		NIC			
	c. Trench Drains		NIC			
						120,000
<u>11.</u>	<u>FIRE PROTECTION</u>					
	a. Apparatus Bay	2,175	SF	3.00	6,525	
	b. Offices & Common Areas	13,988	SF	2.00	27,976	
						34,501
<u>12.</u>	<u>HVAC</u>					
	a. Apparatus Bay	2,175	SF	5.00	10,875	
	b. Offices & Common Areas	13,988	SF	13.00	181,844	
						192,719

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: TOMKINS HOSE ALONE WITH MINOR ADDITIONS - L-14, L-15
KEEPING LARGE GROUP MEETING ROOM
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY:
CHKD. BY: E.H.
DATE:
REV. DATE: 04/11/06

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	TOTAL
13.	<u>ELECTRIC</u>					
	a. Apparatus Bay	2,175	SF	12.00	26,100	
	b. Offices & Common Areas	13,988	SF	15.00	209,820	
						235,920

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: ENGINE #1 ONLY, 2-STORY WITH PROGRAM ADDITIONS - L-16
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY: E.H.
CHKD. BY: _____
DATE: 04/11/06
REV. DATE:

TOTAL PROJECT BUDGET \$3,838,500

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: ENGINE #1 ONLY, 2-STORY WITH PROGRAM ADDITIONS - L-16
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY: E.H.
CHKD. BY: _____
DATE: 04/11/06
REV. DATE:

1. ALL PRICES ARE BASED ON SPRING 2006 CONSTRUCTION COSTS AND ESCALATED TO A THEORETICAL START OF CONSTRUCTION OF SPRING 2007

2. THE FOLLOWING ITEMS ARE NOT INCLUDED:

- a) PROFESSIONAL FEES
- b) FURNITURE, FURNISHINGS AND MOVABLE EQUIPMENT
- c) HAZARDOUS MATERIAL ABATEMENT
- d) CONSTRUCTION CONTINGENCY COSTS
- e) LAND ACQUISITION COSTS

3. ABNORMAL SUBSURFACE CONDITIONS ARE NOT INCLUDED.

4. THIS ESTIMATE IS BASED ON;

SKETCHES	DATED
L2	1/23/06
L5	1/23/06
L8	3/3/06
L14	3/3/06
L15	3/3/06
L16	3/3/06
L17	3/2/06

A SITE VISIT CONDUCTED FEBRUARY 27, 2006
A NARRATIVE ENTITLED "BEACON FIRE DEPARTMENT OPTIONS" DATED FEBRUARY 9, 2006
AERIAL MAPS OF SITE OPTIONS PROVIDED MARCH 22, 2006
SPACE/USAGE ANALYSIS FOR EACH BUILDING OPTION PROVIDED BY MITCHELL ASSOCIATES

5. THE ESTIMATE IS BASED ON A BASE SITE SUCH AS MEMORIAL PARK OR THE SKI LODGE.
ESTIMATES SITE COSTS SHOULD BE ADDED TO THE OTHER SITES AS SITE SPECIFIC PREMIUMS WHERE NECESSARY.

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: ENGINE #1 ONLY, 2-STORY WITH PROGRAM ADDITIONS - L-16
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY: E.H.
CHKD. BY: _____
DATE: 04/11/06
REV. DATE: _____

GSF 14,550

ITEM	DESCRIPTION	AMOUNT		TOTAL	\$/sf
1	SITWORK	\$282,595			\$19.42
2	FOUNDATIONS	\$119,984			\$8.25
3	SLAB-ON-GRADE	\$85,860			\$5.90
4	ELEVATED FLOOR SLABS	\$138,128			\$9.49
5	ROOF SYSTEM	\$301,860			\$20.75
6	FAÇADE	\$693,600			\$47.67
7	INTERIOR FIT-OUT	\$178,876			\$12.29
8	VERTICAL CIRCULATION	\$97,240			\$6.68
9	SPECIALTIES & EQUIPMENT	\$53,750			\$3.69
10	PLUMBING	\$120,950			\$8.29
11	FIRE PROTECTION	\$32,700			\$2.25
12	HVAC	\$160,350			\$11.02
13	ELECTRIC	\$207,450			\$14.26
	SUBTOTAL		\$2,473,343		
	GENERAL CONDITIONS - 10.0%		\$247,357		
	SUBTOTAL		\$2,720,700		
	G.C. OH & P - 21.0%		\$571,300		
	SUBTOTAL		\$3,292,000		
	DESIGN CONTINGENCY - 10.0%		\$329,200		
	SUBTOTAL		\$3,621,200	COST TODAY	\$248.88
	ESCALATION - 6.0%		\$217,300		
	TOTAL COST FOR 2007 GROUNDBREAKING		<u>\$3,838,500</u>		<u>\$264</u>

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: ENGINE #1 ONLY, 2-STORY WITH PROGRAM ADDITIONS - L-16
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY: E.H.
CHKD. BY: _____
DATE: 04/11/06
REV. DATE:

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	TOTAL
1.	<u>SITWORK</u>					
a.	Clear & Grub Site	24,630	SF	0.15	3,695	
b.	Strip Topsoil	10,000	SF	0.25	2,500	
c.	Utilities					
	.1 Water Service	1	LS	10,000.00	10,000	
	.2 Fire Service	1	LS	10,000.00	10,000	
	.3 Sewer	1	LS	30,000.00	30,000	
	.4 Storm	1	LS	20,000.00	20,000	
	.5 Electric	1	LS	20,000.00	20,000	
d.	Extra-Heavy Duty Asphalt Paving	200	SY	30.00	6,000	
e.	Heavy Duty Asphalt Paving	720	SY	25.00	18,000	
f.	Curb	434	LF	20.00	8,680	
g.	Sidewalk	3,500	SF	10.00	35,000	
h.	Topsoil & Seed	3,600	SF	0.20	720	
i.	Demo Existing House	1	LS	10,000.00	10,000	
j.	Remove Existing Asphalt Paving	16,000	SF	0.50	8,000	
k.	Remove & Dispose of Extg Fuel Oil Tank	NIC			NIC	
l.	Site Preparation	1	LS	100,000.00	100,000	
						282,595
2.	<u>FOUNDATIONS</u>					
a.	Excavation	360	CY	15.00	5,400	
b.	Backfill	184	CY	15.00	2,760	
c.	Dispose of Excess Material	211	CY	20.00	4,224	
d.	Footings	176	CY	350.00	61,600	
e.	Foundation Walls	80	CY	450.00	36,000	
f.	Elevator Pit	1	LS	10,000.00	10,000	
						119,984
3.	<u>SLAB-ON-GRADE</u>					
a.	SOG at Apparatus Bay	3,600	SF	12.00	43,200	
b.	SOG at Balance of Building	5,688	SF	7.50	42,660	
						85,860

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: ENGINE #1 ONLY, 2-STORY WITH PROGRAM ADDITIONS - L-16
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY: E.H.
CHKD. BY: _____
DATE: 04/11/06
REV. DATE:

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	TOTAL
4.	<u>ELEVATED FLOOR SLABS</u>					
	a. Steel Framing at 10# per SF	52,620	Lbs	1.75	92,085	
	b. Metal Deck	5,262	SF	3.75	19,733	
	c. Concrete on Metal Deck	5,262	SF	5.00	26,310	
						138,128
5.	<u>ROOF SYSTEM</u>					
	a. Steel Framing at 8# per SF	74,304	Lbs	1.75	130,032	
	b. Metal Deck	9,288	SF	3.50	32,508	
	c. Roofing & Insulation	9,288	SF	15.00	139,320	
						301,860
6.	<u>FAÇADE</u>					
	a. Masonry Façade	10,000	SF	50.00	500,000	
	b. Windows	3,000	SF	55.00	165,000	
	c. Apparatus Doors	2	EA	4,000.00	8,000	
	d. Exterior HM Doors, Frames & Hardware					
	.1 Single	2	EA	1,200.00	2,400	
	.2 Double	1	PR	2,200.00	2,200	
	e. Aluminum & Glass Doors	2	PR	5,000.00	10,000	
	f. Aluminum & Glass Storefront & Vestibule	100	SF	55.00	5,500	
	g. Access Doors	1	LS	500.00	500	
						693,600

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: ENGINE #1 ONLY, 2-STORY WITH PROGRAM ADDITIONS - L-16
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY: E.H.
CHKD. BY:
DATE: 04/11/06
REV. DATE:

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	TOTAL
7.	<u>INTERIOR FIT-OUT</u>					
a.	Firematic Support	1,217	SF	8.89	10,819	
b.	Mezzanine	1,200	SF	14.00	16,800	
c.	Administration Areas	1,156	SF	17.00	19,652	
d.	Volunteer Fire Fighters areas	2,013	SF	13.00	26,169	
e.	Paid Personnel	656	SF	15.00	9,840	
f.	Public Spaces & Meeting Rooms					
	Public Entry	168	SF	30.00	5,040	
	Coat Room	51	SF	36.00	1,836	
	Museum	80	SF	30.00	2,400	
	Meeting & Training Room	748	SF	9.00	6,732	
	Meeting & Training Room Storage	100	SF	15.00	1,500	
	Large Group Training - AV Storage	-0-	SF	30.00		
	Kitchen	252	SF	29.00	7,308	
	Pantry	64	SF	20.00	1,280	
	Public Restrooms	150	SF	32.00	4,800	
g.	Misc Space	730	SF	14.00	10,220	
h.	Vertical Circulation					
	Stairwells	696	SF	17.00	11,832	
	Elevator Machine Room	82	SF	24.00	1,968	
	Elevator Foyers	80	SF	31.00	2,480	
i.	Office Area Circulation	1,300	SF	20.00	26,000	
j.	Apparatus Bay	2,440	SF	5.00	12,200	
						178,876

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: ENGINE #1 ONLY, 2-STORY WITH PROGRAM ADDITIONS - L-16
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY: E.H.
CHKD. BY:
DATE: 04/11/06
REV. DATE:

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	TOTAL
<u>8.</u>	<u>VERTICAL CIRCULATION</u>					
	a. 2-Stop Hydraulic Elevator	1	EA	60,000.00	60,000	
	b. Stairs - Complete	392	RFT	95.00	37,240	
						97,240
<u>9.</u>	<u>SPECIALTIES & EQUIPMENT</u>					
	a. Kitchen Equipment	1	LS	15,000.00	15,000	
	b. Bunker Gear Lockers	20	EA	275.00	5,500	
	c. Other Lockers	1	LS	3,000.00	3,000	
	d. Window Treatments	3,000	SF	5.00	15,000	
	e. Closet Poles & Shelves	1	LS	1,000.00	1,000	
	f. Storage Shelving	1	LS	5,000.00	5,000	
	g. Toilet Partitions	1	LS	2,500.00	2,500	
	h. Toilet Accessories	1	LS	1,250.00	1,250	
	i. Signage	1	LS	500.00	500	
	j. Fire Fighters Medallion	1	LS	5,000.00	5,000	
						53,750
<u>10.</u>	<u>PLUMBING</u>					
	a. Fixtures	28	EA	3,000.00	84,000	
	b. Radiant Heating at Apparatus Bay	3,500	SF	10.00	35,000	
	c. Trench Drains	30	LF	65.00	1,950	
						120,950
<u>11.</u>	<u>FIRE PROTECTION</u>					
	a. Apparatus Bay	3,600	SF	3.00	10,800	
	b. Offices & Common Areas	10,950	SF	2.00	21,900	
						32,700
<u>12.</u>	<u>HVAC</u>					
	a. Apparatus Bay	3,600	SF	5.00	18,000	
	b. Offices & Common Areas	10,950	SF	13.00	142,350	
						160,350

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: ENGINE #1 ONLY, 2-STORY WITH PROGRAM ADDITIONS - L-16
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY: E.H.
CHKD. BY:
DATE: 04/11/06
REV. DATE:

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	TOTAL
13.	<u>ELECTRIC</u>					
	a. Apparatus Bay	3,600	SF	12.00	43,200	
	b. Offices & Common Areas	10,950	SF	15.00	164,250	
						207,450

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: BRANDLEY DYE WORKS CENTRAL STATION FOR THREE COMPANIES - L-17
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY: E.H. _____
CHKD. BY: _____
DATE: 04/11/06
REV. DATE:

TOTAL PROJECT BUDGET \$7,479,800

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: BRANDLEY DYE WORKS CENTRAL STATION FOR THREE COMPANIES
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY: E.H.
CHKD. BY: _____
DATE: 04/11/06
REV. DATE:

1. ALL PRICES ARE BASED ON SPRING 2006 CONSTRUCTION COSTS AND ESCALATED TO A THEORETICAL START OF CONSTRUCTION OF SPRING 2007

2. THE FOLLOWING ITEMS ARE NOT INCLUDED:

- a) PROFESSIONAL FEES
- b) FURNITURE, FURNISHINGS AND MOVABLE EQUIPMENT
- c) HAZARDOUS MATERIAL ABATEMENT
- d) CONSTRUCTION CONTINGENCY COSTS
- e) LAND ACQUISITION COSTS

3. ABNORMAL SUBSURFACE CONDITIONS ARE NOT INCLUDED.

4. THIS ESTIMATE IS BASED ON;

SKETCHES	DATED
L2	1/23/06
L5	1/23/06
L8	3/3/06
L14	3/3/06
L15	3/3/06
L16	3/3/06
L17	3/2/06

A SITE VISIT CONDUCTED FEBRUARY 27, 2006
A NARRATIVE ENTITLED "BEACON FIRE DEPARTMENT OPTIONS" DATED FEBRUARY 9, 2006
AERIAL MAPS OF SITE OPTIONS PROVIDED MARCH 22, 2006
SPACE/USAGE ANALYSIS FOR EACH BUILDING OPTION PROVIDED BY MITCHELL ASSOCIATES

5. THE ESTIMATE IS BASED ON A BASE SITE SUCH AS MEMORIAL PARK OR THE SKI LODGE.
ESTIMATES SITE COSTS SHOULD BE ADDED TO THE OTHER SITES AS SITE SPECIFIC PREMIUMS WHERE NECESSARY.

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: BRANDLEY DYE WORKS CENTRAL STATION FOR THREE COMPANIES L-17
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY: E.H.
CHKD. BY: _____
DATE: 04/11/06
REV. DATE:

GSF 35,680

ITEM	DESCRIPTION	AMOUNT	TOTAL	\$/Ssf
1	SITWORK	\$638,650		\$17.90
2	FOUNDATIONS	\$82,785		\$2.32
3	SLAB-ON-GRADE	\$185,751		\$5.21
4	ELEVATED FLOOR SLABS	\$240,680		\$6.75
5	ROOF SYSTEM	\$492,343		\$13.80
6	FAÇADE	\$1,350,825		\$37.86
7	INTERIOR FIT-OUT	\$413,010		\$11.58
8	VERTICAL CIRCULATION	\$144,328		\$4.05
9	SPECIALTIES & EQUIPMENT	\$59,000		\$1.65
10	PLUMBING	\$283,380		\$7.94
11	FIRE PROTECTION	\$77,529		\$2.17
12	HVAC	\$368,175		\$10.32
13	ELECTRIC	\$483,156		\$13.54
	SUBTOTAL		\$4,819,612	
	GENERAL CONDITIONS - 10.0%		\$481,988	
	SUBTOTAL		\$5,301,600	
	G.C. OH & P - 21.0%		\$1,113,300	
	SUBTOTAL		\$6,414,900	
	DESIGN CONTINGENCY - 10.0%		\$641,500	
	SUBTOTAL		\$7,056,400	COST TODAY
	ESCALATION - 6.0%		\$423,400	\$197.77
	TOTAL COST FOR 2007 GROUNDBREAKING		\$7,479,800	\$210

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: BRANDLEY DYE WORKS CENTRAL STATION FOR THREE COMPANIES L-17
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY: E.H.
CHKD. BY: _____
DATE: 04/11/06
REV. DATE:

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	TOTAL
1.	<u>SITWORK</u>					
a.	Clear & Grub Site	27,000	SF	0.15	4,050	
b.	Strip Topsoil	27,000	SF	0.25	6,750	
c.	Utilities					
	.1 Water Service	1	LS	10,000.00	10,000	
	.2 Fire Service	1	LS	10,000.00	10,000	
	.3 Sewer	1	LS	30,000.00	30,000	
	.4 Storm	1	LS	20,000.00	20,000	
	.5 Electric	1	LS	20,000.00	20,000	
d.	Extra-Heavy Duty Asphalt Paving	795	SY	30.00	23,850	
e.	Heavy Duty Asphalt Paving	4,800	SY	25.00	120,000	
f.	Curb	2,400	LF	20.00	48,000	
g.	Sidewalk	4,500	SF	10.00	45,000	
h.	Topsoil & Seed		SF	0.20		
i.	Complete Demo of 2-Story Structure - Support & Save Exterior Walls Only	9,000	SF	10.00	90,000	
j.	Interior Demo of 3-Story Structure - Keep Floors & Roof	12,000	SF	3.00	36,000	
k.	Site Preparation	1	LS	175,000.00	175,000	638,650
2.	<u>FOUNDATIONS</u>					
a.	Excavation	271	CY	15.00	4,065	
b.	Backfill	138	CY	15.00	2,070	
c.	Dispose of Excess Material	160	CY	20.00	3,200	
d.	Footings	64	CY	350.00	22,400	
e.	Foundation Walls	69	CY	450.00	31,050	
f.	Elevator Pit	2	LS	10,000.00	20,000	82,785
3.	<u>SLAB-ON-GRADE</u>					
a.	SOG at Apparatus Bay	9,363	SF	12.00	112,356	
b.	SOG at New Buildings	1,286	SF	7.50	9,645	
c.	SOG in 2-Story Structure	4,500	SF	7.50	33,750	
d.	SOG in 4000 SF Building	4,000	SF	7.50	30,000	185,751

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: BRANDLEY DYE WORKS CENTRAL STATION FOR THREE COMPANIES L-17
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY: E.H.
CHKD. BY: _____
DATE: 04/11/06
REV. DATE:

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	TOTAL
4.	<u>ELEVATED FLOOR SLABS</u>					
a.	Steel Framing at 10# per SF					
	Mezzanine	14,400	Lbs	1.75	25,200	
	New Structure	25,720	Lbs	1.75	45,010	
	In 2-Story Building	45,000	Lbs	2.25	101,250	
b.	Metal Deck					
	Mezzanine	1,440	SF	3.75	5,400	
	New Structure	2,572	SF	3.75	9,645	
	In 2-Story Building	4,500	SF	3.75	16,875	
c.	Concrete on Metal Deck					
	Mezzanine	1,440	SF	5.00	7,200	
	New Structure	1,520	SF	5.00	7,600	
	In 2-Story Building	4,500	SF	5.00	22,500	
						240,680
5.	<u>ROOF SYSTEM</u>					
a.	Steel Framing at 8# per SF					
	New Structure	85,192	Lbs	1.75	149,086	
	In 2-Story Building	36,000	Lbs	1.75	63,000	
b.	Metal Deck					
	New Structure	10,649	SF	3.50	37,272	
	In 2-Story Building	4,500	SF	3.50	15,750	
c.	Roofing & Insulation					
	New Structure	10,649	SF	15.00	159,735	
	In 2-Story Building	4,500	SF	15.00	67,500	
						492,343
6.	<u>FAÇADE</u>					
a.	Masonry Façade					
	New	10,576	SF	50.00	528,800	
	Existing	15,648	SF	15.00	234,720	
b.	Windows					
	New	3,172	SF	55.00	174,460	
	Existing	6,259	SF	55.00	344,245	
c.	Apparatus Doors	6	EA	4,000.00	24,000	
d.	Exterior HM Doors, Frames & Hardware					
	.1 Single	6	EA	1,200.00	7,200	
	.2 Double	2	PR	2,200.00	4,400	
e.	Aluminum & Glass Doors	4	PR	5,000.00	20,000	
f.	Aluminum & Glass Storefront & Vestibule	200	SF	55.00	11,000	
g.	Access Doors	1	LS	2,000.00	2,000	
						1,350,825

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: BRANDLEY DYE WORKS CENTRAL STATION FOR THREE COMPANIES L-17
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY: E.H.
CHKD. BY:
DATE: 04/11/06
REV. DATE:

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	TOTAL
Z.	<u>INTERIOR FIT-OUT</u>					
a.	Firematic Support	2,600	SF	8.89	23,114	
b.	Mezzanine	1,440	SF	14.00	20,160	
c.	Administration Areas	3,588	SF	17.00	60,996	
d.	Volunteer Fire Fighters areas	4,779	SF	13.00	62,127	
e.	Paid Personnel	1,968	SF	15.00	29,520	
f.	Public Spaces & Meeting Rooms					
	Public Entry	468	SF	30.00	14,040	
	Coat Room	51	SF	36.00	1,836	
	Museum	80	SF	30.00	2,400	
	Large Group Training	2,500	SF	9.00	22,500	
	Large Group Training - Chair & Table Storage	247	SF	15.00	3,705	
	Large Group Training - AV Storage	60	SF	30.00	1,800	
	Kitchen	400	SF	29.00	11,600	
	Pantry	228	SF	20.00	4,560	
	Public Restrooms	413	SF	32.00	13,216	
g.	Misc Space	730	SF	14.00	10,220	
h.	Vertical Circulation					
	Stairwells	1,004	SF	17.00	17,068	
	Elevator Machine Room	82	SF	24.00	1,968	
	Elevator Foyers	240	SF	31.00	7,440	
i.	Office Area Circulation	3,062	SF	20.00	61,240	
j.	Apparatus Bay	8,700	SF	5.00	43,500	
						413,010

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: BRANDLEY DYE WORKS CENTRAL STATION FOR THREE COMPANIES L-17
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY: E.H.
CHKD. BY:
DATE: 04/11/06
REV. DATE:

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	TOTAL
8.	<u>VERTICAL CIRCULATION</u>					
a.	3-Stop Hydraulic Elevator	1	EA	75,000.00	75,000	
b.	Stairs - Complete					
	3-Story Stairs	336	RFT	95.00	31,920	
	2-Story Stairs	224	RFT	95.00	21,280	
	Mezzanine Stairs	168	RFT	96.00	16,128	
						144,328
9.	<u>SPECIALTIES & EQUIPMENT</u>					
a.	Kitchen Equipment	1	LS	20,000.00	20,000	
b.	Bunker Gear Lockers	40	EA	275.00	11,000	
c.	Other Lockers	1	LS	6,000.00	6,000	
d.	Window Treatments		SF	5.00		
e.	Closet Poles & Shelves	1	LS	1,000.00	1,000	
f.	Storage Shelving	1	LS	7,500.00	7,500	
g.	Toilet Partitions	1	LS	5,000.00	5,000	
h.	Toilet Accessories	1	LS	2,500.00	2,500	
i.	Signage	1	LS	1,000.00	1,000	
j.	Fire Fighters Medallion	1	LS	5,000.00	5,000	
						59,000
10.	<u>PLUMBING</u>					
a.	Fixtures	60	EA	3,000.00	180,000	
b.	Radiant Heating at Apparatus Bay	9,363	SF	10.00	93,630	
c.	Trench Drains	150	LF	65.00	9,750	
						283,380
11.	<u>FIRE PROTECTION</u>					
a.	Apparatus Bay	9,363	SF	3.00	28,089	
b.	Offices & Common Areas	24,720	SF	2.00	49,440	
						77,529
12.	<u>HVAC</u>					
a.	Apparatus Bay	9,363	SF	5.00	46,815	
b.	Offices & Common Areas	24,720	SF	13.00	321,360	
						368,175

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: BRANDLEY DYE WORKS CENTRAL STATION FOR THREE COMPANIES L-17
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY: E.H.
CHKD. BY:
DATE: 04/11/06
REV. DATE:

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	TOTAL
13.	<u>ELECTRIC</u>					
	a. Apparatus Bay	9,363	SF	12.00	112,356	
	b. Offices & Common Areas	24,720	SF	15.00	370,800	
						483,156

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: THREE COMPANIES, 2 STORIES, TIGHT SITE - L2
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY: E.H.
CHKD. BY: _____
DATE: 04/11/06
REV. DATE:

TOTAL PROJECT BUDGET \$7,479,600

SOUTH AVE PARK \$50,000

ELKS CLUB \$25,000

COMBINED SARGENT SITES \$150,000

SARGENT SITE 1 ALONE \$250,000

SARGENT SITE 2 ALONE \$425,000

MEMORIAL PARK NO UNUSUAL COSTS ASSOCIATED WITH THIS SITE

CHEM PRENE \$125,000

CITY HALL \$500,000

578 MAIN \$100,000

SKI LODGE NO UNUSUAL COSTS ASSOCIATED WITH THIS SITE

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: THREE COMPANIES, 2 STORIES, TIGHT SITE - L2
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY: E.H.
CHKD. BY: _____
DATE: 04/11/06
REV. DATE:

1. ALL PRICES ARE BASED ON SPRING 2006 CONSTRUCTION COSTS AND ESCALATED TO A THEORETICAL START OF CONSTRUCTION OF SPRING 2007

2. THE FOLLOWING ITEMS ARE NOT INCLUDED:

- a) PROFESSIONAL FEES
- b) FURNITURE, FURNISHINGS AND MOVABLE EQUIPMENT
- c) HAZARDOUS MATERIAL ABATEMENT
- d) CONSTRUCTION CONTINGENCY COSTS

3. ABNORMAL SUBSURFACE CONDITIONS ARE NOT INCLUDED.

4. THIS ESTIMATE IS BASED ON;

SKETCHES	DATED
L2	1/23/06
L5	1/23/06
L8	3/3/06
L14	3/3/06
L15	3/3/06
L16	3/3/06
L17	3/2/06

A SITE VISIT CONDUCTED FEBRUARY 27, 2006
A NARRATIVE ENTITLED "BEACON FIRE DEPARTMENT OPTIONS" DATED FEBRUARY 9, 2006
ARIAL MAPS OF SITE OPTIONS PROVIDED MARCH 22, 2006
SPACE/USAGE ANALYSIS FOR EACH BUILDING OPTION PROVIDED BY MITCHELL ASSOCIATES

5. THE ESTIMATE IS BASED ON A BASE SITE SUCH AS MEMORIAL PARK OR THE SKI LODGE.
ESTIMATES SITE COSTS SHOULD BE ADDED TO THE OTHER SITES AS SITE SPECIFIC PREMIUMS WHERE NECESSARY.

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: THREE COMPANIES, 2 STORIES, TIGHT SITE - L2
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY: E.H.
CHKD. BY: _____
DATE: 04/11/06
REV. DATE: _____

GSF 35,424

ITEM	DESCRIPTION	AMOUNT	TOTAL
1	SITWORK	\$447,432	\$12.63
2	FOUNDATIONS	\$193,800	\$5.47
3	SLAB-ON-GRADE	\$214,526	\$6.06
4	ELEVATED FLOOR SLABS	\$316,208	\$8.93
5	ROOF SYSTEM	\$759,785	\$21.45
6	FAÇADE	\$1,036,400	\$29.26
7	INTERIOR FIT-OUT	\$408,634	\$11.54
8	VERTICAL CIRCULATION	\$97,240	\$2.75
9	SPECIALTIES & EQUIPMENT	\$81,000	\$2.29
10	PLUMBING	\$288,840	\$8.15
11	FIRE PROTECTION	\$79,557	\$2.25
12	HVAC	\$390,840	\$11.03
13	ELECTRIC	\$505,233	\$14.26
SUBTOTAL		\$4,819,495	
GENERAL CONDITIONS - 10.0%		\$481,905	
SUBTOTAL		\$5,301,400	
G.C. OH & P - 21.0%		\$1,113,300	
SUBTOTAL		\$6,414,700	
DESIGN CONTINGENCY - 10.0%		\$641,500	
SUBTOTAL		\$7,056,200	COST TODAY \$199.19
ESCALATION - 6.0%		\$423,400	
TOTAL COST FOR 2007 GROUNDBREAKING			\$7,479,600 \$211

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: THREE COMPANIES, 2 STORIES, TIGHT SITE - L2
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY: E.H.
CHKD. BY: _____
DATE: 04/11/06
REV. DATE:

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	TOTAL
					0	
4.	<u>ELEVATED FLOOR SLABS</u>				0	
					0	
					0	
	a. Steel Framing at 10# per SF	120,460	Lbs	1.75	210,805	
	b. Metal Deck	12,046	SF	3.75	45,173	
	c. Concrete on Metal Deck	12,046	SF	5.00	60,230	
					0	
					0	316,208
					0	
					0	
					0	
5.	<u>ROOF SYSTEM</u>				0	
					0	
					0	
	a. Steel Framing at 8# per SF	187,024	Lbs	1.75	327,292	
	b. Metal Deck	23,378	SF	3.50	81,823	
	c. Roofing & Insulation	23,378	SF	15.00	350,670	
					0	
					0	759,785
					0	
					0	
					0	
					0	
6.	<u>FAÇADE</u>				0	
					0	
					0	
	a. Masonry Façade	14,668	SF	50.00	733,400	
	b. Windows	4,400	SF	55.00	242,000	
	c. Apparatus Doors	8	EA	4,000.00	32,000	
	d. Exterior HM Doors, Frames & Hardware				0	
	.1 Single	4	EA	1,200.00	4,800	
	.2 Double	1	PR	2,200.00	2,200	
	e. Aluminum & Glass Doors	2	PR	5,000.00	10,000	
	f. Aluminum & Glass Storefront & Vestibule	200	SF	55.00	11,000	
	g. Access Doors	1	LS	1,000.00	1,000	
					0	
					0	1,036,400
					0	
					0	
					0	
					0	
					0	

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: THREE COMPANIES, 2 STORIES, TIGHT SITE - L2
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY: E.H.
CHKD. BY:
DATE: 04/11/06
REV. DATE:

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	TOTAL
					0	
8.	<u>VERTICAL CIRCULATION</u>				0	
					0	
	a. 2-Stop Hydraulic Elevator	1	EA	60,000.00	60,000	
	b. Stairs - Complete	392	RFT	95.00	37,240	
					0	
					0	97,240
					0	
					0	
9.	<u>SPECIALTIES & EQUIPMENT</u>				0	
					0	
	a. Kitchen Equipment	1	LS	20,000.00	20,000	
	b. Bunker Gear Lockers	40	EA	275.00	11,000	
	c. Other Lockers	1	LS	6,000.00	6,000	
	d. Window Treatments	4,400	SF	5.00	22,000	
	e. Closet Poles & Shelves	1	LS	1,000.00	1,000	
	f. Storage Shelving	1	LS	7,500.00	7,500	
	g. Toilet Partitions	1	LS	5,000.00	5,000	
	h. Toilet Accessories	1	LS	2,500.00	2,500	
	i. Signage	1	LS	1,000.00	1,000	
	j. Fire Fighters Medallion	1	LS	5,000.00	5,000	
					0	
					0	81,000
					0	
					0	
10.	<u>PLUMBING</u>				0	
					0	
	a. Fixtures	64	EA	3,000.00	192,000	
	b. Radiant Heating at Apparatus Bay	8,709	SF	10.00	87,090	
	c. Trench Drains	150	LF	65.00	9,750	
					0	
					0	288,840
					0	
					0	
11.	<u>FIRE PROTECTION</u>				0	
					0	
	a. Apparatus Bay	8,709	SF	3.00	26,127	
	b. Offices & Common Areas	26,715	SF	2.00	53,430	
					0	
					0	79,557
					0	
					0	
12.	<u>HVAC</u>				0	
					0	
	a. Apparatus Bay	8,709	SF	5.00	43,545	
	b. Offices & Common Areas	26,715	SF	13.00	347,295	
					0	
					0	390,840
					0	

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: MASE & ENGINE #1, 1-STORY ON A TIGHT SITE - L-5
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY: E.H.
CHKD. BY: _____
DATE: 04/11/06
REV. DATE:

TOTAL PROJECT BUDGET \$6,335,500

SOUTH AVE PARK \$50,000

ELKS CLUB \$25,000

COMBINED SARGENT SITE: \$150,000

SARGENT SITE 1 ALONE \$250,000

SARGENT SITE 2 ALONE \$425,000

MEMORIAL PARK NO UNUSUAL COSTS ASSOCIATED WITH THIS SITE

CHEM PRENE \$125,000

CITY HALL \$500,000

578 MAIN \$100,000

SKI LODGE NO UNUSUAL COSTS ASSOCIATED WITH THIS SITE

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: MASE & ENGINE #1, 1-STORY ON A TIGHT SITE - L-5
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY: E.H.
CHKD. BY: _____
DATE: 04/11/06
REV. DATE:

1. ALL PRICES ARE BASED ON SPRING 2006 CONSTRUCTION COSTS AND ESCALATED TO A THEORETICAL START OF CONSTRUCTION OF SPRING 2007

2. THE FOLLOWING ITEMS ARE NOT INCLUDED:

- a) PROFESSIONAL FEES
- b) FURNITURE, FURNISHINGS AND MOVABLE EQUIPMENT
- c) HAZARDOUS MATERIAL ABATEMENT
- d) CONSTRUCTION CONTINGENCY COSTS
- e) LAND ACQUISITION COSTS

3. ABNORMAL SUBSURFACE CONDITIONS ARE NOT INCLUDED.

4. THIS ESTIMATE IS BASED ON;

SKETCHES	DATED
L2	1/23/06
L5	1/23/06
L8	3/3/06
L14	3/3/06
L15	3/3/06
L16	3/3/06
L17	3/2/06

A SITE VISIT CONDUCTED FEBRUARY 27, 2006
A NARRATIVE ENTITLED "BEACON FIRE DEPARTMENT OPTIONS" DATED FEBRUARY 9, 2006
AERIAL MAPS OF SITE OPTIONS PROVIDED MARCH 22, 2006
SPACE/USAGE ANALYSIS FOR EACH BUILDING OPTION PROVIDED BY MITCHELL ASSOCIATES

5. THE ESTIMATE IS BASED ON A BASE SITE SUCH AS MEMORIAL PARK OR THE SKI LODGE.
ESTIMATES SITE COSTS SHOULD BE ADDED TO THE OTHER SITES AS SITE SPECIFIC PREMIUMS WHERE NECESSARY.

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: MASE & ENGINE #1, 1-STORY ON A TIGHT SITE - L-5
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY: E.H.
CHKD. BY: _____
DATE: 04/11/06
REV. DATE: _____

GSF 26,761

ITEM	DESCRIPTION	AMOUNT		TOTAL	\$/sf
1	SITWORK	\$387,565			\$14.48
2	FOUNDATIONS	\$159,920			\$5.98
3	SLAB-ON-GRADE	\$220,529			\$8.24
4	ELEVATED FLOOR SLABS	\$0			\$0.00
5	ROOF SYSTEM	\$862,999			\$32.25
6	FAÇADE	\$1,065,860			\$39.83
7	INTERIOR FIT-OUT	\$313,934			\$11.73
8	VERTICAL CIRCULATION	\$0			\$0.00
9	SPECIALTIES & EQUIPMENT	\$78,560			\$2.94
10	PLUMBING	\$221,930			\$8.29
11	FIRE PROTECTION	\$60,303			\$2.25
12	HVAC	\$314,496			\$11.75
13	ELECTRIC	\$396,171			\$14.80
	SUBTOTAL		\$4,082,267		
	GENERAL CONDITIONS - 10.0%		\$408,233		
	SUBTOTAL		\$4,490,500		
	G.C. OH & P - 21.0%		\$943,000		
	SUBTOTAL		\$5,433,500		
	DESIGN CONTINGENCY - 10.0%		\$543,400		
	SUBTOTAL		\$5,976,900	COST TODAY	\$223.34
	ESCALATION - 6.0%		\$358,600		
	TOTAL COST FOR 2007 GROUNDBREAKING		\$6,335,500		\$237

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: MASE & ENGINE #1, 1-STORY ON A TIGHT SITE - L-5
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY: E.H.
CHKD. BY: _____
DATE: 04/11/06
REV. DATE:

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	TOTAL
1.	<u>SITWORK</u>					
a.	Clear & Grub Site	74,788	SF	0.15	11,218	
b.	Strip Topsoil	74,788	SF	0.25	18,697	
c.	Utilities					
	.1 Water Service	1	LS	10,000.00	10,000	
	.2 Fire Service	1	LS	10,000.00	10,000	
	.3 Sewer	1	LS	30,000.00	30,000	
	.4 Storm	1	LS	20,000.00	20,000	
	.5 Electric	1	LS	20,000.00	20,000	
d.	Extra-Heavy Duty Asphalt Paving	589	SY	30.00	17,670	
e.	Heavy Duty Asphalt Paving	3,254	SY	25.00	81,350	
f.	Curb	1,690	LF	20.00	33,800	
g.	Sidewalk	3,270	SF	10.00	32,700	
h.	Topsoil & Seed	10,650	SF	0.20	2,130	
i.	Site Preparation	1	LS	100,000.00	100,000	
						387,565
2.	<u>FOUNDATIONS</u>					
a.	Excavation	606	CY	15.00	9,090	
b.	Backfill	246	CY	15.00	3,690	
c.	Dispose of Excess Material	432	CY	20.00	8,640	
d.	Footings	235	CY	350.00	82,250	
e.	Foundation Walls	125	CY	450.00	56,250	
f.	Elevator Pit	-0-	LS	10,000.00		
						159,920
3.	<u>SLAB-ON-GRADE</u>					
a.	SOG at Apparatus Bay	5,373	SF	12.00	64,476	
b.	SOG at Balance of Building	20,807	SF	7.50	156,053	
						220,529

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: MASE & ENGINE #1, 1-STORY ON A TIGHT SITE - L-5
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY: E.H.
CHKD. BY: _____
DATE: 04/11/06
REV. DATE:

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	TOTAL
<u>4.</u>	<u>ELEVATED FLOOR SLABS</u>					
	a. Steel Framing at 10# per SF	-0-	Lbs	1.75		
	b. Metal Deck	-0-	SF	3.75		
	c. Concrete on Metal Deck	-0-	SF	5.00		
<u>5.</u>	<u>ROOF SYSTEM</u>					
	a. Steel Framing at 8# per SF	210,240	Lbs	1.75	367,920	
	b. Metal Deck	26,761	SF	3.50	93,664	
	c. Roofing & Insulation	26,761	SF	15.00	401,415	
						862,999
<u>6.</u>	<u>FAÇADE</u>					
	a. Masonry Façade	16,000	SF	50.00	800,000	
	b. Windows	3,912	SF	55.00	215,160	
	c. Apparatus Doors	5	EA	4,000.00	20,000	
	d. Exterior HM Doors, Frames & Hardware					
	.1 Single	4	EA	1,200.00	4,800	
	.2 Double	2	PR	2,200.00	4,400	
	e. Aluminum & Glass Doors	2	PR	5,000.00	10,000	
	f. Aluminum & Glass Storefront & Vestibule	200	SF	55.00	11,000	
	g. Access Doors	1	LS	500.00	500	
						1,065,860

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: MASE & ENGINE #1, 1-STORY ON A TIGHT SITE - L-5
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY: E.H.
CHKD. BY:
DATE: 04/11/06
REV. DATE:

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	TOTAL
Z.	<u>INTERIOR FIT-OUT</u>					
a.	Firematic Support	2,230	SF	8.89	19,825	
b.	Mezzanine	1,200	SF	14.00	16,800	
c.	Administration Areas	3,066	SF	17.00	52,122	
d.	Volunteer Fire Fighters areas	4,125	SF	13.00	53,625	
e.	Paid Personnel	1,312	SF	15.00	19,680	
f.	Public Spaces & Meeting Rooms					
	Public Entry	300	SF	30.00	9,000	
	Coat Room	51	SF	36.00	1,836	
	Museum	40	SF	30.00	1,200	
	Large Group Training	2,500	SF	9.00	22,500	
	Large Group Training - Chair & Table Storage	247	SF	15.00	3,705	
	Large Group Training - AV Storage	60	SF	30.00	1,800	
	Kitchen	400	SF	29.00	11,600	
	Pantry	164	SF	20.00	3,280	
	Public Restrooms	413	SF	32.00	13,216	
g.	Misc Space	620	SF	14.00	8,680	
h.	Vertical Circulation					
	Stairwells	-0-	SF	17.00		
	Elevator Machine Room	-0-	SF	24.00		
	Elevator Foyers	-0-	SF	31.00		
i.	Office Area Circulation	2,394	SF	20.00	47,880	
j.	Apparatus Bay	5,437	SF	5.00	27,185	
		24,559	SF			313,934

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: MASE & ENGINE #1, 1-STORY ON A TIGHT SITE - L-5
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY: E.H.
CHKD. BY:
DATE: 04/11/06
REV. DATE:

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	TOTAL
<u>8.</u>	<u>VERTICAL CIRCULATION</u>					
	a. 2-Stop Hydraulic Elevator	-0-	EA	60,000.00		
	b. Stairs - Complete	-0-	RFT	95.00		
<u>9.</u>	<u>SPECIALTIES & EQUIPMENT</u>					
	a. Kitchen Equipment	1	LS	20,000.00	20,000	
	b. Bunker Gear Lockers	40	EA	275.00	11,000	
	c. Other Lockers	1	LS	6,000.00	6,000	
	d. Window Treatments	3,912	SF	5.00	19,560	
	e. Closet Poles & Shelves	1	LS	1,000.00	1,000	
	f. Storage Shelving	1	LS	7,500.00	7,500	
	g. Toilet Partitions	1	LS	5,000.00	5,000	
	h. Toilet Accessories	1	LS	2,500.00	2,500	
	i. Signage	1	LS	1,000.00	1,000	
	j. Fire Fighters Medallion	1	LS	5,000.00	5,000	
						78,560
<u>10.</u>	<u>PLUMBING</u>					
	a. Fixtures	54	EA	3,000.00	162,000	
	b. Radiant Heating at Apparatus Bay	5,343	SF	10.00	53,430	
	c. Trench Drains	100	LF	65.00	6,500	
						221,930
<u>11.</u>	<u>FIRE PROTECTION</u>					
	a. Apparatus Bay	5,343	SF	3.00	16,029	
	b. Offices & Common Areas	22,137	SF	2.00	44,274	
						60,303
<u>12.</u>	<u>HVAC</u>					
	a. Apparatus Bay	5,343	SF	5.00	26,715	
	b. Offices & Common Areas	22,137	SF	13.00	287,781	
						314,496

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: MASE & ENGINE #1, 1-STORY ON A TIGHT SITE - L-5
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY: E.H.
CHKD. BY:
DATE: 04/11/06
REV. DATE:

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	TOTAL
13.	<u>ELECTRIC</u>					
	a. Apparatus Bay	5,343	SF	12.00	64,116	
	b. Offices & Common Areas	22,137	SF	15.00	332,055	
						396,171

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: MASE & ENGINE #1 WITHOUT LARGE MEETING ROOM - L8
RENOVATION & ADDITION TO EXISTING BUILDING
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY: E.H. _____
CHKD. BY: _____
DATE: 04/11/06
REV. DATE:

TOTAL PROJECT BUDGET \$6,109,600

**THIS SCHEME REQUIRES THE PURCHASE & DEMOLITION OF
THE FORMER CITY HALL**

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: MASE & ENGINE #1 WITHOUT LARGE MEETING ROOM - L8
RENOVATION & ADDITION TO EXISTING BUILDING
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY: E.H.
CHKD. BY: _____
DATE: 04/11/06
REV. DATE:

1. ALL PRICES ARE BASED ON SPRING 2006 CONSTRUCTION COSTS AND ESCALATED TO.
A THEORETICAL START OF CONSTRUCTION OF SPRING 2007

2. THE FOLLOWING ITEMS ARE NOT INCLUDED:

- a) PROFESSIONAL FEES
- b) FURNITURE, FURNISHINGS AND MOVABLE EQUIPMENT
- c) HAZARDOUS MATERIAL ABATEMENT
- d) CONSTRUCTION CONTINGENCY COSTS
- e) LAND ACQUISITION COSTS

3. ABNORMAL SUBSURFACE CONDITIONS ARE NOT INCLUDED.

4. THIS ESTIMATE IS BASED ON;

SKETCHES	DATED
L2	1/23/06
L5	1/23/06
L8	3/3/06
L14	3/3/06
L15	3/3/06
L16	3/3/06
L17	3/2/06

A SITE VISIT CONDUCTED FEBRUARY 27, 2006
A NARRATIVE ENTITLED "BEACON FIRE DEPARTMENT OPTIONS" DATED FEBRUARY 9, 2006
AERIAL MAPS OF SITE OPTIONS PROVIDED MARCH 22, 2006
SPACE/USAGE ANALYSIS FOR EACH BUILDING OPTION PROVIDED BY MITCHELL ASSOCIATES

5. THE ESTIMATE IS BASED ON A BASE SITE SUCH AS MEMORIAL PARK OR
THE SKI LODGE.
ESTIMATES SITE COSTS SHOULD BE ADDED TO THE OTHER SITES AS
SITE SPECIFIC PREMIUMS WHERE NECESSARY.

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: MASE & ENGINE #1 WITHOUT LARGE MEETING ROOM - L8
RENOVATION & ADDITION TO EXISTING BUILDING

PROJECT: BEACON FIRE STATIONS

LOCATION: BEACON, NY

TYPE EST.: CONCEPTUAL

CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042

EST. BY: E.H.

CHKD. BY: _____

DATE: 04/11/06

REV. DATE:

GSF 23,087

ITEM	DESCRIPTION	AMOUNT		TOTAL	\$/sf
1	SITWORK	\$366,162			\$15.86
2	FOUNDATIONS	\$173,195			\$7.50
3	SLAB-ON-GRADE	\$116,574			\$5.05
4	ELEVATED FLOOR SLABS	\$284,288			\$12.31
5	ROOF SYSTEM	\$439,333			\$19.03
6	FAÇADE	\$998,250			\$43.24
7	INTERIOR FIT-OUT	\$474,483			\$20.55
8	VERTICAL CIRCULATION	\$154,968			\$6.71
9	SPECIALTIES & EQUIPMENT	\$75,500			\$3.27
10	PLUMBING	\$196,120			\$8.49
11	FIRE PROTECTION	\$50,919			\$2.21
12	HVAC	\$282,137			\$12.22
13	ELECTRIC	\$324,804			\$14.07
	SUBTOTAL		\$3,936,733		
	GENERAL CONDITIONS - 10.0%		\$393,667		
	SUBTOTAL		\$4,330,400		
	G.C. OH & P - 21.0%		\$909,400		
	SUBTOTAL		\$5,239,800		
	DESIGN CONTINGENCY - 10.0%		\$524,000		
	SUBTOTAL		\$5,763,800	COST TODAY	\$249.66
	ESCALATION - 6.0%		\$345,800		
	TOTAL COST FOR 2007 GROUNDBREAKING			\$6,109,600	\$265

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: MASE & ENGINE #1 WITHOUT LARGE MEETING ROOM - L8
RENOVATION & ADDITION TO EXISTING BUILDING
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY: E.H.
CHKD. BY: _____
DATE: 04/11/06
REV. DATE:

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	TOTAL
1.	<u>SITWORK</u>					
a.	Clear & Grub Site	-0-	SF	0.15		
b.	Strip Topsoil	-0-	SF	0.25		
c.	Utilities					
	.1 Water Service	1	LS	10,000.00	10,000	
	.2 Fire Service	1	LS	10,000.00	10,000	
	.3 Sewer	1	LS	30,000.00	30,000	
	.4 Storm	1	LS	20,000.00	20,000	
	.5 Electric	1	LS	20,000.00	20,000	
d.	Extra-Heavy Duty Asphalt Paving	581	SY	30.00	17,430	
e.	Heavy Duty Asphalt Paving	780	SY	25.00	19,500	
f.	Curb	579	LF	20.00	11,580	
g.	Sidewalk	3,293	SF	10.00	32,930	
h.	Topsoil & Seed	3,610	SF	0.20	722	
i.	Demolish Extg Building	18,800	SF	5.00	94,000	
j.	Site Preparation	1	LS	100,000.00	100,000	
						366,162
2.	<u>FOUNDATIONS</u>					
a.	Excavation	421	CY	15.00	6,315	
b.	Backfill	236	CY	15.00	3,540	
c.	Dispose of Excess Material	222	CY	20.00	4,440	
d.	Footings	176	CY	350.00	61,600	
e.	Foundation Walls	194	CY	450.00	87,300	
f.	Elevator Pit	1	LS	10,000.00	10,000	
						173,195
3.	<u>SLAB-ON-GRADE</u>					
a.	SOG at Apparatus Bay	5,337	SF	12.00	64,044	
b.	SOG at Balance of Building	7,004	SF	7.50	52,530	
						116,574

**NASCO
CONSTRUCTION SERVICES INC.**

**SUBJECT: MASE & ENGINE #1 WITHOUT LARGE MEETING ROOM - L8
RENOVATION & ADDITION TO EXISTING BUILDING**

EST. NO: 6-0042

PROJECT: BEACON FIRE STATIONS

EST. BY: E.H.

LOCATION: BEACON, NY

CHKD. BY: _____

TYPE EST.: CONCEPTUAL

DATE: 04/11/06

CLIENT: MITCHELL ASSOCIATES ARCHITECTS

REV. DATE:

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	TOTAL
<u>4.</u>	<u>ELEVATED FLOOR SLABS</u>					
	a. Steel Framing at 10# per SF	108,300	Lbs	1.75	189,525	
	b. Metal Deck	10,830	SF	3.75	40,613	
	c. Concrete on Metal Deck	10,830	SF	5.00	54,150	
						284,288
<u>5.</u>	<u>ROOF SYSTEM</u>					
	a. Steel Framing at 8# per SF	99,528	Lbs	1.75	174,174	
	b. Metal Deck	12,441	SF	3.50	43,544	
	c. Roofing & Insulation	12,441	SF	15.00	186,615	
	d. Replace Roof on Mase	2,000	SF	17.50	35,000	
						439,333
<u>6.</u>	<u>FAÇADE</u>					
	a. Masonry Façade	11,040	SF	50.00	552,000	
	b. Windows	3,300	SF	55.00	181,500	
	c. Apparatus Doors	5	EA	4,000.00	20,000	
	d. Exterior HM Doors, Frames & Hardware					
	.1 Single	4	EA	1,200.00	4,800	
	.2 Double	1	PR	2,200.00	2,200	
	e. Aluminum & Glass Doors	2	PR	5,000.00	10,000	
	f. Aluminum & Glass Storefront & Vestibule	200	SF	55.00	11,000	
	g. Access Doors	1	LS	1,000.00	1,000	
	h. Restore Masonry Façade of Mase	6,500	SF	7.50	48,750	
	i. Replace Windows in Mase	2,600	SF	55.00	143,000	
	j. Replace Apparatus Doors	1	EA	4,000.00	4,000	
	k. Replace Front Entrance Storefront	2	LOC	10,000.00	20,000	
						998,250

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: MASE & ENGINE #1 WITHOUT LARGE MEETING ROOM - L8
RENOVATION & ADDITION TO EXISTING BUILDING
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY: E.H.
CHKD. BY:
DATE: 04/11/06
REV. DATE:

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	TOTAL
Z.	<u>INTERIOR FIT-OUT</u>					
a.	Firematic Support	2,230	SF	8.89	19,825	
b.	Mezzanine	1,200	SF	14.00	16,800	
c.	Administration Areas	3,066	SF	17.00	52,122	
d.	Volunteer Fire Fighters areas	4,125	SF	13.00	53,625	
e.	Paid Personnel	1,312	SF	15.00	19,680	
f.	Public Spaces & Meeting Rooms					
	Public Entry	250	SF	30.00	7,500	
	Coat Room	40	SF	36.00	1,440	
	Museum	80	SF	30.00	2,400	
	Meeting & Training Room	750	SF	9.00	6,750	
	Meeting & Training Room Storage	100	SF	15.00	1,500	
	Large Group Training - AV Storage	60	SF	30.00	1,800	
	Kitchen	100	SF	29.00	2,900	
	Pantry	60	SF	20.00	1,200	
	Public Restrooms	150	SF	32.00	4,800	
g.	Misc Space	770	SF	14.00	10,780	
h.	Vertical Circulation					
	Stairwells	1,004	SF	17.00	17,068	
	Elevator Machine Room	82	SF	24.00	1,968	
	Elevator Foyers	240	SF	31.00	7,440	
i.	Office Area Circulation	1,885	SF	20.00	37,700	
j.	Apparatus Bay	5,437	SF	5.00	27,185	
k.	Mase Interior Restoration	6,000	SF	30.00	180,000	
						474,483

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: MASE & ENGINE #1 WITHOUT LARGE MEETING ROOM - L8
RENOVATION & ADDITION TO EXISTING BUILDING
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY: E.H.
CHKD. BY:
DATE: 04/11/06
REV. DATE:

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	TOTAL
<u>8.</u>	<u>VERTICAL CIRCULATION</u>					
a.	3-Stop Hydraulic Elevator	1	EA	75,000.00	75,000	
b.	Stairs - Complete					
	4-Story Stairs	448	RFT	95.00	42,560	
	2-Story Stairs	224	RFT	95.00	21,280	
	Mezzanine Stairs	168	RFT	96.00	16,128	
						154,968
<u>9.</u>	<u>SPECIALTIES & EQUIPMENT</u>					
a.	Kitchen Equipment	1	LS	20,000.00	20,000	
b.	Bunker Gear Lockers	40	EA	275.00	11,000	
c.	Other Lockers	1	LS	6,000.00	6,000	
d.	Window Treatments	3,300	SF	5.00	16,500	
e.	Closet Poles & Shelves	1	LS	1,000.00	1,000	
f.	Storage Shelving	1	LS	7,500.00	7,500	
g.	Toilet Partitions	1	LS	5,000.00	5,000	
h.	Toilet Accessories	1	LS	2,500.00	2,500	
i.	Signage	1	LS	1,000.00	1,000	
j.	Fire Fighters Medallion	1	LS	5,000.00	5,000	
						75,500
<u>10.</u>	<u>PLUMBING</u>					
a.	Fixtures	36	EA	3,000.00	108,000	
b.	Radiant Heating at Apparatus Bay	5,437	SF	10.00	54,370	
c.	Trench Drains	150	LF	65.00	9,750	
d.	Mase Plumbing	6,000	SF	4.00	24,000	
						196,120
<u>11.</u>	<u>FIRE PROTECTION</u>					
a.	Apparatus Bay	5,437	SF	3.00	16,311	
b.	Offices & Common Areas	11,304	SF	2.00	22,608	
c.	Mase Fire Protection	6,000	SF	2.00	12,000	
						50,919
<u>12.</u>	<u>HVAC</u>					
a.	Apparatus Bay	5,437	SF	5.00	27,185	
b.	Offices & Common Areas	11,304	SF	13.00	146,952	
c.	Mase HVAC	6,000	SF	18.00	108,000	
						282,137

**NASCO
CONSTRUCTION SERVICES INC.**

SUBJECT: MASE & ENGINE #1 WITHOUT LARGE MEETING ROOM - L8
RENOVATION & ADDITION TO EXISTING BUILDING
PROJECT: BEACON FIRE STATIONS
LOCATION: BEACON, NY
TYPE EST.: CONCEPTUAL
CLIENT: MITCHELL ASSOCIATES ARCHITECTS

EST. NO: 6-0042
EST. BY: E.H.
CHKD. BY:
DATE: 04/11/06
REV. DATE:

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	TOTAL
13.	<u>ELECTRIC</u>					
	a. Apparatus Bay	5,437	SF	12.00	65,244	
	b. Offices & Common Areas	11,304	SF	15.00	169,560	
	c. Mase Electric	6,000	SF	15.00	90,000	
						324,804