

1. Agenda

Documents: [OPN_20150723_AG.PDF](#)

2. Complete Packet

Documents: [OPN_20150723_PK.PDF](#)



NOTICE

Fire Station Oversight Committee
Thursday, July 23, 2015
5:15 p.m.

PLEASE TAKE NOTICE that the Fire Station Oversight Committee, an Ad Hoc Committee created by the Mayor to oversee the construction of the East and West Fire Stations, will hold a meeting on **Thursday, July 23, 2015 at 5:15 p.m.** in the **Meeting Room** of Fitchburg City Hall, 5520 Lacy Road, Fitchburg, Wisconsin for the purpose of:

(Note: Full coverage of this meeting is available through FACTv and Streaming Video, accessible on the City Web Site at <http://factv.city.fitchburg.wi.us/Cablecast/Public/Main.aspx?ChannelID=3>)

- 1. Call to Order**
- 2. Approval of June 10, 2015 Minutes**
- 3. Madison Fire Station Sustainability Measures**
- 4. West Station Mechanical, Plumbing and Electrical System Direction**
- 5. West Station Interior Finishes**
- 6. Announcements**
 - i. Next Oversight Meeting- TBD
- 7. Adjournment**

Note: It is possible that members of and possibly a quorum of members of other governmental bodies of the municipality may be in attendance at the above stated meeting to gather information. No action will be taken by any governmental body at the above stated meeting other than the governmental body specifically referred to above in this notice. Please note that, upon reasonable notice, efforts will be made to accommodate the needs of disabled individuals through appropriate aids and services. For additional information or to request this service, contact City Clerk's office (270-4200), Fitchburg City Hall, 5520 Lacy Rd, Fitchburg, WI 53711



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Minutes

Fire Station Oversight Committee
Wednesday June 10, 2015

Present: Steve Arnold (Chair), Carol Poole, Jason Williams, Dave Herbst, Pat O'Brien, Jason Gonzalez

Also Present: Brian Myrland, Dave Berman, Chad Grossen, Tom Hovel, Dennis Limmex (Tri-North), Trevor Frank (SEH)

1. **Call to Order**—Meeting was called to order by Chairperson Arnold at 5:00 pm.
2. **Approval of May 21, 2015 Minutes**—Motion by Gonzalez, second by Herbst to approve, the minutes of May 21, 2015 was carried.
3. **West Station Building Design**—After discussion the committee believed that, due to configuration of the building, a design utilizing more standard building techniques would be appropriate for the west station site, than one using pre-cast concrete. The living and office area of the building will primarily consist of a stud wall, while the apparatus bay will be block back-up to provide the hard surface required in the interior of the space for maintenance and durability. The committee liked the more modern building option, with clerestory windows over the classic building option that utilized pre-cast concrete.
4. **Building Material Options**—The committee preferred the more modern building option, with clerestory windows over the other more classic looking building option given its location in an industrial and commercial area. The committee agreed that the apparatus bay will be constructed of a larger utility or king-sized brick for the exterior, the living and office area, and the mezzanine locations will consist of a metal panel. The staging, SCBA and related space off the apparatus bay may be metal panel as well, although its actual material may be dependent upon the chosen structural alternative, and architectural design elements. However, the first few feet of the whole building will consist of a hard material such as brick, or some type of concrete material.

Staff and the architect examined the MGE training and reporting stations to view the use of metal panels on those buildings and they plan to look at the use of metal panels on the Promega Building under construction on Nobel Drive.

5. Announcements

- i. Next Oversight Meeting- will be determined through electronic or other method of communication.

6. Adjournment

Motion by Williams, second by Gonzalez to adjourn, was carried at 6:00pm.

West Fire Station

Mechanical Decision Points

<u>Item</u>	<u>Rough cost</u>		<u>Est. payback</u>	<u>Efficiency level</u>	
Apparatus Bay					
In-floor radiant heat	\$6-7/sf	over infa-red		95%	Add \$40k-50k
Infa-red ceiling	\$2-3/sf			97%	
Gas-fired units	\$3-5/sf			80%	

Shop/SCBA

Radiant if appartus otherwise electric heaters or forced air in miezzanine

Adminstrative Area

Forced air					
Forced w perimeter infloor heat		More expensive -- double system, but if used in appartus uses same boiler			
Geo-thermal			20+ yrs		Need to determine if sufficient area exists
Hot Water					
Solar			10 yrs		Extra storage difficult with 12 person occupancy
HTP hot water				98.50%	
LED lighting	double conventional		5 yrs		
Toilets					1.28 gal
Urinals					.128 gal
In-floor collection					
catch basin	\$2500 ea				
trench drains	\$15/ft				intermittant grates between basins to reduce length of trench drains



Building a Better World
for All of Us®

MINUTES

Fitchburg Building Staff Committee

July 1, 2015

9:00 a.m.

Fitchburg City Hall

Meeting Chair: Tom Hovel

Minutes by: Trevor Frank

Present: Chad Grossen, Dave Berman, Corey, Dennis Limmek, Dan Friedrich, John R. Randy All, Kevin R, Tom Hovel

Copies to: *All Present*, Building Oversight Committee

- I. Tom informed the group that a group from the UW Extension will be at the next meeting to discuss sustainability features of the buildings and compare that to the base line established for the Madison fire stations.
- II. Review of HVAC systems.
 1. Randy was asked how much area of the site would be required to be dedicated to geothermal wells for a building this size. Randy explained that he would have to confirm with Geo loop or Sustainable engineering on the actual area.
 2. Randy talked about the approximate cost per square foot for different mechanical systems. In-floor radiant heat (used primarily in the apparatus bay) costs \$6-7.00/ s.f. It is 95% efficient and there is an opportunity to share a boiler that would serve the administrative areas of the building. Infra-red gas fired radiant heat units suspended from the ceiling range from \$2-3.00/s.f. Headroom clearance can be an issue. The units are 97% efficient. Gas fired unit heaters are 80% efficient and range from \$3-5.00/s.f. The equipment will be equipped with no smoke exhaust capture units. Makeup error is mandatory in the truck bays and must run five hours per day per code. De-stratification fans will be required to move air. Infrared tube heaters are low maintenance but they are visible and their mounting heights can be restricted.
 3. The group decided that their number one option would be in floor heat and number two option would be infrared tube heaters. There could potentially be a \$40-50k cost difference between in-floor and infrared heat. There will be an energy recovery unit on the air exchanger and all equipment will be located on the mezzanine. There is a potential for the in floor heat to heat the small shop and SCBA rooms. Electric heat will be required to heat those rooms if infrared heat is selected. A forced air furnace on the mezzanine above the shop is another option to heat those spaces.
 4. Mechanical systems for the administrative area could potentially be multiple furnaces, with zoned control. These would be direct forced air units possibly in combination with perimeter radiant heat. Plumbing; the building will not utilize solar hot water due to staff load. The station would require additional storage of the heated water.
 5. The gear room should be under negative pressure.

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6. The toilets will be 1.28 gal per flush. The urinals will be .128 per flush. All of the faucets in the locker rooms will be manual. The public toilet rooms will have regulated push button faucets. All toilet fixtures will be wall mounted with in-wall carriers. The toilet partitions will be floor mounted.
7. The owner will provide the equipment for the SCBA breathing air. The contractor will provide the compressed air for the vehicles and the shop floor. The compressed air drop lines for the vehicles will require 90 psi at the connection to the truck. Air pressure should be regulated at 125 psi out of the storage tank and 165 psi out of the compressor.
8. There will be a 2 ½ inch diameter truck filler line with elevated vacuum breaker. The location will be identified by members of the fire department. All water lines in the truck bay will be ¾ inch. There will also be a separate truck filler hydrant out at the street location that will have a separate water meter.
9. CPVC piping was requested based on cost savings. Expansion loops will be required, the system will need to be fully insulated. The base bid will contain the specifications for CPVC. There will not be an alternate for copper piping.
10. The laundry room will contain a commercial extractor and residential washer and dryer. A trench drain will need to be installed for the extractor.
11. A discussion on floor drains for the truck bay resulted in several different options. Individual catch basins could cover the floor at a cost of approximately \$2500 per catch basin. Trench drains with HD plastic drains are approximately \$15/foot plus the catch basin. The direction given was to design intermittent grates between catch basins to reduce the length of the continuous trench drains. Heel proof covers will be required at a minimum in the EMS bay due to voter accessibility.
12. Only cold water will be provided for washing vehicles in the apparatus bay.
13. The city maintains 16 grains of hardness so the building water will need to be softened.
14. The building will not be LEED certified.
15. The building will be served with 208 volt 3-phase power. The main electrical service entrance transfer switch and main panel will be located on the northwest corner of the mezzanine. This is closest to the generator set located outside.
16. The group would like to consider all LED lighting which could potentially provide a 5 year payback. Occupancy sensors and day lighting sensors will be installed in the apparatus bay as well as the administrative areas where applicable.
17. Parking lot lighting should be LED full cutoff dark sky compliant. Cities restricts pole heights to 25 feet or less. Forward throw wall packs will be installed above all exterior doors. There will be a light pole near the dumpster to light that area. There could also be a security camera mounted to that pole. An occupancy sensor can be installed on parking lot lighting that will reduce lighting levels to 50% during unoccupied times. Flood lights should be considered on building corners to light the lot at night for practice and drills. These lights should be controlled separate from the parking lot lighting.
18. Dimmable light fixtures should be installed in the training rooms and in floor electrical outlets should be provided in the middle of the training room and the office cubicle area.
19. Ceiling mounted cord reels with 15-20 amp dedicated circuits should be mounted in locations to provide one per vehicle. The reels should be plastic housing (Reel Craft).
20. The occupancy class and load requirements should be determined by the fire station staff based on building use. Once these numbers are established they should be sent to John for the design of the life safety equipment. There will be notification throughout the building. The fire alarm will be Simplex but others will be allowed to bid.
21. The backup generator will need to power the entire building. The preference is to be able to size the generator so that it can be natural gas fired. Depending on the size a diesel generator may be required.

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22. Data system will be CAT 6 cable. The phone system is pre-established and utilized by all city buildings -- it is VOIP. Two data drops will be required at each location – one for voice and one for computer. WAP and cable TV locations will be shown on the plans and will need to be verified by fire department staff. Intern bunk rooms will be wired with CATV. Standard bunk rooms will be fed from WAP.
23. Fire departments staff will locate the data and cable drops as well as the access card reader locations. Current door control system is RSI (Floyd). Video surveillance may be an option or requirement. Matt will work with the fire department to spot the locations of the cameras. The entire system will connect with the police department. These will be I.P. cameras. Jeremy will work with the fire department to determine if fact TV locations are required.
24. There will be a smart board in the training room in the future. Current design should plan to provide a wall box and conduit rough in for future installation. Alerting system is tied to individual radios.
25. Kitchen: a type two cooktop hood is all that will be required. An automatic gas valve shutoff at all gas appliance locations will be required to shut off the gas when the alarm sounds. The facility will be required to have a grease trap. The owner will provide cut sheets for kitchen appliances, laundry room equipment and SCBA breathing air so the proper electric service can be designed.
26. Aluminum feeders will be acceptable. Data can be run on J hooks.
27. The plans should be reviewed by fire staff to determine the types of flooring materials that will be required throughout the facility. Burnished concrete floor system should be considered for the apparatus bay floors. Burnished concrete block should be considered in the locker rooms and restrooms to eliminate the need for tile on the wet walls.

III. Next Meeting

The next meeting is scheduled for 7/23/15 at 5:00/5:30 pm at the City Hall.

SEH believes that this document accurately reflects the business transacted during the meeting. If any attendee believes that there are any inconsistencies, omissions or errors in the minutes, they should notify the writer at once. Unless objections are raised within seven (7) days, we will consider this account accurate and acceptable to all.

If there are errors contained in this document, or if relevant information has been omitted, please contact Trevor Frank at 920.380.2806 or tfrank@sehinc.com.

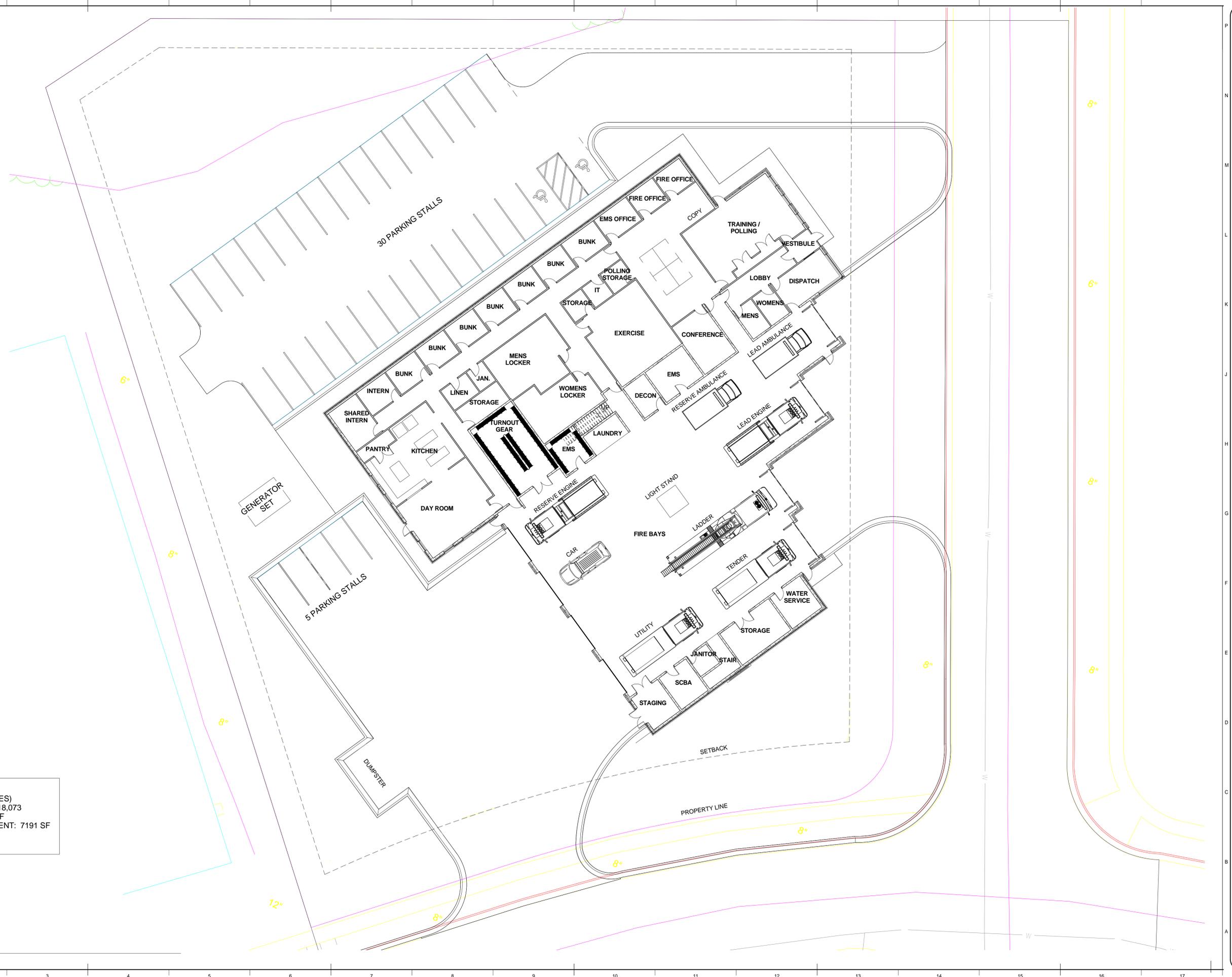
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SITE DATA:
TOTAL AREA: 72,295 SF (1.6 ACRES)
25% GREEN SPACE REQUIRED: 18,073
GREEN SPACE SHOWN: 25,264 SF
GREEN SPACE OVER REQUIREMENT: 7191 SF
BUILDING AREA: 20,070 SF
35 PARKING STALLS

① Level 1
1/16" = 1'-0"



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PRELIMINARY

MARK	DATE	DESCRIPTION

FITCHBURG FIRE
Enter address here

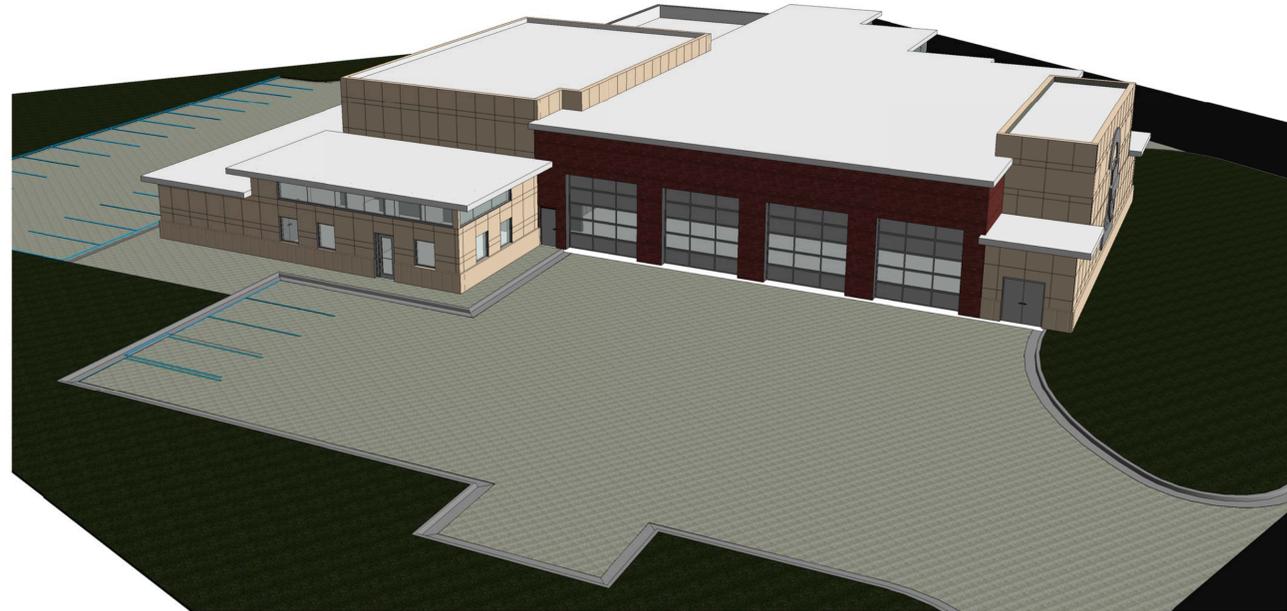
SEH FILE NO. _____
 ISSUE DATE JUNE 23, 2015
 DESIGN BY TMF
 DRAWN BY MIZ
 PROJECT MGR TMF
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FIRST LEVEL PLAN

A100



1 3D View 1



2 3D View 7



3 3D View 8



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PRELIMINARY

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FITCHBURG FIRE

Enter address here

SEH FILE NO. PROJECT NUMBER
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