Fire Station Planning Task Force September 7, 2017

- Committee members
 - Council Member Douglas Happel
 - Council Member Jessica Olson
 - Citizen Member Adam Hatfield
 - Citizen Member Steven McConaghy
 - Director of Planning & Development Jason Gilman
 - Police Chief Ron Tischer
 - Fire Chief Ken Gilliam

Fire Station Planning Task Force September 7, 2017

- In 2016 Five Bugles Design was hired to complete a detailed fire station needs assessment
- Report delivered to La Crosse Common Council on April 11, 2017
- Overview of City of La Crosse Fire Stations

Objectives of the Study

- Verify Station Size, Date of Construction, Station Site Dimensions
- Improvements Needed for Current Code Compliance
- Immediate Health and Safety Issues
- Space Needs Analysis
- Opinion of Probable Costs



Study Methodology Interactive Space Needs Programming

Proprietary Fire Station Software Provides:

- Inclusive space needs recommendations
- Assess existing building limitations and current condition
- Options and recommendations for corrective actions
- Evaluate ADA Compliance
- Identify health, safety, and security deficiencies



Fire Station #1



- Constructed in 1967
- Total Existing Area: 15,700 SF plus 8,900 SF Basement
- Station #1 is located at 726 5th Avenue South

Fire Station #1 Deficiencies

- Severe Site Limitations
- Non Compliant with ADA
- Non Compliant with Energy Code
- Lack of Programmed Space
- Lack of Functionality Gender Equity
- Lack of Fully Functional Encapsulated Exhaust
- Lack of Adequate Decontamination

Recommendations – Fire Station #1

• It is our recommendation the City begin planning for a replacement Central Fire Station.

 We recommend the City correct existing health safety issues concerning the lack of a complete apparatus exhaust system and adequate decontamination areas. Installation of an encapsulated exhaust system.



Opinion of Probable Construction Costs

City of La Crosse Fire Station #1 Replacement

PROJECT: City of La Crosse Fire Station #1 Replacement

LOCATION: La Crosse, WI PHASE: Study Estimate

Anticipated Construction	Costs
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 Estimated Construction Cost
 \$7,150,290

 Bidding Contingency
 5%
 \$357,515

 Probable Construction Cost
 \$7,507,805

Construction Contingency 5% \$375,390

Total Construction Cost

Not Including Site Acquisition Cost \$7,883,195

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	Soft Cost Architecture/Engineering Fee @ 8%	\$630,655
res	Possible Additional Services (Should LEED Certiciation be desired) Sustainable Design (LEED) \$37,000 Commissioning \$20,000 Technology \$8,000	
AB	TOTAL - ADDITIONAL SERVICES \$65,000	
ADDITIONAL (SOFT) COSTS / REIMBURSABLES	Reimbursables (estimated) PRINTING - EXISTING DOCUMENTS PRINTING - REVIEW DOCUMENTS \$3,500 PRINTING - BID DOCUMENTS \$9,000 PROJECT WEBSITE (dfm) \$3,000 POSTAGE / UPS SITE SURVEY (Topo & Historical) \$8,500 SOIL TESTING \$5,000 CONSTRUCTION TESTING \$15,000 LEED Certification Fees \$6,500	
S)	TOTAL - REIMBURSABLES	\$50,500
ADDITIONAL	Other Project Costs LAND ACQUISITION External SITE Costs \$15,000 INTERIOR SIGNAGE & GRAPHICS *TECH., TELECOM, SECURITY \$85,000 *FURNITURE & EQUIP \$145,000 Programming OTHER TOTAL OTHER COSTS	\$245.000
	TOTAL OTHER COSTS	\$245,000
	TOTAL ADDITIONAL COSTS	\$926,155

TOTAL PROJECT COST (Not Including Site Acquistion) \$8,809,349

*Technology (Provided by Owner)

Network, Comp, Phone
Video Surveillance In Constrction
AV Equipment In Construction
Alerting Wiring In Costruction
Alerting
Radio

*Furniture & Equipment (Provided by Owner)

Furniture Gear Lockers Plymovent SCBA Comp & Fill Extractor

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Fire Station #2



- Constructed in 1956
- Total Existing Area: 8,163 SF
- Total Program Space Requirement 20,944 SF
- Station #2 is located at 626 Monitor Street

Fire Station #2 - Deficiencies

- Lack of Programmed Space 20,144 SF vs 8,163 SF
- Site Limitations Including Floodplain Locations
- Non Compliant with ADA
- Non Compliant with Energy Code
- Lack of Functionality
 - Gender Equity
 - Lack of Apparatus Space
 - Training Areas
 - Fitness Area
 - Overhead Door Size not Adequate
 - Dormitory Area Antiquated
 - Storage Insufficient



Fire Station #2 - Immediate Concerns

- Lack of Adequate Decontamination
- Blood Borne Pathogens



Fire Station #2 - Recommendations

 Long term, it is our recommendation the City begin planning for a replacement Fire Station.

Recommendations for Immediate Concerns:

- Installation of adequate decontamination areas, including blood borne pathogens
- Creation of suitable medical storage areas
- Installation of on-site washer/dryers



Opinion of Probable Construction Costs

City of La Crosse Fire Station #2 Replacement

PROJECT: City of La Crosse Fire Station #2 Replacement

LOCATION: La Crosse, WI PHASE: Study Estimate

	Estimated Construction Cost		\$4,398,240	
g ed	Bidding Contingency	5%	\$219,912	
r train	Probable Construction Cost		\$4,618,152	
Anticip onstru Cos	Construction Contingency Total Construction Cost	5%	\$230,908	
1 ' 0	Not Including Site Acquisition Cost			\$4.849.060

	Soft Cost Architecture/Engineering Fee @ 8%	\$387,925
	Possible Additional Services (Should LEED Certiciation be desired)	
	Sustainable Design (LEED) \$37,000	- 1
S	Commissioning \$20,000	- 1
<u> </u>	Technology \$8,000	- 1
AB	TOTAL - ADDITIONAL SERVICES \$65,000	
ADDITIONAL (SOFT) COSTS / REIMBURSABLES	Reimbursables (estimated)	
	CONSTRUCTION TESTING \$15,000	- 1
ᄄ	LEED Certification Fees \$6,500	- 1
NAL (SC	TOTAL - REIMBURSABLES	\$50,500
Ĭ	Other Project Costs LAND ACQUISITION	
ADC	External SITE Costs \$15,000 INTERIOR SIGNAGE & GRAPHICS	
	*TECH., TELECOM, SECURITY \$85,000	- 1
	*FURNITURE & EQUIP \$145,000 Programming OTHER	
	TOTAL OTHER COSTS	\$245,000
	TOTAL ADDITIONAL COSTS	\$683,425

TOTAL PROJECT COST \$5,532,485

*Technology (Provided by Owner)

Network, Comp, Phone Video Surveillance In Constrction AV Equipment In Construction Alerting Wiring In Costruction Alerting Radio

*Furniture & Equipment (Provided by Owner)

Furniture Gear Lockers Plymovent SCBA Comp & Fill

Extractor

Fire Station #3



- Constructed in 1967
- Total Existing Area: 7,807 SF
- Station #3 is located at 1710 Losey Boulevard South

Fire Station #3 – Deficiencies

- Lack of Programmed Space 20,144 SF Program vs 7,807 SF Existing
- Severe Site Limitations
- Non Compliant with ADA
- Non Compliant with Energy Code
- Lack of Functionality
 - Gender Equity
 - Dormitory
 - Overhead Door Size
 - Lack of Training
 - Lack of Fitness
 - Apparatus Bay



Fire Station #3 - Immediate Concerns

- Lack of Fully Functional Encapsulated Exhaust
- Lack of Adequate Decontamination
- Blood Borne Pathogens



Fire Station #3 – Recommendations

 Long term, it is our recommendation the City begin planning for a replacement Fire Station.

Recommendations for Immediate Concerns:

- Installation of adequate decontamination areas, including blood borne pathogens
- Installation of complete encapsulated exhaust system
- Creation of suitable medical storage areas
- Installation of on-site washer/dryers



Opinion of Probable **Construction Costs**

City of La Crosse Fire Station #3 Replacement

PROJECT: City of La Crosse Fire Station #3 Replacement

LOCATION: La Crosse, WI Study Estimate PHASE:

Anticipated Construction Costs Bidding Contingency Total Construction Cost

Estimated Construction Cost \$4,398,870 \$219,944 5% Probable Construction Cost \$4,618,814

Construction Contingency \$230,941

Not Including Site Acquisition Cost \$4,849,754

	Soft Cost Architecture/Engineering Fee @ 8%		\$405,575
	Possible Additional Services		
	(Should LEED Certiciation be desired)		
	Sustainable Design (LEED)	\$37,000	
S	Commissioning	\$20,000	
9	Technology	\$8,000	
ΑB	TOTAL - ADDITIONAL SERVICES	\$65,000	
URS	Reimbursables (estimated)		
<u>≅</u>	PRINTING - EXISTING DOCUMENTS		
Σ	PRINTING - REVIEW DOCUMENTS	\$3,500	
₩.	PRINTING - BID DOCUMENTS	\$9,000	
Ψ.	PROJECT WEBSITE (dfm)	\$3,000	
S	POSTAGE / UPS		
S	SITE SURVEY (Topo & Historical)	\$8,500	
8	SOIL TESTING	\$5,000	
Ĕ.	CONSTRUCTION TESTING	\$15,000	
HO	LEED Certification Fees	\$6,500	
ADDITIONAL (SOFT) COSTS / REIMBURSABLES	TOTAL - REIMBURSABLES		\$50,500
NO.	Other Project Costs		
Ĕ	LAND ACQUISITION		
8	External SITE Costs	\$15,000	
A	INTERIOR SIGNAGE & GRAPHICS		
	*TECH., TELECOM, SECURITY	\$85,000	
	*FURNITURE & EQUIP	\$145,000	
	Programming		
	OTHER		
	TOTAL OTHER COSTS		\$245,000
	TOTAL ADDITIONAL COSTS		\$701,075

TOTAL PROJECT COST \$5,550,829

*Technology (Provided by Owner)

Network, Comp, Phone Video Surveillance In Constrction AV Equipment In Construction Alerting Wiring In Costruction Alerting Radio

*Furniture & Equipment (Provided by Owner)

Furniture Gear Lockers Plymovent SCBA Comp & Fill

Extractor

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Fire Station #4



- Constructed in 1940
- Total Existing Area: 7,807 SF
- Station #4 is located at 906 Gillette Street

Fire Station #4 - Deficiencies

- Lack of Space 14,924 SF Programmed vs 7,807 SF Existing
- Non Compliant with ADA
- Non Compliant with Energy Code
- Lack of Programmed Space
- Lack of Functionality
 - Gender Equity
 - Lack of Apparatus Space
 - Training Areas
 - Fitness Area
 - Overhead Door Size not Adequate
 - Dormitory Area Antiquated
 - Storage Insufficient



Fire Station #4 - Immediate Concerns

- Lack of Fully Functional Encapsulated Exhaust
- Lack of Adequate Decontamination
- Blood Borne Pathogens



Recommendations – Fire Station #4

 Long term, it is our recommendation the City begin planning for a replacement Fire Station.

Recommendations for Immediate Concerns:

- Installation of adequate decontamination areas, including blood borne pathogens
- Installation of complete encapsulated exhaust system
- Creation of suitable medical storage areas
- Installation of on-site washer/dryers



Opinion of Probable Construction Costs

City of La Crosse Fire Station #4 Replacement

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PROJECT: City of La Crosse Fire Station #4 Replacement

LOCATION: La Crosse, WI PHASE: Study Estimate

Anticipated Construction Costs

Estimated Construction Cost @ \$210 SF (Smaller Size) \$3,143,300
Bidding Contingency 5% \$157,165
Probable Construction Cost \$3,300,465

Construction Contingency 5% \$165,023

Total Construction Cost

Not Including Site Acquisition Cost \$3,465,488

	I		
	Soft Cost Architecture/Engineering Fee @ 8%		\$277,239
	Possible Additional Services		
	(Should LEED Certiciation be desired)		
		\$37,000	
S	ů .	\$20,000	
끮	Technology	\$8,000	
AB.	TOTAL - ADDITIONAL SERVICES	\$65,000	
ADDITIONAL (SOFT) COSTS / REIMBURSABLES	Reimbursables (estimated)		
표	PRINTING - EXISTING DOCUMENTS		
Σ	PRINTING - REVIEW DOCUMENTS	\$3,500	
₩.	PRINTING - BID DOCUMENTS	\$9,000	
~	PROJECT WEBSITE (dfm)	\$3,000	
S	POSTAGE / UPS	75,000	
Ĕ	SITE SURVEY (Topo & Historical)	\$8,500	
Ö	SOIL TESTING	\$5,000	
0		\$15,000	
E	LEED Certification Fees	\$6,500	
ō	ELLO CERTIFICATION PCCS	70,500	
(2	TOTAL - REIMBURSABLES		\$50,500
٦			400,000
Ž			
으	Other Project Costs		
Ë	LAND ACQUISITION		
8		\$15,000	
₹	INTERIOR SIGNAGE & GRAPHICS	, ,	
	*TECH., TELECOM, SECURITY	\$85,000	
		145,000	
	Programming	210,000	
	OTHER		
	TOTAL OTHER COSTS		\$245,000
	TOTAL ADDITIONAL COSTS		ć==3 ==0
	TOTAL ADDITIONAL COSTS		\$572,739

TOTAL PROJECT COST \$4,038,227

*Technology (Provided by Owner)

Network, Comp, Phone Video Surveillance In Constrction AV Equipment In Construction Alerting Wiring In Costruction Alerting Radio

*Furniture & Equipment (Provided by Owner)

Furniture Gear Lockers Plymovent SCBA Comp & Fill

Extractor

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New Fire Stations - Proposed

- Site Selection in Progress
- 2.5 Acre Site Optimal to Allow for
 - Drive Through Bays
 - Adequate Staff and Public Parking
 - Apparatus Bay Aprons to Allow for Exterior Vehicle Staging
 - On-site Training
- Building Size of 14,924 SF Recommended
- Single Story Masonry Stations Recommended



Opinion of Probable **Construction Costs**

City of La Crosse Fire Station #5 **New Construction**

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PROJECT: City of La Crosse Future Fire Station #5

LOCATION: La Crosse, WI PHASE: Study Estimate

Estimated Construction Cost @ \$210 SF \$3,143,300 Bidding Contingency 5% \$157,165 Probable Construction Cost \$3,300,465

Construction Contingency 5% \$165,023

Total Construction Cost

Not Including Site Acquisition Cost \$3,465,488

	Soft Cost Architecture/Engineering Fee @ 8%	\$277,239
URSABLES	Possible Additional Services (Should LEED Certiciation be desired) Sustainable Design (LEED) \$37,000 Commissioning \$20,000 Technology \$8,000 TOTAL - ADDITIONAL SERVICES \$65,000 Reimbursables (estimated)	
ADDITIONAL (SOFT) COSTS / REIMBURSABLES	PRINTING - EXISTING DOCUMENTS PRINTING - REVIEW DOCUMENTS \$3,500 PRINTING - BID DOCUMENTS \$9,000 PROJECT WEBSITE (dfm) \$3,000 POSTAGE / UPS \$1500 SITE SURVEY (Topo & Historical) \$8,500 SOIL TESTING \$5,000 CONSTRUCTION TESTING \$15,000 LEED Certification Fees \$6,500	
ADDITIONAL (SO	TOTAL - REIMBURSABLES Other Project Costs LAND ACQUISITION External SITE Costs \$15,000 INTERIOR SIGNAGE & GRAPHICS *TECH., TELECOM, SECURITY \$85,000 *FURNITURE & EQUIP \$145,000 Programming OTHER TOTAL OTHER COSTS	\$50,500 \$245,000
	TOTAL ADDITIONAL COSTS	\$572,739

*Technology (Provided by Owner)

Network, Comp, Phone Video Surveillance In Constrction AV Equipment In Construction Alerting Wiring In Costruction Alerting

Radio

*Furniture & Equipment (Provided by Owner)

Furniture Gear Lockers Plymovent

SCBA Comp & Fill

Extractor

TOTAL PROJECT COST

\$4,038,227

SUMMARY

Due to the age, site limitations, non-compliance with ADA, non-compliance with energy codes, lack of programmed space, and lack of gender equity;

We recommend replacing stations in the following order:

Station 2

Station 4

Station 3

Station 1

After reviewing response data, it is recommended to construct new stations in the proper locations to address growing response time issues.



Call Volume by Decade

<u>Year</u>	Responses	<u>Firefighters</u>
1960	849	93
1970	932	101
1980	1527	103
1990	2747	100
2000	3404	97
2010	5150	92
2016	5999	92

- * Optimal fire station location analysis (2 maps)
- * Optimal five station map shows how close stations 1, 3, 4 are to current locations
- * Accreditation strategy for analyzing response data (2 maps)

 Break the city into 47 planning zones and plot responses on map

 Analyze number of times you meet your 90% for travel time
- * Response data supports a fifth station in SE part of town
 Total number of priority response responses = 29,049
 498 calls in airport area < 2%
 551 calls in mall area = 2%
 SE part of town had 4929 calls = 17%
 Meet 90 percent goal in 8 more boxes change from red or yellow to green
- * Fifth station needs to have additional apparatus and personnel or we create holes in our current coverage