CITY OF ATKINS FIRE STATION REBUILDING

PRELIMINARY CONCEPTS

City of Atkins Iowa



ADVISORY COMMITTEE

The Committee's stated goal, "Gather information to rebuild the Atkins Fire Station that meets the community and Rural Fire District needs and to enable a sound decision for today and the future with a capacity of 20 years and expected life span of 50 years. Meeting codes and standards required which apply to this critical infrastructure building."

- Mayor Bruce Visser
- Mayor Pro-Tem Samantha Petersen
- Mayor Pro-Tem/Citizen Heather Rinderknecht
- Fire Chief Dan Rammelsburg
- Assistant Fire Chief Dave Kurka
- Planning and Zoning Chair Gordy Jacobsen
- City Administrator Kelly Groskurth
- Tom Gruis with East Central Iowa Council of Governments
- Solum Lang Architects Al Buck and Elyse Garlock

THE PROCESS



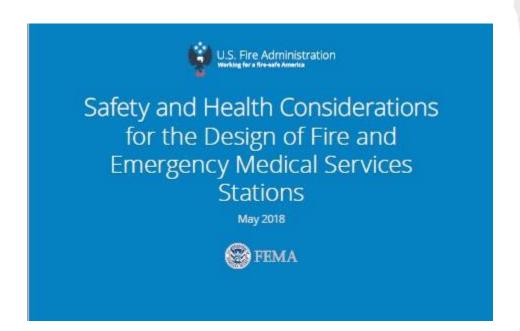




Photo courtesy of Ken Newell, Stewart-Cooper-Newell Architects.



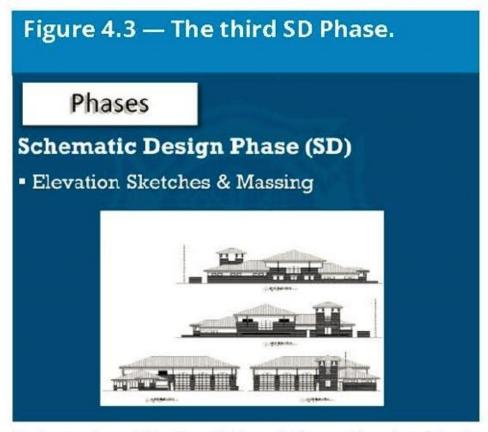


Photo courtesy of Ken Newell, Stewart-Cooper-Newell Architects.





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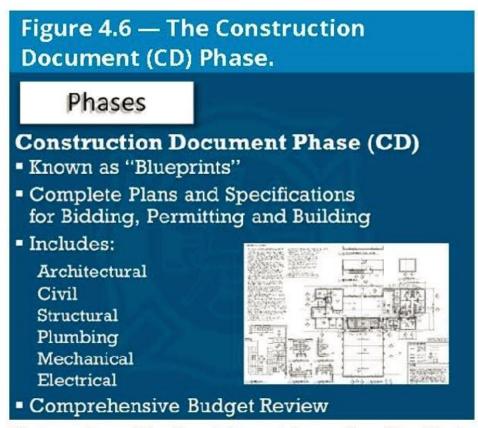




Photo courtesy of Ken Newell, Stewart-Cooper-Newell Architects.

Figure 4.8 — The Construction Administration (CA) Phase.

Phases

Construction Administration Phase (CA)

- Shop Drawing Review
- Construction Schedule
 Compliance
- Conduct Meetings and Inspections
- Review Pay Applications
- Generate Punch List
- Complete Project Closeout
- Year-end Warranty Inspection

PROCESS

- 9 potential sites:
 - Mayor Visser, City Engineer Nick Eisenbacher, and Public Works Department: Todd Damon, Jarrod Tomlinson, and Mike Rammelsburg
 - Team Reviewed:

Water Access

Sewer Access

Storm Water

Street Connectivity

Traffic Flow: Traffic Flow, Safety Turning onto street, Safety getting to Parkridge

Type of Neighborhood (Residential, Commercial)

Flood Plain

- Determined 4 Potential Sites are Viable:
 - Architect and Advisory Committee reviewed each site
 - · Developed Concepts for each site
 - Reviewed

Water Access

Sewer Access

Storm Water

Street Connectivity

Traffic Flow: Traffic Flow, Safety Turning onto street, Safety getting to Parkridge

Type of Neighborhood (Residential, Commercial)

Flood Plain

Parking

Ability to expand

- · Analyzed Pros and Cons of each site
- Narrowed sites to 2

PROCESS

Determined 2 Viable Sites

Architect and Advisory Committee reviewed each site

- Developed Multiple Concepts for each site
 - Reviewed with Each Concept

Water Access

Sewer Access

Storm Water

Street Connectivity

Traffic Flow: Traffic Flow, Safety

Flood Plain

Parking

Ability to expand

- Analyzed Pros and Cons of each site
- Architect Recommendation of City Hall City

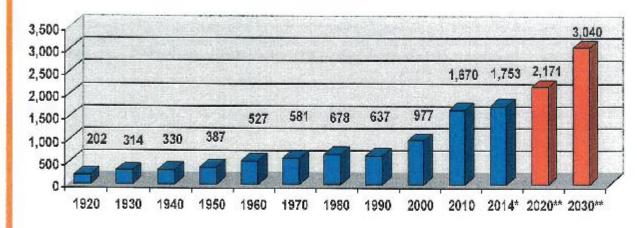
HISTORICAL INFORMATION

- Original Fire Station was constructed in 1992 (30 years)
- City Population in 1990 was 637 (236 houses)
- City Population in 2020 is 2,050 (722 Houses)
- Projected population in 2030 is 3,040 per the 2016 Comprehensive Plan

HISTORICAL INFORMATION

Profile and Analysis

Population Trends, City of Atkins (1920 - 2014)



City of Atkins Comprehensive Plan 2016

Source: U.S. Census

^{* 2014} is a U.S. Census estimate

^{** 2020} and 2030 predictions are based on a 30% and 40% increase per census, respectively

^{***} January 2016 estimate is approximate population is 1,850

DESIGN TEAM

Solum Lang Architects

Snyder & Associates Civil Engineers

M2B Structural Engineers

Design Engineers



ATKINS FIRE STATION – TIMELINE

2020

- AUG DERECHO
- AUG BEGAN WORKING WITH FEMA

2021

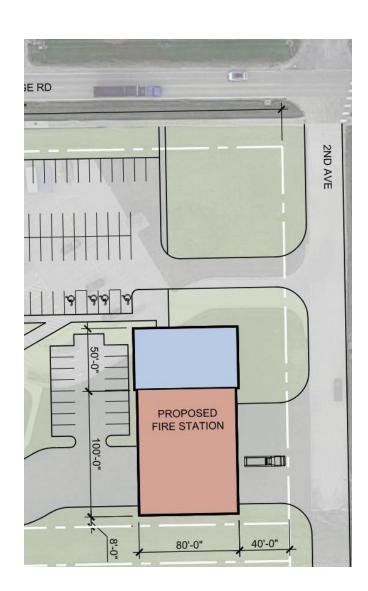
- FORMED THE FIRE STATION COMMITTEE
- JANUARY- INITIATED SITE ASSESSMENT PROCESS
- MARCH NARROWED SITE OPTIONS TO NINE LOCATIONS
- MAY/JUNE INTERVIEWED ARCHITECTS & HIRED SOLUM LANG ARCHITECTS
- SEPT BEGAN WORK WITH DESIGN TEAM & COMMITTEE TO DEVELOP SITE & BUILDING PROGRAMS

2022

- APRIL FINALIZED CONCEPTS FOR TWO SITES
- MAY RECOMMENDATION TO CITY COUNCIL

ATKINS FIRE STATION - CITY HALL SITE CONCEPT (RECOMMENDED)





OPINION OF PROBABLE COST: \$4,151,698.00 BUILDING AREA: 12,200 SF

PROS

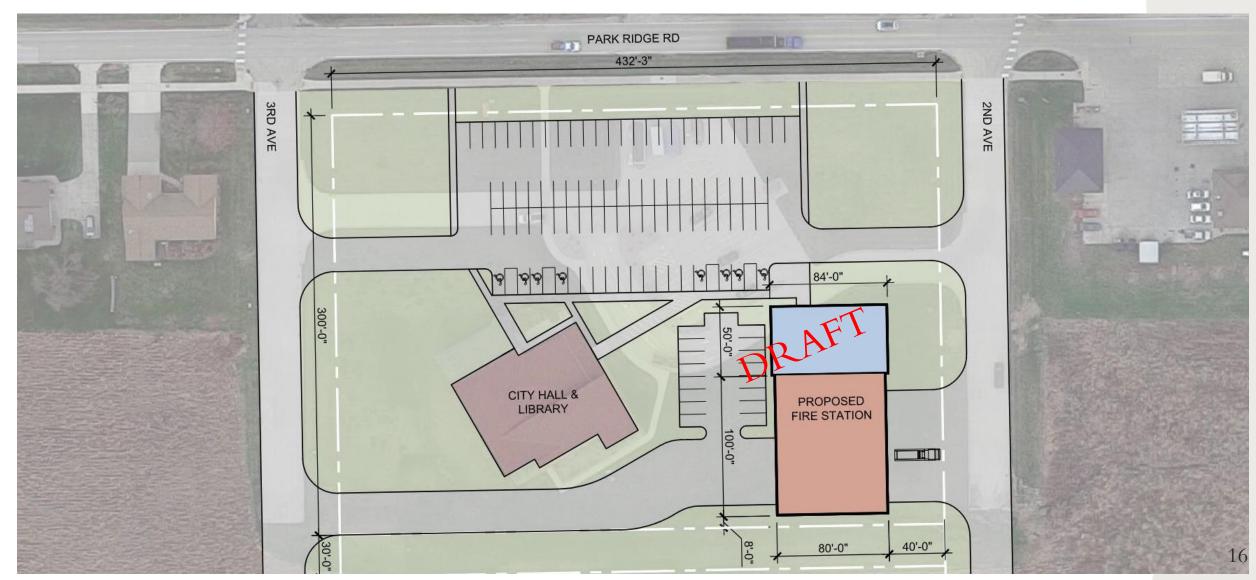
- CLEAR FRONT ENTRY
- PRESENCE ON PARK RIDGE
- POTENTIAL FOR EXPANSION
- LOCATED IN BUSINESS AREA
- CURB APPEAL
- EXIT ONTO SECONDARY ROAD
- SUFFICIENT PARKING (40+ SPACES)
- EXISTING GRADES
- OPTIMIZES PARKING LOT LAYOUT
- CITY OWNS PROPERTY

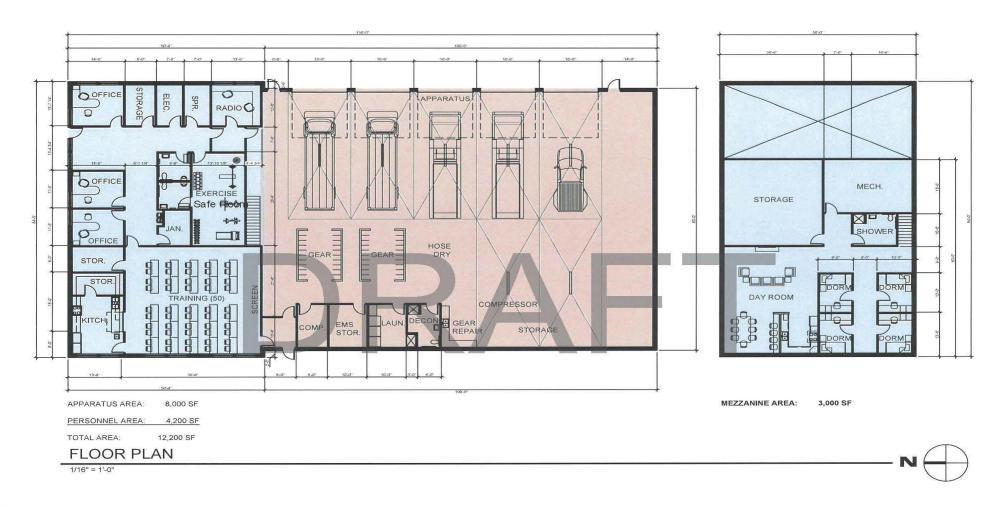
CONS

- \$70,000.00 HIGHER COST
- TEMPORARY DISRUPTION TO PARKING AT LIBRARY / CITY HALL

ATKINS FIRE STATION – CITY HALL SITE CONCEPT (RECOMMENDED)











OPINION OF PROBABLE COST - CITY HALL SITE

ATKINS FIRE STATION



Estimate #: 3	E.	Building Area	15,200 5	F		
The second control of the second	OPINIO	N OF PROBABLE C	DST			
TEM		QUANTITY	- Sha	COST / UNIT	COST	SUBTOTAL
DILDING		120.00		31 22222	*** *** ***	
Cancrete Farm Footings	100	500 L F		\$80.00	\$40,000.00	
Concrete Slab-on-Grade - 4"	99 S 5 N	4,200 SF		\$8.50	\$35,700,00	
Concrete Slab-on-Grade - 6"	0.6	8,000 SF	L. K.	\$10.50	584,000.00	
Building Excavation & Backfill		12,200 SF		\$2.00	\$24,400.00	
Brick Veneer on Steel Stud Backup		3,000 SF		\$30.00	\$90,000.00	
		2,000 SF		\$20.00	\$40,000.00	
Interior Walls & Paint - Concrete Block	Q 23					
Interior Walls & Paint - Steel Stud & Gyp	50	6,000 SF	i:	\$11.00	\$66,000.00	
Steel Rallings		1 L5		\$8,000.00	\$8,000.00	
Concrete-filled Steel Pan Stalr		115		\$8,000.00	\$8,000.00	
Mezzagine Structure		3,000 SF		\$15.00	\$48,000.00	
Mezzanine Floor		3,000 SF		\$11.00	\$33,000.00	
	100			211.00		
Lower Cabinets - Plastic Laminate		35 LF		\$500.00	\$17,500.00	
Upper Cabinets - Plastic Laminate		40 LF		\$200.00	\$8,000.00	
Counter Tops - Plastic Laminate		25 LF		\$40.00	\$1,000.00	
Counter Tops - Salld Surface	25	10 LF		\$80.00	\$800.00	
		20 EA		\$2,500.00	\$50,000.00	20.0 (0.00)(0.00)
Interior Doors & Frames						
Aluminum Glazed Single Doors		8 EA	100	\$3,600.00	\$28,800.00	
14'-0" x 14'-0" Overhead Doors		7 EA		\$6,000.00	\$42,000.00	
Glazing		1,500 SF	3"	\$55.00	\$82,500.00	
Ceiling - Accustic Tile		4,500 SF	W 80 10	\$6.50	\$29,250.00	
	4 C W			\$8.00	\$4,000.00	
Celling - Gypsum Board	100	500 SF				188 180
Flooring - Sealed Concrete	13 16707	8,000 SF		\$1.50	\$12,000.00	
Flooding - Polished Concrete		600 SF		\$5.00	: 00.000,E\$	
Flooring - Porcelain Geramic Title		400 SF		\$4.00	\$1,600.00	
Flooring - Walk-Off Mat	(0)	500 SF	*	\$6.50	\$3,250.00	
			78 TO	\$4.00		
Flooring - Carpet	- 2	750 SF			\$3,000.00	
Floor - Rubber / Synthetic Sparts Floor		400 SF	¥	\$10.00	\$4,000.00	
Pre-Engineered (Metal Building	57 37 8971	12,200 SF	2 (0)	\$35,00	\$427,000.00	
Signage Allowance - Interior & Exterior		1 LS		\$10,000.00	\$10,000.00	
	V 38E				\$4,000.00	
Flagpole		1 EA		\$4,000.00		
					BUILDING SUBTOTAL	\$1,208,800
	- 10 miles		of College		5000 BB	
TERNATE 1 - MEZZANINE BUILD OUT		The second control of		A comment		
Interior Walls & Paint - Steel Stud & Gyp	3.7	1,000 SF	3 11	\$11.00	\$11,000.00	
Lower Cabinets - Plastic Laminate		15 LF	1	\$500.00	\$7,500.00	
Upper Cabinets - Plastic Laminate	FIX CO.	10 LF		\$200.00	\$2,000.00	EG (F C)
	V + 1511-		- No. 111 (S)			
Counter Tops - Salid Surface	/	15 LF		\$40.00	\$600.00	
Interior Doors & Frames		7 EA		\$2,500.00	\$17,500.00	
Ceiling - Acoustic Tile	51	1,500 SF		\$6.50	\$9,750,00	
Ceiling - Gypsum Board		100 SF		\$3.00	\$800.00	
Flooring - Polished Concrete		700 SF		\$5.00	\$3,500.00	
Flooding - Fonsiled Concrete						
Flooring - Porcelain Ceramic Tile		100 SF		\$4.00	\$400.00	
Flooring - Carpet		1,200 SF	7	\$4.00	\$4,800.00	
					BUILDING SUBTOTAL	\$57,850
		881 (6)				
ECHANICAL, ELECTRICAL, PLUMBING				Netter consumer and a second consumer a		
MEP Improvemens - Placeholder	- 1	1 LS	3	\$600,000.00	\$600,000.00	
		= 100% -112			MEP SUBTOTAL	\$600,000
					7 7.50	
re .						
Site Improvements - Placeholder		1 L5		\$780,000.00	\$826,000.00	
					SITE SUBTOTAL	\$826,000
					DITE GOD TO THE	-J020,000
TIMAY ING CONTINGENCY	*	E 100 1 1				
	20	10.00 %		\$2,692,650.00	\$269,265.00	
Estimating Contingency (10%)		10.00 70		\$2,092,050.W		- *******
				ESTIMATING O	NTINGENCY SUBTOTAL	\$269,265
minute introduction and are a second		- 1531		Ollife	ING, MEP, & SITE TOTAL	\$2,961,919
				DUILO	HAD, WICH OF SHIT TO THE	34,203,343
JILDING, IMER, SITE, & CONTRACTOR FEES	7		V	100	V V V V V V V V V V V V V V V V V V V	
Building MEP, & Sile Subtotal (Une Item Above)					\$2,961,915.00	
		70.00		\$2,961,915.00	\$592,383.00	
Contractor Fees (10% Gen. Reg's, 5% OH, 5% Profit)		20.00 %				A
			TOTALBU	ALDING, MEP, SIT	E, & CONTRACTOR FEES	\$3,554,298
ICILLARY	4/5/1/1/2/2/2/2/2/					
	120	7000		60 FEA 000 00	f 242 200 T-	
Estimated Construction Contingency - 7%		7.00 %		\$3,554,298.00	\$248,800.86	
Furniture Allowance		1 LS		\$90,000.00	\$90,000.00	
Turnaut Gear Lockers	3	40 EA		\$300.00	\$12,000.00	
	(*)	1 LS		\$20,000.00	\$20,000.00	
Testing Estimate						
Printing Estimate	A 2	1 LS		\$20,000.00	\$20,000,00	
Professional Fees		1 LS		\$206,600.00	\$206,600.00	
		Mai 144			TOTAL ANCILLARY COST	\$597,400
TAL PROJECT COST						An east-1
Total Building, MEP, Site, & Contractor Fees (Line Item Above)						\$3,554,298
Total Ancillary Cost (Line Item Above)						\$597,400
William Co. All Co.				TOTAL PROJE	CT COST ESTIMATE	\$4,151,698.
				10 INC PROJE	EL COST ESTRAIGHE	34,131,030.

18

19

ESTIMATED TOTAL PROJECT COST

Estimated Cost: \$4,151,698.86

Cost of Issuance \$ 90,000.00

Less: Insurance \$ 600,000.00

<u>Less:</u> Grant – FEMA \$ 433,000.00

Estimated City Cost \$3,208,698.86

Estimated Bond Total: \$4,570,000.00

