# **Russellville Fire Department Central Station**

Russellville, Arkansas

the

buildable site.

he new Central Fire Station is a command center for the Russellville

Fire Department. Complying with City of Russellville's downtown

The new station will serve to stitch the downtown fabric of the city back together after years of sprawl and disuse. New sidewalks and streetscaping connect the site to Arkansas Tech University in the north

and a bustling downtown to the south and east. The building's architecture extends to the property line on the north, south, and east sides, emphasizing the city block and giving a street edge to pedestrians.

Functions of the building are divided

The first floor contains a main apparatus and auxiliary apparatus, with a large training room and offices in between. The second floor is living space for the firefighters, with bunk rooms, a day room, kitchen, gym, and small exterior patio. The third floor serves the administration and is comprised of offices, a large coworking space, a conference room, and storage. There is a large outdoor area located on the third floor, which functions as a green space for the living quarters and the offices. Because the site was so restrictive and the building expands to the edges of the property line, this exterior patio was important as a space to allow

by floors and connected through stairs, an elevator, and fire poles. The layout was designed to reduce response times and minimize tracking contaminants into the

living and working environment.

the firefighters to decompress.

historic buildings in the area.

residents and workers.

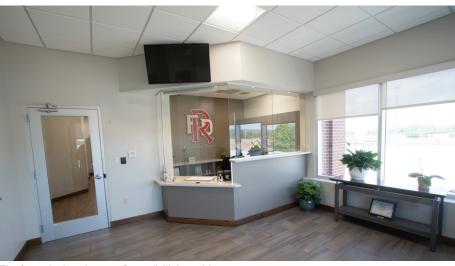
City's residents.

master plan and designed to context of the downtown historic buildings, the new station is a three-story complex on a zerolot line site, taking full advantage of the Architect

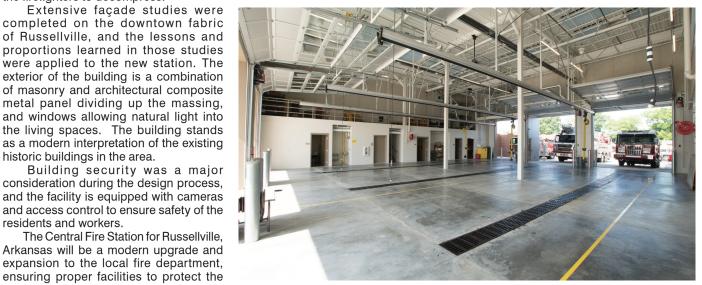
Jackson Brown Palculict Architects, Inc.



The Russellville Fire Station is a modern interpretation of the existing buildings in the area.



The front desk welcomes Russellville's residents.



The large main and auxiliary apparatus bays.

Design Cost Data/January-February 2019

# **CIVIC CV190140**

## Architect

Jackson Brown Palculict Architects, Inc. 12921 Cantrell Road, #201, Little Rock, AR 72223 www.jbparchitects.com

## **Project Team**

# Structural Engineer

Engineering Consultants, Inc. 401 W. Capitol, #305, Little Rock, AR 72201 **Mechanical Engineer** ISGI 136 Apple Blossom Loop, Maumelle, AR 72113 **Electrical Engineer** Lucas, Merriott & Associates 2225 W. 7th Street, Little Rock, AR 72201 **Civil Engineer & Landscape Architect** Crafton Tull Associates 10825 Financial Center Parkway, #300, Little Rock, AR 72211 **General Contractor** Van Horn Construction, Inc. 790 Tyler Road, Russellville, AR 72802

## **Project General Description**

Location: Russellville, Arkansas Date Bid: Mar 2016 Construction Period: Jun 2016 to Dec 2017 Total Square Feet: 24,849 Site: .047 acres. Number of Buildings: One. Building Sizes: First floor, 11,194; second floor, 6,857; third floor, 5,767; mezzanine, 1,031; total, 24,849 square feet.

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	DIVISION	соѕт	% OF COST	SQ.FT. COST	SPECIFICATI
	PROCUREMENT & CONTRACTING REQUIREMENTS GENERAL REQUIREMENTS	188,644 323,769	3.43 5.88	7.59 13.03	
	CONCRETE	292,375	5.31	11.77	Forming & accessorie layment, grouting,
	MASONRY	472,013	8.58	19.00	Unit, stone assemblie
	METALS	627,545	11.40	25.25	Structural metal fram
	WOOD, PLASTICS & COMPOSITES	161.982	2.94	6.52	Rough carpentry, fini
	THERMAL & MOISTURE PROTECTION	601,903	10.94	24.22	Dampproofing & wate membrane roofing, fla & smoke protection,
	OPENINGS	345,746	6.28	13.91	Doors & frames, spec windows, hardware, g
	FINISHES	667,456	12.13	26.86	Plaster & gypsum bo painting & coating.
	SPECIALTIES	101,835	1.85	4.10	Fire extinguishers & o boards, miscellaneou
	EQUIPMENT	19.027	0.35	0.77	Food service, miscell
	FURNISHINGS	8,394	0.15	0.34	Window treatment.
	CONVEYING SYSTEMS	92,424	1.68	3.72	Elevator (1 passenge
	FIRE SUPPRESSION	85,789	1.56	3.45	Water-based fire-sup
	PLUMBING	257,169	4.67	10.35	Piping & pumps, equi
	HVAC	599,046	10.89	24.11	Air distribution, centr equipment.
	ELECTRICAL	657,872	11.96	26.47	Low-voltage transmis
		5,502,989	100%	\$221.46	
	EXISTING CONDITIONS	25,000			Demolition & structur
	EARTHWORK	157,102			Site clearing, earth m
	EXTERIOR IMPROVEMENTS	41,216			Bases, bollards & pav
	UTILITIES	75,447			Water, sanitary sewe
	TOTAL PROJECT COST	5,801,754			
	UPDATED EST	MATE	<b>TO FE</b>	BRUARY	/ 2019: \$245.6

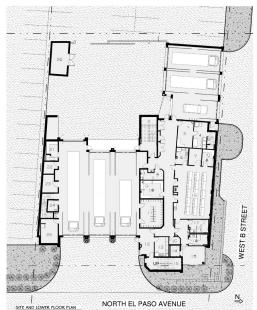
### **Regional Cost Trends**

EASTERN U.S.	Sq.Ft. Cost	Total Cost	CENTRAL U.S.	Sq.Ft. Cost	Total Cost	WESTERN U.S.	Sq.Ft. Cost	Total Cost
Atlanta, GA	\$286.03	\$7,107,443	Dallas, TX	\$276.70	\$6,875,678	Los Angeles, CA	\$369.97	\$9,193,323
Pittsburgh, PA	\$360.64	\$8,961,558	Kansas City, KS	\$373.08	\$9,270,577	Las Vegas, NV	\$338.88	\$8,420,774
New York, NY	\$460.13	\$11,443,712	Chicago, IL	\$388.62	\$9,656,851	Seattle, WA	\$369.97	\$9,193,323

For more information on this project and similar projects visit www.dcd.com

Building Height: First floor, 15'; second floor, 14'; third floor, 14'; rappel level, 12' total, 55'. Basic Construction Type: New/II B/Sprinklered. Foundation: Cast-in-place, pier & grade beam, slab-on-grade. Exterior Walls: CMU, brick, curtain wall, storefront. Roof: Membrane, metal. Floors: Concrete.

#### Interior Walls: CMU, metal stud drywall.



#### IONS

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	-	L
	Forming & accessories, reinforcing, cast-in-place, precast, case decks & under	L
	layment, grouting.	L
	Unit, stone assemblies.	L
	Structural metal framing, joists, decking, cold-formed metal framing.	
	Rough carpentry, finish carpentry, architectural woodwork.	L
	Dampproofing & waterproofing, weather barriers, roofing & siding panels,	
	membrane roofing, flashing & sheet metal, roof & wall specialties & accessories, fire	
	& smoke protection, joint protection.	
	Doors & frames, specialty doors & frames, entrances, storefronts & curtain wall,	
	windows, hardware, glazing.	
	Plaster & gypsum board, tiling, ceilings, flooring, wall finishes, acoustic treatment,	
	painting & coating.	
	Fire extinguishers & cabinets, ship ladders, signage, toilet accessories, chalk & tack	
	boards, miscellaneous.	
	Food service, miscellaneous.	
	Window treatment.	
	Elevator (1 passenger).	
	Water-based fire-suppression.	
	Piping & pumps, equipment, fixtures.	
	Air distribution, central heating equipment, central cooling equipment, central HVAC	
	equipment.	
	Low-voltage transmission, lighting.	
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	Demolition & structure moving, site demolition.	
	Site clearing, earth moving, earthwork methods.	
	Bases, bollards & paving, wetlands, irrigation, planting, site furnishings, fencing.	
	Water, sanitary sewerage, storm drainage, electrical.	
VO		L
T 2	019: \$245.61 PER SQUARE FOOT	L