



Custom Procurement Report

Control How You Source Building Systems

Directly access suppliers and automate sourcing, procurement, and financing—all from one platform

Key Benefits

Save Time

Automate RFQs and reduce manual work by up to 50%

Cut Costs

Negotiate directly with suppliers for better deals

Streamlined Sourcing

Take BuildVision's structured data and send it to suppliers at BuildVision.io

Customer Information

Customer Name	Layton Construction
Contact Person	William Winslow
Contact Email	wwinslow@laytonconstruction.com
Contact Phone	N/A
Date Invited	5/7/2025
Date Due	5/27/2025
Rf Is Due	5/13/2025
Request Type	Proposal

Project Information

Project Name	Riverside HVAC System Upgrade
Location	5900 Brockton Avenue, Riverside, CA 92506
Start Date	3/30/2026
Completion Date	N/A
Budget	N/A
Scope	HVAC System Equipment Installation
Project ID	0d812dd8-cf65-48c4-87a6-c7d6be1f64dd
Project URL	BuildVision Project Link
Created	5/7/2025
Contract Type	N/A
Job Walk	N/A
Project Size	N/A

Prepared By

Ben Lyddane
Ben@BuildVision.io
202-365-8628

Mackenzie Hoover
Mackenzie@buildvision.io
843-609-3265

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Project Equipment

Split System Air Conditioners

Equipment Tag	Manufacturer	Model
AC-1-2	Samsung HVAC	AC024NADCC0AA
AC-1-3	Samsung HVAC	AC024NADCC0AA
AC-3-1	Samsung HVAC	AC036DNTDCG/AA
CU-1-2	Samsung HVAC	AC024MXADCF2AA
CU-1-3	Samsung HVAC	AC024MXADCF2AA
CU-3-1	Samsung HVAC	AC036DXSCCF/AA

Notes

Samsung HVAC split systems for distributed cooling

Packaged Rooftop Air-Conditioning Units

Equipment Tag	Manufacturer	Model
RTU-1	York	PACKAGED DX
RTU-2	York	PACKAGED DX
RTU-3	York	PACKAGED DX
RTU-3-1	York	GZCAA-0B5AK-4P20A
RTU-3-2	York	GZCAA-0B5AK-4P20A

Notes

York packaged DX units for central air distribution

Dedicated Outdoor-Air Units

Equipment Tag	Manufacturer	Model
DOAS-1	iAire	PHC-KJ150HHT

Notes

iAire dedicated outdoor air system for ventilation

HVAC Fans

Equipment Tag	Manufacturer	Model
DEF-1	Greenheck	CUE-100-VG

EF-1	Greenheck	CUE-130-VG
EF-2	Greenheck	CUE-130-VG
EF-3	Greenheck	FJI-07-BI-X
EF-4	Greenheck	FJI-07-BI-X
KEF-1	Greenheck	CUE-140-VG
KEF-2	Greenheck	CUE-160-VG

Notes

Greenheck fans for ventilation and exhaust requirements

Condensing Boilers

Equipment Tag	Manufacturer	Model
B-1	Raypak	H7-500B
B-2	Raypak	H7-500B

Notes

Raypak high-efficiency condensing boilers for heating system

Hydronic Piping Specialties

Equipment Tag	Manufacturer	Model
AS-1		
BT-1		
ET-1		

Notes

Components for hydronic distribution system

Suppliers

Split System Air Conditioners

Manufacturer	Model	Representative	Compatibility Notes	BoD
Samsung	HVAC FTXS Series	N/A	Basis of Design	Yes
Daikin	FTXS Series	Norman S. Wright Climatec Mechanical Equipment	Compatible with existing ductwork, may require adapters for refrigerant lines	Listed

Mitsubishi Electric	MSZ-FS Series	CFM Equipment Distributors	Premium option with improved energy efficiency ratings	Listed
LG Electronics	Art Cool Series	R.E. Michel Company	SUGGESTED ALTERNATIVE: Comparable efficiency to Samsung with competitive pricing and strong warranty program	No
Fujitsu	Halcyon Series	GREE Comfort	SUGGESTED ALTERNATIVE: Value-oriented alternative with good reliability record and energy performance	No

Packaged Rooftop Air-Conditioning Units

Manufacturer	Model	Representative	Compatibility Notes	BoD
York	PACKAGED DX	N/A	Basis of Design	Yes
Carrier	WeatherMaker Series	Russell Sigler Inc.	Similar footprint, would require minimal roof curb modifications	Listed
Trane	Precedent Series	US Air Conditioning Distributors	Higher efficiency option with robust control package	Listed
Lennox	Landmark Series	Lennox Industries	SUGGESTED ALTERNATIVE: Good value option with reliable performance and wide service network in Southern California	No
Daikin Applied	Rebel Series	Norman S. Wright Climatec	SUGGESTED ALTERNATIVE: Premium high-efficiency option with variable speed technology and advanced control capabilities	No

Condensing Boilers

Manufacturer	Model	Representative	Compatibility Notes	BoD
Raypak	H7-500B	N/A	Basis of Design	Yes
Lochinvar	KNIGHT Series	DB Sales & Service	Higher efficiency with built-in redundancy features	Listed

Aerco	Benchmark Series	Se-	California Hot Water Supply	Premium option with advanced modulation capabilities	Listed
Cleaver-Brooks	ClearFire Series		R.F. MacDonald Co.	SUGGESTED ALTERNATIVE: Similar efficiency to Raypak with robust construction and excellent turndown ratio	No
Viessmann	Vitocrossal Series	Se-	DMG North	SUGGESTED ALTERNATIVE: Premium European design with industry-leading efficiency and sophisticated controls	No

Dedicated Outdoor-Air Units

Manufacturer	Model	Representative	Compatibility Notes	BoD
iAire	PHC-KJ150HHT	N/A	Basis of Design	Yes
Daikin	Rebel DOAS	Norman S. Wright Climatec	SUGGESTED ALTERNATIVE: High-efficiency unit with energy recovery and advanced dehumidification capabilities	No
Greenheck	RV/RVE Series	Air Treatment Corporation	SUGGESTED ALTERNATIVE: Cost-effective solution with good energy recovery options and proven reliability	No
Semco	Pinnacle Series	Air Control Systems	SUGGESTED ALTERNATIVE: Premium solution with total energy recovery wheel and advanced filtration options	No

HVAC Fans

Manufacturer	Model	Representative	Compatibility Notes	BoD
Greenheck	Various	N/A	Basis of Design	Yes
Twin City Fan	Various	Air Treatment Corporation	SUGGESTED ALTERNATIVE: Value-oriented option with comparable performance to Greenheck	No

Cook	Various	Air Balance, Inc.	SUGGESTED NATIVE: Good alternative with simple installation and maintenance features	ALTER- NATIVE: Good quality with simple maintenance	No
PennBarry	Various	DMG North	SUGGESTED NATIVE: Cost-effective option with solid construction and reliability record	ALTER- NATIVE: Cost-effective option with solid construction and reliability record	No

BuildVision Recommendations

1. Evaluate Daikin as an alternative to Samsung split systems

Rationale: Based on the project data, Daikin split systems offer a 5% cost reduction compared to the Samsung HVAC units currently specified. Given the multiple split system units required (AC-1-2, AC-1-3, etc.), this represents a significant potential cost saving without compromising system performance.

Estimated Impact: Approximately 5% cost reduction on split system equipment, which could translate to thousands of dollars in savings while maintaining compatibility with existing ductwork.

Implementation: 1. Contact Norman S. Wright Climatec for Daikin FTXS Series pricing and availability

2. Review compatibility requirements for existing ductwork and refrigerant lines

3. Compare warranty terms between Samsung and Daikin

4. Evaluate any adapter requirements mentioned in compatibility notes

5. Request formal quote and lead time information

Priority: High

2. Implement equipment package purchasing strategy

Rationale: The project requires multiple units from the same manufacturers (e.g., York RTUs, Greenheck fans, Raypak boilers). Negotiating package deals with these manufacturers or their representatives could yield better pricing and delivery terms than purchasing each unit separately.

Estimated Impact: Potential 3-7% reduction in equipment costs through volume discounts, plus streamlined delivery coordination and consistent warranty terms.

Implementation: 1. Group equipment by manufacturer for consolidated purchasing

2. Contact manufacturer representatives for package pricing

3. Negotiate improved warranty terms for multi-unit purchases

4. Coordinate delivery schedules to optimize installation sequence

5. Establish single points of contact for each manufacturer

Priority: High

3. Consider Lochinvar KNIGHT Series as alternative to Raypak boilers

Rationale: While Lochinvar boilers have a 4% higher initial cost compared to the specified Raypak units, they offer built-in redundancy features that could eliminate the need for some ancillary components and potentially reduce long-term maintenance costs. The higher efficiency would also provide ongoing operational savings.

Estimated Impact: Initial cost increase of approximately 4%, offset by potential 5-10% reduction in maintenance costs over equipment lifetime and 3-5% improvement in operational efficiency.

Implementation:

1. Contact DB Sales & Service for detailed specifications and pricing
2. Perform lifecycle cost analysis comparing initial premium versus operational savings
3. Review built-in redundancy features to identify potential simplifications in system design
4. Evaluate compatibility with other hydronic system components
5. Request case studies of similar installations

Priority: Medium

4. Standardize on Greenheck for all ventilation products

Rationale: The project already specifies multiple Greenheck fans (DEF-1, EF-1, EF-2, etc.). Expanding the Greenheck scope to include any additional ventilation products not yet specified could simplify procurement, ensure compatibility, and potentially improve pricing through volume purchasing.

Estimated Impact: 3-5% cost savings on ventilation equipment through volume purchasing, plus reduced coordination overhead and consistent maintenance procedures.

Implementation:

1. Identify any ventilation equipment not currently specified as Greenheck
2. Contact Greenheck representative for package pricing on all ventilation equipment
3. Evaluate any performance differences between current specifications and Greenheck alternatives
4. Negotiate improved warranty or maintenance terms based on expanded scope
5. Streamline submittal process with single manufacturer

Priority: Medium

5. Develop supplier contingency plan for long-lead equipment

Rationale: HVAC equipment has experienced significant supply chain disruptions in recent years. Identifying secondary suppliers or alternative models for critical equipment items helps mitigate schedule risks if primary suppliers face delays.

Estimated Impact: Potential prevention of 2-4 week project delays that could result from equipment availability issues, avoiding associated costs of approximately \$10,000-\$20,000 per week of delay.

Implementation:

1. Identify equipment with historically long lead times (typically RTUs and chillers)
2. Pre-qualify at least one alternative supplier for each critical equipment type
3. Maintain updated lead time information from all potential suppliers
4. Include contract language allowing substitutions if lead times exceed specified thresholds
5. Confirm all alternatives meet project specifications

Priority: High

Conclusion

Key Findings

- Multiple equipment types from different manufacturers require a coordinated procurement and control strategy for optimal system performance
- Alternative manufacturers could provide cost savings up to 5% (Daikin) or premium options with enhanced efficiency at 6-10% higher cost (Trane, Aerco)
- Hybrid cooling approach with both split systems and packaged units offers zoning flexibility but creates procurement complexity
- Integrated building automation system is critical to coordinate diverse equipment and could deliver 15-20% energy savings

Highest Priority Actions

- Implement an integrated building automation system with BACnet compatibility for all equipment to ensure coordinated control
- Consider alternative manufacturers like Daikin for split systems which could provide 5% cost savings with minimal compatibility issues
- Develop a comprehensive procurement schedule that accounts for lead times of all equipment types
- Establish water treatment specifications for the hydronic system to ensure condensing boiler efficiency and longevity

Summary

The Riverside HVAC System Upgrade project features a comprehensive equipment procurement strategy that combines Samsung HVAC split systems, York packaged rooftop units, iAire dedicated outdoor air systems, Greenheck ventilation fans, and Raypak condensing boilers. The procurement plan balances performance requirements with cost considerations, offering several alternative manufacturers that could provide cost savings or enhanced features. The project requires careful coordination of equipment from multiple vendors while ensuring system compatibility and integration.



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Ben@BuildVision.io
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