



MAPS 3 Transit/Modern Streetcar

November
2016

JACOBS®

Vehicle Production Status

- Final Design Review process near completion
- Preliminary Milestones
 - June 2016 – Mockup review – Dallas
 - Oct. 18-20, 2016 – Final Design Review
 - Nov. 2016 – Design complete
 - Dec. 2016 – Carbody complete (earliest)
 - Dec. 2016 – Commence assembly (earliest)
 - Apr. 2017 – Subsystems delivered
 - Apr. 2017 – Car complete
 - **Apr. 2017 – Spare Parts Order**
 - May 2017 – Test at BEC complete
 - June 2017 – Car #1 delivery (earliest)
 - Nov 2017 – Car #6 delivery (earliest)
- Storage options being evaluated



Vehicle Design Changes – Cost Impact



Item Description	Detail	Cost
Wheelchair Tiedowns	Remove tie downs from vehicles; personal wheel locks have been found to be adequate	(\$2,790)
Window Vandal Film	Add protective vandal film to side windows and door panel windows to prevent etching or graffiti damage	\$11,455

Amendment #3

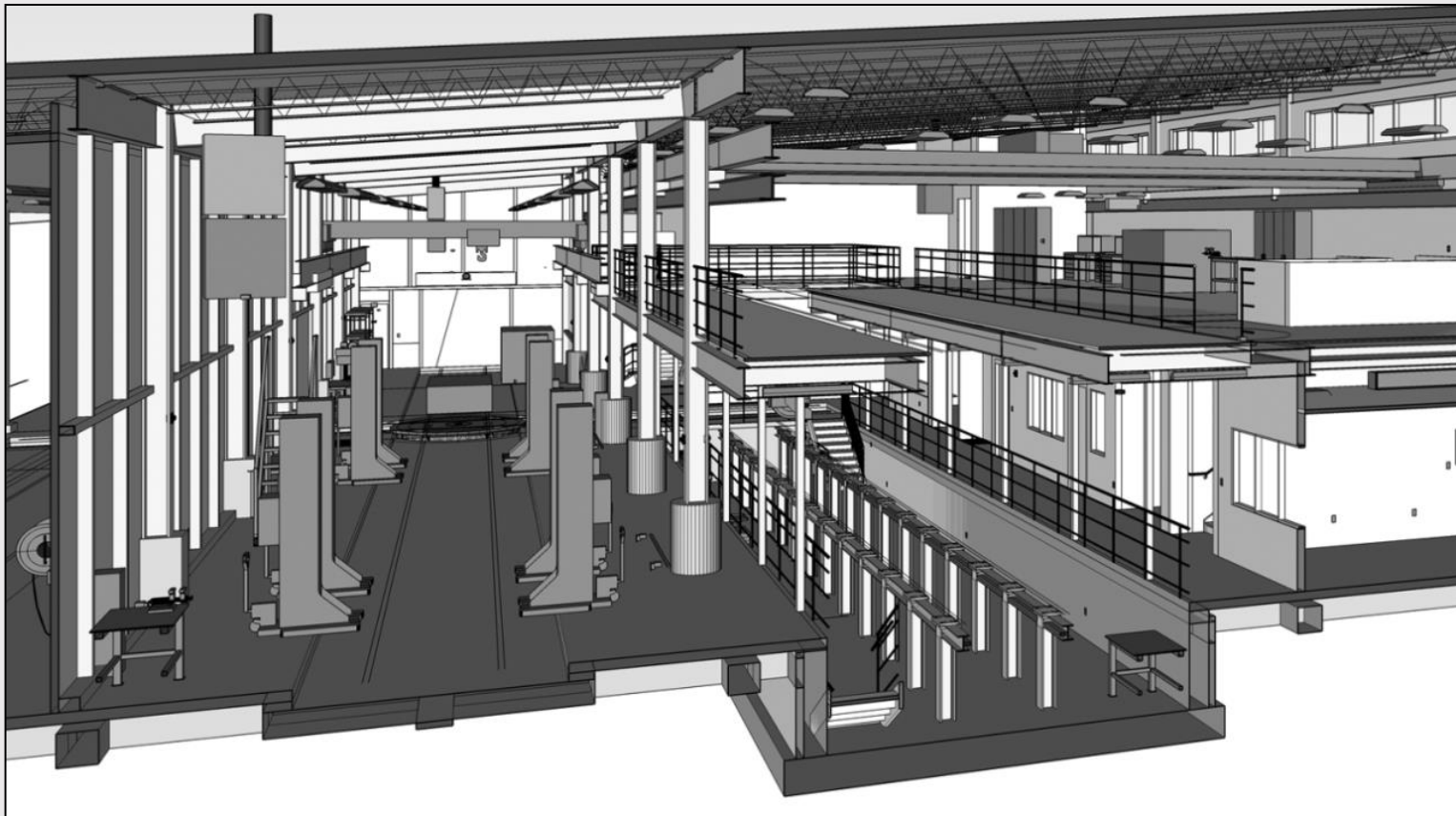
Cost Impact: \$8,665

Schedule Impact: 0 days

S&MF Construction

Construction Notice to Proceed – Aug 3, 2016

Construction Completion Date – Sept. 23, 2017



S&MF Foundation Work



S&MF Maintenance Pit



Rail/Trackwork Delivery

- Straight Rail (Wirth Rail)
 - Two deliveries from Houston, 50 total truckloads
 - Delivery dates:
 - Rolling #1 – Delivered to South Staging Area
 - Rolling #2 – Oct 31-Nov 11, 2016 (Delivered to North Staging Area)
- Special Trackwork (Cleveland Track Material)
 - First shipment scheduled for March 2017
 - Second shipment scheduled for July 2017



Rail Arriving near NW 16th St. and Broadway Ave.

Mainline Award Recommendation



Company	Herzog Contracting Corp.	Archer Western	Connect OKC
Base Bid	\$50,000,586.61	\$52,766,284.68	\$56,864,864.00
Bid Alternates	(\$1,094,000.00)	(\$1,175,496.22)	(\$1,145,000.00)
Bid Including Deductive Alternates	\$48,906,586.61	\$51,590,788.46	\$55,719,864.00

- Engineer's estimate: \$57.1 M
- Herzog Contracting Corp. low bid recommended
- Base bid recommended (do not use deductive alternates)
- Prequalification:
 - All bidders responsive and prequalified as required
 - Herzog/Stacey-Witbeck JV prequalified as required
 - C3M Electrical Systems subcontractor prequalified as required

Herzog/Stacey and Witbeck Background



- Excellent history constructing modern streetcar systems across the U.S.
 - Portland
 - Seattle
 - Salt Lake City
 - Dallas
 - Kansas City
 - Detroit
- History working with design team on rail transit
- Experience indicates:
 - Understanding of sensitivities of downtown environment
 - History of on-time/on-budget
 - Successful stakeholder and community involvement

HERZOG

**Stacy and
Witbeck**

Comments/Questions

