

MOTION NO. M2013-14

Contract for Construction Management and Engineering Support Services for a Positive Train Control System

MEETING:	DATE:	TYPE OF ACTION:	STAFF CONTACT:	PHONE:
Capital Committee	3/14/13	Final Action	Ahmad Fazel, DECM Executive Director Eric Beckman, Project Director Peter Brown, Construction Manager	206-398-5389 206-398-5251 206-903-7473

PROPOSED ACTION

Authorizes the chief executive officer to execute a contract with LTK Engineering Services, LLC to provide construction management and engineering support services for a Positive Train Control system on the Sounder Tacoma to Lakewood rail segment in the amount of \$2,321,817, with a 10% contingency of \$232,181, for a total authorized contract amount not to exceed \$2,553,998, contingent upon Board approval of Resolution No. R2013-06 amending the Adopted 2013 Budget.

KEY FEATURES SUMMARY

- The consultant will provide both construction management and technical support to the project team while Sound Transit's Positive Train Control (PTC) system is being designed and built along approximately nine miles of the Sound Transit-owned Lakeview Subdivision and installed on all locomotives and cab cars.
- The scope of work under this contract includes:
 - Technical support and design review;
 - Field inspections;
 - Quality assurance surveying;
 - Construction safety oversight;
 - Environmental monitoring and inspecting;
 - Third-party coordination assistance;
 - Radio system design and engineering review.
- Sound Transit will perform construction management roles of Resident Engineer, scheduling, estimating and document control.

BACKGROUND

The Rail Safety Improvement Act of 2008 and other federal regulations require all railroads that carry passenger trains and certain toxic materials to be equipped with Positive Train Control (PTC) technology that is tested, commissioned, and certified by December 31, 2015. Railroads across the country are all in the process of procuring their own PTC systems, and resources with expertise in PTC systems are quite limited.

The first step in meeting the deadline for implementation was to file a PTC Implementation Plan (PTCIP) with the FRA for review and approval. The PTCIP outlines the strategy and approach of the Agency for meeting the objectives and timeline of the legislation. Sound Transit completed this plan in 2010 consistent with the FRA timeline for doing so and has an approved PTCIP on file. This action for moving forward with PTC on Sounder equipment and Sound Transit owned railway is wholly consistent with that plan.

PTC systems are integrated command, control, communications and information systems for controlling train movements with safety, security, precision and efficiency, issuing movement authorization to train and maintenance-of-way crews and track the location of the trains. They improve railroad safety by reducing the probability of collisions between trains, casualties to roadway workers, damage to equipment, and overspeed accidents. PTC systems have the ability to automatically enforce movement authorization and continually update operating data systems with information on the location of trains, locomotives, cars and crews. They have the capability to stop a train should the locomotive crew be incapacitated. In addition to providing a greater level of safety and security, PTC systems also enable railroad companies to run scheduled operations and provide improved running time, greater running time reliability, higher asset utilization and greater track capacity.

Sound Transit issued a Request for Qualifications (RFQ), and received three statements of qualification. Following Sound Transit's review and evaluation of the proposals, two firms were invited to interview. After evaluating proposal and interview scores, LTK Engineering Services, LLC was deemed the most qualified based on its responsiveness to the criteria listed in the RFQ.

FISCAL IMPACT

Project Budget

Positive Train Control	2013 TIP	Board Approvals	This Action	Board Approved Plus Action	Uncommitted/ (Shortfall)
Agency Administration	2,238	277	-	277	1,962
Preliminary Engineering	-	-	-	-	-
Final Design	14,875	12,744	851	13,595	1,280
3rd Party	6,378	3,900	-	3,900	2,478
Right of Way	-	-	-	-	-
Construction	27,701	24,981	-	24,981	2,720
Construction Management	1,863	-	1,703	1,703	160
Vehicles	-	-	-	-	-
Contingency	-	-	-	-	-
Total Project Budget	\$ 53,054	\$ 41,901	\$ 2,554	\$ 44,455	\$ 8,599

Contract Detail

LTK Engineering	Board Approvals to Date	Current Approved Contract Status	Proposed Action	Proposed Total for Board Approval
Contract			2,322	2,322
Contingency			232	232
Total Contract Amount	\$ -	\$ -	\$ 2,554	\$ 2,554
Percent Contingency	0%	0%	10%	10%

Notes:

Amounts are expressed in Year of Expenditure \$000.

Board Approvals = Committed to-date + Contingency, and includes pending Board Actions.

Project budget is located on page 111 of 198 of the 2013 Proposed Transit Improvement Plan.

SMALL BUSINESS PARTICIPATION

Small Business Goals

Sound Transit Goal: 8%

Commitment: 16.66%

Subconsultant/Subcontractor	Business Type	% of Work	Amount
Lin & Associates	DBE	2.68%	\$61,350
Hatfield & Dawson Consulting Engineers	Small Business	3.76%	\$86,094
RF Networks	DBE	8.55%	\$195,491
Systems Consulting	DBE	0.44%	\$9,962
Otto Rosenau & Associates	DBE	1.23%	\$28,152
Total		16.66%	\$381,049

EQUAL EMPLOYMENT WORKFORCE PROFILE

17 employees; 0% women; 11.8% minorities.

PUBLIC INVOLVEMENT

Not applicable to this action.

TIME CONSTRAINTS

Federal regulations mandate that PTC be operational on passenger rail systems by December 31, 2015. A one-month delay in Board action could have an impact on the project schedule.

PRIOR BOARD/COMMITTEE ACTIONS

Not applicable to this action.

ENVIRONMENTAL REVIEW

Jl 3/6/2013

LEGAL REVIEW

JW 3/7/2013

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A motion of the Capital Committee of the Central Puget Sound Regional Transit Authority authorizing the chief executive officer to execute a contract with LTK Engineering Services, LLC to provide construction management and engineering support services for a Positive Train Control system on the Sounder Tacoma to Lakewood rail segment in the amount of \$2,321,817, with a 10% contingency of \$232,181, for a total authorized contract amount not to exceed \$2,553,998, contingent upon Board approval of Resolution No. R2013-06 amending the Adopted 2013 Budget.

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The scope of work under this contract includes technical support and design review, field inspections, quality assurance surveying, construction safety oversight, environmental monitoring and inspecting, third-party coordination assistance, and radio system design and engineering review. Sound Transit will perform construction management roles of Resident Engineer, scheduling, estimating and document control.

MOTION:

It is hereby moved by the Capital Committee of the Central Puget Sound Regional Transit Authority that the chief executive officer is authorized to execute a contract with LTK Engineering Services, LLC to provide construction management and engineering support services for a Positive Train Control system on the Sounder Tacoma to Lakewood rail segment in the amount of \$2,321,817, with a 10% contingency of \$232,181, for a total authorized contract amount not to exceed \$2,553,998, contingent upon Board approval of Resolution No. R2013-06 amending the Adopted 2013 Budget.

APPROVED by the Capital Committee of the Central Puget Sound Regional Transit Authority at a regular meeting thereof held on March 14, 2013.



Fred Butler
Capital Committee Chair

ATTEST:



Marcia Walker
Board Administrator