

REQUEST FOR PROPOSALS FOR RADAR SPEED DISPLAYS PROJECT RFP-RH-10-014

PROPOSALS TABULATION

NAME	Rauhorn Electric, Inc.	J. Ranck Electric, Inc.
ADDRESS	Macomb, MI	Mt. Pleasant, MI
Years providing products/services described; historical narrative	Rauhorn: 20 yrs constructing transportation related projects including radar speed displays Traffic Control: Since 1946 transportation and safety solutions across 9 mid-west states with offices in Mich, IL, IN, MN, MO, IO Opus: multi-national eng & plan consultants. W Bloomfd office - traf eng/design, rd safety eng/trans plan/ sustainable transportation	Ranck-performing MDOT wk for over 25 yrs; installed numerous traf control devices incld vehicle detection system for pub entities as RCOC, RCMC, Detroit, Corps of Eng & many MDOT projects HRC-traf eng serv to SE Mich over 20 yrs, gen eng serv to MI communities 95 yrs; gen eng services to RH 30 yrs, incld recent Tienken Rd Corridor Study & upgrade project for MDOT for Rochester Road bet M59 and Tienken Rd
Responsible for Project	Rauhorn: Scheuerman, Elec Eng Opus: Bagdade-Civil Eng Opus: Woods-Geography/Urban Planning Opus: Yassin-Civil Eng Opus: Myers - Civil Eng Rauhorn: Underhill-Electric Digital Tech	Ranck-James Ranck-Prin in Charge; Rob Hentkowski-Proj Mgr, Dale Berkholze-Jobsite Superintendent HRC-Peter Roth, PE-VP-Prin in Charge; Richard Beaubien, PE, PTOE, Associate, Trans Dept Head, QA/QC; Colleen Hill, PE, PTOE,, Traffic Eng; David Kelley, Sr Electrical Designer
Resources	Rauhorn: Scheuerman, BSEE, Elec Eng, Project Mgr, 3 yrs Intelligent Trans experience Underhill, Estimate, adm coordinator, 22 yrs, coordinate eng duties, suppliers, RH Opus: Bagdade, PE, Traf Eng, 10 yrs, Traf signal design Woods, Trans planner, data mgmt, GIS, data collect Yassin, EIT, Trans Eng, 3 yrs, before/after studies & feasibility studies for radar speed displays Myers, Trans eng, 2 yrs, national speed mgmt eval study, const inspection, pre/post studies	Ranck:Hentkowski, Proj Mgr, 18 yrs Berkholz, Field Spvr, 20 yrs, Electrical License HRC: Roth, PE, VP, Prin in Chrg, 30 yrs Beaubien, PE, VP, Prin in Chrg-30 yrs, Ambassador Bridge, GM, airports Hill, PE, PTOE, Trans Proj Eng, MDOT, 1-75, Dixie Hwy Kelley, Sr Designer, Elect & Roadway lighting, intelligent trans systems, MDOT, RCOC, BI Twp Ranck: 105 field tempoyees, union affiliated, licensed journeyman electricians, equipmt operators and laborers versed in traf controls systems

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Work Plan	Kick Off Meeting/Identify Locations/Dat Requirements/ Design the Locations/Perform Pre-Installation Study/Installation/Construction Inspection/Identify Times for Selective Enforcement/Post Installation/Prepare a Sign Inventory and Maintenance Requirements/Post-Installation Condition Review and Speed Evaluation/Final Study Report/Prepare Progress Reports	1-Prel Evaluation/Pre-Implementation Report, Outside Agency/Govt mtgs, site location determinations, design eng, DTE coordination, permits, product approval. 2-progress reporting, software, outside agency/govt permit approvals, DTE approvals. 3-progress reporting (mo), sign inventory, eval of exist conditions/products/speed datum install inspection, speed studies. 5-Final eval studies by site: intermediate report & post-implementation report
Start and Completion Date	Study & Design - 3/10-2/11 Installation - 3/11-8/11 Post Installation - 9/11-11/11	April 2010 to November 2011
Similar Public Sector Clients	Rauhorn: Ann Arbor-various traffic signals & ITS projects Farmington Hills-Radar Speed Display and traffic signals Livonia-School Zone Signs Canton Twp Rd Comm of Oakland County Opus: AAA Michigan/Detroit/Wisconsin Dept of Transportation/State Farm Insurance	Ranck: MDOT-dynamic mess signs, closed circuit TV I-96 MCRC-Total Traf Mgmt System-3 main corridors Blue Water Bridge, fiber, CCTV, traf detection Fed Govt-fiber, digital message signs MSU-traf control signals, st lighting, video traf detect HRC: RH, Roch, Troy, BH, SH, Wixom, Stfd, Warren, Fenton, Ann Arbor, Howell, Oakland Cty, Macomb Cty, MDOT-dynamic mess signs, closed circuit TV I-96 Rochester-Design/const eng for radar detection speed signs

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Experience	Rauhorn-installed 4 sites incl. Radar speed displays in FH & several school zone site in metro Detroit Opus: Bagdade City of Detroit project to install radar speed displays at several school zones, feasibility study for potential locations; design of installations, before-after study of effectiveness of several sign locations WI Dept of Trans-feasibility study install of radar speed sign on Highway 164 Lead eng compnent of large speed messaging study for Nat Highway Traf Safety Admin (NHTSA) Bagdade-involvement w/ Nat Committee on Uniform Traf Control Devices-assist w/ development of MUTCD standards for radar speed displays.	Ranck: Traffic Mgmt Systems, license plate readers, radio frequency identification, variable message signs, closed circuit television cameras, ITS towers, multiple communication devices, lighting, traffic maintenance contracts signalized intersections and flashing beacon locations, communication dishes, traffic signal modernization HRC-traffic engineering, studies, school crossing reviews, school road safety, traffic circulation analysis, corridor studies, safety studies, MDOT communications design build, upgrade OC MTSIS system, speed advisory signs for I-75, I-275 vehicle detection system, CCTV
Full Scope of in-house services	Opus-multi-national eng consulting firm. West Bloomfield offices provides: Traf Eng, Rd Safety, Trans Design, Trans Plan, Asset Mgmt and Urban Planning	Ranck-elect work intelligent trans systems, vehicle detection systems, dynamic message signs, software connection to MDOT ctrs, lg comm towers, maint HRC- full-serv eng, before/after study, traf data collection, plans & specs for sign install/permitting
Projects currently in progress	Opus: Roch Rd Corridor RSA/MDOT/in RH/ - \$25,000 RSA Training/MDOT/Statewide-\$25,000 On-Call Traffic Eng/FH/cost varies On-Call Traffic Safety Eng/ WI Dept Trans \$500,000 On-Call Traf Safety Eng-FHWA-Office of Safety On-Call Serv/FHWA-Nat Highway Institute Speed Mgmt Demo/NHTSA/Arizona \$250,000	Ranck: extensive list of current projects throughout Mich; incld MDOT Hamlin Rd signs & MDOT M-59 signs in RH HRC: 7 offices, 180 staff, key personnel assigned to project will be committed to RH for successful completion of project

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COST PROPOSAL:		
Sign/Post Vendor		
Radar Speed Displays-Complete for Installation	Quantity 38; Unit Cost \$9600; Total \$364,800 (Hardware & Installation only-no engineering)	Quantity 38; Unit Cost \$4166; Total \$158,308
Replacement Radar Speed Signs-Unit for replmt		
Accessories:	Slow Down Sign-not used in base bid; 38 @ \$750= \$28,500	Unit Cost \$4800
	GPS Clock-not used in base bid; 38 @ \$500=\$19,000	
Posts	W/foundation 38@ \$1750 = \$66,500	
Portable Radar Speed Display Units	2 @ \$4760 = \$9520	2 @ \$4850 = \$9700
Annual Maint Contract for Radar Speed Displays	1st year included in base/Future Yrs-TBD	1st year \$1500; Future Years \$1500
Annual Software Maintenance & Support Contract	1st year included in base/Future Yrs-TBD	1st year \$2500; Future Years \$2500
Software Licenses 3-4 Users	See Attached	
Installation Contractor	3 person/overhead crew \$400/hr 4 min=\$1600	Foreman \$74/hr x 500 hrs \$37,000
	2 person/overhead crew \$300/hr 4 min=\$1200	Journeyman \$68/hr x 450 hrs \$30,600
	3 person/undergrd crew \$450/hr 4 min=\$1800	Operator \$58/hr x 500 hrs \$29,000
		Apprentice \$50/hr x 610 hrs \$30,500
Traffic Consultant/Engineer	Trans Eng, Sr \$175/hr 1 hr = \$175.00	Associate \$141/hr x 18 hrs \$ 2,538
	Trans Eng, Planner \$115/hr 1 hr = \$115.00	Project Eng \$90/hr x 106 hrs \$ 9,540
	Trans Eng, Standard \$115/hr 1 hr = \$115.00	Sr Designer \$112.95/hr x 92 hrs \$10,391.40
		Graduate Eng \$70.50/hr x 172 hrs \$12,126
		GIS Specialist \$75/hr x 76 hrs \$ 5,700
		Sr CAD Technician \$74.25/hr x 104 hrs \$ 7,722
Reimbursables	Mileage \$500	
	Printing \$400	
	Misc \$250	

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DTE Energy	Not Applicable	NTE \$38,000
Prime Vendor/Project Manager	Project Mgr \$100/hr 1 hr = \$100.00 Misc \$500.00	Ranck: \$100/hr x 100 hrs \$10,000
Total Cost Breakdown		
Sign/Post Vendor	\$160,000	\$168,000
Installation Contractor	\$112,000	\$207,000
Traffic Consultant/Engineer Incl Reimbursables	\$133,700	\$50,000
DTE Energy	\$17,500	\$38,000
Prime Vendor/Project Mgr Incl Reimbursables	\$15,000	\$10,000
TOTAL PROJECT COST	\$438,200	\$473,000
Phase I: Pre-Implementation Study and Design	\$90,000	\$125,000
Phase II: Installation	\$308,200	\$330,000
Phase III: Post Installation	\$40,000	\$18,000
Meet Insurance Requirements	Yes	Yes
Exceptions:	Portable Sign Based on Tripod Design for the base bid if trailer is required add \$6500 per sign If solar powered of sites that do not already have existing power deduct \$42,850 from base bid for a new project costs of \$395,350.	Reduce eng costs by using Oakland County Aerial Imagery Recommend use of solar power - est \$403,000 w/ average cost of \$10,605 per sign Solar power opt has lower maintenance costs and monthly savings for power & the fee associated. Solar opt allow City to install 28 signs for current budget of \$293,000 as oposed to 23 signs using the DTE option