

Event 449 Structural Engineering Continuing Services

R.J. Behar & Company, Inc.

Labor Category	Unit of Measure	Final Rates
Principal Engineer	Per Hour	\$ 230.00
Senior Project Manager	Per Hour	\$ 215.00
Senior Engineer I	Per Hour	\$ 190.00
Senior Engineer II	Per Hour	\$ 220.00
Project Manager	Per Hour	\$ 165.00
Construction Manager	Per Hour	\$ 160.00
Public Information Officer	Per Hour	\$ 100.00
Chief Designer	Per Hour	\$ 160.00
Senior Designer	Per Hour	\$ 135.00
Designer	Per Hour	\$ 110.00
Utility Coordinator	Per Hour	\$ 115.00
Engineer I	Per Hour	\$ 145.00
Engineer II	Per Hour	\$ 130.00
Engineering Intern	Per Hour	\$ 115.00
Engineering Technician	Per Hour	\$ 90.00
Senior Inspector	Per Hour	\$ 110.00
Inspector	Per Hour	\$ 100.00
Grant Manager	Per Hour	\$ 115.00
Administrative Assistant	Per Hour	\$ 70.00
Chief Engineer	Per Hour	\$ 220.00



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AREHNA Engineering

Labor Category	Unit of Measure	Final Rates
Principal Engineer	Hourly	\$ 220.00
Chief Engineer	Hourly	\$ 200.00
Senior Engineer	Hourly	\$ 175.00
Engineer	Hourly	\$ 120.00
Professional Geologist	Hourly	\$ 120.00
Engineer Intern	Hourly	\$ 85.00
Senior Designer	Hourly	\$ 100.00
Project Coordinator	Hourly	\$ 80.00
Senior Engineering Technician	Hourly	\$ 100.00
Engineering Technician	Hourly	\$ 80.00
Secretary/Clerical	Hourly	\$ 68.00

TESTING RATES

Category	Unit of Measure	Final Rates
100 Aggregate Acid Insol Retained 200 Sieve FM 5-510	Test	\$ 95.00
101 Aggregate Carbonates & Organic Matter FM 5-514	Test	\$ 125.00
102 Aggregate Org. Impurities S& for Concrete AASHTO T21	Test	\$ 60.00
103 Aggregate Shell Content of Coarse Aggregate FM 5-555	Test	\$ 110.00
104 Aggregate Sieve Analysis of Fine & Coarse AASHTO T27	Test	\$ 75.00
105 Aggregate Soundness AASHTO T104	Test	\$ 350.00
106 Aggregate Specific Gravity/Absorption Coarse AASHTO T85	Test	\$ 95.00
107 Aggregate Total Moisture Content by Drying AASHTO T255	Test	\$ 45.00
108 Aggregate Unit Mass & Voids AASHTO T19	Test	\$ 60.00
109 Aggregate Specific Gravity/Absorption Fine AASHTO T84	Test	\$ 125.00



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Category		Unit of Measure	Final Rates
200	Asphalt Bulk Specific Gravity FM 1-T166	Test	\$ 60.00
201	Asphalt Content FM 5-563	Test	\$ 140.00
203	Asphalt Gradation & Content FM 1-T030 & FM 5-563	Test	\$ 200.00
204	Asphalt Gradation FM 1-T030	Test	\$ 90.00
206	Asphalt Los Angeles (LA) Abrasion Coarse Agg FM 3-C535	Test	\$ 395.00
207	Asphalt Los Angeles (LA) Abrasion Small Agg FM 1-T096	Test	\$ 360.00
208	Asphalt Max Specific Gravity FM 1-T209	Test	\$ 165.00
209	Asphalt Pavement Coring - 4in dia with Base Depth Check	Each	\$ 195.00
210	Asphalt Pvmnt. Coring - 4in dia without Base Depth Check	Each	\$ 165.00
211	Asphalt Pavement Coring - 6in dia with Base Depth Check	Each	\$ 230.00
212	Asphalt Pvmnt Coring - 6in dia without Base Depth Check	Each	\$ 170.00
300	Concrete Beam Flexural Testing ASTM C78	Test	\$ 55.00
301	Concrete Compressive Strength of Grout/Mortar ASTM C109	Test	\$ 30.00
302	Concrete Cylinder Curing, Capping & Breaking ASTM C39	Test	\$ 35.00
303	Concrete Drilled Cores & Sawed Beams ASTM C42	Test	\$ 45.00
305	Concrete Pavement Coring - 4in Dia	Each	\$ 190.00
306	Concrete Pavement Coring - 6in Dia	Each	\$ 240.00
307	Concrete Surface Resistivity AASHTO T358	Test	\$ 150.00
401	Geo Auger Borings-H& & Truck/Mud Bug	LF	\$ 9.00
404	Geo Backhoe (Rental without labor)	Day	\$ 500.00
406	Geo Barge (Rental without labor)	Day	\$ 4,000.00



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Category		Unit of Measure	Final Rates
407	Geo Chainsaw (Owned)	Day	\$ 95.00
408	Geo Concrete Pad & Cover for Monitoring Wells	Each	\$ 320.00
415	Geo Double Ring Infiltration ASTM D3385	Each	\$ 550.00
417	Geo Dozer (Rental without labor)	Day	\$ 900.00
418	Geo Drill Crew Support Vehicle	Day	\$ 210.00
427	Geo Extra SPT Samples-Truck/Mud Bug 0-50 Ft	Each	\$ 50.00
428	Geo Extra SPT Samples-Truck/Mud Bug 50-100 Ft	Each	\$ 50.00
429	Geo Extra SPT Samples-Truck/Mud Bug 100-150 Ft	Each	\$ 75.00
430	Geo Extra SPT Samples-Truck/Mud Bug 150-200 Ft	Each	\$ 90.00
431	Geo Extra SPT Samples-Truck/Mud Bug 200-250 Ft	Each	\$ 110.00
432	Geo Field Perm 0-10 Ft Open-End Borehole Method	Each	\$ 370.00
433	Geo Field Perm 10-25Ft Open-End Borehole Method	Each	\$ 500.00
440	Geo Grout Boreholes- Truck/Mud Bug 0-50 Ft	LF	\$ 5.00
441	Geo Grout Boreholes- Truck/Mud Bug 50-100 Ft	LF	\$ 8.00
442	Geo Grout Boreholes- Truck/Mud Bug 100-150 Ft	LF	\$ 9.00
443	Geo Grout Boreholes- Truck/Mud Bug 150-200 Ft	LF	\$ 10.00
444	Geo Grout Boreholes- Truck/Mud Bug 200-250 Ft	LF	\$ 12.00
445	Geo Grouted Monitor Well 2in 0-50 Ft	LF	\$ 30.00
446	Geo H& Auger with DCP (0-50 ft) ASTM D1452	LF	\$ 20.00
447	Geo H& Auger with SCP (0-50 ft) ASTM D1453	LF	\$ 15.00
450	Geo Piezometer 2in 0-50 Ft	LF	\$ 35.00



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Category		Unit of Measure	Final Rates
462	Geo Rock Coring Truck/Mud Bug 0-50 Ft 4in ID & over	LF	\$ 55.00
463	GeoRocCoring Truck/MudBug 0-50 Ft less than 4in ID	LF	\$ 40.00
464	Geo Rock Coring Truck/Mud Bug 50-100 Ft 4in ID over	LF	\$ 65.00
465	GeoRocCoring Truck/MudBug 50-100 Ft les than 4in ID	LF	\$ 55.00
466	GeoRocCoring Truck/MudBug 100-150 Ft 4in ID & over	LF	\$ 75.00
467	GeoRocCoring Truck/MudBug 100-150 Ft les than 4in ID	LF	\$ 55.00
468	GeoRocCoring Truck/MudBug 150-200 Ft 4in ID & over	LF	\$ 95.00
469	GeoRocCoring Truck/MudBug 150-200 Ft les than 4in ID	LF	\$ 65.00
470	GeoRocCoring Truck/MudBug 200-250 Ft 4in ID & over	LF	\$ 115.00
471	GeoRocCoring Truck/MudBug 200-250 Ft les than 4in ID	LF	\$ 75.00
472	Geo Saximeter Testing	Hour	\$ 155.00
478	Geo SPT Truck/Mud Bug 0-50 Ft	LF	\$ 15.00
479	Geo SPT Truck/Mud Bug 50-100 Ft	LF	\$ 20.00
480	Geo SPT Truck/Mud Bug 100-150 Ft	LF	\$ 25.00
481	Geo SPT Truck/Mud Bug 150-200 Ft	LF	\$ 40.00
482	Geo SPT Truck/Mud Bug 200-250 Ft	LF	\$ 45.00
488	Geo Temp Casing 3in Truck/Mud Bug 0-50 Ft	LF	\$ 9.00
489	Geo Temp Casing 3in Truck/Mud Bug 50- 100 Ft	LF	\$ 10.00
490	Geo Temp Casing 3in Truck/Mud Bug 100- 150 Ft	LF	\$ 15.00
491	Geo Temp Casing 3in Truck/Mud Bug 150- 200 Ft	LF	\$ 18.00
492	Geo Temp Casing 3in Truck/Mud Bug 200- 250 Ft	LF	\$ 20.00



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Category		Unit of Measure	Final Rates
498	Geo Temp Casing 4in Truck/Mud Bug 0-50 Ft	LF	\$ 10.00
499	Geo Temp Casing 4in Truck/Mud Bug 50-100 Ft	LF	\$ 15.00
500	Geo Temp Casing 4in Truck/Mud Bug 100-150 Ft	LF	\$ 15.00
501	Geo Temp Casing 4in Truck/Mud Bug 150-200 Ft	LF	\$ 17.00
502	Geo Temp Casing 4in Truck/Mud Bug 200-250 Ft	LF	\$ 20.00
508	Geo Temp Casing 6in Truck/Mud Bug 0-50 Ft	LF	\$ 15.00
509	Geo Temp Casing 6in Truck/Mud Bug 50-100 Ft	LF	\$ 15.00
510	Geo Temp Casing 6in Truck/Mud Bug 100-150 Ft	LF	\$ 20.00
511	Geo Temp Casing 6in Truck/Mud Bug 150-200 Ft	LF	\$ 25.00
512	Geo Temp Casing 6in Truck/Mud Bug 200-250 Ft	LF	\$ 27.00
514	Geo Truck/Mud Bug Mobil (30 miles straightline distance)	Each	\$ 620.00
519	Geo Undisturbed Samples Truck/Mud Bug 0-50 Ft	Each	\$ 185.00
520	Geo Undisturbed Samples Truck/Mud Bug 50-100 Ft	Each	\$ 210.00
521	Geo Undisturbed Samples Truck/Mud Bug 100-150 Ft	Each	\$ 250.00
522	Geo Undisturbed Samples Truck/Mud Bug 150-200 Ft	Each	\$ 260.00
525	Geo Well Development	Hour	\$ 185.00
531	Geo Truck/Mudbug Drill Rig and Crew (2-person)	Hour	\$ 250.00
532	Geo Truck/Mudbug Drill Rig and Crew (3-person)	Hour	\$ 295.00
539	Geo Wash Boring, 0-50 Ft	LF	\$ 12.00
540	Geo Wash Boring, 50-100 Ft	LF	\$ 15.00
541	Geo Wash Boring, 100-150 Ft	LF	\$ 18.00



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Category		Unit of Measure	Final Rates
542	Geo Wash Boring, 150-200 Ft	LF	\$ 18.00
543	Geo Wash Boring, 200-250 Ft	LF	\$ 20.00
602	Mobilization - Vibration Monitoring Equipment *	Day	\$ 95.00
603	Mobilization Asphalt Coring Equipment	Each	\$ 420.00
606	Mobilization Concrete Coring	Each	\$ 420.00
612	Mobilization Drill Rig Truck Mount	Each	\$ 550.00
800	Soils Chloride Soil or Water FM 5-552	Test	\$ 95.00
801	Soils 1-D Consolidation AASHTO T216 (more than 12 loads)	Test	\$ 90.00
802	Soils 1-D Consolidation AASHTO T216 (up to 12 loads)	Test	\$ 500.00
803	Soils Consolidation - Constant Strain ASTM D4186	Test	\$ 550.00
804	Soils Consol-Extend Load Incrmnts AASHTO T216	Day	\$ 170.00
805	Soils Corrosion Series FM 5-550 through 5-553	Test	\$ 230.00
806	Soils Direct Shear Consolid Drained/ Point FM 3-D3080	Test	\$ 360.00
808	Soils Flexible Wall Permeability ASTM D5084	Test	\$ 500.00
809	Soils Hydrometer Only AASHTO T88	Test	\$ 145.00
810	Soils Limerock Bearing Ratio (LBR) FM 5-515	Test	\$ 400.00
811	Soils Liquid Limit AASHTO T89	Test	\$ 56.00
812	Soils Materials Finer than 200 Sieve FM 1-T011	Test	\$ 50.00
814	Soils Miniature Vane Shear Test ASTM D4648	Test	\$ 20.00
817	Soils Moisture Content Laboratory AASHTO T265	Test	\$ 18.00
818	Soils Moisture Content Microwave AASHTO D4643	Test	\$ 20.00



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Category		Unit of Measure	Final Rates
819	Soils Organic Content Ignition FM 1 T-267	Test	\$ 45.00
821	Soils Particle Size Anlys AASHTO T88 (Incl. Hydrometer)	Test	\$ 185.00
822	Soils Particle Size Anlys AASHTO T88 (No Hydrometer)	Test	\$ 70.00
823	Soils Permeability Constant Head AASHTO T215	Test	\$ 350.00
824	Soils Permeability Falling Head FM 5-513	Test	\$ 345.00
825	Soils pH Soil or Water FM 5-550	Test	\$ 45.00
826	Soils Plastic Limit & Plasticity Index AASHTO T90	Test	\$ 60.00
827	Soils Proctor Modified FM 1-T180	Test	\$ 135.00
828	Soils Proctor Standard AASHTO T99	Test	\$ 135.00
829	Soils Resistivity Soil or Water FM 5-551	Test	\$ 55.00
830	Soils Shrinkage Factor AASHTO T92	Test	\$ 95.00
831	Soils Specific Gravity AASHTO T100	Test	\$ 85.00
832	Soils Split Tensile Strgth of Rock Cores ASTM D3967	Test	\$ 140.00
833	Soils Sulfate Soil or Water FM 5-553	Test	\$ 54.00
835	Soils Triaxl Consl-Drain (CD) Per Point\Cell ASTM D7181	Test	\$ 530.00
836	Soils Tri Cnsl-Undrn (CU) Pt\Cell AASHTO T297/ASTM D4767	Test	\$ 550.00
837	Soil Tri Uncsl-Undrn (UU) Pt\Cell AASHTO T296/ASTM D2850	Test	\$ 420.00
838	Soils Unconfined Compression - Rock ASTM D7012, Method C	Test	\$ 175.00
839	Soils Unconfined Compress - Soil AASHTO T208/ASTM D2166	Test	\$ 185.00
900	Maintenance of Traffic - Lane Closure	Day	\$ 1,400.00
901	Maintenance of Traffic - Lane Closure with Flaggers	Day	\$ 1,100.00



Robert J. Deane

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Category		Unit of Measure	Final Rates
902	Maintenance of Traffic - Intersection	Day	\$ 1,200.00
903	Site Clearing	Day	\$ 1,600.00
904	Geophysical Survey (GPR)	Day	\$ 1,500.00
905	Utility Scanning	Day	\$ 1,000.00
906	Shallow Test Pits	Each	\$ 100.00
907	Unmortorized Support Boat	Day	\$ 300.00
908	Bulk or Sediment Samples	Each	\$ 60.00



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ASA Consultants Inc

Labor Category	Unit	Final Rates
Chief Engineer	Hour	\$ 90.00
Sr Engineer 2	Hour	\$ 65.00
Chief Designer	Hour	\$ 45.00
Engineer 2	Hour	\$ 65.00
Sr Engineer 1	Hour	\$ 70.00
St. CADD Technician	Hour	\$ 37.00
CADD Technician	Hour	\$ 30.00



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Craig Smith & Associates

Labor Category	Unit	Final Rates
Principal	Per Hour	\$ 195.00
Vice President.	Per Hour	\$ 220.00
Senior Supervising Engineer	Per Hour	\$ 185.00
Supervising Engineer	Per Hour	\$ 160.00
Project Manager	Per Hour	\$ 150.00
Project Engineer	Per Hour	\$ 120.00
Senior CADD Technician	Per Hour	\$ 112.00
CADD Technician	Per Hour	\$ 90.00
Senior Field Representative	Per Hour	\$ 135.00
Field Representative	Per Hour	\$ 100.00
Professional Surveyor and Mapper	Per Hour	\$ 140.00
Survey Coordination Manager	Per Hour	\$ 100.00
Survey Technician	Per Hour	\$ 90.00
Clerical	Per Hour	\$ 65.00
Survey Crew (2-man)	Per Hour	\$ 160.00
Survey Crew (3-man)	Per Hour	\$ 185.00
Survey Crew, Lidar	Per Hour	\$ 185.00
Survey Crew - pile staking	Per Hour	\$ 185.00
Utility Locate Crew	Per Hour	\$ 120.00
Soft Dig Crew (per hole)	Per Hour	\$ 450.00
3D Radar Crew	Per Hour	\$ 160.00
3D Radar Processor	Per Hour	\$ 140.00



Craig Smith

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Underwater Engineering Services, Inc.

Positions	Unit of Measure	Final Rates
Lead Engineer/Project Manager	Hour	\$ 150.00
Admin/Technician	Hour	\$ 45.00
Dive Supervisor	Hour	\$ 70.00
Diver	Hour	\$ 40.00
Dive Tender	Hour	\$ 35.00



A handwritten signature in blue ink, appearing to read "R. V. Behar".

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