



D&S Engineering Labs
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Budget Estimate for Construction Materials
 Testing & Observation Services
Calhoun Middle School Reno
 Denton, Texas
D&S 22-526

Item	Quantity	Unit	Unit Rate	Total
Earthwork Observation & Testing Paving & Utilities				
Moisture Density Relations (ASTM D698 - Method A or B)	5	each	\$185.00	\$925.00
Moisture Density Relations (ASTM D698 - Method C)	1	each	\$200.00	\$200.00
Atterberg Limits	23	each	\$85.00	\$1,955.00
Minus 200 Sieve Analysis	3	each	\$40.00	\$120.00
Sieve Analysis	1	each	\$120.00	\$120.00
Lime Depth Checks	21	each	\$15.00	\$315.00
Lime Subgrade Gradations	21	each	\$15.00	\$315.00
Sulfate Content in Soils, Colorimetric Method	1	each	\$125.00	\$125.00
Lime Series & Report	1	each	\$400.00	\$400.00
In-Place Moisture-Density Tests (Paving)(Min. 3 Per Trip)	305	each	\$15.00	\$4,575.00
In-Place Moisture-Density Tests (Utilities)(Min 3 Per Trip)	198	each	\$15.00	\$2,970.00
Engineering Soils Technician - Paving (Min. 4 hrs. per trip)	116	hour	\$60.00	\$6,960.00
Engineering Soils Technician - Utilities (Min. 4 hrs. per trip)	64	hour	\$60.00	\$3,840.00
Trip Charge	36	trip	\$50.00	\$1,800.00
Project Manager	22	hour	\$115.00	\$2,530.00
Project Administration	n/a	%	10	\$2,715.00
Estimated Total for Earthwork Services for Paving & Utilities:				\$29,865.00
Concrete Observation & Testing - Paving				
Concrete Test Cylinders (4 x 8 inch)	85	each	\$20.00	\$1,700.00
Engineering Concrete Technician (Min. 4 hrs. per trip) (Includes reinforcing observation & cylinder pick up)	44	hour	\$60.00	\$2,640.00
Trip Charge	9	trip	\$50.00	\$450.00
Project Manager	5	hour	\$115.00	\$575.00
Project Administration	n/a	%	10	\$537.00
Estimated Total for Concrete Services for Paving:				\$5,902.00
Earthwork Observation & Testing Building Pad				
Moisture Density Relations (ASTM D698 - Method A or B)	2	each	\$185.00	\$370.00
Atterberg Limits	2	each	\$85.00	\$170.00
Minus 200 Sieve Analysis	2	each	\$40.00	\$80.00
In-Place Moisture-Density Tests, Min 3 per trip	193	each	\$15.00	\$2,895.00
Engineering Soils Technician (Min. 4 hrs. per trip)	48	hour	\$60.00	\$2,880.00
Trip Charge	12	trip	\$50.00	\$600.00
Project Manager	7	hour	\$115.00	\$805.00
Project Administration	n/a	%	10	\$780.00
Estimated Total for Earthwork Services:				\$8,580.00

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Item	Quantity	Unit	Unit Rate	Total
<u>Drilled Shaft Observations</u>				
Concrete Test Cylinders (4 x 8 inch)	60	each	\$20.00	\$1,200.00
Sr. Engineering Technician (Min. 4 hrs. per trip)	96	hour	\$60.00	\$5,760.00
Sr. Engineering Technician (over time rate per trip)	32	hour	\$90.00	\$2,880.00
Senior Engineer (PE)	8	hour	\$175.00	\$1,400.00
Trip Charge	13	trip	\$50.00	\$650.00
Project Manager	11	hour	\$115.00	\$1,265.00
Project Administration	n/a	%	10	\$1,316.00
Estimated Total for Drilled Shaft Services:				\$14,471.00
<u>Concrete Observation & Testing Building</u>				
Concrete Test Cylinders (4 x 8 inch)	225	each	\$20.00	\$4,500.00
Engineering Concrete Technician (Min. 4 hrs. per trip) (Includes reinforcing observation & cylinder pick up)	269	hour	\$60.00	\$16,140.00
Floor Flatness and Floor Levelness (6 hour min., per hour)	30	hour	\$200.00	\$6,000.00
Trip Charge	61	trip	\$50.00	\$3,050.00
Project Manager	26	hour	\$115.00	\$2,990.00
Project Administration	n/a	%	10	\$3,268.00
Estimated Total for Concrete Services:				\$35,948.00
<u>Masonry Observation & Testing</u>				
Mortar Cubes (6 per set)	72	each	\$25.00	\$1,800.00
Grout Prisms (4 per set)	48	each	\$35.00	\$1,680.00
Engineering Technician (Min. 4 hrs. per trip) (Includes observation and masonry pickup)	48	hour	\$65.00	\$3,120.00
Trip Charge	12	trip	\$50.00	\$600.00
Project Manager	5	hour	\$115.00	\$575.00
Project Administration	n/a	%	10	\$598.00
Estimated Total for Masonry Services:				\$8,373.00
<u>Structural Steel Observation</u>				
CWI Visual Observation (Min. 4 hrs. per trip)	32	hour	\$72.00	\$2,304.00
Ultrasonic Inspection (Min. 4 hrs. per trip)	8	hour	\$90.00	\$720.00
Material Fee	2	day	\$35.00	\$70.00
Trip Charge	10	trip	\$50.00	\$500.00
Project Manager	4	hour	\$115.00	\$460.00
Project Administration	n/a	%	10	\$405.00
Estimated Total for Structural Steel Services:				\$4,459.00

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Item	Quantity	Unit	Unit Rate	Total
Fireproofing Observation & Testing				
Fireproofing visual observation (min. 4 hours per trip)	28	hour	\$72.00	\$2,016.00
Thickness and Density testing	21	each	\$30.00	\$630.00
Adhesion testing	21	each	\$42.00	\$882.00
Trip Charge	7	trip	\$50.00	\$350.00
Project Manager	3	hour	\$115.00	\$345.00
Project Administration	n/a	%	10	\$422.00
Estimated Total for Fireproofing Services:				\$4,645.00
Storm Shelter Observation & Testing				
Visual observation (min. 4 hours per trip)	54	hour	\$90.00	\$4,860.00
Trip Charge	9	trip	\$50.00	\$450.00
Project Manager	5	hour	\$115.00	\$575.00
Project Administration	n/a	%	10	\$589.00
Estimated Total for Storm Shelter Services:				\$6,474.00
Project Setup Fee	1	each	\$100.00	\$100.00
Allowance for Sr. Engineer, Site Visits, Compliance Letters, ect.	15	hour	\$165.00	\$2,475.00
Estimated Total for Professional Services:				\$2,575.00
Estimated Total for Above Services:				\$121,292.00
NOT INCLUDED IN REQUIREMENTS OR THE BUDGET				
Tests in excess of above stated quantities or additional tests not listed				
Retesting of any failed tests / observation				
Temporary site curing facility				
Project compliance letter				
The fees listed above for field and laboratory tests, include the equipment necessary to accomplish the task. Fees not listed above are available upon request. Overtime at 1.5 times the normal rate will be billed for time in excess of 8 hours per day and Saturdays, and for time worked before 7 a.m and after 6 p.m. Overtime at 2.0 times the normal rate will be billed for Sundays and holidays.				