

Attachment D



May 16, 2025
Proposal No. PT25077

Town of Truckee
10183 Truckee Airport Road
Truckee, California 96161

Attention: Scott Mathot, P.E.

Reference: Riverview Sports Park Trail Connection
Truckee, California

Subject: Proposal for Construction Quality Assurance Materials Testing Services

This letter presents NV5's proposal to provide construction quality assurance materials testing services for the Riverview Sports Park Trail Connection project located in Truckee, California. The purpose of our services will be to provide the Town of Truckee and the project engineer with field data and information to assess compliance with the project plans and specifications. Included in this proposal are a brief summary of our understanding of the project, the scope of services we can provide, and an estimate of our fees.

1.0 PROJECT UNDERSTANDING

Our proposal is based on our review of the project plans titled, "Riverview Sports Park Trail Connection" prepared by Eastern Sierra Engineering dated January 7, 2025 and our previous experience on projects with the Town of Truckee.

The project will involve construction of approximately 1,200 linear feet of a 10-foot wide multi-use asphalt concrete trail extending from Joeger Drive to the south to tie in with the existing Legacy Trail. Cuts and fills for the trail will be on the order of four to five feet. The project will include approximately 5,000 square-feet of a 2-inch asphalt concrete overlay for a section of the existing Legacy trail. Appurtenant construction will consist of trail lighting, bicycle racks, bench seating, and site drainage improvements.

2.0 SCOPE OF SERVICES

Based on our review of the project plans by Eastern Sierra Engineering, we anticipate providing the following services:

- Field density testing of engineered fill, trench backfill, pavement subgrade, and aggregate base.
- Laboratory testing of soil samples for maximum density determinations (compaction curves).
- Sampling and field testing of hot mix asphalt (HMA) during placement. Field tests will include temperature and thickness measurements. Samples will be collected from behind the paver and archived for possible laboratory testing. We do not anticipate laboratory testing of the hot mix asphalt will be required.

- Project management and review including scheduling and supervision of our technicians, review of data and reports, and report preparation. Geotechnical engineering consultation will be provided on an as-requested basis.

Materials sampling and testing will be performed in accordance with California Department of Transportation (CalTrans) and ASTM test methods as applicable. Our services will not include supervision or direction of construction personnel or acceptance of the contractor's work; interpretation or modification of the project plans or specifications; or job site safety.

3.0 SCHEDULE

NV5 is able to provide the services outlined above upon receipt of your authorization to proceed. The time required for our services is solely dependent on the contractor's schedule. NV5 requests a minimum 48-hour notification period prior to a requested site visit; however, we will make every effort to meet the contractor's needs if site circumstances do not allow for the entire 48-hour notification period.

4.0 FEE ESTIMATE

Fees for our services would be provided on a time-and-expense basis in accordance with our adjusted Fee Schedule, our 2025 Laboratory Fee Schedule included as Attachment 1, and our existing agreement with the Town of Truckee dated July 12, 2023. We understand that the project will be subject to State Prevailing Wage requirements. For the scope of services outlined above, we estimate our fees will be approximately \$24,000. An itemization of our fee estimate is included as Attachment 3. The fee estimate includes NV5's assumptions of the number of site visits and the time required per site visit. Billing will be monthly on a time-and-expense basis.

Preparation of this proposal and our fee estimate required the following assumptions based on our review of the project plans:

- Earthwork materials testing will require up to 30 site visits by a Field Soils and Materials Tester at an average of four hours each. We anticipate up to two ASTM laboratory compaction curves will be required during construction. CalTrans test method compaction curves will be performed by our technicians off site.
- Hot mix asphalt placement will require two days to complete. During that time, we will provide a Field Soils and Materials Tester on a full-time basis to collect samples and provide thickness and temperature measurements. Additional laboratory testing of the hot mix asphalt may be performed on a time-and-expense basis at the request of the Town of Truckee.

The costs to complete the actual work may differ from the estimated amount above. NV5 will bill for the actual time and materials required to complete the scope of work. The costs to complete the CQA services are dependent upon the contractor's schedule, efficiency, sequencing and craftsmanship. The cost estimate assumes a normal dayshift work period Monday through Friday excluding weekends and holidays. If the contractors schedule or sequencing require more site visits or longer period for inspection and testing, a budget

amendment will be prepared for approval. This proposal is valid for a period of up to 30 days from the date of issue.

5.0 CONTRACT AGREEMENT

If this proposal meets your needs, please provide us with a Task Order as our authorization to proceed. NV5 will perform the above services under our existing agreement with the Town of Truckee dated July 12, 2023.

6.0 CLOSING STATEMENT

Please contact the undersigned if you have any questions or need additional information. Thank you for selecting NV5 to prepare this proposal to provide construction quality assurance services for this important project.

Sincerely,

NV5



Chris O'Malley
Construction Services Manager



Allison K. Hathon, P.E. No. C83162
Senior Engineer

Attachments:

1. NV5 2025 Laboratory Fee Schedule
2. NV5 Itemized Cost Estimate

Cc: Blake Kloczl, Town of Truckee

2025 LABORATORY TESTING SERVICES

Soil	Aggregate	Concrete	Asphalt	ASTM TEST METHODS		UNIT COST
		■		ASTM A615	Reinforcing Steel Bend & Tensile Test to #8	\$175
		■		ASTM C39	Concrete Compressive Strength, 4x8	\$37
		■		ASTM C39	Concrete Compressive Strength, 6x12	\$56
		■		ASTM C40	Organic Impurities in Fine Aggregates for Concrete	\$47
		■		ASTM C78	Flexural Strength of Concrete	\$200
		■		ASTM C140	CMU Strength, Unit Weight, Absorption	\$280
		■		ASTM C780, C109	Compressive Strength Mortar	\$37
		■		ASTM C1019	Compressive Strength Grout	\$37
		■		ASTM C1314	Compressive Strength Masonry Prisms	\$140
■	■	■		ASTM C136	D422A Full Sieve Particle Size Analysis	\$165
■				ASTM D422B	Long Hydrometer Particle Size Analysis (specific gravity not included)	\$165
■	■			ASTM D422C	Full Sieve w/ Long Hydrometer Particle Size Analysis (specific gravity not included)	\$217
■	■			ASTM D698, D1557	Compaction Curves (4-inch mold)	\$250
■	■			ASTM D698, D1557	Compaction Curves (6-inch mold)	\$262
■	■			ASTM D854	Specific Gravity	\$111
■	■	■		ASTM C117, D1140	No. 200 Mesh Wash Particle Size Analysis	\$107
■	■			ASTM C131, CTM 211	Abrasion Resistance by LA Rattler	\$250
■				ASTM D2166	Unconfined Compression Shear Strength	\$136
■	■			ASTM D2216	Oven Moisture Content	\$36
■	■			ASTM D2419	Sand Equivalent	\$134
■	■			ASTM D2434	Constant Head Permeability	\$334
■	■			ASTM D2435	One-Dimensional Consolidation	\$310
■	■			ASTM D2844	Resistance Value	\$336
■	■			ASTM D2850	Unconsolidated, Undrained, Triaxial Shear Strength (per point)	\$181
■	■			ASTM D2937	Density-Moisture	\$44
■				ASTM D3080	Direct Shear Strength (3 points minimum)	\$374
■				ASTM D4318	Atterberg Indices (Dry Method)	\$188
■				ASTM D4767	Consolidated, Undrained, Triaxial Shear Strength (per point)	\$218
■				ASTM D4829	Expansion Index (UBC Expansion Index)	\$187
■				ASTM D4832	Strength of CLSM	\$54
■				ASTM D5084	Falling Head Permeability	\$450
				ASTM E605	Sprayed Fire-Resistive Materials Thickness and Density	\$115
CALIFORNIA TEST METHODS						UNIT COST
■	■	■	■	CTM 202	Analysis of Fine Coarse Aggregate	\$162
	■		■	CTM 205	Percent of Crushed Particles	\$107
	■	■	■	CTM 206	Specific Gravity/Absorption Coarse Aggregate	\$131
	■	■	■	CTM 207	Specific Gravity/Absorption Fine Aggregate	\$131
	■		■	CTM 208	Apparent Specific Gravity of Fine Aggregate	\$121
■	■			CTM 216	Maximum Wet Density Determination	\$265
■	■	■	■	CTM 217	Sand Equivalent	\$134
■	■	■	■	CTM 226	Moisture Content by Oven	\$36
■	■	■		CTM 227	Evaluating Cleanness of Coarse Aggregate	\$125
	■	■		CTM 229	Durability Index	\$187
	■	■	■	CTM 234	Uncompacted Void Content of Fine Aggregate	\$131
	■		■	CTM 235	Percent of Flat and Elongated Particles	\$108
			■	CTM 308	Bulk Density Hot Mix Asphalt (HMA)	\$47
			■	CTM 309	Max Specific Gravity of HMA	\$336
			■	CTM 366	Stabilometer	\$416
			■	CTM 370	Moisture Content with Microwave	\$30
			■	CTM 382	Asphalt Content by Ignition Method	\$196
			■	CTM 382	Asphalt Content by Ignition Method Correction Factor Development	\$599
			■	Caltrans LP 2, 3, 4	Aggregate Asphalt and Dust Proportion	\$200
OTHER TEST METHODS						UNIT COST
		■		AASHTO T312B	Gyratory Compaction, 6" Specimen, (add \$110 for asphalt rubber)	\$449
		■		AASHTO T324B	Hamburg Wheel Track	\$1,710
		■		CBC 2105A.4	CMU Bond Shear Strength of Core	\$260

This is a partial list of the most common laboratory tests. ASTM/CTM Standards are used as guidelines.



ATTACHMENT 2
CONSTRUCTION QUALITY ASSURANCE MATERIALS TESTING COST ESTIMATE
Riverview Sports Park Trail Connection

Task	Estimated Units	Unit Rate	Total
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Earthwork Materials Testing							
Field Soils and Materials Tester	30	Days @	4	hrs/day	120	\$ 137.62	\$ 16,514.40
ASTM Laboratory Compaction Curves	2	Tests @	1	each	2	\$ 262.00	\$ 524.00
Mileage	30	Trips @	8	miles/trip	240	\$ 0.76	\$ 182.40
						SUBTOTAL = \$	17,220.80

HMA Paving							
Field Soils and Materials Tester	2	Days @	8	hrs/day	16	\$ 137.62	\$ 2,201.92
Mileage	2	Trips @	8	miles/trip	16	\$ 0.76	\$ 12.16
						SUBTOTAL = \$	2,214.08

Report Preparation and Project Management										
Senior Engineer	8	Weeks@	1	hrs/week	8	\$	190.00	\$	1,520.00	
Construction Services Manager II	8	Weeks@	1.5	hrs/week	12	\$	190.00	\$	2,280.00	
Project Assistant	8	Weeks@	1	hrs/week	8	\$	88.32	\$	706.56	
							SUBTOTAL = \$			4,506.56

TOTAL:	\$	23,941.44
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