PROFESSIONAL SERVICES CONTRACT BETWEEN THE CITY OF HUNTINGTON BEACH AND GHD INC.

FOR

ON-CALL CONSTRUCTION MANAGEMENT, MATERIALS TESTING, AND INSPECTION SERVICES

THIS AGREEMENT ("Agreement") is made and entered into by and between the City of Huntington Beach, a municipal corporation of the State of California, hereinafter referred to as "CITY," and, GHD, INC., a hereinafter referred to as "CONSULTANT."

WHEREAS, CITY desires to engage the services of a consultant to perform on-call construction management, materials testing and inspection services; and

Pursuant to documentation on file in the office of the City Clerk, the provisions of the Huntington Beach Municipal Code, Chapter 3.03, relating to procurement of professional service contracts have been complied with; and

CONSULTANT has been selected to perform these services,

NOW, THEREFORE, it is agreed by CITY and CONSULTANT as follows:

1. SCOPE OF SERVICES

CONSULTANT shall provide all services as described in **Exhibit "A,"** which is attached hereto and incorporated into this Agreement by this reference. These services shall sometimes hereinafter be referred to as the "PROJECT."

CONSULTANT hereby designates Natasha Johnson who shall represent it and be its sole contact and agent in all consultations with CITY during the performance of this Agreement.

2. CITY STAFF ASSISTANCE

CITY shall assign a staff coordinator to work directly with CONSULTANT in the performance of this Agreement.

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3. TERM; TIME OF PERFORMANCE

Time is of the essence of this Agreement. The services of CONSULTANT are to commence on , 2025 (the "Commencement Date"). This Agreement shall automatically terminate three (3) years from the Commencement Date, unless extended or sooner terminated as provided herein. All tasks specified in **Exhibit "A"** shall be completed no later than two (2) years from the Commencement Date. The time for performance of the tasks identified in **Exhibit "A"** are generally to be shown in **Exhibit "A."** This schedule may be amended to benefit the PROJECT if mutually agreed to in writing by CITY and CONSULTANT.

In the event the Commencement Date precedes the Effective Date, CONSULTANT shall be bound by all terms and conditions as provided herein.

4. <u>COMPENSATION</u>

In consideration of the performance of the services described herein, CITY agrees to pay CONSULTANT on a time and materials basis at the rates specified in **Exhibit "B,"** which is attached hereto and incorporated by reference into this Agreement, a fee, including all costs and expenses, not to exceed Two Million Five Hundred Thousand Dollars (\$2,500,000.00).

5. EXTRA WORK

In the event CITY requires additional services not included in **Exhibit "A"** or changes in the scope of services described in **Exhibit "A,"** CONSULTANT will undertake such work only after receiving written authorization from CITY. Additional compensation for such extra work shall be allowed only if the prior written approval of CITY is obtained.

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6. METHOD OF PAYMENT

CONSULTANT shall be paid pursuant to the terms of Exhibit "B."

7. DISPOSITION OF PLANS, ESTIMATES AND OTHER DOCUMENTS

CONSULTANT agrees that title to all materials prepared hereunder, including, without limitation, all original drawings, designs, reports, both field and office notices, calculations, computer code, language, data or programs, maps, memoranda, letters and other documents, shall belong to CITY, and CONSULTANT shall turn these materials over to CITY upon expiration or termination of this Agreement or upon PROJECT completion, whichever shall occur first. These materials may be used by CITY as it sees fit.

8. HOLD HARMLESS

A. CONSULTANT hereby agrees to protect, defend, indemnify and hold harmless CITY, its officers, elected or appointed officials, employees, agents and volunteers from and against any and all claims, damages, losses, expenses, judgments, demands and defense costs (including, without limitation, costs and fees of litigation of every nature or liability of any kind or nature) arising out of or in connection with CONSULTANT's (or CONSULTANT's subcontractors, if any) negligent (or alleged negligent) performance of this Agreement or its failure to comply with any of its obligations contained in this Agreement by CONSULTANT, its officers, agents or employees except such loss or damage which was caused by the sole negligence or willful misconduct of CITY. CONSULTANT will conduct all defense at its sole cost and expense and CITY shall approve selection of CONSULTANT's counsel. This indemnity shall apply to all claims and liability regardless of whether any insurance policies are applicable.

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The policy limits do not act as limitation upon the amount of indemnification to be provided by CONSULTANT.

B. To the extent that CONSULTANT performs "Design Professional Services" within the meaning of Civil Code Section 2782.8, then the following Hold Harmless provision applies in place of subsection A above:

"CONSULTANT hereby agrees to protect, defend, indemnify and hold harmless CITY and its officers, elected or appointed officials, employees, agents and volunteers, from and against any and all claims, damages, losses, expenses, demands and defense costs (including, without limitation, costs and fees of litigation of every nature or liability of any kind or nature) to the extent that the claims against CONSULTANT arise out of, pertain to, or relate to the negligence, recklessness, or willful misconduct of CONSULTANT. In no event shall the cost to defend charged to CONSULTANT exceed CONSULTANT's proportionate percentage of fault. However, notwithstanding the previous sentence, in the event one or more other defendants to the claims and/or litigation is unable to pay its share of defense costs due to bankruptcy or dissolution of the business, CONSULTANT shall meet and confer with CITY and other defendants regarding unpaid defense costs. The duty to indemnify, including the duty and the cost to defend, is limited as provided in California Civil Code Section 2782.8.

C. Regardless of whether subparagraph A or B applies, CITY shall be reimbursed by CONSULTANT for all costs and attorney's fees incurred by CITY in enforcing this obligation. This indemnity shall apply to all claims and liability regardless of whether any insurance policies are applicable. The policy limits do not act as a limitation upon the amount of indemnification to be provided by CONSULTANT.

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9. PROFESSIONAL LIABILITY INSURANCE

CONSULTANT shall obtain and furnish to CITY a professional liability insurance policy covering the work performed by it hereunder. This policy shall provide coverage for CONSULTANT's professional liability in an amount not less than One Million Dollars (\$1,000,000.00) per occurrence and in the aggregate. The abovementioned insurance shall not contain a self-insured retention without the express written consent of CITY; however an insurance policy "deductible" of Ten Thousand Dollars (\$10,000.00) or less is permitted. A claims-made policy shall be acceptable if the policy further provides that:

- A. The policy retroactive date coincides with or precedes the initiation of the scope of work (including subsequent policies purchased as renewals or replacements).
- B. CONSULTANT shall notify CITY of circumstances or incidents that might give rise to future claims.

CONSULTANT will make every effort to maintain similar insurance during the required extended period of coverage following PROJECT completion. If insurance is terminated for any reason, CONSULTANT agrees to purchase an extended reporting provision of at least two (2) years to report claims arising from work performed in connection with this Agreement.

If CONSULTANT fails or refuses to produce or maintain the insurance required by this section or fails or refuses to furnish the CITY with required proof that insurance has been procured and is in force and paid for, the CITY shall have the right, at the CITY's election, to forthwith terminate this Agreement. Such termination shall not effect Consultant's right to be paid for its time and materials expended prior to notification

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of termination. CONSULTANT waives the right to receive compensation and agrees to indemnify the CITY for any work performed prior to approval of insurance by the CITY.

10. CERTIFICATE OF INSURANCE

Prior to commencing performance of the work hereunder, CONSULTANT shall furnish to CITY a certificate of insurance subject to approval of the City Attorney evidencing the foregoing insurance coverage as required by this Agreement; the certificate shall:

- A. provide the name and policy number of each carrier and policy;
- B. state that the policy is currently in force; and
- C. shall promise that such policy shall not be suspended, voided or canceled by either party, reduced in coverage or in limits except after thirty (30) days' prior written notice; however, ten (10) days' prior written notice in the event of cancellation for nonpayment of premium.

CONSULTANT shall maintain the foregoing insurance coverage in force until the work under this Agreement is fully completed and accepted by CITY.

The requirement for carrying the foregoing insurance coverage shall not derogate from CONSULTANT's defense, hold harmless and indemnification obligations as set forth in this Agreement. CITY or its representative shall at all times have the right to demand the original or a copy of the policy of insurance. CONSULTANT shall pay, in a prompt and timely manner, the premiums on the insurance hereinabove required.

11. INDEPENDENT CONTRACTOR

CONSULTANT is, and shall be, acting at all times in the performance of this Agreement as an independent contractor herein and not as an employee of CITY.

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CONSULTANT shall secure at its own cost and expense, and be responsible for any and all payment of all taxes, social security, state disability insurance compensation, unemployment compensation and other payroll deductions for CONSULTANT and its officers, agents and employees and all business licenses, if any, in connection with the PROJECT and/or the services to be performed hereunder.

12. TERMINATION OF AGREEMENT

All work required hereunder shall be performed in a good and workmanlike manner. CITY may terminate CONSULTANT's services hereunder at any time with or without cause, and whether or not the PROJECT is fully complete. Any termination of this Agreement by CITY shall be made in writing, notice of which shall be delivered to CONSULTANT as provided herein. In the event of termination, all finished and unfinished documents, exhibits, report, and evidence shall, at the option of CITY, become its property and shall be promptly delivered to it by CONSULTANT.

13. ASSIGNMENT AND DELEGATION

This Agreement is a personal service contract and the work hereunder shall not be assigned, delegated or subcontracted by CONSULTANT to any other person or entity without the prior express written consent of CITY. If an assignment, delegation or subcontract is approved, all approved assignees, delegates and subconsultants must satisfy the insurance requirements as set forth in Sections 9 and 10 hereinabove.

14. <u>COPYRIGHTS/PATENTS</u>

CITY shall own all rights to any patent or copyright on any work, item or material produced as a result of this Agreement.

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15. <u>CITY EMPLOYEES AND OFFICIALS</u>

CONSULTANT shall employ no CITY official nor any regular CITY employee in the work performed pursuant to this Agreement. No officer or employee of CITY shall have any financial interest in this Agreement in violation of the applicable provisions of the California Government Code.

16. NOTICES

Any notices, certificates, or other communications hereunder shall be given either by personal delivery to CONSULTANT's agent (as designated in Section 1 hereinabove) or to CITY as the situation shall warrant, or by enclosing the same in a sealed envelope, postage prepaid, and depositing the same in the United States Postal Service, to the addresses specified below. CITY and CONSULTANT may designate different addresses to which subsequent notices, certificates or other communications will be sent by notifying the other party via personal delivery, a reputable overnight carrier or U. S. certified mail-return receipt requested:

TO CITY: TO CONSULTANT:

City of Huntington Beach ATTN: Director of Public Works 2000 Main Street Huntington Beach, CA 92648 GHD, Inc. ATTN: Emma Del Vento 320 Goddard Way, Suite 200 Irvine, CA 92618

17. CONSENT

When CITY's consent/approval is required under this Agreement, its consent/approval for one transaction or event shall not be deemed to be a consent/approval to any subsequent occurrence of the same or any other transaction or event.

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18. MODIFICATION

No waiver or modification of any language in this Agreement shall be valid unless in writing and duly executed by both parties.

19. SECTION HEADINGS

The titles, captions, section, paragraph and subject headings, and descriptive phrases at the beginning of the various sections in this Agreement are merely descriptive and are included solely for convenience of reference only and are not representative of matters included or excluded from such provisions, and do not interpret, define, limit or describe, or construe the intent of the parties or affect the construction or interpretation of any provision of this Agreement.

20. INTERPRETATION OF THIS AGREEMENT

The language of all parts of this Agreement shall in all cases be construed as a whole, according to its fair meaning, and not strictly for or against any of the parties. If any provision of this Agreement is held by an arbitrator or court of competent jurisdiction to be unenforceable, void, illegal or invalid, such holding shall not invalidate or affect the remaining covenants and provisions of this Agreement. No covenant or provision shall be deemed dependent upon any other unless so expressly provided here. As used in this Agreement, the masculine or neuter gender and singular or plural number shall be deemed to include the other whenever the context so indicates or requires. Nothing contained herein shall be construed so as to require the commission of any act contrary to law, and wherever there is any conflict between any provision contained herein and any present or future statute, law, ordinance or regulation contrary to which the parties have no right to contract, then the latter shall prevail, and the provision of this Agreement

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which is hereby affected shall be curtailed and limited only to the extent necessary to bring it within the requirements of the law.

21. <u>DUPLICATE ORIGINAL</u>

The original of this Agreement and one or more copies hereto have been prepared and signed in counterparts as duplicate originals, each of which so executed shall, irrespective of the date of its execution and delivery, be deemed an original. Each duplicate original shall be deemed an original instrument as against any party who has signed it.

22. IMMIGRATION

CONSULTANT shall be responsible for full compliance with the immigration and naturalization laws of the United States and shall, in particular, comply with the provisions of the United States Code regarding employment verification.

23. LEGAL SERVICES SUBCONTRACTING PROHIBITED

CONSULTANT and CITY agree that CITY is not liable for payment of any subcontractor work involving legal services, and that such legal services are expressly outside the scope of services contemplated hereunder. CONSULTANT understands that pursuant to *Huntington Beach City Charter* Section 309, the City Attorney is the exclusive legal counsel for CITY; and CITY shall not be liable for payment of any legal services expenses incurred by CONSULTANT.

24. <u>ATTORNEY'S FEES</u>

In the event suit is brought by either party to construe, interpret and/or enforce the terms and/or provisions of this Agreement or to secure the performance hereof, each party shall bear its own attorney's fees, such that the prevailing party shall not be entitled to recover its attorney's fees from the nonprevailing party.

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25. SURVIVAL

Terms and conditions of this Agreement, which by their sense and context survive the expiration or termination of this Agreement, shall so survive.

26. GOVERNING LAW

This Agreement shall be governed and construed in accordance with the laws of the State of California.

27. SIGNATORIES

Each undersigned represents and warrants that its signature hereinbelow has the power, authority and right to bind their respective parties to each of the terms of this Agreement, and shall indemnify CITY fully for any injuries or damages to CITY in the event that such authority or power is not, in fact, held by the signatory or is withdrawn.

28. ENTIRETY

The parties acknowledge and agree that they are entering into this Agreement freely and voluntarily following extensive arm's length negotiation, and that each has had the opportunity to consult with legal counsel prior to executing this Agreement. The parties also acknowledge and agree that no representations, inducements, promises, agreements or warranties, oral or otherwise, have been made by that party or anyone acting on that party's behalf, which are not embodied in this Agreement, and that that party has not executed this Agreement in reliance on any representation, inducement, promise, agreement, warranty, fact or circumstance not expressly set forth in this Agreement. This Agreement, and the attached exhibits, contain the entire agreement between the parties respecting the subject matter of this Agreement, and supersede all prior understandings and agreements whether oral or in writing between the parties respecting the subject matter hereof.

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29. <u>EFFECTIVE DATE</u>

This Agreement shall be effective on the date of its approval by the City Attorney. This Agreement shall expire when terminated as provided herein.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed by and through their authorized officers.

CONSULTANT, GHD, INC By:	CITY OF HUNTINGTON BEACH, a municipal corporation of the State of California
PAN UERMANN print name ITS: (circle one) Chairman/President/Vice President	City Manager INITIATED AND APPROVED:
By: HA BOOKER	Director of Public Works APPROVED AS TO FORM: Pile City Attorney Date Io [27] 2025 RECEIVE AND FILE:
	City Clerk Date



Proposal

→ On-Call Construction Management, Materials Testing, and Inspection Services

• June 13, 2025 •





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E. Rate Sheet

Seperate file included in upload

Appendix

Resumes

© GHD 2025: This document is and shall remain the property of GHD. The document may only be used for the purpose for which it was submitted and in accordance with any of the solicitation to which this document responds. Unauthorized use of this document in any form whatsoever is prohibited.





→ Cover Letter

→ The Power of Commitment



Phone: 949.648.5200 www.ghd.com

City of Huntington Beach Public Works Department 2000 Main Street Huntington Beach, CA 92648

June 13, 2025

Re: Proposal for On-Call Construction Management, Materials Testing, and Inspection Services

Dear Selection Panel.

The City of Huntington Beach's Capital Improvement Program represents a vital investment in public infrastructure and community facilities. GHD is honored to submit our proposal to continue supporting this vision through a comprehensive suite of construction management, inspection, and materials testing services—strategically tailored to meet the City's evolving needs.

As the City's current provider of engineering and design services, our team is well-positioned to deliver high-quality, compliant, and cost-effective solutions. With experience managing over 85 on-call contracts across California, we bring a deep understanding of municipal project delivery and a strong track record of meeting compliance, quality, and performance standards.

To ensure the City receives the highest level of service, we have assembled a multidisciplinary team of industry-leading subconsultants:

- Twining, Inc. will serve as our primary partner for materials testing and inspection. With over 100 years of experience and Caltrans-certified laboratories, Twining offers advanced testing for soils, concrete, asphalt, steel, and more. Their certified inspectors and engineers will ensure all materials meet ASTM, AASHTO, and Caltrans standards.
- Vanir brings nationally recognized expertise in program, project, and construction management. Their team will support vertical and facilities inspection, labor compliance, and schedule control, ensuring seamless execution and stakeholder alignment.
- Montez Group, Inc. (MGI) will provide quality management and construction management support services. MGI's strengths in QA/QC, document control, and safety verification will enhance our ability to deliver technically sound and well-documented projects.

Our approach emphasizes **proactive planning**, **clear communication**, **and a collaborative mindset**. We apply structured pretask planning, real-time documentation, and early issue resolution to support successful project delivery. Our use of **web-based construction management software** enhances transparency and reduces turnaround times for RFIs and submittals.

We offer:

- Integrated Expertise across civil, structural, MEP, traffic, and environmental disciplines.
- Design-Build Readiness with proven success in early-phase constructability reviews and postaward oversight.
- Client-Focused Delivery aligned with the City's performance goals, budget, and schedule.
- Dispute Avoidance and Change Management through structured communication protocols and regular coordination meetings.

Our **local presence** is a significant advantage. Our main office, located at 320 Goddard Way, Suite 200, Irvine, CA 92618, serves as the central hub for project coordination. This is further supported by additional offices in Los Angeles, Costa Mesa, and Long Beach, with a combined team of 120 staff members. This close proximity enables us to respond swiftly, foster strong relationships, and remain deeply attuned to the City's evolving needs.

We have reviewed the City's standard Professional Services Agreement and insurance requirements and confirm our ability to execute the agreement as drafted. Additionally, GHD holds a valid City of Huntington Beach Business License (License No. A291789), issued more than six months prior to the RFP release date.

Thank you for considering our qualifications. We look forward to the opportunity to continue serving the City of Huntington Beach.

Regards,

Emma Del Vento

Contract Manager 425.412.6249

emma.delvento@ghd.com

Steve Briggs

Construction Manager

Stap T. Brigg

949.815.3816

steve.briggs@ghd.com





→ Vendor Application Form

REQUEST FOR PROPOSAL

VENDOR APPLICATION FORM

TYPE OF APPLICANT:	□NEW	CURRENT VENDOR
Legal Contractual Name of Corpo	oration:	àHD Inc.
Contact Person for Agreement: E	mma Del Vento	
Corporate Mailing Address:	320 Goddar	d Way, Suite 200
City, State and Zip Code:	Irvine, CA 926	18
E-Mail Address: emma.delvent	o@ghd.com	
Phone: 425.412.6249		Fax: N/A
Contact Person for Proposals: Na	tasha Johnson	
Title: Senior Proposal Specialist		E-Mail Address: natasha.johnson@ghd.com
Business Telephone: 916.245.42	22	Business Fax: N/A
Is your business: (check one)		
□NON PROFIT CORPORATION		FOR PROFIT CORPORATION
Is your business: (check one)		
©CORPORATION □INDIVIDUAL □PARTNERSHIP		□LIMITED LIABILITY PARTNERSHIP □SOLE PROPRIETORSHIP □UNINCORPORATED ASSOCIATION

Names	Title	Phone
See the following page for Corpora	ate Board Members	
Federal Tax Identification Number:	98-0425935	
f none, you must obtain a Huntingto	on Beach Business License upon aw	ard of contract.) 1, 2026
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(If none, you must obtain a Huntingto	on Beach Business License upon aw icense Expiration Date: January	

GHD INC.

Officers and Directors
Effective March 15, 2025

OFFICERS

Christopher Hunter

455 Phillip Street, Waterloo, ON N2L 3X2

Tom Klin

45 Farmington Valley Drive, Plainwell, CT 06062

Rachel McCaffery

410 Eagleview Boulevard, Suite 110, Exton, PA 19341

Theodore Whiton

2235 Mercury Way, Suite 150, Santa Rosa, CA 95407

Derek McBean

70 York Street, Suite 801 Toronto, Ontario M5J 1S9

Michael Moran

100 Milverton Drive, Suite 404, Mississauga, Ontario L5R 4H1

Pardeep Ark

455 Phillip Street, Waterloo, ON N2L 3X2

Gabriella Somoza

550 E. Swedesford Road Suite 140 Wayne, Pennsylvania

19087

Patricia Osoko

455 Phillip Street, Waterloo, ON N2L 3X2

Lindsay Ray

455 Phillip Street, Waterloo, ON N2L 3X2

Maria Erassova

455 Phillip Street, Waterloo, ON N2L 3X2

Board Chair/Executive Vice President

Executive Vice President

Executive Vice President

President

Vice President - Legal

Treasurer

Assistant Treasurer

Assistant Treasurer

Company Secretary

Assistant Company Secretary

Assistant Vice President-Tax

DIRECTORS

Theodore Whiton

2235 Mercury Way, Suite 150, Santa Rosa, CA 95407

Michael Moran

100 Milverton Drive, Suite 404, Mississauga, Ontario L5R 4H1

Tom Klin

45 Farmington Valley Drive, Plainwell, CT 06062

Rachel McCaffery

410 Eagleview Boulevard, Suite 110, Exton, PA 19341

Christopher Hunter

455 Phillip Street, Waterloo, ON N2L 3X2

Michelle Jones

One California Street, Suite 1450 San Francisco, California 94111



David Cain Interim Chief Financial Officer

HNY0121A 4000000106 104/1



GHD INC 320 GODDARD STE 200 IRVINE CA 92618-4613

Dear Business Owner:

Thank you for your payment. Attached is your City of Huntington Beach Business License certificate. Please note that approximately one month prior to the license expiration date, you will be mailed a renewal notice for the upcoming year. If for any reason your renewal notice does not arrive, you are still responsible for renewing and paying your business license prior to the expiration date. Penalties will be incurred if the payment is not received by the expiration date.

Please post the business license in public view. If you do not transact business from a fixed location within the City, you must carry this license with you at all times. If a vehicle license plate number is displayed on the Business License certificate below, you must carry a copy of the certificate in that vehicle. Please contact the Business License office if there are any changes to: ownership, address, business name, business vehicle, or type of business conducted. Additionally, please notify our office if you discontinue your business.

The Gender Tax Repeal Act of 1995 (Act) prohibits a business from discriminating based on a person's gender for prices of similar or like-kind goods and services. However, the Act does not prohibit price differences based on the amount of time, difficulty, or cost of providing the services. In addition to prohibiting discrimination based on a person's gender, the Act requires certain businesses to clearly and conspicuously disclose to customers in writing the pricing for each standard service provided. The posting requirement applies to barbers and hair salons, tailors or businesses providing aftermarket clothing alterations, dry cleaners, and laundries providing services to individuals. To access the Department of Consumer Affairs publication, please use the following webpage: https://www.barbercosmo.ca.gov/consumers/gender_policy.pdf. To access the publication in Korean, Spanish, Vietnamese, Traditional Chinese, Simplified Chinese, or Tagalog, please use the following webpage: https://www.dca.ca.gov/publications/index.shtml

There are many resources available to our business owners. Listed below are a few that might be of interest and assistance to you.

Office of Business Development - (714) 536-5582 Huntington Beach Chamber of Commerce - (714) 536-8888 CA Department of Tax and Fee Administration - (949) 440-3473 Service Corps of Retired Executives - (714) 550-7369 Fictitious Business Name Information - (714) 834-2889 Community Development - (714) 536-5271

If you have any questions, please call a Business License representative at (714) 536-5267.

City of Huntington Beach Business License

Business Name / Service Address GHD INC

POST IN PUBLIC VIEW

License Number A291789

Owner / Corporation GHD INC

License Type PROFESSIONAL SERVICES



2/1/2025 Expiration Date 1/31/2026

Amount Paid \$110.80

THIS LICENSE IS ONLY FOR THE BUSINESS AND TYPE SHOWN. IT IS FOR THE PERSON TO WHOM ISSUED AND IS NON-TRANSFERABLE. RENEWAL IS DUE ON OR BEFORE THE EXPIRATION DATE.





→ Pre-Qualification Form (Exibit A)

PRE-QUALIFICATION FORM

ON-CALL CONSTRUCTION MANAGEMENT and MATERIALS INSPECTION CONSULTING SERVICES

SERVICE CATEGORY	PROPOSING? Y/N
	(circle)
A. Construction Management	Yes/ No

EDV (Initial) Con	nsultant is willing to execute the Agr	eement as drafted (See Appendix B).
EDV (Initial) Con	nsultant is able to provide the insurar	nce as required (See Appendix C).
Firm Name:	GHD Inc.	
Firm Address:	320 Goddard Way, Suite 200,	Irvine, CA 92618
Signature:	mpQNab	Date: June 13, 2025





→ Service Category



Firm Qualifications

Having served clients in California since 1985, GHD offers a strong local presence, with over 500 employees within a 250-mile radius of the project. In addition to our local knowledge, GHD has 1,900 staff across the United States and 12,000 employees operating globally. When needed, we can leverage national and global experts to provide insights and offer input into developing actionable solutions.

→CM/Inspection Experience

GHD is an industry-recognized leader in managing complex public infrastructure and facility construction projects. Our Construction Management Group operates across the United States and Canada. We are known for completing work safely, on time, and within budget—consistently exceeding client expectations.

GHD's team brings deep expertise in delivering a full range of project delivery methods, including conventional construction management, design—build (DB), and progressive design—build (PDB). We have successfully managed projects under various contracting models such as competitive bidding, negotiated contracts, and performance—based agreements. Our experience spans a wide array of public works infrastructure, including pump stations, lift stations, pipelines, traffic signals, road rehabilitation, and bridge retrofits, as well as vertical construction projects such as fire stations, police facilities, libraries, and community centers.

With a highly skilled and certified staff—including PMP- and CCM-certified construction managers—GHD is well-equipped to support the City of Huntington Beach in delivering its capital improvement program. We offer a collaborative, proactive approach to construction management that emphasizes constructability review, schedule

96+ years in operation
135+ countries served
160+ offices worldwide
1.9® USD revenue 2024
5 global markets
12® people
45+ service lines

Providing engineering, environmental, and construction services

and cost control, quality assurance, and stakeholder coordination throughout all phases of project delivery.

Our highlighted project experience on the following pages showcases the value we will provide the City. We offer program development during the project's initiation stage to align with business case objectives, delivering early methodology selection, initiation, design document review, schedule and cost estimation, and bidding support. GHD is also proud of its longstanding experience delivering oncall services comparable to those outlined by the City, as detailed in the table on the following page.



→ Key Personnel Experience

We are a team of seasoned professionals with extensive experience delivering complex infrastructure projects. The matrix below offers a concise visual summary of our collective qualifications, highlighting each team member's expertise across 18 key service areas. This representation underscores the depth and breadth of our capabilities and demonstrates our proven ability to achieve high-quality outcomes throughout every phase of project execution. Grounded in technical excellence, collaborative problem-solving, and industry best practices, the GHD team is exceptionally well-equipped to meet project goals with precision and efficiency. Resumes for key personnel are included in the appendix of this proposal.

	Steve Briggs Construction Manager	Emma Del Vento Contract Manager	Bob Sherwood Quality Control Manager	Youngha Choi Assistant Project Manager	Mike Porter Inspector - Public Works Infrastructure	Stacey Mauer Controls Lead	Vanir	Twining, Inc.	Montez Group
Years of Experience	25+	20+	25+	8+	30+	16+	45+	125+	13+
Constructability/Bidability Reviews	✓	✓	✓	✓	✓		✓		✓
Value Engineering	V		V	/	V		1	2013	1
Public Bidding Phase Support	✓	✓	✓				✓	✓	✓
Submittal Tracking, Reviews	✓	V	✓	✓			✓		100 mm mg
Construction Management & Controls	✓			√	√		√		
Contract Administration	✓			✓		1	1	3.73	12.43
Inter-agency and Third-Party Utility Coordination	✓	✓							
Construction Inspection	Wij. Victor						1		1
Storm Water Quality Inspections							1		✓
Materials Testing	Varian							✓	\
Progress Meetings and Reporting	✓	V		✓		✓	√		
Progress Payments and Grant/Fund Tracking	~			Ý	Y	Y	~		
Change Order Management	✓			✓	✓	✓	✓		
Permit Monitoring	✓		100000000000000000000000000000000000000	V			✓		
SWPPP & Erosion/Sediment Control Monitoring					i				✓
Claims & Disputes Prevention/Mitigation	V			✓		1			
Project Closeout	✓	✓	1	✓	✓	✓	✓	✓	
On-call Services	1	1		protein.	✓	/	√	1	1,111
Design Build Experience	✓	✓	✓	✓			✓		
Progressive Design Build Experience	/	1				1, 1, 1	√ 1		

→ Subconsultants



Founded in 1964, Vanir is a nationally recognized leader in program, project, and construction management (PMCM), as well as real estate development.

Consistently ranked among the top PMCM firms by Engineering News-Record for over 30 years, Vanir has delivered \$30.8 billion in construction value across hundreds of projects nationwide.

State and Local Government Expertise

Vanir partners with state and local government agencies-cities, counties, municipalities, and special districts-throughout all phases of the project lifecycle, from planning and design to construction and occupancy. With experience spanning 17 states and over 3,000 projects, the firm has contributed to facilities that strengthen public services and enrich communities.

With a portfolio that includes work for over 80 municipalities, Vanir brings deep insight into public agency operations. Many team members have prior experience in municipal roles, offering a unique perspective that aligns with agency goals and operational needs. The firm consistently advocates for its clients, allowing them to focus on core responsibilities while Vanir manages project execution.



Twining, Inc. is a leading VINING provider of construction materials testing and

inspection services with over 100 years of experience. Serving transportation, infrastructure, commercial, and municipal sectors, Twining offers comprehensive testing for soils, concrete, asphalt, steel, and more-ensuring compliance with ASTM, AASHTO, and Caltrans standards.

Their certified inspectors specialize in structural steel, concrete, masonry, and post-tensioned systems, holding credentials from ICC, AWS, and ACI. Twining's proactive approach emphasizes early issue detection, clear communication, and detailed reporting to help clients maintain schedules and budgets.

Known for technical excellence and clientfocused service, Twining delivers reliable, valuedriven solutions that enhance construction quality and project success.



Montez Group, Inc. (MGI) is a trusted provider of Special Inspection and Field-Testing Services, supporting vertical

and civil construction projects with a strong focus on quality, compliance, and communication. Our certified inspectors ensure work meets code, performance standards, and audit requirements.

MGI deploys ICC and ACI-certified professionals throughout the region, providing on-site support in concrete, masonry, soils, asphalt, structural steel, and fireproofing. Serving sectors such as healthcare, education, infrastructure, and commercial development, the company delivers dependable inspection services tailored to the specific needs of each project.

Core Services:

- Special Inspection per CBC Chapter 17 and project specs
- Field Testing and Sampling
- Daily Field Reports and Nonconformance Tracking
- Document Control and Audit-Ready Reporting

Certifications & Accreditations:

- ICC and ACI Certified Inspectors
- DSA Certified Laboratory (K-12 and community colleges)
- HCAI Certified (California healthcare construction)

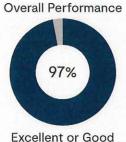
→ References

GHD is proud of our reputation for providing quality planning, design and construction management expertise in all facets of project implementation. We encourage you to talk with some of our clients about our performance on recent similar projects.

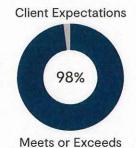
There is no better proof of our work than direct testimonials from our clients. **90 percent of our clients are municipal agencies or government entities, and approximately 75 percent of our work comes from repeat clients.** This track record illustrates our in-depth knowledge of specialized engineering services and speaks to our clients' confidence in our ability to deliver a project from planning and implementation, through to completion.

→ The following project case studies illustrate our team's depth and breadth of experience to our construction mangement services.

GHD's success at exceeding our clients' needs is evidenced by the high percentage of repeat business that GHD has experienced and the results of more than 7,000 client responses received since February 1999 under our ISO 9001:2015



Responsiveness
97%
Excellent or Good



GHD

Client: Rio Tinto Alcan Inc.

Contact: Mitch Calhoun; T: 760.762.7440;

Email: mitch.calhoun@ritinto.com

Dates: 2024 - Present

Key Team Members: Emma Del Vento (Project Director); Steve Briggs (Construction Manager); Bob Sherwood (Quality Control

Manager

Construction Management for U.S. Wilmington Site

GHD is leading construction at the Wilmington site, ensuring all work aligns with Rio Tinto's health, safety, and environmental standards. We prioritize safety, environmental stewardship, and quality. As Rio Tinto's on-site representative, we manage permits, inspections, and contractor coordination. Our team collaborates with plant

leadership to align construction with operations. We support design and constructability reviews, offering practical solutions. RFIs, change notices, and schedules are managed precisely to maintain momentum. Using Procore, we enable real-time communication and visibility. Our proactive planning anticipates challenges, ensuring smooth execution. With decades of experience and a collaborative approach, we're advancing the project safely and efficiently.



Carlsbad New Intake Concrete Repair

GHD provided critical support to Poseidon Water/ Channelside LP in the design and construction of a larger intake structure for the Carlsbad Desalination Plant. The project included key upgrades such as large rotating screens to protect marine life, a screen cleaning system, improved water circulation infrastructure, and repairs to the existing intake concrete. Through a collaborative value engineering (VE) review, GHD identified opportunities for significant cost savings. A VE Client: Poseidon Channelside

Contact: Ken Rayburn; T: 760.475.3661; Email: krayburn@channelsidedesal.com

Dates: 2023 - Present

Key Team Members: Bob Sherwood (Project Manager); Satish Chilka (Marine Structural

Lead)

site inspection helped refine the repair strategy, focusing on a 30-year design life, potable water standards, and eliminating the need for cathodic protection. GHD recommended in-kind repairs for above-water elements and demolition of a large section of the concrete deck instead of repairing it. This approach reduced both time and cost. GHD's marine construction expertise and innovative solutions were essential to the project's success, ensuring long-term durability, environmental compliance, and efficient delivery.



CAL FIRE/Cal OES/USFS -Southern Operations Headquarters Joint-Use Facility

Vanir was selected to manage the \$40M development of the Southern Region Operations Headquarters, a joint-use facility for CAL FIRE, California Governor's Office of Emergency Services (Cal OES), and U.S. Forest Service (USFS). Located on 12.5 acres at March Air Reserve Base in Riverside County, the LEED Gold-certified facility supports disaster response coordination from Sacramento to

Client: California Department of General

Contact: Tom Schanberger; T: 916.376.1687;

Email: Tom.Schanberger@dgs.ca.gov

Date: 2016 - 2019

Key Team Members: Jon Murphy (Cost

Estimator)

the Mexican border. The 63,000 sq. ft. project included an Operations Coordination Center, Joint Information Center, solar power system, and critical infrastructure such as emergency generators and a 130-foot communications tower. Managed by the California Department of General Services, the program required close collaboration among CAL FIRE, Cal OES, USFS, Riverside County, the U.S. Air Force, and various permitting agencies. A key priority throughout the project was ensuring long-term reliability and seamless system performance.



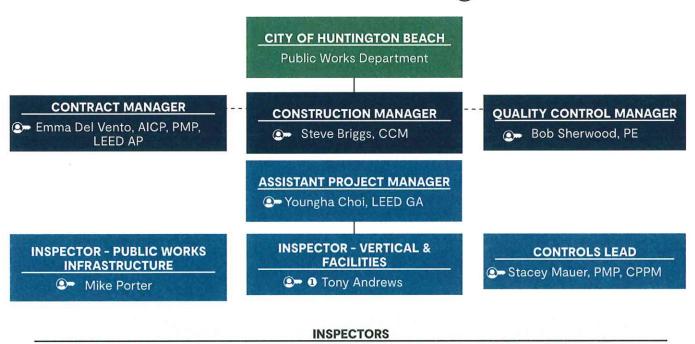
Preferred Staffing

In alignment with your on-call service requirements, we have structured a project team that covers the full range of anticipated services for this contract. Our team members bring a strong history of successful collaboration on similar projects, and we maintain the flexibility to integrate additional expertise as needed. We are fully committed to retaining the proposed team throughout the duration of the contract to provide consistency and continuity. Resumes for key personnel are included in the appendix of this proposal

→ Organization Chart

Merideth Holloway, PNLs

Orry Nottingham, PE, LEED AP,



Paul Warner

O Gerard Pena

MATERIAL TESTING Amir Ghavibazoo, PhD

Samuel Jung

O Dickson Sum, Architect LEED AP

Paul Soltis, PE, GEEstuardo Ramirez

Key	
@	Key Personnel
0	Vanir
0	Twining, Inc.
6	Montez Group

PROJECT RESOURCES Scheduling **Cost Estimating** Traffic Byung Lee, PE, TE Elijah Turner Steve Ferrero O Jon Murphy **Alternative Delivery** Fiber Optic **Labor Compliance** Casey Raines, PE, Crystal Prairie PACP, MACP Crystal Prairie Greg Watanabe, PE, Project Coordination DBIA, PACP, MACP Youngha Choi. LEED GA **Bridges** Luke Miner, PE Nicole Garza

→ Key Personnel



Steve Briggs, CCMConstruction Manager

Education: AS, Construction Technology, Penn Foster College, Scottsdale, AZ

Registration: Certified Construction Manager #9585, Construction Manager Certification Institute; State Contractor's License "B", CA #831646

Steve is a **Certified Construction Manager** with over 25 years of experience leading infrastructure and facility projects. He specializes in construction oversight, team coordination, and contract administration, managing multidisciplinary teams on public works projects exceeding \$40 million in value.



Youngha Choi Assistant Project Manager

Education: BS Architecture; University of Michigan

Registration: OSHA 30 Certification; LEED Green Associate Certification; #11201526; CA Department of Real Estate Sales; #20195785

Youngha is an Assistant Project Manager with 8 years of experience supporting commercial, industrial, and residential developments up to \$20M. Skilled in coordinating teams, managing budgets and schedules, and ensuring safety compliance, Youngha consistently delivers high-quality results while fostering strong client relationships and supporting sustainable project goals.



Emma Del Vento, AICP, PMP, LEED AP

Contract Manager

Education: MA, Architecture, University Institute of Architecture, Venice, Italy

Registration: American Institute of Certified Planners, #276197; Project Management Professional, Project Management Institute; Leadership in Energy and Environmental Design, US Green Building Associate; Architecture Registration Exams, Italy

Emma is a seasoned contract manager with over 20 years of experience overseeing complex capital programs. She excels in contract negotiation, compliance, and multi-stakeholder coordination, delivering infrastructure and public works projects on time and within budget for federal, maritime, and transportation clients.



Bob Sherwood, PEQuality Control Manager

Education: BS, Civil Engineering, University of California, Irvine, CA

Registration: Civil Engineer, CA #64351; Coastal Engineering Certificate Program, Old Dominion University, Norfolk, VA

Bob is a civil/waterfront engineer with over 25 years of experience specializing in quality control for marine and coastal infrastructure. He has led inspection and QA/QC efforts on complex projects, ensuring compliance with engineering standards and delivering durable, high-performance solutions across public, industrial, and environmental sectors.



Mike Porter
Inspector - Public Works
Infrastructure

Registration: FAA Aircraft Repair certificate #370510Drilling/Core Sampling & Geotechnical Sampling

Mike is a Lead Inspector with over 30 years of experience in public works infrastructure. He specializes in QA/QC for roads, bridges, and highways, with expertise in materials testing, geotechnical sampling, and seismic retrofit inspections on major Caltrans projects across California.



Stacey Mauer, PMP, CPPM

Controls Lead

Education: Certified Practicing Project Manager, Australian

Institute of Project Management; Diploma, Project Management, Scope Training Pty Ltd, Subiaco, WA; Certified Prince2 Foundation, Axelos, PeopleCert

Registration: Project Management Professional #3855325, Project Management Institute

Stacey is a seasoned Project Controls Lead with over 16 years of experience managing cost, schedule, and risk on major infrastructure and transportation programs. She specializes in earned value analysis, forecasting, and contract administration, ensuring financial performance and compliance across complex, multi-million-dollar public sector projects.



Tony Andrews
Inspector - Vertical &
Facilities

Education: State of California Vocational School, Welding Certified

Tony brings over 35 years of experience in construction management and inspection. With a strong background in field supervision, he excels at identifying and resolving issues through hands-on collaboration with contractors and stakeholders. Tony has led inspection efforts across planning, procurement, and construction phases, ensuring quality, safety, and compliance. His deep trade knowledge and commitment to building strong working relationships make him a trusted leader on complex, high-impact projects.



Amir Ghavibazoo, PhD Material Testing

Education: Doctorate, Civil Engineering, California State University, Long Beach, CA; BS,

Civil and Environmental Engineering, California State University, Long Beach, CA

Dr. Ghavibazoo is a pavement engineer and project manager with over 11 years of experience in materials testing. He specializes in asphalt mix design, geotechnical evaluation, and quality assurance. Amir leads innovative, cost-effective pavement solutions through rigorous testing, inspection, and engineering expertise across diverse infrastructure projects.



Understanding & Methodology Section



Overview

The City of Huntington Beach is implementing the projects from the Capital Improvement Program (CIP)—a strategic five-year initiative designed to enhance municipal infrastructure, improve quality of life for residents, and strengthen the City's appeal as a premier coastal destination.

GHD is proud to support this vision through our deep expertise in On-Call Construction Management, Materials Testing, and Inspection services. Our integrated delivery model—led by Certified Construction Managers (CCM) and Project Management Professionals (PMP)—promotes streamlined communication, strong accountability, and seamless execution from planning through completion.

GHD's strong local presence—anchored by offices in Irvine, Los Angeles, Long Beach, and Tustin—includes a team of 120 professionals with deep municipal project delivery knowledge and direct access to GHD's global network of multidisciplinary experts. This structure enables us to deliver tailored, high-quality solutions with the responsiveness of a local firm and the capabilities of a global organization.

Building on our ongoing involvement in the City's civil engineering and infrastructure design efforts, GHD facilitates a smooth transition from design to construction. This continuity supports early constructability reviews, proactive risk mitigation,

PMCMs Approach to Health and Safety

Training - All field staff are required to complete training to match the requirements of their onsite duties.

Job Safety and Environmental Analysis (**JSEA**) - will be used to identify potential hazards, evaluate risks, and determine control measures before starting a job.

Daily - staff expectations for site visits -Vehicle Inspection, and pre-work assessment, used to help ensure staff are cognizant of the conditions under which they are about to work.

Oversight of Contractor - GHD on site staff will provide oversight for compliance with safety regulations.

Subconsultant approach - prequalification, audits, health and safety plan review.

real-time coordination between design and construction teams, and comprehensive post-award oversight. By aligning design insight with field implementation, we deliver a unified solution that optimizes schedules, controls costs, and upholds the highest quality standards.

GHD looks forward to supporting the City's mission of keeping Huntington Beach running smoothly on an everyday basis and becoming a more resilient City by managing the execution phase to provide water, street, and park structures and facilities as scoped in design. Urgent challenges around aging infrastructure, facility rehabilitation, system redundancy will provide excellent project opportunities to leverage the years of knowledge our design team has gained and transfer to the construction phase. Our construction leads will add value with a deep scope understanding, a better customized

selection of Contractors, and managing execution safely and with minimal interruptions to key services for users.

Our deep understanding of the City's infrastructure challenges further reinforces our role as a trusted partner and effective problem solver. For instance, our issue log identifies recurring geotechnical concerns at the McFadden Lift Station and Feeder No. 2 Pipeline projects. We conducted a thorough analysis of historical records and adjacent project documentation and collaborated closely with both internal and external geotechnical teams to resolve these issues. We meticulously documented the mitigated risks and shared key lessons learned across our local offices to inform future project planning. This proactive, solutions-oriented approach was also demonstrated during the City's other gas connection project, coordinating with Southern California Gas Company. Leveraging our technical expertise and stakeholder engagement skills, we successfully coordinated with the public and municipal agencies to address potential concerns related to safety and permits, resulting in smooth project execution and strong community alignment.

Our proven track record includes the successful management of complex municipal projects such as stormwater treatment system improvements in Wilmington and desalination plant repairs in Carlsbad. These projects reflect our commitment to delivering solutions that meet regulatory requirements and exceed client expectations. By leveraging advanced project delivery methods and certified testing protocols, we ensure durability, safety, and functionality across all project types.

To further support the City's goals, GHD has partnered with Twining, Inc.—a Caltrans-certified laboratory recognized for its excellence in materials testing. Twining provides a full suite of services across transportation, infrastructure, and municipal sectors. Their certified inspectors and advanced laboratories conduct rigorous testing of soils, concrete, asphalt, steel, and masonry in accordance with ASTM, AASHTO, and Caltrans standards. This partnership ensures that every material component performs as designed—minimizing risk and supporting long-term infrastructure resilience.

US WEST >>> **ALTERNATIVE DELIVERY** REPRESENTATIVE PROJECTS Water Carlsbad Desalination Plant - Huntington Beach Desalination Plant Union County Poplin Point Pump Station **EPCOR Water Sun City Well Replacement** East County Advanced Water Purification Project (ECAWP) Package 2 water pipeline Arcadia WTP Expansion and Olympic Sub Basin Restoration, City of Santa Monica Oliver P Roemer Facility, West Valley Water District East Garden Grove Wintersburg Channel Albert Robles Center for Water Recycling & Environmental (ARC), Water Replenishment District of Southern California **Energy & Resources Environment** Rialto Bioenergy Facility Sun Valley Transfer Station and Material Recovery Facility **Property & Buildings** California Health Care Facility Project Levi's Stadium **Federal** Naval Surface Warfare Consolidation, Pacific Fleet Wharf Improvements, Guam Naval Air Weapons Station, China Lake - Advanced Water Treatment Plant, Camp Pendelton Recycled Water Conveyance, Camp Pendelton

Transportation

Holman Highway 68 Roundabout



Construction Management & Inspection Services

GHD's Construction Management Team (CMT) will coordinate with the city to discuss project details, review schedules, provide drafts for review and produce final documentation ready for the city council's signature. Throughout the construction phase, we will take a proactive approach to mitigate any disruptions to the contractor's schedule, ensuring that high-quality work is delivered. We will provide periodic updates, coordinate meetings and telephone calls, and promptly transcribe and distribute meeting notes. We will perform the following services:

Task 1 Project Management

Task 1.1 - Provide Management of GHD CM Services

GHD project management will prepare and maintain budgets and schedules for our CM services, instructions to the GHD team, field safety instructions, and routine progress reporting via Virtual Project Manager (VPM) and Project Tracking System (PTS) platforms as requested.

Task 2 Contract Management

Task 2.1 - Provide Project Coordination

We will coordinate with City staff to discuss and address project issues. We will accomplish this through daily/weekly email updates of the activities that preceded the work accomplished in the period when issues that occurred. The weekly update will be more in depth by providing a two-week schedule look ahead and will contain an ongoing list of outstanding critical issues.

Task 2.2 - Prepare and Conduct the Preconstruction Meeting

The pre-construction meeting will include the City, the design team, and the contractor. The CMT will prepare the agenda and meeting minutes. Before the meeting, the CM will prepare a draft contact list, including GHD staff, City staff, contractors, and others as appropriate. We will identify contact information for key personnel from each agency to be contacted in the event of an emergency. The CM will update, finalize, and distribute the list to all participants after the meeting, and to the police and fire departments.

Task 2.3 – Conduct and Document Project Meetings

We will conduct weekly progress meetings and other special technical meetings throughout the project. The CM will prepare the agenda, describing key issues, schedule status, and potential change orders, and distribute notes to meeting participants.

Task 2.4 - Review Contractor's Construction Schedule

We will review the contractor's project schedule for conformance with the specifications and reasonableness of activity durations and sequence. The CM will perform the following activities:

- Coordinate review comments by the City and design team and transmit review comments to the contractor.
- Meet with the contractor to discuss and clarify any significant issues, review revised schedules and work progress as compared to the as planned schedule, and notify contractor of schedule slippage.
- Review the schedule to determine weather and change order impacts on the construction schedule; and review the contractors' updates of the construction schedule that incorporates actual progress, weather delays, and change order impacts.

Task 2.5 - Maintain Project Records

We will maintain project records, including daily logs, inspection reports, compliance testing results, photos, measurement of quantities, schedules, submittals, RFIs, RFCs, PCOs, change orders, monthly pay requests, issues, and correspondence. We will maintain project records in an organized manner for quick reference. The project records will be a combination of the web-based management system and project-specific reports.

Task 2.6 - Review and Evaluate Monthly Progress Payments

We will review and evaluate the contractor's submitted monthly progress payment requests, negotiate payment differences, and recommend payment to the City. We will check quantity vouchers, signed independently by the CM, to monitor quantities paid against estimated quantities. Our CM will monitor certified payrolls. (This task was not included in the RFP Scope, and may be deleted if City staff will handle).

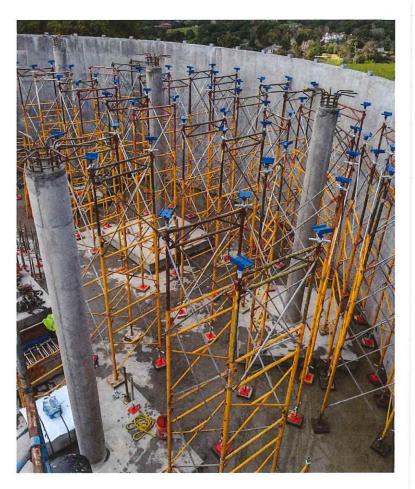
Task 2.7 - Prepare Monthly Status Reports

The CM will prepare and submit to the City a monthly progress report, which will include:

- A narrative description of the work and major tasks completed
- Schedule overview
- Contract change order summary
- RFI Summary
- Representative progress photos
- Summary of construction progress for the prior reporting period
- Inspection results
- Status of significant project issues
- Material testing reports

Task 2.8 - Requests for Information (RFIs)

The CM will coordinate, evaluate, and manage the process of responding to RFIs. This effort includes monitoring the electronic submittal and transmittal of RFIs and responses and providing responses to inquiries that relate to field



conditions. The CM and inspectors will review all RFIs to understand requirements and identify potential issues.

Task 2.9 - Potential Change Orders (PCOs) and Change Orders

The CM will coordinate and manage the change order process, including logging, reviewing them in conjunction with the design team and the City, assisting with determination of changed conditions and scope definition as needed, developing independent cost estimates, assisting with negotiation, and incorporating change orders into the construction contract.

Task 2.10 - Submittal and Shop Drawing Review Process

We will coordinate the submittal and shop drawing review process, including logging submittals from the contractor, transmitting them to the design team for response, coordinating with the design team on field status, tracking progress, reviewing responses, and transmitting responses to the contractor. Incomplete submittals will be returned to the contractor before being submitted to the

design team. The CM and inspectors will also review submittals of shop drawings, materials, test reports, and manufacturer cut sheets to understand installation requirements and identify potential issues.

Task 2.11 - Monitor Construction Record Drawings

We will require the contractor to maintain construction record drawings in coordination with the progress pay request. The drawings will be reviewed by the CM Team, annotated as appropriate, and provided to the design engineer to update the CAD files.

Task 2.12 - Monitor Labor Compliance

We will notify the contractor and ensure compliance with prevailing wage requirements by conducting spot checks on adherence to state labor laws and documentation, including certified payroll. Daily reports will be prepared, detailing employees, labor classifications, hours worked, and equipment used on the project. We will verify that apprentices are employed, confirm that David-Bacon or state prevailing wage rates are paid, and ensure the contractor displays all required posters, notices, and wage determinations at the job site.

Task 2.13 - Perform Claims Management

We will analyze potential claims for additional compensation submitted during the construction period and make recommendations to the City for resolution. The CM will coordinate and monitor claims response preparation, logging and tracking status, monitoring and assisting in mitigating any potential project claim, and supporting in defending any construction claims. We will negotiate construction claims as an extra service.



Task 3 - Provide Field Inspection/ Observation

GHD will provide on-site construction inspector/ observer to monitor the contractor's work for compliance with the contract documents, submittals, RFIs, change orders, traffic and pedestrian control plan, public outreach plan, and environmental compliance. The contractor's certified payrolls will be checked and documented by the inspector.

Task 3.1 - Prepare Photograph or Video Documentation

We will document initial site conditions before the contractor's commencement of construction using either still photographs or video and will provide additional photos of construction progress periodically throughout construction, including:

 will coordinate with assigned inspectors to monitor and enforce construction noticing requirements including, but not limited to SWPPP requirements.

Task 3.2 - Document Field Changes to the Drawings and Specifications

We will document field changes to the contract documents on a real-time basis during the progress of construction.

Task 3.3-Daily Observation and Reports

We will conduct daily observation, including monitoring for compliance with the technical and administrative requirements in the Contract Documents. The Inspector will prepare daily observation reports, including employee names and labor classification, equipment identification, hours that were worked and equipment utilized, weather conditions, and issues, observations, and significant conversations between the inspector and the contractor and public. The daily reports will have photographs and material tags.

Task 3.4 - Develop Punch List

We will develop a preliminary punch list for the project and maintain a running punch list through the project course. The CMT will schedule the City and design team to conduct completion inspections and issue final punch lists.

Task 3.5 - Compile Final Records/Closeout

We will provide the City with a complete set of project records, indexed and filed, and a list of warranties provided under the project including the items covered and the warranty duration. The required closeout documentations listed on RFP, including but not limited to inspection records, NOC, manuals, as-built drawings, lien releases, will be all in electronic format, and submitted digitally.

Task 3.6 - Prepare Final Pay Estimates

We will prepare the final pay estimate and balancing change orders, prepare the Notice of Completion, and coordinate retention release after construction.

Task 4 - Materials Testing

GHD's locally partnered materials testing laboratory, Twining, Inc., a Caltrans-certified facility, will perform tests and review laboratory, shop, and mill test reports of materials and equipment, coordinating as needed with Design Engineers. All testing procedures follow industry standards, with results meticulously certified and documented to support compliance and maintain transparency.

Methodology: GHD's Program Management Approach

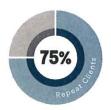
At GHD, our team of experts has experience in delivering complex projects across various sectors listed on the City of Huntington Beach Capital Improvement Program, including Linear Water Infrastructure & Wastewater Treatment, Transportation/Traffic Control, Fiber Optic, Park Development, and Tenant Improvement projects. Our company and key personnel have a deep understanding of the unique challenges and requirements of each project type, allowing us to provide the right solutions that meet the specific needs of our clients. In addition to our sector-specific experience, our team has also worked on a range of specialized projects, including environmental work. This has given us a unique understanding of the importance of environmental sustainability and the need to balance project goals with environmental considerations.

The application of personal wellness practices to construction projects monitors important functions, provides important information to the team, and facilitates appropriate responses to project challenges.



→ Methodology: Client Satisfaction







To achieve client satisfaction and meet project requirements, GHD will undertake the following efforts:

Understanding Client Needs: We prioritize comprehensive initial consultations to gain a deep understanding of our clients' unique needs, goals, and expectations. This involves engaging in detailed discussions and asking insightful questions to uncover all relevant aspects of the project. We also conduct thorough requirement analyses to capture every detail necessary for success. This approach allows us to tailor our services to meet and exceed client expectations, building a strong foundation for a successful partnership.

Effective Communication: We are committed to maintaining transparent and consistent communication throughout the project. Regular updates will be provided through meetings, detailed emails, and comprehensive reports to keep the City fully informed of our progress.

A robust feedback mechanism will be in place to promptly address any concerns or requested changes, allowing us to remain responsive and aligned with the City's needs.

Timely Delivery: Each project phase will be carefully planned and monitored using advanced project management tools and methodologies. By optimizing resource allocation and applying proactive risk management strategies, we aim to avoid delays and promote seamless, efficient execution.

Technical Expertise: A team of highly skilled professionals with relevant experience will be assigned to each task. We invest in continuous training and professional development to keep our team at the forefront of industry advancements. This commitment allows us to apply the latest technologies and methods, delivering innovative and effective solutions.

Sustainability and Compliance: Sustainable practices will be integrated into project execution to align with the City's goal of Profitability through Sustainability. All project activities will be conducted in accordance with applicable laws, regulations, and industry standards.

Client satisfaction ratings

We aspire to be the partner our clients rely on to achieve what matters most to them, their business, and the community in which they operate. Our Commitment begins with "Your Voice," our client feedback program. The program goes beyond listening, capturing the intricacy of client sentiment, and gathering meaningful and actionable feedback. It provides insights that enable us to deeply understand how our clients feel, think, and act. We want to do more than just listen; we want to deliver exceptional experiences by continually enhancing and adapting to meet our clients evolving needs.



Four key components to GHD's approach:

- 1. Project communications and tracking
- 2. Task planning/problem avoidance
- 3. Problem solving
- 4. Critical response

Project Communications and Tracking

The most important factor in the success or failure of a construction project is often communication. Clear communication between the design team, the field staff, and the City is critical to understanding priorities and establishing good working relationships that will foster the trust needed to work through significant project issues. Clear construction documentation is essential to support personal communications and to understand project status. GHD uses document controls to organize critical documents and track critical performance metrics. Like a dashboard for your project, document controls:

- Provide a quick overview of performance metrics
- Allow users to drill down into critical data
- Has alert and e-mail notification capabilities
- Provide reports that illustrate project performance
- Share information across the project team.

Similar to a focus on healthy personal habits, document controls support healthy project habits.



Task Planning/Problem Avoidance

GHD recommends a pre-task planning session before the start of a new activity or work with a new crew, similar to an OSHA Job Hazard Analysis. Just as a task is evaluated from a safety perspective, GHD recommends meeting with the contractor to evaluate each new task from a quality control perspective. Assuring that the construction crew has a clear understanding of the work required and the associated quality control requirements before beginning the task is the best way to build quality into a project. Similar to checking that the necessary Personal Protective Equipment (PPE) is on-hand as part of a Job Hazard Analysis, a quality control task analysis includes assuring that the necessary tools, materials, and equipment are on-hand, including confirmation that the associated submittals have been approved, and any quality control inspections or testing are scheduled. Spending time before the task to review requirements and anticipate potential challenges is preventive medicine for the project's health.

Problem Solving

Despite tracking to encourage healthy project habits and planning to avoid hazards, challenges come up on every project. Like personal care physicians, GHD's construction management team takes an active role in:

- Diagnosing the problem
- Evaluating alternatives
- Working with the contractor, City, design team, and other stakeholders to identify the solution that will restore the project to health as efficiently as possible

Initiating discussions on contentious issues as soon as they arise can allow the resolution of potential claims before the parties become entrenched. GHD fosters a team approach to project issues so that challenges are less likely to inflame adversarial relationships and have a long-term impact on project success.

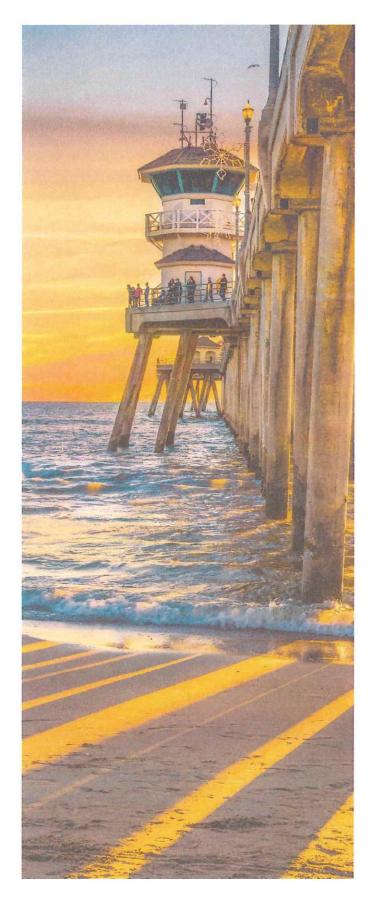
Critical Response

GHD's Construction Management
Approach – Good for the "Wellness" of Your
Project Sometimes, projects are threatened by
urgent issues, either due to the actions of one of
the project team members or due to something
beyond the control of the team. Regardless
of cause, professional relationships, clear
communications, and a commitment to project
success will allow project participants to work as
a surgical team to resolve the issue effectively.
Like a critical care unit, GHD has subject matter
experts who can be engaged quickly to assist
in pinpointing the most urgent steps to minimize
collateral schedule and cost impacts.

Methodology: Construction Phase Approach Schedule Control

GHD will adopt a proactive stance to help deliver the project with excellence—maintaining high quality standards, staying on schedule, and meeting budgetary goals. While change is often unavoidable in construction projects, our focus remains on preemptive planning and effective communication to minimize its impact.

Approach: Upon written or verbal request, and depending on the type of project, in-person meetings can generally be scheduled within the following week, while virtual meetings can be scheduled on shorter notice. For larger projects, formal schedules will be created using Microsoft Project to identify critical path tasks and resource requirements. From the kickoff date, milestones are set for each project task for peer review of project deliverables. As the project advances, the schedule is watched closely so that the items are completed within the time required.





Result: GHD will create, maintain, and refine the project schedule developed in coordination with the city staff to produce the baseline schedule. The schedule will be used to establish and monitor the project milestones and critical path items for deliverables, agency submission, and meetings. GHD's Project Manager will provide regular updates of the project schedule and submit to the city prior to each progress and or milestone meeting. GHD's Project Manager will further call on any resources necessary to address schedule issues.

Cost Control

We have extensive experience managing both participating and non-participating costs for various grants and funding sources. When needed, we implement tracking systems that support accurate accounting. GHD's in-house accounting systems are robust and fully compliant with state and federal requirements for both direct and indirect cost accounting.

Approach: GHD will establish a pattern of open communications and a team approach to problem solving to allow proactive handling of issues whenever possible. To facilitate staying current with project changes, we recommend conducting weekly coordination and progress meetings. Following routine coordination tasks and updates, leaders representing the city, PM/CM, and contractor teams can convene to review the comprehensive schedule and assess the status of change orders.

Result: Weekly coordination and progress meetings establish a target time for completion of change order paperwork and an opportunity to

advance resolution of project issues with senior management.

Constructability reviews

Constructability reviews play a vital role in the successful execution of construction projects. These evaluations examine design contract documents to verify that all necessary project information is clearly described and included. This process helps identify potential issues early, allowing for timely adjustments that can save both time and cost during construction. By taking a proactive approach, constructability reviews enhance project efficiency and feasibility while helping the final outcome align with the intended design and quality standards.

Approach: GHD will collaborate with the internal engineering resources to review and provide expert's input on designs in early phases. This collaborative effort will enable the team to review constructability concurrent to the project progression, quickly adapt to necessary changes, meet the deadlines of aggressive schedules.

Result: The city will benefit from GHD's flexible approach that can adapt to changing project needs and requirements based on field expert's feedback.

Risk Management

GHD will oversee all risk management activities throughout their assigned project throughout the project phases. The process begins with identifying potential risks during the development of the project approach and continues to be revisited throughout the project's lifecycle as part of ongoing project control.

Approach: All identified risks are documented in a Risk Register, where they are addressed and tracked to prevent adverse effects on the project schedule or budget. If a risk cannot be fully avoided, it is flagged as a potential impact to cost or timeline. Upon identification, we conduct a comprehensive brainstorming session involving technical, budgetary, and management professionals.

Result: This collaborative effort focuses on developing solutions that either eliminate the risk or reduce its impact. Through proactive risk management, we work to maintain project integrity and support successful delivery within the defined constraints.

Dispute Resolution

Identification of potential problems, risks, and concerns is crucial to ensuring a project's success. Building strong relationships with all stakeholders is vital to developing solutions that align with key project objectives.

Approach: During the early stages, we prioritize active listening over proposing solutions, recognizing that this approach creates a deeper understanding of stakeholders' needs. By implementing effective communication strategies, we can establish a collaborative environment among stakeholders, reducing the likelihood of conflicts. However, if disputes do arise, GHD adopts a tiered approach to resolution. Initially, we attempt to resolve issues at the lowest possible level, involving the Project Management team from both GHD and the City. If necessary, we escalate the issue to a higher level, scheduling in-person or virtual meetings with the Project

Director, Quality Assurance Manager, and Upper Management City staff to reach a resolution.

- Communications: Establish and maintain routine communications to build relationships and facilitate the necessary conversations to overcome obstacles, solve problems, and neutralize areas of potential dispute. We will facilitate good team communication through daily interactions, weekly coordination meetings, and monthly progress meetings.
- Issue escalation: Mutually agree to time frames to escalate issues for resolution. Employ staff to resolve issues at the lowest practical level and elevate quickly if relevant information is known and the current level of ownership is unable to resolve an issue.
- Decision-making: Keep management informed so that efficient decisions are made when needed by team members not involved in dayto-day activities.

Result: Our goal is to identify viable alternatives and dispute avoidance. We will proactively seek for resolutions with positive attitude and a culture of collaboration.







→ Appendix A Resumes





Steve Briggs, ccm Construction Manager

Contact

- 949-815-3816
- steve.briggs@ghd.com
- Years' Experience
- Professional Licenses
 - Certified Construction
 Manager #9585, Construction
 Manager Certification Institute
 - State Contractor's License "B", CA #831646
- Qualifications/Accreditations
 AS, Construction Technology, Penn Foster College
- (C) Key Technical Skills
 - Construction Management
 - Contractor/Subcontractor
 Coordination & Management
 - Change Orders & Claim Resolution
 - Client/Contractor Engagement
 - Coordination with Stakeholders
- (m) Memberships
 - Construction Management Association of America

Steve is a Certified Construction Manager with over 25 years of experience leading infrastructure and facility projects. He specializes in construction oversight, team coordination, and contract administration, managing multidisciplinary teams on public works projects exceeding \$40 million in value.

Relevant Experience

Deisgn, Procurement, and Construction of Mini-High ADA Ramps and Platforms | San Joaquin Regional Rail Commission | San Francisco Bay Area to Bakersfield, CA | Senior Project Manager. Led the design and construction of ADA-compliant mini-high platforms at all stations along the Amtrak San Joaquin route. Oversaw all phases from concept through construction, including stakeholder coordination, schedule management, and quality assurance. This project demonstrates Steve's expertise in accessibility compliance, public infrastructure, and managing multidisciplinary teams.

Modification and Overhaul of Existing State-Owned Rolling Stock | Caltrans Division of Rail & Mass Transit | California | Project Manager. Managed multiple concurrent projects involving HVAC upgrades, flooring replacement, digital train line integration, and ADA communication system enhancements across a fleet of 140+ railcars. Coordinated engineering, QA/QC, and contractor oversight. This work reflects Steve's ability to manage complex, multi-site infrastructure upgrades with a focus on MEP systems and public safety.

Siemens Single-Level New Car Deployment - Maintenance Facility Expansion | Caltrans | Stockton, CA | Task Order Manager. Oversaw the expansion of the Altamont Corridor Express (ACE) maintenance facility to accommodate new Siemens trainsets. Responsibilities included managing design and construction coordination, stakeholder engagement, and compliance with state oversight. This project aligns with the City's vertical construction goals and demonstrates Steve's experience with facility retrofits and infrastructure expansion.





Youngha Choi, LEED GAAssistant Project Manager

Contact

- (6) 562-206-7985
- youngha.choi@ghd.com
- Years' Experience
- (C) Professional Licenses
 - LEED Green Associate Certification; #11201526
 - CA Department of Real Estate Sales; #20195785
- Qualifications/Accreditations
 - B.S. Architecture; University of Michigan
 - OSHA 30 Certification
- (C) Key Technical Skills
 - Architecture & Design
 - Construction Management
 - Contract Review and Negotiation
 - Budget & Schedule Forecasting/ Reporting
 - Client/ Stakeholder/ Subcontractor Coordinations
 - Quality Control & Assuarance
- (m) Memberships
 - Project Management Institute

Youngha is an Assistant Project Manager with 8 years of experience supporting commercial, industrial, and residential developments up to \$20M. Skilled in coordinating teams, managing budgets and schedules, and ensuring safety compliance, Youngha consistently delivers high-quality results while fostering strong client relationships and supporting sustainable project goals.

Relevant Experience

Baker Hostetler and Confidential Clients - Global Scale Law Offices | Century City, CA | Owner's Rep Project Manager.

Managed multiple high-end tenant improvement projects in Class A buildings, each averaging \$15M. Demonstrated excellence in contract review, change order negotiation, and financial forecasting. Delivered complex AV/IT and MEP upgrades under tight constraints, earning client accolades for transparency, efficiency, and high-quality execution.

New Balance Retail Store Rollout | US & Canada | Owner's Rep Project Manager. Oversaw 25 retail construction projects across North America, managing up to 5 simultaneously. Implemented innovative coordination strategies and risk mitigation tools to ensure on-time, on-budget delivery. This project highlights Youngha's ability to manage multiple contracts, teams, and schedules in fast-paced environments.

Alpine Corporation Warehouse Development | Simi Valley, CA | Owner's Rep Project Manager. Led a \$20M industrial warehouse development, integrating tilt-up construction, stormwater systems, and a client-facing office. Managed all phases from design through delivery, ensuring compliance, functionality, and cost-effectiveness. This project demonstrates Youngha's ability to manage large-scale construction with a focus on logistics and operational efficiency.





Emma Del Vento, AICP, PMP, LEED AP Contract Manager

Contact

- (4) 425-412-6249
- @ emma.delvento@ghd.com
- Years' Experience
- Professional Licenses
 - American Institute of Certified Planners, #276197
 - Project Management Professional, Project Management Institute
 - Leadership in Energy and Environmental Design, US Green Building Associate
- Qualifications/Accreditations
 - MA, Architecture
 - Architecture Registration Exams, Italy
- (C) Key Technical Skills
 - Program Management
 - Urban Planning
 - Project Delivery
 - Capital Program Delivery
 - Aviation and Maritime
 - Defense and Sustainability
 - Asset Management
 - Disaster Preparedness
- (m) Memberships
 - MentorPOS Everyone Program
 - American Planning Association
 Puget Sound Section Treasurer
 - Port of Seattle Development and Diversity Council, Leadership Team
 - Future Cities Essay and Regional Judge
 - Federal Planning Division Awards Committee, Vice-Chair, Chair
 - Jacobs Inclusion and Diversity Ambassador
 - CH2M Ethics Ambassador
 - CH2M Women's Network Chapter Lead & External Engagement Committee

Emma is a seasoned program manager, architect, and urban planner with 23 years of experience delivering complex, high-value engineering projects globally. She specializes in defense, aviation, maritime, and sustainability, with a strong leadership background and a commitment to equity, resilience, and innovation in public and private sectors.

Relevant Experience

Port of Hueneme - CalSTA Grant Management | Port of Hueneme | Oxnard, CA | Program Manager. Emma is currently managing 13 projects totaling \$80 million under the California State Transportation Agency (CalSTA) grant. Her responsibilities include overseeing contract execution, budget tracking, and coordination of infrastructure upgrades such as zero-emission systems and building removals. This role demonstrates her direct oversight of contract compliance and multi-project delivery.

Port of Seattle - Terminal 5 Modernization Program | Port of Seattle | Seattle, WA | Capital Program Leader. As Program Manager for the \$450 million Terminal 5 Modernization Program, Emma led contract administration, risk mitigation, and consultant performance monitoring. She collaborated with finance and executive leadership to align capital planning with business goals, showcasing her ability to manage large-scale contracts and stakeholder expectations.

US Army Corps of Engineers - Korea Military Transformation Program | USACE | South Korea | Planning Department Head and Project Manager. Managed a \$12 billion design and construction program for U.S.-Korean military transformation. Emma led a multidisciplinary team, overseeing contract execution, planning, and delivery across multiple installations. This project highlights her experience with high-value, complex contract environments and international coordination.





Bob Sherwood, PEQuality Control Manager

Contact

- (4) 949-648-5262
- (S) robert.sherwood@ghd.com
- Years' Experience
- Professional Licenses
 Civil Engineer, CA #64351
- Qualifications/Accreditations
- BS, Civil Engineering
 Coastal Engineering Certificate
 Program
- (C) Key Technical Skills
 - Inspection of Marine Structures
 - Master Planning and Design
 - Recreational Boating Facilities
 - Shore Protection and Restoration
 - Grant Funding Assistance
- Memberships
 - American Society of Civil Engineers, Los Angeles, Harbors & Waterways Technical Group, Past Chairperson
 - University of California Irvine, Chapter of Chi Epsilon, Engineering Honors Society Past President

Bob is a civil and waterfront engineer with over 25 years of experience in marine infrastructure, inspection, and construction management. He specializes in quality control, structural assessments, and shoreline protection, with a strong track record supporting public agencies on complex waterfront and environmental projects across North America.

Relevant Experience

Raley's Dock Replacement | City of West Sacramento | Sacramento, CA | Waterfront Engineer (QC Check). Reviewed project submittals and RFIs during construction and led overall quality control for a dock facility on the Sacramento River, ensuring ADA-compliant access and verifying structural elements including berthing docks, guide piles, and a debris deflection barrier.

Carlsbad Desalination Plant Intake Structure | Claude "Bud" Lewis Carlsbad Desalination Plant | Carlsbad, CA | Waterfront Engineer (Owner's Representative). Assisted with overall quality control for the Carlsbad Desalination Plant intake structure by reviewing project design, submittals, and RFIs during construction. Ensured compliance with marine construction standards for rotating screens, cleaning systems, and water circulation infrastructure.

Esquimalt Graving Dock Water Lot Remediation - Phase 2 | Public Works and General Services Canada | Victoria BC, Canada | Quality Assurance/Quality Control (QA/QC) Lead Inspector. Involved in the development of drawings and specifications, and ultimately served as Lead Inspector for the demolition of an existing wharf and dredging of contaminated sediment, representing design firm of record for Public Works and General Services Canada.





Mike Porter Inspector - Public Works Infrastructure

Contact

- mike.porter@ghd.com
- Years' Experience
- Qualifications/Accreditations
 FAA Aircraft Repair certificate #370510Drilling/Core Sampling & Geotechnical Sampling
- (C) Key Technical Skills
 - Drilling/Core Sampling & Geotechnical Sampling
 - Nuclear Density Gauge Testing
 - Material Sampling and Testing
 - Plant Batch Inspections
 - Contractor Progress
 Inspections and Verifications

Mike is a veteran QA/QC inspector with 30 years of experience in public works infrastructure. He specializes in seismic retrofits, bridge and highway inspections, and materials testing. With a strong background in Caltrans projects, Mike ensures construction quality and safety through rigorous inspection, sampling, and verification processes across California.

Relevant Experience

Coronado Bridge Foundation Retrofit | Caltrans | San Diego, CA | QA/QC Manager. The Coronado Bridge Foundation Retrofit project aimed to enhance the seismic resilience of the iconic Coronado Bay Bridge in San Diego. The retrofit involved replacing existing rigid bearings with elastomeric isolation bearings at 13 support piers to improve seismic behavior. Additionally, dampers were installed between piers and the superstructure to provide a flexible, energy-dissipating connection. These measures were designed to ensure the bridge's structural integrity and safety during earthquakes.

Loma Prieta Earthquake I-880 Freeway Repair/Replacement | Caltrans | Oakland, CA | QA/QC Technician. The Loma Prieta Earthquake in 1989 caused significant damage to the I-880 Cypress Street Viaduct in Oakland, leading to its collapse. The project included fabricating and installing 13 prefabricated bridge sections, ensuring a robust and resilient replacement.

Hwy 14 / I-5 Interchange Earthquake Emergency Bridge/
Overpass Repairs | Caltrans | Santa Clarita Valley, CA | QA/
QC Technician. The Hwy 14 / I-5 Interchange Earthquake
Emergency Bridge/Overpass Repairs project was initiated in
response to the severe damage caused by the Northridge
Earthquake in 1994. This project focused on repairing and
retrofitting the interchange to restore its structural integrity and
ensure safety for motorists. Key activities included replacing
damaged bridge sections, reinforcing support structures, and
implementing seismic retrofits to enhance earthquake resilience.
The project was completed efficiently, minimizing disruption to
the vital transportation network.



Tony AndrewsSenior Construction Manager



Contact

- (1) 213.627.7371
- (x) tony.andrews@vanir.com
- Years' Experience
- Qualifications/AccreditationsOSHA 10-Hr
 - State of California Vocational School, Welding Certified
- Memberships
 - Construction Management Association of America (CMAA)
 - Design-Build Institute of America (DBIA)
 - US Green Building Council (USGBC)
 - San Diego County Advisory Committee for the State of California Regional Occupational Program
 - Riverside County Advisory Committee for the State of California Regional Occupational Program

Tony has over 35 years of comprehensive construction management and superintendent experience. He has a unique combination of the skills necessary to successful manage challenging construction projects honed through years of working with contractors, trades, equipment suppliers and owners. He has facilitated planning, design, procurement and construction to control schedule, cost, scope and quality effectively. He is highly motivated to build effective and productive relationships with owners, subcontractors, and team members to succeed on every project. Having spent many years in the trades, he is incredibly skilled at identifying and resolving issues collaboratively with contractors, subcontractors and stakeholders.

Relevant Experience

El Centro New Courthouse | Judicial Council of California | El Centro, CA | Project Manager/Construction Manager.

As Project Manager/Construction Manager for a \$74 million, 47,234 GSF CMAR courthouse project, Tony oversaw all phases of construction, including site development, building systems, and LEED Silver compliance. He managed off-site utilities and ADA access, reviewed schedules, costs, RFIs, pay applications, and change orders. Tony coordinated with engineers, architects, contractors, and suppliers, advised the client on project developments, and ensured completion of commissioning, punch list items, claims resolution, as-builts, and warranties.

Harrison Elementary School | Riverside Unified School District | Riverside, CA | On-site Senior Project and

Construction Manager. As Project Manager for a \$12 million multi-prime elementary school modernization and new construction project, Tony managed utility coordination, bringing all wet and dry utilities to the site, and supported storm drainage design and installation. He provided owner-advisory services, helping the client manage multiple trade contracts, ensuring coordination, quality, and timely delivery across all major work elements.





Stacey Mauer, PMP, CPPM Controls Lead

Contact

- (808-470-4505
- stacey.mauer@ghd.com
- Years' Experience
- Professional Licenses
 - Project Management
 Professional #3855325,
 Project Management Institute
 - Certified Practicing Project Manager, Australian Institute of Project Management
- Qualifications/Accreditations
 - Diploma, Project Management, Scope Training Pty Ltd, Subiaco, WA
 - Certified Prince2 Foundation, Axelos, PeopleCert
- (C) Key Technical Skills
 - Program Cost Control
 - Earned Value Analysis and Estimate at Completion (EAC) & Forecast Reporting
 - Project Management & Program Management
 - Contract Management & Administration
 - Subcontractor Management
 - Risk Management & Mitigation

Stacey is a certified project controls professional with 16 years of experience managing cost, schedule, and performance for large-scale infrastructure and transportation projects. She specializes in earned value management, forecasting, and cost reporting, delivering consistent results across rail, transit, and defense sectors in both U.S. and Australian markets.

Relevant Experience

Red Line Extension and Maintenance Yard and Facility Projects | Chicago Transit Authority | Chicago, IL | Project Controls Manager. TYLin provided the final Environmental Impact Statement, Record of Decision, and preliminary engineering services for the Red Line Extension in Chicago, Illinois.

- Managed the Project Cost Controls function for the two projects, tracking all incurred costs, EAC, invoicing management.
- Established project cost management procedures to drive best practice and consistency across the projects and the Central Region.
- Collaborated with project leaders and senior management for the collection, analysis and reporting of information regarding project planning, scheduling and monitoring of cost and schedule performance during project delivery.

Australian Rail Track Corporation, Inland Rail - Illabo to Stockinbingal (I2S) and Narromine to North Star (N2NS) | WSP/MM Joint Venture (JV) | Brisbane QLD/NSW | Project Controls Lead. The I2S project involves the construction of 37km of new rail corridor and 2km of upgraded track. The N2NS section will upgrade 189kmm of existing rail corridor and construct 2km of new track. The project scope involved the Environmental Impact Statement, Reference, and Detailed Design.

- Managed \$60 million program by monitoring expenditure, calculating forecasts, performing earned value, cost reporting.
- Collaborated with project leaders, engineering teams, senior management for the collection, analysis and reporting of information regarding project planning, scheduling and monitoring of cost and schedule performance during the delivery of various projects





Amir Ghavibazoo, PhD Materials Testing

Contact

- **(**) 562.900.5258
- aghavibazoo@twininginc.com
- Years' Experience
- Qualifications/Accreditations
 - PhD, Civil and Environmental Engineering
 - MS, Railways Engineering
 - BS, Industrial Engineering

(C) Key Technical Skills

- Analysis of interaction between rubber and asphalt binder
- Research on effect of rubber modification of different aspect of rubberized asphalt performance
- Specialized in asphalt materials, asphalt materials testing.
- Specialized in project level pavement evaluation
- Develop pavement management system (MicroPaver)
- Perform pavement evaluations
- Develop volumetric mix designs for rubberized and unmodified asphalt binder following Superpave specifications
- Develop volumetric mix designs incorporating Reclaimed Asphalt Pavement (RAP) material.
- Develop Cold Recycling Mix
 Design incorporating 100% Rap
- Develop Soil Stabilization Mix Designs (Cement and Lime)

Dr. Ghavibazoo, Ph.D. in Civil Engineering, is a recognized expert in pavement materials, specializing in pavement design, evaluation technologies, asphalt mix design, material characterization, and preservation strategies. With advanced degrees in Civil and Environmental Engineering, Railways Engineering, and Industrial Engineering, he offers a multidisciplinary approach to delivering cost-effective, high-quality pavement solutions. Since joining Twining in 2014, he has applied both empirical AASHTO and Caltrans Mechanistic-Empirical methods, along with advanced pavement management systems, to optimize project efficiency. He also serves as an adjunct professor at California State University, Long Beach, teaching graduate-level Pavement Design.

Relevant Experience

Edinger Ave Bridge Widening Over Santa Ana River | Orange County Public Works | Orange County, CA | Pavement

Engineer. Amir served as Project Manager for the Edinger Avenue Bridge Widening project, overseeing concrete and pavement testing and inspection to ensure compliance with project specifications and quality standards under the Orange County Public Works on-call contract.

Edinger Ave Widening | City of Huntington Beach | Huntington Beach, CA | Pavement Engineer/Project Manager.

Amir served as Senior Pavement Engineer/Project Manager for the Edinger Avenue Widening project, managing the quality assurance program, overseeing asphalt inspection and testing, and ensuring compliance with Caltrans specifications.

Nichols Lane Rehabilitation Project | City of Huntington Beach | Huntington Beach, CA | Pavement Engineer/Project

Manager. Amir served as Project Manager for the Nichols Lane rehabilitation project, overseeing material sampling and testing, providing technical guidance to the City, and developing cement-treated soil mix designs to ensure quality exceeded expectations.

Leffingwell Road Rehabilitation | City of La Mirada | La Mirada, CA | Pavement Engineer. The project consisted of the grinding and overlaying of the existing pavement with updating the curb and gutter. Twining provided quality assurance material testing and inspection of asphalt and soils on this rehabilitation. Amir served as pavement engineer and project manager.



Gerard Pena Construction Inspector



Contact

- (1) 916.575.8888
- gerard.pena@vanir.com

Years' Experience

6

Qualifications/Accreditations

- OSHA 30-Hour
- International Code Council (ICC), Reinforced Concrete Special Inspector – 47
- ICC, Prestressed Concrete
 Special Inspector 92
- ICC, Grouting and Masonry Certifications
- ICC, Structural Steel Welding Special Inspector
- ICC, Commercial Building Inspector
- ICC, Spray Applied
 Fireproofing Special Inspector
 86
- ICC, Master of Special Inspections (MSI)
- American Concrete Institute (ACI), Concrete Field-Testing Technician Grade 1
- ACI Post-Installed Concrete Anchor
- Pacific Nuclear Technology Gauge Safety Operator, Guage Safety

(m) Memberships

- Construction Management Association of America (CMAA)
- Design-Build Institute of America (DBIA)
- US Green Building Council (USGBC)

Gerard is an experienced construction inspector with a strong background in QA/QC and quality control management across all phases of construction. Gerard is skilled in contributing to preconstruction meetings, reviewing safety standards, structural drawings and project specifications. He has experience in conducting comprehensive inspections of materials, structural components and workmanship, including concrete reinforcement, post-tensioning, welding, soils and asphalt paving. Gerard ensures compliance with project requirements through detailed documentation, daily reporting and continuous communication with site superintendents, while identifyiing and reporting non-conforming items with actionable recommendations.

Relevant Experience

SMForward Program SMF Terminal B Parking Garage and Pedestrian Walkway | Sacramento International Airport | Sacramento, CA | Building/Construction Inspector, Group

1. Gerard served as Construction Inspector for the SMForward parking garage at Sacramento International Airport. He conducted field inspections and quality control for structural, safety, and accessibility components, including the pedestrian bridge and vehicle counting system, ensuring compliance with project specifications on this \$1.3B capital improvement project.

San Francisco Department of Public Works | Geary Rapid East of Van Ness | San Francisco, CA | QC Inspector. This \$35M, 7,700-linear-foot infrastructure project involved roadway and curb ramp renovations, side sewer and culvert replacements, and watermain upgrades using ductile iron pipe. Gerard performed subgrade compaction testing, grading oversight, and inspections for concrete pavement, traffic signals, and underground utilities per SFDPW specifications.

California Department of Water Resources | Palermo Canal Improvements | Oroville, CA | QC Inspector. Gerard conducted quality control inspections for a \$100K, 1,200-linear-foot shotcrete lining project. He verified compliance with specifications, monitored shotcrete mix quality, and ensured proper application techniques were followed throughout the project to maintain structural integrity and meet performance standards.

EXHIBIT "B"

Payment Schedule (Hourly Payment)

A. Hourly Rate

CONSULTANT'S fees for such services shall be based upon the following hourly rate and cost schedule:

SEE ATTACHED EXHIBIT B

B. <u>Travel.</u> Charges for time during travel are not reimbursable

C. Billing

- 1. All billing shall be done <u>monthly</u> in fifteen (15) minute increments and matched to an appropriate breakdown of the time that was taken to perform that work and who performed it.
- 2. Each month's bill should include a total to date. That total should provide, at a glance, the total fees and costs incurred to date for the project.
- 3. A copy of memoranda, letters, reports, calculations and other documentation prepared by CONSULTANT may be required to be submitted to CITY to demonstrate progress toward completion of tasks. In the event CITY rejects or has comments on any such product, CITY shall identify specific requirements for satisfactory completion.
- 4. CONSULTANT shall submit to CITY an invoice for each monthly payment due. Such invoice shall:
 - A) Reference this Agreement;
 - B) Describe the services performed;
 - C) Show the total amount of the payment due;
 - D) Include a certification by a principal member of CONSULTANT's firm that the work has been performed in accordance with the provisions of this Agreement; and
 - E) For all payments include an estimate of the percentage of work completed.

Upon submission of any such invoice, if CITY is satisfied that CONSULTANT is making satisfactory progress toward completion of tasks in accordance with this Agreement, CITY shall approve the invoice, in which event payment shall be made within thirty (30) days of receipt of the invoice by CITY. Such approval shall not be unreasonably withheld. If CITY does not approve an invoice, CITY shall notify CONSULTANT in writing of the reasons for non-approval and the schedule of performance set forth in **Exhibit "A"** may at the option of CITY be suspended until the parties agree that past performance by CONSULTANT is in, or has been brought into compliance, or until this Agreement has expired or is terminated as provided herein.

5. Any billings for extra work or additional services authorized in advance and in writing by CITY shall be invoiced separately to CITY. Such invoice shall contain all of the information required above, and in addition shall list the hours expended and hourly rate charged for such time. Such invoices shall be approved by CITY if the work performed is in accordance with the extra work or additional services requested, and if CITY is satisfied that the statement of hours worked and costs incurred is accurate. Such approval shall not be unreasonably withheld. Any dispute between the parties concerning payment of such an invoice shall be treated as separate and apart from the ongoing performance of the remainder of this Agreement.



2025 Rate Schedule Notes

1. Basis of Charges

- Rates are for employees of GHD companies and subject to project and task specific proposals, agreements, and
- Field services are billed based on time required for staff to reach the project site from the GHD office providing the service required.

2. Direct Costs and Reimbursables

- Vehicle mileage, for staff who travel >50miles will be charged in accordance with government regulated standard rates.
- The 2025 mileage reimbursement rate for US employees increased to \$0.70 per mile based on the IRS published rate (up from \$0.67 per mile in 2024).
- Lodging, meals, travel for staff who travel >50miles will be charged at cost plus agreed markup unless a per diem rate is negotiated.

3. Administrative Project Costs

- An administration fee will apply to all invoices to cover in-house disbursements (Associated Project Costs) on a project. This will be charged at a rate of: Hourly rate of USD \$6.50

4. Specialty Software

- Specialty Construction Management software will be charged at cost.

5. Markups

- All other project related disbursements, expenses and subcontractor costs will be invoiced with a <u>markup of 10%.</u>

6. Annual Increase

- Fee schedule is subject to 4% increase annually on July 01 starting in 2026.

7. Prevailing Wage Rates

- The rates presented in this Fee Schedule are applicable for projects where there has been a General Prevailing Wage Determination made by the Director of Industrial Relations pursuant to California Labor Code Part 7, Chapter 1, Article 2, Sections 1770, 1773, and 1773.1 for commercial building, highway, heavy construction and dredging projects.

8. Non-Exempt Staff

- Regular time charges are applicable to services initiated Monday through Friday (excluding holidays), between 6:00am and 4:00 pm.
- Premium charges are applicable for services greater than 8 hours, night times, on holidays, and weekends.

Rate Schedule Notes

	SECTION 1									
			مرسيعي والمراجع		CF	IARGI	-OUT	RATES		
	BST Code			DESCRIPTION	HR	DAY	WEEK	MONTH	NOTES	
US	CDN	BST8	BST10							
ΑĬ	R TE	STING								
U	С	0007	N2019	Air sampling, pump, SKC, Air Chek 52, Air Chek 2000 & Bios		35	120	310		
U	С		N2238	GilAir Air Sampling Pumps		35	125	315		
U	С	0009	N2020	Air sampling, Vac-U-Chamber (lung sampler)		50	150	450		
U	С	0074	N2022	Anemometer, Thermal Dwyer		30	90	360		
U	С	0075	N2024	Anemometer, TSI Velocicale		60	180	540		
υ	С	0025	N2047	Calibrator, air sampling, Buck (mini), Bios & SKC		45	135	360		
U	U	0026	N2046	Calibration Kit for Hi-Vol, PUF, PM- 10 Samplers		30	90	225		
U	C	0003	N2113	Hand pump, air sampling, All Types		20	60	155	Cost of tubes extra.	
U	С	0284	N2115	High Volume Air Sampling Pump Kit (Asbestos Removal)		40	135	405		
U	С	0005	N2035	Hi Vol Air Samplers, PUF or TSP		150	450	1350		
U	С	0285		Hi Vol Air Samplers, PM-10		150	450	1350		
U	С	0004		Impingers, air sampling		20	60	1 <i>7</i> 5		
U	С	0280	N2024	Indoor Air Quality Meter, TSI Q- Track		80	180	540		
U	С	0044		Magnehelic Gauge, digital pressure		20	60	150		
U	С	0088	N2145	Manometer, Digital Dwyer		45	105	315		
U	С	0090		Manometer, Micro, Alnor		35	80	225		
U	С	0072		Mass Flowmeter, Aalborg		60	220	600		
U	С	0226	N2402	Pitot tubes, air Sampling		15	60	180		
U	С		N2424	Shroud, Helium		25	<i>7</i> 5	150		
<u>KI</u>	<u>TS</u>	СНЕМ	<u>ICAL</u>							
U	С	0372		Ammonia, Hach, Kit		25	100	280		
U	С	0051		Chloride Hach Kit/Colorimeter		65	180	300		
U	С	0052		Chlorine Test Kit, high & low range		40	140	320		
Ū	С	0408		Copper (Total), Hach Kit		25	100	280		

_				SECTI	ON	1			
					CF	HARG	E-OUT	RATES	
	BST Code			DESCRIPTION		DAY	WEEK	MONTH	NOTES
U	С	0410		Detergents, Hach Kit		25	100	280	
U	С	0053		Dissolved Oxygen Kit		50	150	450	
U	С	0054	N2130	Iron (FE) Kit		25	100	280	
U	С	0055	N2112	H2S Hach Kit		30	120	360	
U	С	0057	N2144	Manganese Hach Kit		25	100	280	
U	С	0063		Nitrate Test Kit		25	100	280	
U	С	0058		PCP (Millipore) Kit		25	100	280	
U	С	0409		Phenol (Total), Hach Kit		25	100	280	
U	С	0059		SO4 Kit		25	100	280	
U	С	0062		Sulfate Test kit		25	100	280	
<u>KT</u>	<u>ΓS -</u>	MISCE	LLANEO	<u>us</u>					
U	С	0279	N2297	Asbestos Kit		30	120	360	
U	С	0240		Envirogard Kit		65	280	660	
U	С	0189		Fire Hydrant Kit		55	220	380	
U	С	0065		Groundwater Filtration Kit		40	150	360	
U	С	0241	N2117	Hydrocarbons, Petroflag Kit		45	180	540	
U	С	0056		Lockout / Tagout Kit		25	85	180	
U	С	0371		Mould Kit		30	120	240	
U	С	03 7 3		Spring Water Survey Kit	30	200			
U	С	0060		Visible Emissions Field Test Kit		40	170	420	
U	С	0066		Water Level Monitoring Kit		50	180	480	
<u>GE</u>	OPI	<u> HYSICS</u>							
U	С	0267	N2432	Metal Detector, buried, Geonics EM61		275	1615	2800	
U	С	0414	N2427	Resistivity Meter - Syscal R1 Plus		800	3500	10500	
U	С	0104		Radiation Detector		65	180	480	
U	С	0273	N2431	Soil Conductivity Meter, Geonics EM31		325	975	3300	
	С	0502	N2234	System,250mHz GPR Noggin Plus		400	1200	3600	
	С	0503	N2393	System, 1000mHz GPR Conquest		350	1050	3150	
U	С	0275	N2432	Soil Conductivity Meter, Geonics EM38		275	1615	2800	

SECTION 1 CHARGE-OUT RATES DESCRIPTION BST Code MONTH NOTES WEEK DAY HR Well Logging Acoustic Televiewer -U C 0398 500 2400 9500 Well Logging Caliper Tool - 2PCA -C 0396 60 300 1200 U C 0393 Well Logging Console - MSI Matrix 175 875 3500 Well Logging Gamma Tool - 2PGA -C 0395 Ű 90 450 1800 1000 Well Logging Resistivity Tool - 2PEA C 0397 U 90 450 1800 C U 0394 Well Logging Winch 125 625 2500 <u>MISCELLANEOUS</u> Air Compressor, gas powered or C 0002 N2017 70 280 560 electric C 0010 N2021 Air tank, portable 30 120 360 U C 0019 Bailer, All Types & Sizes 20 80 180 Balance, electronic (Ohaus, AccuLab, C 0021 N2036 U 40 120 360 Polder) C 0022 35 105 315 N2145 Barometer C U 0023 N2037 Battery, all types of 12 volt 25 100 300 Ū C 0231 N2041 Blower, Regenerative, All Sizes 75 270 810 C 0028 50 U N2440 Camcorder/ GO Pro 150 300 C 0030 U N2004 Camera, digital 25 100 300 C 0452 N2448 FLIR Thermal Imaging Camera 40 160 480 U C 0121 Cathodic Protection Monitor 25 100 300 Colorimeter, portable, Ü C 0031 N2059 45 180 540 multiparameter, Soil Conductivity C 0233 N2060 30 120 Computer, Laptop or Desktop,Ipad 360 U C 25 0298 N2067 Data Transfer Unit, Palm Pilot 100 360 C 0474 U Drum Vac - 55 Gallon C 0536 U N2074 Drill, Core 105 400 800 C 0571 N2085 Enclosure, TSI CAMP 50 150 350 C 0577 N2159 Gauge, Nuclear density 105 315 850 U C 0047 70 250 N2101 Generator, All Types & Sizes 550

SECTION 1 CHARGE-OUT RATES DESCRIPTION MONTH NOTES **BST Code** WEEK DAYHR C 0454 N2189 Hammer, Electric 60 240 650 C 25 100 U 0049 N2298 250 Heater, electric portable Ladder, Industrial Rolling, Step, Mini-C 120 0068 30 240 Scaffold U C 0411 Landfill Gas Blower 110 400 800 Landfill Gas Extraction System c/w C 0311 135 540 1620 U Blower, Flame Arrestor & Flare Locater, Underground Cable & Pipe C 100 400 1000 U 0525 (RD8000 PDL). Radiodetection C 0646 N2300 Loop Calibrator 30 90 225 U 25 C 0071 100 300 U Magnetometer C 0554 Manhole cover lift system, Magnetic U C 0463 Mercury Recovery Vacuum 225 700 2100 Metal detector or Marker Locator, 3M C 0073 N2147 50 150 450 Dynatel Meter, Soil EC (FieldScout) 35 U C 0572 80 160 U C 0245 Micrometer, Digital 10 40 120 Moisture Meter, Protimeter C 0367 N2293 35 100 Ū 240 Surveymaster SM, Delmhorst C 3800 U 0421 Particulate Monitor, BAM 1020 U С 0130 N3527 Phone, mobile, digital cell 25 100 300 A) plus calls 25 100 300 U C 0132 N2177 Post Pounder C 0133 Pressure Washer, hot/cold 30 120 360 U U C 0180 20 60 180 N2912 Pocket Soil Pentrometer С 25 75 200 U 0272 Projectors C 50 150 450 0250 Psychrometer, Digital Sling U N2911 C Ratchet Hoists 10 40 120 0291 U C 0155 20 80 160 N2184 Regulator, Cylinder U C 0368 N2189 Rotary Hammer Drill 50 200 540 C 0551 60 180 400 Sampler, Concrete core Slugs, PVC (various diameters & C 0256 N2205 25 100 200 U lengths) 10 90 C 0642 N2217 Space Heaters 30 225 0645 N2202 Shell Saw Horses & Laser Pointer 25 75

SECTION 1 CHARGE-OUT RATES BST Code DESCRIPTION MONTH NOTES WEEK DAYHR 0547 N2201 С Shell Traffic Cones 150 450 50 C 0469 N2209 15 Snowshoes 55 135 С 0069 N2212 Soil Vapour Well Purging Pump 85 340 1280 C 0012 100 300 Spectrophotometer, Hach DR/2000 900 C 0179 N2220 Stopwatch 15 45 135 U C 0259 N2240 35 135 300 Tents, Work U C 0569 Tester, Shear Vane 5 20 50 C 0640 15 Infrared Thermometer 45 135 Thickness Guage, Cygnus Ultrasonic, C U 0412 N2400 65 225 480 Barcol Gauge С 0486 N2104 10 GHD Field Toolboxes 30 90 C 0260 Torch, Tiger c/w Propane Tank 15 180 0534 UAV, DJI-S800 U C 500 U C 0264 N2265 20 Vacuum, Wet/Dry, 6 Gallon 80 240 U C 0287 320 640 1920 Vibration Measurement System C 0265 N2271 25 80 Waders, hip or chest 240 U C 0573 N2272 Wagon, Field 15 45 90 C 0405 N2146 Walking Measuring Wheel 10 30 90 U C 0196 N2917 Walkie talkie, pair 45 135 405 C 0537 N2288 Water Tank, Poly, Large 500+ gal. 70 220 540 C 0015 U N2287 Water Tank, Poly, small 250-500 gal 40 140 290 C 0576 Ū N2289 Water Tank, Poly, small 100-225 gal 35 140 320 C U 0197 Weather station 80 280 700 U C 0266 25 Weedeater 100 300 MONITORS - GAS / AIR 4 Gas Monitor, LEL/O2/CO/H2S C 0126 N2009 75 225 675 (All Types) 5 Gas Monitor, C U 0128 N2013 95 380 1100 PID,LEL/O2/CO/H2S, (All Types) U C 0355 Benzene Monitor 85 350 855 C 0124 N2078 U Dust/Particulate Monitor, all types 90 350 900 C 225 0084 N2082 60 550 Eagle Gas Monitor (Hydrocarbon)

SECTION 1 CHARGE-OUT RATES DESCRIPTION **BST Code** MONTH NOTES WEEK DAY HRС 0470 250 750 Eagle Gas Monitor (4 gas) 80 Flame Ionization Detector Monitor C U 0080 N2098 105 400 1000 Gas Chromatograph, Multi-U C 360D 400 1200 3600 Compound Air Monitoring C N2157 1 0384 Nova Flue Gas Analyzer 80 240 750 C 0579 N2162 Odour Sampler 1 150 535 1600 Gas Chromatograph, Single C 100 U 361D Compound Analysis Monitor C 0548 N2137 Landtec GEM 5000 Gas Monitor 150 450 1350 Landfill Gas Monitor (Landtec GA-90, C 0085 N2136 125 375 855 GEM 500, GEM 2000) С 0553 Analyzer, Lumex 915+ Mercury 650 1900 4700 C 0356 Mercury, Jerome Monitor 150 600 1800 C 0526 U N2153 Monitor, Single Gas, HCN 20 60 120 C 0528 N2153 Monitor, Single Gas, H2S (Personal) 25 75 180 U C 0450 Monitor, Single Gas, H2S 95 285 855 C 0087 MSA Gas Monitor 60 240 720 C 0314 80 960 U N2386 Nasal Ranger Monitor 320 0127 1000 C 95 380 Ozone Monitor C 0529 Monitor UltraRae for Benzene 125 380 1140 C U 0129 N2171 PID MiniRae, Eagle 2 85 300 900 C N2399 265 700 SEM 5000 Methane detector 2000 **PUMPS** C 0145 20 80 U Air Vacuum Pump, Electric 240 C 65 195 U 0358 N2040 Bladder Pump, All Types 480 C 0033 N2065 Control box for bladder pumps 75 250 750 U C U 0139 Filtration Pump, 18 PSI, Cole-Palmer 15 60 180 U C 0042 N2130 Flow valve set, Dole 25 100 280 C 0149 N2166 Peristaltic Water Pump 135 350

SECTION 1 CHARGE-OUT RATES BST Code DESCRIPTION MONTH NOTES WEEK DAYHR Pump control unit, pressure control C 0138 U 35 140 420 unit, Solinst Water Pump, 2" submersible c/w C U 0140 N2282 controller (Grundfos, Keck, Well 200 600 1800 Wizard or Monsoon stainless steel) Water Pump, 2" submersible, 12 volt, U C 0471 N2283 250 65 525 c/w controller (Monsoon, Typhoon) Water Pump, small miscellaneous C N2284 U 0143 45 140 320 types (sump, 2" electric, hand, whale) Water Pump, submersible, 3" electric C 0150 N2285 70 280 660 c/w 100 ft.wire Water Pump, trash, diphragm & C 0144 N2286 50 200 480 centrifugal Waterra Jerker, automatic water C 0147 N2291 U 105 315 650 pump **SAFETY** C 0120 Blood Pressure Monitor (heat stress) 50 150 450 Ū $\overline{\mathsf{c}}$ 0037 N2088 Eyewash, Portable, 10-15 Gallon 35 140 275 U C 0039 Fan, evacuation & access 50 125 375 Rescue & descent gear, winch and C 0157 U N2186 100 350 725 tripod U C 0158 N2187 Rescue Harness, c/w Lanyards 30 100 250 U C 0159 Respirator, Cascade fill system 45 180 540 A) +air Respirator, Drager supplied air setups C 0359 U 65 260 780 c/w mask & 5 minute escape bottle. C 0252 Respirator Fit Tester, TSI Portacount 125 400 1000 Ū $\overline{\mathsf{c}}$ 0160 N2188 Respirator, SCBA or Supplied Air *7*5 280 780 A) +air C 15 0161 Respirator, SCBA quick fill hose 60 180 **SAMPLING** Geoprobe Sampler, Hand Operated C 0168 210 630 1890 A) Plus Liners c/w Hammer Drill C U 0170 N2198 Sediment Sampler, All Types 35 140 300 C N2211 Guelph Permeameter 50 185 360 C 0173 N2211 Soil Sampler (All Types) 50 185 360

SECTION 1 CHARGE-OUT RATES BST Code DESCRIPTION MONTH NOTES WEEK HR C 0175 N2200 Sewer Swing Sampler 25 75 180 U C 0629 N2191 150 400 1050 Sampler, Refrigerated Portable Wastewater Sampler, U C 0166 N2273 100 300 900 composite/individual, ISCO SOUND MEASUREMENT Sound Level Meter, Larson-Davis С 0106 N2215 125 500 1500 (Type 1) U С 0353 25 100 200 Sound Level Meter, Sper Scientific N2439 Noise Dosimeters U 25 100 300 Sound Level Meter, Type 2 & Noise С 0105 U 105 280 700 Dosimeters, Quest <u>SURVEY</u> Survey equipment, complete, (level, U C 0180 N2223 180 50 375 rod, tripod) C N2111 U 0643 85 360 900 GPS, Survey Grade/Centimeter С U N2449 55 180 425 Garmin InReach Mini Pro C N2454 300 900 2700 MatterPro 3 Camera C N2457 250 740 1750 Trimble TDC650 GPS Survey equipment, Survey Grade -C 0182 N2226 500 1620 4410 \$300 per 0.5 day **GPS** Survey equipment, Survey Grade -C 0183 N2227 175 700 1900 \$100 per 0.5 day Mapping Survey equipment, GPS, Handheld C 0294 N2110 25 75 160 Unit - Garmin 12 GPS Survey equipment, Magellan GPS C 0420 N2109 50 200 510 Mobile Mapper CE C 0581 N2015 15 55 220 5M & 7M Levelling Rods 660 C 0585 N2455 Laser Range Finder 40 120 360

SECTION 1 CHARGE-OUT RATES DESCRIPTION **BST Code** MONTH NOTES WEEK DAY HR C 0185 N2222 2 Survey Laser Level 85 360 900 C 0185 N2222 220 55 660 Survey equipment transit U C 0187 N2228 Survey equipment, total station 35 275 1100 3150 Survey Equipment, Robotic Total U C 0293 N2225 375 1500 4500 Station - Leica TCRA1103 Plus **VEHICLES** ATV - All Types including 6 Wheel C 0013 N2033 1650 160 640 Polaris, 8 Wheel Argo & JD Gator U C 0024 N2044 100 350 Boat / Canoe 800 Boat, 14ft. Aluminum c/w 8 HP C 0417 N2043 275 1000 motor & Trailer C U 0276 Bobcat, Model 873 250 820 2720 Bobcat, Model 873, Brush Cat U C 0283 150 535 1600 Attachment Bobcat, Model 873, Sweeper C U 0277 150 535 1600 Attachment С 0292 Bucket Truck - Maintenance Work 70 550 С 0530 N2055 Cart, Club Car XRT 100 400 1000 C 0411 Lawn Mower, Riding 80 U C 0476 75 Mule, Kawasaki 200 800 C 0177 N2201 Snowmobile & caboose 105 360 1080 C 0191 N2247 85 U Trailer 300 725 C Ū 0392 Trailer, Emergency Spill Response 210 Trailer, SVE (Soil Vapour Extraction) C U 362M 1050 c/w associated equipment U C 0262 Tractor with Tiller or Scraper 105 420 1260 \$0.28 per Kilometer (Cdn) or \$0.30 C 0194 N6521 95 360 1070 U Van or pick-up truck per Mile (US) **WATER TESTING** Datalogger, Barometric Pressure 0472 N2068 C 35 125 275 U (Solinst)/ Levelloggers C 0350 Datalogger, pH-31, Telog 225 525

SECTION 1

					CE	IARGE	E-OUT	RATES	
	BST (Code		DESCRIPTION	HR	DAY	WEEK	MONTH	NOTES
U	С	0351	N2071	Datalogger, Water Level (Telog, Insitu, MiniTroll) Troll Comm Cable		75	225	525	
U	С	0079	N2073	Dissolved Oxygen Meter		70	180	360	
U	С	0586	N2241	Field Thermometer		15	45	135	
U	С	0209		Hydrocarbon Analyzer (Model 300 or Petroflag)		265			
U	С	0520	N2213	Leveloader, Solinst Optical Reader		15	45	115	
บ	С	0465	N2281	APP Interface/Data Grabber		30	90	225	
U	С	0473	N2068	Solinst Leveloggers		35	125	275	
U	С	0095	N2163	Oil/Water Interface Probe		45	160	400	
U	С	0244	N2238	Temperature, Thermocouple Meter		40	160	480	
Ü	С	0108	N2252	Turbidity Meter		50	150	405	
U	C	0077 0078	N2274 N2275	Water Checker Meter, 1 Parameter		30 30	90 100	250 250	i.e., - PH 0r Cond. Or Temp, etc.
Ū	C	0078	N2276	Water Checker Meter, 2 Parameter Water Checker Meter, 3 Parameter		30	100	250	i.e., - PH/Temp or PH/Cond., etc. i.e., - PH/Temp/Cond. or PH/Cond/DO, etc.
U	С	0379	N2277	Water Checker Meter, 4 Parameter		40	135	385	i.e., - PH/Temp/Cond/ORP or PH/Cond/DO/ORP, etc.
U	С	0380	N2278	Water Checker Meter, 5 Parameter		60	220	500	i.e., - PH/temp/cond/salinity/DO, etc.
υ	С	0391	N2279	Hand Held pH Meter, Soil phMeter		80	280	720	i.e., - PH/temp/cond/salinity/DO/ORP, etc.
U	С	0091	N2280	Horiba Flow Cell, Water Checker		100	300	900	
U	С	0111	N2281	Water Level Meter		30	90	225	
	С	0519	N2099	Flow Tracker		150	450	1350	
U	С	0116	N2290	Valeport/Global Waters Flow Meter		115	375	950	
	С	0576	N2084	Electrofisher (SWM/ECO)		100	400	1200	
	С	0549	N2914	FL Flow Meter (SWM/ECO)		115	345	1035	
	С	0577	N2915	Binoculars SWM		25	<i>7</i> 5	225	
	С	0480	N2096	Benthic/Siene Nets		20	60	180	
	С	0481	N2095	Surber/Kick/D-Nets		25	<i>7</i> 5	225	
	С	0527	N2916	EXO Sonde SWM/ECO		125	375	1125	
	С	0528	N2267	Van Dorn/Wildco Water Samplers		50	150	450	
	С	0476	N2191	Ice Augers SWM/ECO		60	240	720	

	SECTION 1									
						IARGI	E-OUT	RATES		
	BST Code DESCF		DESCRIPTION	HR	DAY	WEEK	MONTH	NOTES		
	С		N2433	SM4 Bat Detectors		50	300	1200		
	С	0582	N2083	ECO Backpacks (ECO)		40	120	360		
	С		N2434	Song Meter Micro		15	80	150		
U	С	0011		PCB or Chloride Analyzer		75	300	900	A) + supplies	
U	С	0290	N2196	Secchi Disc		35	125	325		

Notes:

A) Cost does not include expendable supplies to operate

VANIR CONSTRUCTION MANAGEMENT

City of Huntington Beach 2025/2026 Bill Rates all CA areas 7/1/25-6/30/26*

Classification / Title	Hourly Rate
Principal-In-Charge	\$273
Program Director	\$270
Program Manager	\$228
Senior Project Director	\$270
Project Director	\$262
Assistant Project Director	\$213
Senior Project Manager	\$242
Project Manager	\$216
Assistant Project Manager	\$171
Senior Construction Manager	\$242
Construction Manager	\$216
Assistant Construction Manager	\$171
Senior Project Engineer	\$180
Project Engineer	\$128
Assistant Project Engineer	\$114
Senior Project Controller	\$142
Project Controller	\$128
Planner	\$157
Senior Scheduler	\$235
Scheduler	\$207
Senior Estimator	\$248
Estimator	\$185
Constructability Reviewer	\$180
Sustainability/LEED Manager	\$179
Design Manager	\$191
BIM Manager	\$142
BIM Tech	\$114
Architect	\$171
Project Coordinator/Sr Admin	\$124
Senior Contract Administrator	\$185
Contract Administrator	\$171
Inspector Grp 1 (prevailing wage)**	\$240
Inspector Grp 2 (prevailing wage)**	\$235

^{*} Rates increase 4.0% each July 1st

^{**} Rate dependent upon DIR determination, County location, award date, excludes travel and substistance



Schedule Of Fees 2025-2028

NOTE: Rates will be adjusted annually each July 1st to reflect increased costs.

Personnel Rates: Per Hour Unless Otherwise Noted

Code	Engineering And Consulting Reseased		Rate
10026	Engineering And Consulting Personnel Senior Principal Advisor/Consultant	S	407.00
10020	Principal Engineer/Geologist	Š	292.00
10017	Metallurgical Engineer	s	407.00
70000	Registered Geotechnical Engineer	s	292.00
10010	Technical Advisor	s	270.00
10011	Material Scientist, Welding/NDT Consultant	s	286.00
70003	Registered Geologist/Certifled Engineering Geologist	s	286.00
10003	Senior Engineer/Geologist	s	259.00
10009	Registered Civil Engineer	Š	248.00
60003		s	275.00
10013	Project Engineer/Manager	S	242.00
30000	Quality Control Manager	\$	242.00
10005	Senior Staff Engineer/Geologist	\$	226.00
10007	Staff Engineer/Geologist	\$	215.00
10015	Quality Control Administrator	s	215.00
10019	Metallurgical Technician	\$	182.00
90001	CADD Operator/Draftsperson	\$	165.00
95103	Administrative Support	S	108.00
70107	Field Supervisor	S	204.00
91030	Safety Supervisor	s	204.00
20000	Laboratory Manager	s	187.00
98000	Laboratory Technician	s	160.00
90005	Expert Witness Testimony	S	660.00
91010	Qualified SWPPP Developer	\$	226.00
91000	Qualified SWPPP Practitioner	S	215.00
30001	Vibration Engineer	S	248.00
30001	Vibration Engineer	3	240.00
Task			
Code	Field Inspection Personnel		Rate
10101	Concrete/Reinforced Steel Inspector	\$	147.00
10103	Prestressed/Post Tensioned Inspector	\$	147.00
10105	Concrete ICC Inspector	\$	147.00
10109	Drilled-In-Anchor Inspector	\$	147.00
10111	Gunite/Shotcrete Inspector	\$	147.00
10113	Masonry Inspector	\$	147.00
10201	Structural Steel/Welding Inspector	\$	147.00
10203	AWS Certified Welding Inspector	s	147.00
10207	Fireproofing Inspector	\$	147.00
10501	Lead Inspector	\$	151.00
10115	Firestop Special Inspector - IFC Premier	\$	171.00
10117	Firestop Special Inspector - IQP	5	220.00
70109	L.A. Deputy Grading Inspector	S	160.00
75001	Asphalt Field and Plant Inspector/Technician	\$	147.00
70103	Pile Driving Inspector	\$	147.00
70101	Soils Technician	\$	147.00
10107	Concrete Quality Control (ACI/Caltrans Technician)	\$	147.00
10122	Wood Framing Inspector	S	147.00
60001	Roofing/Waterproofing Inspector	\$	160.00
10500	Public Works Inspector	\$	165.00
10515	Mechanical Inspector	\$	176.00
10519	Electrical Inspector	s	176.00
10521	Plumbing Inspector	\$	176.00
10523	Building Inspector	\$	176.00
30002	Vibration Monitoring Technician	s	171.00
50003	Field Engineering Technician	S	147.00
	A STATE OF THE PROPERTY OF THE		
Task			THE
Code	Shop Inspection Personnel		Rate
10301	Structural Steel Fabrication Inspector	\$	147.00
10309	Batch Plant Quality Control Technician/Inspector	\$	147.0
10325	Glue-Laminated Fabrication Inspector		Quotation
10328	Pre-Cast Concrete/Pipe Fabrication Inspector	\$	147.0
Task			
Code	Nondestructive Testing Personnel		Rate
10401	NDE Ultrasonic Testing Technician	S	154.0
10403	NDE Magnetic Particle Testing Technician	s	154.00
10405	NDE Dye Penetrant Testing Technician	s	154.00
10305	Combination NDE Technician/Welding Inspector	s	154.00
10409	Radiographic Testing (Crew Of 2)	s	418.0
10020		\$	270.0
Task	Fortune tillere en en en		
95318	Equipment Usage (Daily Unless Otherwise Noted) Skidmore	S	53.00
95318	Torque Wrench, Small	S	22.0
95312	Torque Wrench, Large	5	33.00
00012	rorque virencii, Laige	3	33,0

95315 95321 95322 95323 95324 95343	Continued		Rate
95321 95322 95323 95324		S	50.00
95322 95323 95324	Torque Multiplier Air Meter	\$	39.00
95323 95324	Unit Weight Bucket	\$	29.00
95324	Field Concrete Scale	s	39.00
	2" x 2" x 2" Mold	s	26.00
	Nuclear Gauge (Per Hour)	s	13.00
95319	Sand Cone Density Test Equipment	\$	63.00
95333	Pull Test Equipment	\$	77.00
95348	Concrete/Asphalt Coring Equipment	\$	748.00
95336	Floor Flatness (Dipstick)	\$	66.00
95330	Schmidt Hammer	\$	50.00
95341	Vapor Emission Test Kits	\$	61.00
95342	Relative Humidity Probe	\$	94.00
95339	UPV (Ultrasonic Pulse Velocity) Meter	\$	440.00
95351	Fireproofing Adhesion/Cohesion (Per Test)	\$	44.00
95300	A Scan Ultrasonic Equipment And Consumables	\$	105.00
95303	Magnetic Particle Equipment And Consumables	\$	55.00
95306	Liquid Penetrant Consumables	\$	50.00
95307	Phased Array Ultrasonic Equipment (Per Hour)	\$	110.00
95347	Ground Penetrating Radar	\$	418.00
95345	Impact Echo	\$	424.00
95362 95349	Ultrasonic Tomography	\$	550.00
95352	Inertial Profiler (Per Hour) Borescope	S	Quotation 330.00
95356	Infrared Camera	\$	110.00
95357	Project Dedicated Vehicle	\$	198.00
95364	Roller Compacted Concrete Vibrating Hammer/Tamping Plate	Š	88.00
95367	Half-Cell Potential Equipment Set	S	424.00
95368	Concrete Electrical Resistivity Meter	\$	198.00
95369	Field Hardness (Steel)	s	121.00
95370	Coating Thickness Gauge	\$	121,00
95373	Curing Box (Not Temperature Controlled, One-Time Fee/	S	825.00
	Per Box)		
95371	Temperature Control Curing Box (Per Month)	\$	550.00
95372	Temperature Matching Curing Box (Per Month)	S	627.00
Task			
Code	Specimen Pick-Up	-	Rate
20100	Soil/Aggregate Sample (Each)	\$	55.00
20102	Standard Sample: Concrete Cylinders (Each)	\$	35,00
20101	Standard Sample: Mortar/Grout Cubes And Cores,	\$	35.00
00400	Fireproofing, Rebar, And Epoxy Prisms (Each)		04.00
20103	Oversize Sample: Masonry Prisms And Shotcrete Panels (Each)	\$	94.00
20104	Oversize Sample: Flexural Beams (Each)	s	160.00
20107	Technician For Specimen Pick-Up Not Listed Above (Per Hour, 2-Hour Minimum)	3	160.00
20109	Technician For Specimen Pick-Up Before 5:00 a.m.	S	220.00
20105	Or After 5:00 p.m. Monday Thru Friday, Or All Day Saturday	۰	220.00
	(Per Hour, 2-Hour Minimum Plus Mileage)		
	(or real, 2) our immanifications		
Task			
Code	Jobsite Trailer, Mobile Or On-site Laboratory		Rate
95360	Portable Or Mobile Laboratory Unit		Quotation
95374	Jobsite Trailer, Conex, Or Equipment Storage Box		Quotation
Task			
Code	Concrete Tests (Field Made Specimens)		Rate
20201	6" x 12" Cylinder Compression Strength (ASTM C39)	S	50.00
20202	4" x 8" Cylinder Compression Strength (ASTM C39)	\$	44.00
20203	Density Of Structural Lightweight Concrete Equilibrium	\$	110.00
	Oven Dry Method (ASTM C567)		
20205	Core Compression Including Trimming (ASTM C42)	\$	99.00
20207	6" x 6" x 18" Flexural Beams Not Exceeding Referenced	\$	138.00
20209	Size (ASTM C78, C293 or CTM 523)	S	420.00
20209	Splitting Tensile Strength (ASTM C496)	5	138.00 358.00
	Modulus Of Elasticity Test (ASTM C469) Rapid Chloride Permeability Test; Cylinders Or Cores	S	627.00
	(ASTM C1202)	3	027.00
80003	Density, Absorption, And Voids In Hardened Concrete	S	627.00
80003	(ASTM C642)	•	027.00
			n was a name
80003 80006	Flexural Toughness (ASTM C1609, Formerly ASTM C1018)	5	990.00
80003	Flexural Toughness (ASTM C1609, Formerly ASTM C1018) Double Punch Strength Of Fiber Reinforced Concrete	\$	990.00 660.00
80003 80006 40005	Double Punch Strength Of Fiber Reinforced Concrete		
80003 80006 40005 40006		\$	660.00
80003 80006 40005 40006	Double Punch Strength Of Fiber Reinforced Concrete Coefficient Of Thermal Expansion Of Concrete	\$	660.00
80003 80006 40005 40006 40009	Double Punch Strength Of Fiber Reinforced Concrete Coefficient Of Thermal Expansion Of Concrete (CRD 39, AASHTO T336)	\$	660.00 715.00



Task Code (Concrete Specimen Preparation		Rate	Task Code	Qualification Of Cements		Ra
	Sawing Of Specimens (Each)	\$	55.00	80100	Chemical Analysis Of Portland Cement Per Standard	\$	825.
0157	Coring Of Specimens In Lab (Each)	\$	55.00		Requirements (ASTM C150)		
	Grinding Of Concrete Below 6000 psi Strength (Each)	S	99.00	80103	Physical Testing Of Portland Cement Per Standard	\$	825.
0160	Grinding Of Concrete 6000 psi Strength And Above (Each)	\$	121.00		Requirements (ASTM C150)		
				80194	Physical Testing Of Type K Cement, Mortar Expansion	\$	825
ask I	Laboratory Trial Batch: Concrete, Cement				(ASTM C806)		
	And Mortar		Rate	80195	Physical Testing And Chemical Analysis Of Portland Cement	\$	1,540
0216 (Compression Test 4" x 8" Cylinders Made And Tested In	\$	64.00		Per Standard Requirements (ASTM C150)		
ı	Laboratory (ASTM C192, C35)			80106	Partial Analysis Or Specific Physical Tests		Quota
0217 (Compression Test 6" x 12" Cylinders Made And Tested In	\$	75.00	80110	Sulfates Resistance Of Hydraulic Cement (ASTM C1012),	\$	3,300
1	Laboratory (ASTM C192, C35)				6 Months		
0219	5" x 6" x 18" Flexural Beams Made And Tested in Laboratory	\$	154.00	80111	Sulfates Resistance Of Hydraulic Cement (ASTM C1012),	\$	3,630
(ASTM C192, C78)				12 months		
0223	Splitting Tensile Strength Cylinders Made And Tested In	\$	154.00	80149	Type 1L Cement (ASTM C595; Excludes Special Properties)	\$	1,540
1	Laboratory (ASTM C192, C496)			80151	Clinker Microscopy, Per Sample	\$	935
	Modulus of Elasticity Test Cylinders Made And Tested In	\$	374.00				
	Laboratory (ASTM C192, C469)						
	Density Of Structural Lightweight Concrete Made In	\$	127.00	Task	Physical Testing Of Chemical Admixtures For		
	Laboratory, Equilibrium or Oven Dry Method (ASTM C567)			Code	Concrete		R
	Bulk Electrical Resistivity (ASTM C1876)	\$	193.00	80196	Qualification Of Admixture (ASTM C494)		Quota
0201 L	Laboratory Trial Batch (ASTM C192/Lab Procedure Performance)	\$	605.00				
	Concrete Mixture Design For Preconstruction Evaluation And	\$	352.00	Task			
	Backup Data Development			Code	Evaluation Of Pozzolans And Slag Cement		R
	Orying Shrinkage Up To 28 Days, Three 3" x 3" Or 4" x 4" Bars,	\$	572.00	80140	Chemical Analysis Of Fly Ash Per Standard Requirements	\$	825
	Five Readings Up To 28 Dry Days (ASTM C157)				(ASTM C618)		
0230	Additional Reading, Per Set Of Three Bars	\$	66,00	80143	Physical Testing Of Fly Ash Per Standard Requirements	\$	825
0231	Storage Over Ninety (90) Days, Per Set Of	5	55.00		(ASTM C618)		
	Three Bars, Per Month		THE PARTY OF	80146	Partial Analysis Or Specific Physical Tests		Quota
	Setting Time Up To 7 Hours (ASTM C403)	\$	220,00	80147	Chemical Analysis And Physical Testing Of Fly Ash Per	\$	1,540
	Bleeding (ASTM C232)	\$	198.00		Standard Requirements (ASTM C1618)		
	Concrete Restrained Expansion (ASTM C878)	\$	770.00	80250	Qualification Of Silica Fume Per Standard Requirements	\$	1,540
	Mix, Make and Test Mortar or Grout Specimens for Compressive	\$	660.00		(ASTM C1240)		
	Strength: Set of 6 (ASTM C878)			80252	Qualification Of Slag Cement Per Standard Requirements	\$	1,540
	Non-Shrink Grout: Height Change After Final Set (ASTM C1090)	S	660.00		(ASTM C989)		
	Non-Shrink Grout: Height Change At Early Age (ASTM C827)	\$	935.00	80254	Effectiveness Of Pozzolans & Slag Cement In Mitigating	\$	1,540
	Cracking Resistance, Set Of Three Rings, Laboratory Trial	5	6,820.00		Expansion Due To ASR (ASTM C441)		
	Batching, Test Until Cracking Or Up To 28 Days (ASTM 1581)						
	Evaluation Of Pre-Packaged Masonry Mortars (ASTM C270)	\$	1,430.00	Task			
	Creep (ASTM C512) (One Age Of Loading, 12 Months	\$	9,350.00	Code	Mass Concrete - Engineering And Testing Services		R
	Ouration Of Testing)			80256	Thermal Control Plan (Without Cooling Pipes) Per A Unique	\$	8,80
	Laboratory Development of Strength-Maturity Curve Without	\$	3,520.00		Type Of Placement Of Similar Group Of Placements, Each Plan		
	Establishing Datum Temperature (Up To 5 Testing Ages,	S	-	80258	Thermal Control Plan (With Cooling Pipes), Per A Unique	\$	10,450
	ASTM C1074)				Type Of Placement Of Similar Group Of Placements, Each Plan		
	Laboratory Development Of Strength-Maturity Curve With	\$	5,720.00	80260	Performance Based Maximum Temperature Difference	\$	3,850
	Establishing Datum Temperature (Up to 5 Testing Ages,				Laboratory & Analytical Studies, One Concrete Mixture Design		
	ASTM C1074)			accesses.			
				Task	Rock And Concrete Aggregates - Petrographic		-
ask ode E	Fundamental of Mission Water for Concepts		Rate	80262	Examination & Special USACE & CRD Tests Peak Type Description Per Sample (Reak Care Or Peak	s	935
	Evaluation of Mixing Water for Concrete Evaluation of Mixing Water For Concrete Per The Requirements	\$	1,100.00	00202	Rock Type Description, Per Sample (Rock Core Or Rock Chunk)	3	330
	Of ASTM C1602, Table 1 (Physical Properties Of Mortar), Per	*	1,100.00	80263	Rock Type Description + XRD Including Clay Analysis,		1,595
	Sample			60203	Per Sample	*	1,550
	Evaluation Of Mixing Water For Concrete Per The Requirements	s	1,320.00	80266	Natural Aggregates - Petrographic Examination (Gravel And	s	3,025
	Of Caltrans, Section 90, Per Sample	9	1,320.00	00200		3	3,025
	of Califalis, Section 30, Fel Sample				Natural Sand Consisting Of Single Rock Type ASTM C295)		
	Concepts Chemical Analysis Transport Deposition			80268	Each, One Sample	s	2 476
	Concrete - Chemical Analysis, Transport Properties,		Dele	00200	Crushed Aggregates - Petrographic Examination (Crushed	\$	2,475
	Service Life Modeling, Petrographic Examination		Rate		Rock And Manufactured Sand Consisting Of Single Rock Type		
	Acid-Soluble Chloride Analysis (ASTM C1152)	\$	138.00	00070	ASTM C295), Each, One Sample		0.400
	ncludes Sample Prep)		165.00	80270	Coarse Aggregate Certification For Deleterious Materials Per	\$	6,490
	Water-Soluble Chloride Analysis (ASTM C1218)	\$	165.00		Specifications Of USACE, Materials Coarser Than 0,75-Inch		
	Includes Sample Prep)		2 090 00	90070	Each, One Sample, 200 lb.		0.000
	Chloride Diffusion Coefficient Of Cementitious Mixtures By	\$	3,080.00	80272	Coarse Aggregate Certification For Deleterious Materials Per	\$	6,050
	Bulk Diffusion (ASTM C1556)	s	745.00		Specifications Of USACE, 0.75-Inch And Finer Material, Each,		
	Bulk Resistivity (ASTM C1876) And Formation Factor Chloride Binding Isotherm	5	715.00 935.00	80274	One Sample, 25 lb. Fine Aggregate Certification For Deleterious Materials Per		2,200
				002/4		\$	2,200
	Analytical And Experimental (ASTM C1556) Modeling Of Service	\$	8,800.00	80276	Specifications Of USACE, Each, One Sample	•	440
	Life Of Concrete Per Life-365 Model, Per Mixture Design Analytical And Experimental (NordTest) Modeling Of Service	\$	8,800.00	002/6	Aggregate, Scratch Hardness (CRD-C 130), Each, One Sample, 25 lb.	\$	440
	Life Of Concrete Per FIB Model Code 34, Per Mixture Design		0,000.00		E-0 10.		
	Non-Steady State Chloride Migration Coefficient, NordTest 492	\$	688.00	Task			
	Petrographic Examination Of Hardened Concrete, Level I	\$	1,925.00	0-4-	Soils And Aggregate Tests		P
	ASTM C856) (Excludes Thin Section), Per Sample	9	1,020.00	30503	Abrasion: LA Rattler (ASTM C131)	\$	220
	Petrographic Examination Of Hardened Concrete, Level II	s	2,475.00	30505	Abrasion: LA Rattler (ASTM C131)	5	231
	ASTM C856) Includes Thin Section, Per Sample	•	2,770.00	70301	Atterberg Limits/Plasticity Index (ASTM D4318, CTM 204)	S	176
	Petrographic Examination Of Hardened Concrete, Level III	s	3,850.00	70303	California Bearing Ratio Excluding Maximum Density	5	638
	ASTM C856/C1723) (Thin Section And SEM/EDX), Per Sample		5,000.00	70303	(ASTM D1883) Soil	9	030
		\$	1 375 00	70304			741
(W/CM Determination (NordTest Build 361) Examination Of Volumetric Proportions Of Hardened Concrete		1,375.00	70304	California Bearing Ratio Excluding Maximum Density	\$	715
222		\$	550.00	70244	(ASTM D1883) Cement-Treated Soil Cement-Treated Soil/Base Mix Design; Includes Three Trial		205
222 k 224 E				70344	Cement-Treated Soll/Base Mix Design: Includes Three Thail Cement Contents With Three Unconfined Compressive	s	3,85
222 k 224 E	ASTM C457), Per Sample		660.00				
222 k 224 E (228 /	ASTM C457), Per Sample Air Void Analysis Of Hardened Concrete (ASTM C457),	\$	660.00				
222 L 224 E (228 /	ASTM C457), Per Sample Air Void Analysis Of Hardened Concrete (ASTM C457), Per Sample	.053		WART -	Strength Specimens Per Cement Content	_	12011
(222 L) (224 E) (228 / (228 E)	ASTM C457), Per Sample Air Void Analysis Of Hardened Concrete (ASTM C457), Per Sample Electron Microscopy (ASTM C1723)	\$	825.00	70305	Strength Specimens Per Cement Content Chloride And Sulfate Content (CTM 417, CTM 422)	s	193
0222 k 0224 E 0228 / 0228 / 0232 E	ASTM C457), Per Sample Air Void Analysis Of Hardened Concrete (ASTM C457), Per Sample Electron Microscopy (ASTM C1723) Paste Carbonation Analysis, Per Sample	.053	825.00 275.00	30403	Strength Specimens Per Cement Content Chloride And Sulfate Content (CTM 417, CTM 422) Clay Lumps And Friable Particles (ASTM C142)	\$	220
0222 k 0224 E 0228 / 0232 E 0232 E 0234 F	ASTM C457), Per Sample Air Void Analysis Of Hardened Concrete (ASTM C457), Per Sample Electron Microscopy (ASTM C1723)	\$	825.00		Strength Specimens Per Cement Content Chloride And Sulfate Content (CTM 417, CTM 422)		



Code	Soils And Aggregate Tests, Continued		Rate	Task Code	Asphalt Concrete Tests, Continued		Rate
70393 70396	Collapse Potential/Index (ASTM D5333)	\$	248.00 116.00	75040	Emulsion Residue, Evaporation (ASTM D244)	\$	187.00 187.00
10390	Compressive Strength Of Molded Soil-Cement Cylinders (ASTM D1633)	\$	116,00	75024 75027	Extraction % Bitumen (ASTM D6307, CTM 382) Extraction % Bitumen And Gradation (ASTM D5444, D6307,	\$	253.00
70309	Consolidation Test Full Cycle (ASTM 2435, CTM 219)	s	215.00	/502/	CTM 202, 382)		255,00
70303	Consolidation Test Time Rate Per Load Increment	\$	50.00	75028	Extraction % Bitumen, Correction Factor (ASTM D6307,	\$	413.00
70011	(ASTM D2435, CTM 219)	•	00.00	70020	CTM 382)	*	110.00
70313	Corrosivity Series Sulfate, CI, pH, Resistivity (CTM 643,	\$	270.00	75030	Chemical Extraction % Bitumen And Sieve Analysis	S	435.00
, 00 10	417, and 422)	- 3	270.00	10000	(ASTM D2172 Method A or B, ASTM D5444)		100.00
70315	Crushed/Fractured Particles (ASTM D5821, CTM 205)	\$	193.00	75042	Lab Tested Maximum Density Hveem, 3 Briquettes	\$	253.00
70317	Direct Shear Test Remolded And/Or Residual (ASTM D3080)	S	270.00		(ASTM D1561, D1188, CTM 304, 308)		
70319	Direct Shear Test Undisturbed - Slow [CD] (ASTM D3080)	\$	248.00	75057	Hveem Stabilometer Test, Premixed, 3 Briquettes	\$	253.00
70321	Direct Shear Test Undisturbed - Fast [CU] (ASTM D3080)	\$	215.00		(ASTM D1560, D1561, CTM 304, 366)		
70378	Durability Index Per Method - A,B,C, or D (ASTM D3744,	S	231.00	75048	Lab Tested Maximum Density Marshall, 3 Briquettes	\$	248.00
	CTM 229)				(ASTM D6926, D2726)		
70325	Expansion Index (ASTM D4829, UBC 18-2)	\$	187.00	75049	Lab Tested Maximum Density Marshall 6" Specimen,	\$	253.00
75004	Fine Aggregate Angularity (ASTM C1252, CTM 234,	\$	209.00		3 Briquettes (ASTM D5581, D2726)		
	AASHTO T304)			75050	Lab Tested Maximum Density Superpave Gyratory Compacted	\$	94.00
30507	Flat And Elongated Particle (ASTM D4791)	\$	264.00	1888900	Briquette, SSD, 1 Briquette (ASTM D6925, D2726)	92	100.00
30508	Flat Or Elongated Particle (ASTM D4791)	\$	231.00	75052	Lab Tested Maximum Density Superpave Gyratory Compacted	\$	105.00
70331	Maximum Density Methods A/B/C (ASTM D1557,	s	209.00	*****	Briquette, Paraffin, 1 Briquette (ASTM D1188, D6925)		407.00
70000	D698, CTM 216)		70.00	75051	Maximum Theoretical Specific Gravity [RICE] (ASTM D2041,	\$	187.00
70333 70335	Maximum Density Check Point (ASTM D1557, D698)	5	72.00 215.00	75066	CTM 309) Marshall Stability And Flavy Cared Semala Foot	\$	94.00
70335	Maximum Density AASHTO C [Modified] (AASHTO T-180)	5	380,00	73000	Marshall Stability And Flow, Cored Sample, Each ASTM D6927)	•	94.00
70336	Maximum Index Density Vibratory Table (ASTM D4253) Moisture Content (ASTM D2216, CTM 226)	S	28.00	75069	Marshall Stability And Flow, Premixed, 3 Briquettes	s	270.00
70339		S	33.00	75005			270.00
70339	Moisture and Density Ring Sample (ASTM D2937) Moisture and Density Shelby Tube Sample (ASTM D2937)	5	44.00	75106	(ASTM D6926, D6927) Marshall Stability And Flow, Gyratory Compacted Specimen	s	270.00
70341	Moisture-Density Relations Of Soil-Cement Mixtures	\$	303.00	,5,00	Pre-Mixed, 3 Briquettes (ASTM D5581, D6925)	•	2,0.00
, _ 3,10	Premixed In The Field (ASTM D558)		300000	75107	Marshall Stability And Flow 6" Specimen, Premixed,	s	270.00
70342	Moisture-Density Relations Of Soil-Cement Mixtures	S	385.00		3 Briquettes (ASTM D5581)		
	Mixed In The Lab (ASTM D558)			75063	Moisture Content (CTM 370)	\$	99.00
70328	pH Of Soils (ASTM D4972)	\$	66.00	75005	Wet Track Abrasion Test (ASTM D3910)	\$	193.00
70330	Organic Content Of Soils (ASTM D2974, Method A Only)	\$	94.00	75093	Hveem Mix Design (Excluding Aggregate Quality Tests)	\$	6,127.00
30401	Organic Impurities (ASTM C40, CTM 213)	\$	99.00	75096	Hveem Mix Design, With RAP (Excluding Aggregate Quality	\$	6,655.00
70343	Permeability (ASTM D5084)		Quotation		Tests, RAP Qualification)		
80001	Potential Reactivity Chemical Method (ASTM C289 -	\$	825.00	75099	Hveem Mix Design, With Lime (Excluding Aggregate Quality	\$	10,500.00
	Discontinued Method)				Tests)		
70394	Potential Reactivity Mortar Bar Expansion Method,	\$	1,018.00	75094	Hveem Mix Design Caltrans Untreated Mix (Including	\$	7,304.00
	14-Day Exposure (ASTM C1260)				Aggregate Quality Tests)		
70391	Potential Reactivity Mortar Bar Expansion Method,	\$	1,073.00	75095	Hveem Mix Design Caltrans Lime Treated Mix (Including	\$	8,487.00
	28-Day Exposure (ASTM C1260)	-	200000		Aggregate Quality Tests)	- 2	
70398	Potential Reactivity Concrete Bar Expansion Method	S	3,080.00	75084	Marshall Mix Design (Excluding Aggregate Quality Tests)	\$	6,127.00
	(ASTM C1293), 12 month			75087	Marshall Mix Design With RAP (Excluding Aggregate Quality	\$	6,655.00
70399	Potential Reactivity Concrete Bar Expansion Method	\$	3,410.00	75000	Tests)		7.001.00
70007	(ASTM C1293), 24 month		4 040 00	75090	Marshall Mix Design With Lime (Excluding Aggregate Quality	\$	7,304.00
70397	Potential Reactivity of Aggregate Combination, Non-Standard	\$	1,210.00	75002	Tests)	s	2 527 00
70392	Method; 14-Day Exposure, Mortar (After ASTM C1567) Potential Reactivity Of Aggregate Combination, Non-Standard	s	1,265.00	75083	Open Grade Asphalt Concrete Mix Design (ASTM D7064, CTM 368)	\$	3,537.00
10392	Method; 28-Day Exposure, Mortar (After ASTM C1567)	•	1,203.00	75109	Superpave Mix Design (Excluding Aggregate Quality Tests)	\$	12,491.00
70345	R-Value Soil (ASTM 2844, CTM 301)	S	484.00	75113	Superpave Mix Design, With RAP (Excluding Aggregate	s	13,195.00
70347	R-Value Aggregate Base (ASTM D2844, CTM 301)	\$	539.00		Quality Tests)		
70349	Sand Equivalent (ASTM D2419, CTM 217)	\$	138.00	75114	Superpave Mix Design With Rubber (Excluding Aggregate	5	13,195.00
70351	Sieve #200 Wash Only (ASTM D1140, CTM 202)	S	99.00		Quality Tests)		
70353	Sieve With Hydrometer 3/4" Gravel To Clay (ASTM D422,	5	275.00	75115	Superpave Mix Design With Additives (Excluding Aggregate	\$	13,552.00
	D7928, CTM 203)				Quality Tests)		
70355	Sieve With Hydrometer Sand To Clay (ASTM D422,	\$	264.00	75075	Effect Of Moisture On Asphalt Paving Mixtures, Pre-Mixed	\$	1,177.00
	D7928, CTM 203)				(ASTM D4867, AASHTO T283)		
70357	Sieve Analysis Including Wash (ASTM C136, CTM 202)	\$	165.00	75111	Hamburg Wheel Track Test, 20,000 Passes, 4 Briquettes	\$	1,298.00
70359	Sieve Analysis Without Wash (ASTM C136, CTM 202)	\$	132.00		(AASHTO T324)		
70360	Sieve Analysis Split Sieve (ASTM C136, CTM 202)	\$	264.00	75039	Raveling Test Of Cold Mixed Emulsified Asphalt (ASTM D7196)	\$	237.00
70361	Cious Applicale Mithout Mach Mith Cabbles (ACTM C125	\$	259.00	75067	Marshall Stability, Wet Set, 3 Replicates (AASHTO T245)	\$	413.00
	Sieve Analysis Without Wash With Cobbles (ASTM C136,						
70363	CTM 202)		1000 per 100	75068	Marshall Stability, Dry Set, 3 Replicates (AASHTO T245)	\$	352.00
	CTM 202) Soundness Sodium Or Magnesium Sulfate, 5 Cycles	\$	495.00	75068 75070	Cold Recycled Asphalt Mix Design 2 Gradings Each,	\$	352.00 12,375.00
	CTM 202) Soundness Sodium Or Magnesium Sulfate, 5 Cycles (ASTM C88)					\$	
70365	CTM 202) Soundness Sodium Or Magnesium Sulfate, 5 Cycles (ASTM C88) Specific Gravity And Absorption Coarse (ASTM C127,	s	495.00 110.00	75070	Cold Recycled Asphalt Mix Design 2 Gradings Each,	\$	
70365	CTM 202) Soundness Sodium Or Magnesium Sulfate, 5 Cycles (ASTM C88) Specific Gravity And Absorption Coarse (ASTM C127, CTM 206)	\$	110.00	75070 Task	Cold Recycled Asphalt Mix Design 2 Gradings Each, 3 Emulsion Content (Caltrans LP-8)	\$	12,375.00
	CTM 202) Soundness Sodium Or Magnesium Sulfate, 5 Cycles (ASTM C88) Specific Gravity And Absorption Coarse (ASTM C127, CTM 206) Specific Gravity and Absorption Fine (ASTM C128,			75070 Task Code	Cold Recycled Asphalt Mix Design 2 Gradings Each, 3 Emulsion Content (Caltrans LP-8) Mortar And Stucco - Petrographic Examination	\$	12,375.00 Rate
70365 70367	CTM 202) Soundness Sodium Or Magnesium Sulfate, 5 Cycles (ASTM C88) Specific Gravity And Absorption Coarse (ASTM C127, CTM 206) Specific Gravity and Absorption Fine (ASTM C128, CTM 207)	s	110.00 182.00	75070 Task	Cold Recycled Asphalt Mix Design 2 Gradings Each, 3 Emulsion Content (Caltrans LP-8) Mortar And Stucco - Petrographic Examination Stucco, One-Coat (ASTM C856), Includes Thin Section),	\$	12,375.00
70365 70367 70369	CTM 202) Soundness Sodium Or Magnesium Sulfate, 5 Cycles (ASTM C88) Specific Gravity And Absorption Coarse (ASTM C127, CTM 206) Specific Gravity and Absorption Fine (ASTM C128, CTM 207) Swell/Settlement Potential One Dimensional (ASTM D4546)	\$	110.00 182.00 165.00	75070 Task Code 80282	Cold Recycled Asphalt Mix Design 2 Gradings Each, 3 Emulsion Content (Caltrans LP-8) Mortar And Stucco - Petrographic Examination Stucco, One-Coat (ASTM C856), Includes Thin Section), Per Sample	\$	Rate 2,475.00
70365 70367 70369 70371	CTM 202) Soundness Sodium Or Magnesium Sulfate, 5 Cycles (ASTM C88) Specific Gravity And Absorption Coarse (ASTM C127, CTM 206) Specific Gravity and Absorption Fine (ASTM C128, CTM 207) Swell/Settlement Potential One Dimensional (ASTM D4546) Triaxial	s	110.00 182.00 165.00 Quotation	75070 Task Code	Cold Recycled Asphalt Mix Design 2 Gradings Each, 3 Emulsion Content (Caltrans LP-8) Mortar And Stucco - Petrographic Examination Stucco, One-Coat (ASTM C856), Includes Thin Section), Per Sample Stucco, Two-Coat (ASTM C856), Includes Thin Section),	\$	12,375.00 Rate
70365 70367 70369 70371 70373	CTM 202) Soundness Sodium Or Magnesium Sulfate, 5 Cycles (ASTM 088) Specific Gravity And Absorption Coarse (ASTM C127, CTM 206) Specific Gravity and Absorption Fine (ASTM C128, CTM 207) Swell/Settlement Potential One Dimensional (ASTM D4546) Triaxial Unconfined Compression (ASTM D2166, CTM 221)	s s s	110.00 182.00 165.00 Quotation 209.00	75070 Task Code 80282 80286	Cold Recycled Asphalt Mix Design 2 Gradings Each, 3 Emulsion Content (Caltrans LP-8) Mortar And Stucco - Petrographic Examination Stucco, One-Coat (ASTM C856), Includes Thin Section), Per Sample Stucco, Two-Coat (ASTM C856), Includes Thin Section), Per Sample	\$ \$	Rate 2,475.00 2,750.00
70365 70367 70369 70371 70373 30317	CTM 202) Soundness Sodium Or Magnesium Sulfate, 5 Cycles (ASTM C8B) Specific Gravity And Absorption Coarse (ASTM C127, CTM 206) Specific Gravity and Absorption Fine (ASTM C128, CTM 207) Swell/Settlement Potential One Dimensional (ASTM D4546) Triaxial Unconfined Compression (ASTM D2166, CTM 221) Unit Weight Per Cubic Foot (ASTM C29, CTM 212)	\$ \$ \$ \$	110.00 182.00 165.00 Quotation 209.00 138.00	75070 Task Code 80282	Cold Recycled Asphalt Mix Design 2 Gradings Each, 3 Emulsion Content (Caltrans LP-8) Mortar And Stucco - Petrographic Examination Stucco, One-Coat (ASTM C856), Includes Thin Section), Per Sample Stucco, Two-Coat (ASTM C856), Includes Thin Section), Per Sample Stucco, Three-Coat (ASTM C856), Includes Thin Section),	\$	Rate 2,475.00
70365 70367 70369 70371 70373	CTM 202) Soundness Sodium Or Magnesium Sulfate, 5 Cycles (ASTM C88) Specific Gravity And Absorption Coarse (ASTM C127, CTM 206) Specific Gravity and Absorption Fine (ASTM C128, CTM 207) Swell/Settlement Potential One Dimensional (ASTM D4546) Triaxial Unconfined Compression (ASTM D2166, CTM 221) Unit Weight Per Cubic Foot (ASTM C29, CTM 212) Voids In Aggregate With Known Specific Gravity (ASTM C29,	s s s	110.00 182.00 165.00 Quotation 209.00	75070 Task Code 80282 80286 80290	Cold Recycled Asphalt Mix Design 2 Gradings Each, 3 Emulsion Content (Caltrans LP-8) Mortar And Stucco - Petrographic Examination Stucco, One-Coat (ASTM C856), Includes Thin Section), Per Sample Stucco, Two-Coat (ASTM C856), Includes Thin Section), Per Sample Stucco, Three-Coat (ASTM C856), Includes Thin Section), Per Sample	\$ \$ \$ \$	Rate 2,475.00 2,750.00 3,300.00
70365 70367 70369 70371 70373 30317 30319	CTM 202) Soundness Sodium Or Magnesium Sulfate, 5 Cycles (ASTM C8B) Specific Gravity And Absorption Coarse (ASTM C127, CTM 206) Specific Gravity and Absorption Fine (ASTM C128, CTM 207) Swell/Settlement Potential One Dimensional (ASTM D4546) Triaxial Unconfined Compression (ASTM D2166, CTM 221) Unit Weight Per Cubic Foot (ASTM C29, CTM 212) Volds In Aggregate With Known Specific Gravity (ASTM C29, CTM 212)	\$ \$ \$ \$ \$	110.00 182.00 165.00 Quotation 209.00 138.00 138.00	75070 Task Code 80282 80286	Cold Recycled Asphalt Mix Design 2 Gradings Each, 3 Emulsion Content (Caltrans LP-8) Mortar And Stucco - Petrographic Examination Stucco, One-Coat (ASTM C856), Includes Thin Section), Per Sample Stucco, Two-Coat (ASTM C856), Includes Thin Section), Per Sample Stucco, Three-Coat (ASTM C856), Includes Thin Section), Per Sample Mortar (ASTM C1324, Petrographic Examination And Chemical	\$ \$	Rate 2,475.00 2,750.00
70365 70367 70369 70371 70373 30317 30319	CTM 202) Soundness Sodium Or Magnesium Sulfate, 5 Cycles (ASTM C8B) Specific Gravity And Absorption Coarse (ASTM C127, CTM 206) Specific Gravity and Absorption Fine (ASTM C128, CTM 207) Swell/Settlement Potential One Dimensional (ASTM D4546) Triaxial Unconfined Compression (ASTM D2166, CTM 221) Unit Weight Per Cubic Foot (ASTM C29, CTM 212) Volds in Aggregate With Known Specific Gravity (ASTM C29, CTM 212) Lightweight Particles Coarse, with Two Solutions (ASTM C123)	\$ \$ \$ \$ \$ \$	110.00 182.00 165.00 Quotation 209.00 138.00 138.00 550.00	75070 Task Code 80282 80286 80290	Cold Recycled Asphalt Mix Design 2 Gradings Each, 3 Emulsion Content (Caltrans LP-8) Mortar And Stucco - Petrographic Examination Stucco, One-Coat (ASTM C856), Includes Thin Section), Per Sample Stucco, Two-Coat (ASTM C856), Includes Thin Section), Per Sample Stucco, Three-Coat (ASTM C856), Includes Thin Section), Per Sample	\$ \$ \$ \$	Rate 2,475.00 2,750.00 3,300.00
70365 70367 70369 70371 70373 30317 30319	CTM 202) Soundness Sodium Or Magnesium Sulfate, 5 Cycles (ASTM C8B) Specific Gravity And Absorption Coarse (ASTM C127, CTM 206) Specific Gravity and Absorption Fine (ASTM C128, CTM 207) Swell/Settlement Potential One Dimensional (ASTM D4546) Triaxial Unconfined Compression (ASTM D2166, CTM 221) Unit Weight Per Cubic Foot (ASTM C29, CTM 212) Volds In Aggregate With Known Specific Gravity (ASTM C29, CTM 212)	\$ \$ \$ \$ \$	110.00 182.00 165.00 Quotation 209.00 138.00 138.00	75070 Task Code 80282 80286 80290 80294	Cold Recycled Asphalt Mix Design 2 Gradings Each, 3 Emulsion Content (Caltrans LP-8) Mortar And Stucco - Petrographic Examination Stucco, One-Coat (ASTM C856), Includes Thin Section), Per Sample Stucco, Two-Coat (ASTM C856), Includes Thin Section), Per Sample Stucco, Three-Coat (ASTM C856), Includes Thin Section), Per Sample Mortar (ASTM C1324, Petrographic Examination And Chemical	\$ \$ \$ \$	Rate 2,475.00 2,750.00 3,300.00
70365 70367 70369 70371 70373 30317 30319 30411 30412	CTM 202) Soundness Sodium Or Magnesium Sulfate, 5 Cycles (ASTM C8B) Specific Gravity And Absorption Coarse (ASTM C127, CTM 206) Specific Gravity and Absorption Fine (ASTM C128, CTM 207) Swell/Settlement Potential One Dimensional (ASTM D4546) Triaxial Unconfined Compression (ASTM D2166, CTM 221) Unit Weight Per Cubic Foot (ASTM C29, CTM 212) Volds in Aggregate With Known Specific Gravity (ASTM C29, CTM 212) Lightweight Particles Coarse, with Two Solutions (ASTM C123)	\$ \$ \$ \$ \$ \$	110.00 182.00 165.00 Quotation 209.00 138.00 138.00 550.00	75070 Task Code 80282 80286 80290 80294 Task	Cold Recycled Asphalt Mix Design 2 Gradings Each, 3 Emulsion Content (Caltrans LP-8) Mortar And Stucco - Petrographic Examination Stucco, One-Coat (ASTM C856), Includes Thin Section), Per Sample Stucco, Two-Coat (ASTM C856), Includes Thin Section), Per Sample Stucco, Three-Coat (ASTM C856), Includes Thin Section), Per Sample Mortar (ASTM C1324, Petrographic Examination And Chemical Analysis), Per Sample	\$ \$ \$ \$	Rate 2,475.00 2,750.00 3,300.00
70365 70367 70369 70371 70373 30317 30319 30411 30412 Task	CTM 202) Soundness Sodium Or Magnesium Sulfate, 5 Cycles (ASTM C8B) Specific Gravity And Absorption Coarse (ASTM C127, CTM 206) Specific Gravity and Absorption Fine (ASTM C128, CTM 207) Swell/Settlement Potential One Dimensional (ASTM D4546) Triaxial Unconfined Compression (ASTM D2166, CTM 221) Unit Weight Per Cubic Foot (ASTM C29, CTM 212) Volds in Aggregate With Known Specific Gravity (ASTM C29, CTM 212) Lightweight Particles Coarse, with Two Solutions (ASTM C123)	\$ \$ \$ \$ \$ \$	110.00 182.00 165.00 Quotation 209.00 138.00 138.00 550.00	75070 Task Code 80282 80286 80290 80294	Cold Recycled Asphalt Mix Design 2 Gradings Each, 3 Emulsion Content (Caltrans LP-8) Mortar And Stucco - Petrographic Examination Stucco, One-Coat (ASTM C856), Includes Thin Section), Per Sample Stucco, Two-Coat (ASTM C856), Includes Thin Section), Per Sample Stucco, Three-Coat (ASTM C856), Includes Thin Section), Per Sample Mortar (ASTM C1324, Petrographic Examination And Chemical	\$ \$ \$ \$	Rate 2,475.00 2,750.00 3,300.00 3,575.00
70365 70367 70369 70371 70373 30317 30319 30411 30412	CTM 202) Soundness Sodium Or Magnesium Sulfate, 5 Cycles (ASTM C8B) Specific Gravity And Absorption Coarse (ASTM C127, CTM 206) Specific Gravity and Absorption Fine (ASTM C128, CTM 207) Swell/Settlement Potential One Dimensional (ASTM D4546) Triaxial Unconfined Compression (ASTM D2166, CTM 221) Unit Weight Per Cubic Foot (ASTM C29, CTM 212) Voids in Aggregate With Known Specific Gravity (ASTM C29, CTM 212) Lightweight Particles Coarse, with Two Solutions (ASTM C123) Lightweight Particles Fine, with One Solution (ASTM C123) Asphalt Concrete Tests HMA Miking And Preparation	\$ \$ \$ \$ \$ \$	110.00 182.00 165.00 Quotation 209.00 138.00 138.00 550.00 275.00	75970 Task Code 80282 80286 80290 80294 Task Code	Cold Recycled Asphalt Mix Design 2 Gradings Each, 3 Emulsion Content (Caltrans LP-8) Mortar And Stucco - Petrographic Examination Stucco, One-Coat (ASTM C856), Includes Thin Section), Per Sample Stucco, Two-Coat (ASTM C856), Includes Thin Section), Per Sample Stucco, Three-Coat (ASTM C856), Includes Thin Section), Per Sample Mortar (ASTM C1324, Petrographic Examination And Chemical Analysis), Per Sample Brick Masonry Tests, ASTM C67 Modulus Of Rupture Flexural Compression Strength	\$ \$ \$ \$ \$	Rate 2,475.00 2,750.00 3,300.00 3,575.00
70365 70367 70369 70371 70373 30317 30319 30411 30412 Task Code	CTM 202) Soundness Sodium Or Magnesium Sulfate, 5 Cycles (ASTM C8B) Specific Gravity And Absorption Coarse (ASTM C127, CTM 206) Specific Gravity and Absorption Fine (ASTM C128, CTM 207) Swell/Settlement Potential One Dimensional (ASTM D4546) Triaxial Unconfined Compression (ASTM D2166, CTM 221) Unit Weight Per Cubic Foot (ASTM C29, CTM 212) Voids In Aggregate With Known Specific Gravity (ASTM C29, CTM 212) Lightweight Particles Coarse, with Two Solutions (ASTM C123) Lightweight Particles Fine, with One Solution (ASTM C123) Asphalt Concrete Tests HMA Mixing And Preparation HMA Mixing And Preparation	\$ \$ \$ \$ \$ \$ \$	110.00 182.00 165.00 Quolation 209.00 138.00 138.00 550.00 275.00	75070 Task Code 80282 80286 80290 80294 Task Code 20301	Cold Recycled Asphalt Mix Design 2 Gradings Each, 3 Emulsion Content (Caltrans LP-8) Mortar And Stucco - Petrographic Examination Stucco, One-Coat (ASTM C856), Includes Thin Section), Per Sample Stucco, Two-Coat (ASTM C856), Includes Thin Section), Per Sample Stucco, Three-Coat (ASTM C856), Includes Thin Section), Per Sample Mortar (ASTM C1324, Petrographic Examination And Chemical Analysis), Per Sample Brick Masonny Tests, ASTM C67 Modulus Of Rupture Flexural Compression Strength Absorption 5 Hour or 24 Hour	\$ \$ \$ \$ \$	Rate 2,475.00 2,750.00 3,300.00 3,575.00 Rate 121.00
70365 70367 70369 70371 70373 30317 30319 30411 30412 Task Code 75031	CTM 202) Soundness Sodium Or Magnesium Sulfate, 5 Cycles (ASTM C88) Specific Gravity And Absorption Coarse (ASTM C127, CTM 206) Specific Gravity and Absorption Fine (ASTM C128, CTM 207) Swell/Settlement Potential One Dimensional (ASTM D4546) Triaxial Unconfined Compression (ASTM D2166, CTM 221) Unit Weight Per Cubic Foot (ASTM C29, CTM 212) Voids In Aggregate With Known Specific Gravity (ASTM C29, CTM 212) Lightweight Particles Coarse, with Two Solutions (ASTM C123) Lightweight Particles Fine, with One Solution (ASTM C123) Asphalt Concrete Tests HMA Mixing And Preparation HMA Mixing And Preparation HMA Mixing And Preparation HMA Mixing And Preparation HMA Mixing Farmer Start	s s s s s s	110.00 182.00 165.00 Quotation 209.00 138.00 138.00 550.00 275.00	75070 Task Code 80282 80286 80290 80294 Task Code 20301 20303 20305 20307	Cold Recycled Asphalt Mix Design 2 Gradings Each, 3 Emulsion Content (Caltrans LP-8) Mortar And Stucco - Petrographic Examination Stucco, One-Coat (ASTM C856), Includes Thin Section), Per Sample Stucco, Two-Coat (ASTM C856), Includes Thin Section), Per Sample Stucco, Two-Coat (ASTM C856), Includes Thin Section), Per Sample Mortar (ASTM C1324, Petrographic Examination And Chemical Analysis), Per Sample Brick Masonny Tests, ASTM C67 Modulus Of Rupture Flexural Compression Strength Absorption 6 Hour or 24 Hour Absorption (Boil) 1, 2 Or 5 Hours	\$ \$ \$ \$	12,375.00 Rate 2,475.00 2,750.00 3,300.00 3,575.00 Rate 121.00 83.00
70365 70367 70369 70371 70373 30317 30319 30411 30412 Task Code 75031 75032	CTM 202) Soundness Sodium Or Magnesium Sulfate, 5 Cycles (ASTM C8B) Specific Gravity And Absorption Coarse (ASTM C127, CTM 206) Specific Gravity and Absorption Fine (ASTM C128, CTM 207) Specific Gravity and Absorption Fine (ASTM C128, CTM 207) Swell/Settlement Potential One Dimensional (ASTM D4546) Triaxial Unconfined Compression (ASTM D2166, CTM 221) Unit Weight Per Cubic Foot (ASTM C29, CTM 212) Voids in Aggregate With Known Specific Gravity (ASTM C29, CTM 212) Lightweight Particles Coarse, with Two Solutions (ASTM C123) Lightweight Particles Fine, with One Solution (ASTM C123) Asphalt Concrete Tests HMA Miking And Preparation HMA Miking And Preparation HMA Miking And Preparation With Aggregate Treatment Bulk Specific Gravity Of Compacted Sample Or Core SSD (ASTM D2726, CTM 308C)	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	110.00 182.00 165.00 Quotation 209.00 138.00 138.00 275.00 275.00 Rate 149.00 209.00	75970 Task Code 80282 80286 80290 80294 Task Code 20301 20303 20305	Cold Recycled Asphalt Mix Design 2 Gradings Each, 3 Emulsion Content (Caltrans LP-8) Mortar And Stucco - Petrographic Examination Stucco, One-Coat (ASTM C856), Includes Thin Section), Per Sample Stucco, Two-Coat (ASTM C856), Includes Thin Section), Per Sample Stucco, Three-Coat (ASTM C856), Includes Thin Section), Per Sample Mortar (ASTM C1324, Petrographic Examination And Chemical Analysis), Per Sample Brick Masonry Tests, ASTM C67 Modulus Of Rupture Flexural Compression Strength Absorption 5 Hour or 24 Hour Absorption (Boll) 1, 2 Or 5 Hours Initial Rate Of Absorption	\$ \$ \$ \$ \$ \$ \$ \$ \$	Rate 2,475.00 3,300.00 3,575.00 Rate 121.00 83.00 88.00
70365 70367 70369 70371 70373 30317 30319 30411 30412 Task Code 75031 75032	CTM 202) Soundness Sodium Or Magnesium Sulfate, 5 Cycles (ASTM C88) Specific Gravity And Absorption Coarse (ASTM C127, CTM 206) Specific Gravity and Absorption Fine (ASTM C128, CTM 207) Swell/Settlement Potential One Dimensional (ASTM D4546) Triaxial Unconfined Compression (ASTM D2166, CTM 221) Unit Weight Per Cubic Foot (ASTM C29, CTM 212) Voids In Aggregate With Known Specific Gravity (ASTM C29, CTM 212) Lightweight Particles Coarse, with Two Solutions (ASTM C123) Lightweight Particles Fine, with One Solution (ASTM C123) Asphalt Concrete Tests HMA Mixing And Preparation HMA Mixing And Preparation HMA Mixing And Preparation HMA Mixing And Preparation HMA Mixing Farmer Start	\$ \$ \$ \$ \$ \$ \$	110.00 182.00 165.00 Quotation 209.00 138.00 138.00 275.00 275.00 Rate 149.00 209.00	75070 Task Code 80282 80286 80290 80294 Task Code 20301 20303 20305 20307	Cold Recycled Asphalt Mix Design 2 Gradings Each, 3 Emulsion Content (Caltrans LP-8) Mortar And Stucco - Petrographic Examination Stucco, One-Coat (ASTM C856), Includes Thin Section), Per Sample Stucco, Two-Coat (ASTM C856), Includes Thin Section), Per Sample Stucco, Three-Coat (ASTM C856), Includes Thin Section), Per Sample Mortar (ASTM C1324, Petrographic Examination And Chemical Analysis), Per Sample Brick Masonry Tests, ASTM C67 Modulus Of Rupture Flexural Compression Strength Absorption 5 Hour or 24 Hour Absorption 5 Hour or 24 Hour Absorption 18 Hour or 54 Hours Initial Rate Of Absorption Effforescence	\$ \$ \$ \$	12,375.00 Rate 2,475.00 2,750.00 3,300.00 3,575.00 Rate 121.00 83.00 88.00 121.00
70365 70367 70369 70371 70373 30317 30319 30411 30412 Task Code 75031 75032 75033	CTM 202) Soundness Sodium Or Magnesium Sulfate, 5 Cycles (ASTM C8B) Specific Gravity And Absorption Coarse (ASTM C127, CTM 206) Specific Gravity and Absorption Fine (ASTM C128, CTM 207) Specific Gravity and Absorption Fine (ASTM C128, CTM 207) Swell/Settlement Potential One Dimensional (ASTM D4546) Triaxial Unconfined Compression (ASTM D2166, CTM 221) Unit Weight Per Cubic Foot (ASTM C29, CTM 212) Voids in Aggregate With Known Specific Gravity (ASTM C29, CTM 212) Lightweight Particles Coarse, with Two Solutions (ASTM C123) Lightweight Particles Fine, with One Solution (ASTM C123) Asphalt Concrete Tests HMA Miking And Preparation HMA Miking And Preparation HMA Miking And Preparation With Aggregate Treatment Bulk Specific Gravity Of Compacted Sample Or Core SSD (ASTM D2726, CTM 308C)	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	110.00 182.00 165.00 Quolation 209.00 138.00 138.00 550.00 275.00 Rate 149.00 209.00 66.00	75970 Task Code 80282 80286 80290 80294 Task Code 20301 20303 20305 20307 20309	Cold Recycled Asphalt Mix Design 2 Gradings Each, 3 Emulsion Content (Caltrans LP-8) Mortar And Stucco - Petrographic Examination Stucco, One-Coat (ASTM C856), Includes Thin Section), Per Sample Stucco, Two-Coat (ASTM C856), Includes Thin Section), Per Sample Stucco, Three-Coat (ASTM C856), Includes Thin Section), Per Sample Mortar (ASTM C1324, Petrographic Examination And Chemical Analysis), Per Sample Brick Masonry Tests, ASTM C67 Modulus Of Rupture Flexural Compression Strength Absorption 5 Hour or 24 Hour Absorption (Boll) 1, 2 Or 5 Hours Initial Rate Of Absorption	\$ \$ \$ \$	Rate 2,475.00 2,750.00 3,300.00 3,575.00 Rate 121.00 83.00 88.00 121.00 77.00



	Concrete Block, ASTM C140		Rate	Task Code
Code 20321	Compression	\$	105.00	20619
20323	Absorption/Moisture Content/Oven Dry Density	\$	105.00	20630
0327	Linear Shrinkage (ASTM C426)	s	303.00	20631
20335	Web And Face Shell Measurements	5	61.00	20632
20329	Tension Test	s	193.00	20633
20331	Core Compression	s	99.00	20634
20333	Shear Test Of Masonry Cores 2 Faces	s	121.00	20635
20339	Efflorescence Tests	s	94.00	20636
20333	Ellipiescelice Tesis	4	34.00	20637
				20638
Task	Hanney Brianny ACTH 04244		Date	20639
Code	Masonry Prisms, ASTM C1314	S	226.00	20639
20341	Compression Test, Composite Masonry Prisms Up To 8" x 16"	_		
20343	Compression Test, Composite Masonry Prisms > 8" x 16"	\$	303.00	20641
20346	Prism Cord Modulus of Elasticity	\$	715.00	****
20347	Prism Cord Modulus Of Elasticity With Transverse Strain	\$	781.00	Task
	(For Double-Wythe Specimen)			Code
				80170
Task			48.19	80173
Code	Mortar And Grout		Rate	80176
20351	Compression 2" x 4" Mortar Cylinders (ASTM C780)	\$	66.00	80177
20353	Compression 3" x 3" x 6" Grout Prisms, Includes Trimming	S	50.00	
	(ASTM C1019)			Task
20355	Compression 2" Cubes (ASTM C109)	\$	66.00	Code
20357	Compression Cores Includes Trimming (ASTM C42)	\$	99.00	2075
	7			20753
Task				
Code	Masonry Specimen Preparation		Rate	20755
20155	Cutting Of Cubes Or Prisms	S	99.00	20757
20100	Cutting Of Cubes Of Frisins		00.00	
Task				20759
Code	Elementing Tosts		Rate	20,00
20401	Fireproofing Tests Oven Dry Density (ASTM E605)	S	83.00	
20401	Oven Dry Density (ASTM E003)	•	03,00	Task
Task			1/	20621
Code	Gunite And Shotcrete Tests	s	99.00	20621
20361	Core Compression Including Trimming (ASTM C42)	5	116.00	20023
20365	Compression Cubes (Includes Saw Cutting)	3	116.00	****
				Task
Task	Concrete Roof Fill: Gypsum, Vermiculite, Perlite,		-	Code
Code	Lightweight Insulating Concrete, Etc.		Rate	20780
20371	Compression Test (ASTM C495 and C472)	\$	83.00 72.00	20783
20373	Air Dry Density (ASTM C472)	S		
20379				Task
	Oven Dry Density (ASTM C495)	\$	99.00	Code
	Oven Dry Density (ASTM C495)		99.00	
Task				
Code	Reinforcing Steel, ASTM A615, A706	s	Rate	20701
Code 20501	Reinforcing Steel, ASTM A615, A706 Tensile Test #11 Or Smaller	\$	Rate 83,00	20701
Code 20501 20503	Reinforcing Steel, ASTM A615, A706 Tensile Test #11 Or Smaller Bend Test #11 Or Smaller	\$ \$	Rate 83,00 77,00	20701
Code 20501 20503 20504	Reinforcing Steel, ASTM A615, A706 Tensile Test #11 Or Smaller Bend Test #11 Or Smaller Bend Test #14 Or #18	\$ \$ \$	Rate 83,00 77,00 440,00	20701 20703 20705
20501 20503 20504 20505	Reinforcing Steel, ASTM A615, A706 Tensile Test #11 Or Smaller Bend Test #11 Or Smaller Bend Test #14 Or #18 Tensile Test #14	\$ \$ \$ \$	Rate 83.00 77.00 440.00 330.00	20701 20703 20705 Task
Code 20501 20503 20504	Reinforcing Steel, ASTM A615, A706 Tensile Test #11 Or Smaller Bend Test #11 Or Smaller Bend Test #14 Or #18	\$ \$ \$	Rate 83,00 77,00 440,00	20701 20703 20705 Task Code
20501 20503 20504 20505	Reinforcing Steel, ASTM A615, A706 Tensile Test #11 Or Smaller Bend Test #11 Or Smaller Bend Test #14 Or #18 Tensile Test #14	\$ \$ \$ \$	Rate 83.00 77.00 440.00 330.00	20701 20703 20705 Task
20501 20503 20504 20505	Reinforcing Steel, ASTM A615, A706 Tensile Test #11 Or Smaller Bend Test #11 Or Smaller Bend Test #14 Or #18 Tensile Test #14 Tensile Test #14	\$ \$ \$ \$	Rate 83.00 77.00 440.00 330.00	20701 20703 20705 Task Code 20706
Code 20501 20503 20504 20505 20507	Reinforcing Steel, ASTM A615, A706 Tensile Test #11 Or Smaller Bend Test #11 Or Smaller Bend Test #14 Or #18 Tensile Test #14	\$ \$ \$ \$	Rate 83.00 77.00 440.00 330.00	20701 20703 20705 Task Code
Code 20501 20503 20504 20505 20507	Reinforcing Steel, ASTM A615, A706 Tensile Test #11 Or Smaller Bend Test #11 Or Smaller Bend Test #14 Or #18 Tensile Test #14 Tensile Test #14	\$ \$ \$ \$	Rate 83.00 77.00 440.00 330.00 429.00	20701 20703 20705 Task Code 20706
Code 20501 20503 20504 20505 20507 Task Code	Reinforcing Steel, ASTM A615, A706 Tensile Test #11 Or Smaller Bend Test #11 Or Smaller Bend Test #14 Or #18 Tensile Test #14 Tensile Test #14 Tensile Test #18 Reinforcing Steel - Welded Or Coupled Specimens Tensile Test Welded/Coupled #11 And Smaller	\$ \$ \$ \$ \$	Rate 83.00 77.00 440.00 330.00 429.00	20701 20703 20705 Task Code 20706
Code 20501 20503 20504 20505 20507 Task Code 20521	Reinforcing Steel, ASTM A615, A706 Tensile Test #11 Or Smaller Bend Test #11 Or Smaller Bend Test #14 Or #18 Tensile Test #14 Tensile Test #14 Reinforcing Steel - Welded Or Coupled Specimens Tensile Test Welded/Coupled #11 And Smaller Tensile Test Welded/Coupled #14	\$ \$ \$ \$ \$ \$ \$	Rate 83.00 77.00 440.00 330.00 429.00 Rate 94.00	20701 20703 20705 Task Code 20706
Code 20501 20503 20504 20505 20507 Task Code 20521 20523 20525	Reinforcing Steel, ASTM A615, A706 Tensile Test #11 Or Smaller Bend Test #11 Or Smaller Bend Test #14 Or #18 Tensile Test #14 Tensile Test #14 Tensile Test Welded/Coupled #11 And Smaller Tensile Test Welded/Coupled #11 Tensile Test Welded/Coupled #14 Tensile Test Welded/Coupled #18	\$ \$ \$ \$ \$ \$	Rate 83.00 77.00 440.00 330.00 429.00 Rate 94.00 319.00	20701 20703 20705 Task Code 20706 20707
Code 20501 20503 20504 20505 20507 Task Code 20521 20523 20525 20525 20529	Reinforcing Steel, ASTM A615, A706 Tensile Test #11 Or Smaller Bend Test #11 Or Smaller Bend Test #11 Or Smaller Bend Test #14 Or #18 Tensile Test #14 Tensile Test #14 Reinforcing Steel - Welded Or Coupled Specimens Tensile Test Welded/Coupled #11 And Smaller Tensile Test Welded/Coupled #14 Tensile Test Welded/Coupled #18 Weld Macroetich	5 5 5 5 5 5 5 5 5 5 5 5 5	Rate 83.00 77.00 440.00 330.00 429.00 Rate 94.00 319.00 451.00 105.00	20701 20703 20705 Task Code 20706 20707 20708
Code 20501 20503 20504 20505 20507 Task Code 20521 20523 20525 20529 20531	Reinforcing Steel, ASTM A615, A706 Tensile Test #11 Or Smaller Bend Test #11 Or Smaller Bend Test #11 Or Smaller Bend Test #14 Or #18 Tensile Test #14 Tensile Test #14 Tensile Test Welded/Coupled #11 And Smaller Tensile Test Welded/Coupled #11 Tensile Test Welded/Coupled #18 Weld Macroetch Slippage Test - Calirans (CTM 670)	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Rate 83.00 77.00 440.00 330.00 429.00 Rate 94.00 319.00 451.00 105.00 242.00	20701 20703 20705 Task Code 20706 20707 20708 Task
Code 20501 20503 20504 20505 20507 Task Code 20521 20523 20525 20525 20529	Reinforcing Steel, ASTM A615, A706 Tensile Test #11 Or Smaller Bend Test #11 Or Smaller Bend Test #11 Or Smaller Bend Test #14 Or #18 Tensile Test #14 Tensile Test #14 Reinforcing Steel - Welded Or Coupled Specimens Tensile Test Welded/Coupled #11 And Smaller Tensile Test Welded/Coupled #14 Tensile Test Welded/Coupled #18 Weld Macroetich	5 5 5 5 5 5 5 5 5 5 5 5 5	Rate 83.00 77.00 440.00 330.00 429.00 Rate 94.00 319.00 451.00 105.00	20701 20703 20705 Task Code 20706 20707 20708 Task Code 20708
Code 20501 20503 20504 20505 20507 Task Code 20521 20523 20525 20529 20531 20532	Reinforcing Steel, ASTM A615, A706 Tensile Test #11 Or Smaller Bend Test #11 Or Smaller Bend Test #11 Or Smaller Bend Test #14 Or #18 Tensile Test #14 Tensile Test #14 Tensile Test Welded/Coupled #11 And Smaller Tensile Test Welded/Coupled #11 Tensile Test Welded/Coupled #18 Weld Macroetch Slippage Test - Calirans (CTM 670)	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Rate 83.00 77.00 440.00 330.00 429.00 Rate 94.00 319.00 451.00 105.00 242.00	20701 20703 20705 Task Code 20706 20707 20708 Task Code 20708
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Code	Metal and Steel Testing, Continued		Rate
20619	Hardness Test (ASTM E18)	\$	94.00
20630	Bolt Axial Tensile Test (Up To 7/8" Diameter)	\$	77.00
20631	Bolt Wedge Tensile Test (Up To 7/8" Diameter)	\$	94.00
20632	Bolt Axial Tensile Test (Greater Than 7/8" Up To 1" diameter)	s	99.00
20633	Bolt Wedge Tensile Test (Greater Than 7/8" Up To 1" Diameter)	\$	121.00
20634	Bolt Axial Tensile Test (Greater Than 1" Diameter)	s	143.00
20635	Bolt Wedge Tensile Test (Greater Than 1" Diameter)	s	154.00
20636	Bolt Proof Load Test (Up To 7/8")	S	105.00
20636		S	127.00
	Bolt Proof Load Test (Greater Than 7/8" Up To 1" Diameter)	S	149.00
20638	Bolt Proof Load Test (Greater Than 1")		
20639	Nut Proof Load Test (Up To 7/8")	\$	83.00
20640	Nut Proof Load Test (Greater Than 7/8" Up To 1" Diameter)	\$	105.00
20641	Nut Proof Load Test (Greater Than 1")	\$	116.00
Task			D-1
Code	Chemical Testing Of Metal And Steel		Rate
80170	Steel Chemical Analysis	1000	Quotation
80173	Weight Of Galvanized Coating (ASTM A90)	\$	99.00
80176	Epoxy Coating Thickness	\$	110.00
80177	Coating Thickness	\$	105.00
Task	Machining And Preparation Of Tensile And Bend		
Code	Sample: Carbon Steel		Rate
20751	Machinist Initial Preparation From Mock-Up, Etc. (Per Hour)	\$	160.00
20753	Sawcut To Overall Width (Per 0.5" Thickness Or Fraction	\$	72.00
20755	Machine To Test Configuration Milled Specimens	s	105.00
20755	Machine To Test Configuration Turned Specimens (Per 0.5"	S	187.00
20101	Thickness Or Fraction Thereof)	\$	107,00
20759	Prepare Subsize Specimens (Per 0.5" Thickness Or Fraction Thereof)	\$	127.00
Task			
Code	Charpy Impact		Rate
20621	Charpy Impact Ambient Temperature	S	116.00
20623	Charpy Impact Reduced Temperature	s	154.00
Task			
	Machining Of Charpy Samples: Carbon Steel		Rate
20780	Cutting And Milling (Per 0.5" Or Fraction Thereof)	S	105.00
20783	Final Machining To Sample Configuration	5	127.00
T1			
Task			
Code	Prestressing Wires And Tendons, (ASTM A416)	-	Rate
20701	Stress-Strain Analysis Wire Or Strands (Including Chart And	\$	281.00
Management .	Percent Offset)	1.20	02.22.14-0
20703	Tensile Test Only	\$	209.00
20705	Tendons		Quotation
Task	With the same of t		
Code	Polymer Matrix Composite Materials (Fiberwrap)		Rate
20706	Tensile Strength – Set of 5 Specimens/Batch/Direction (ASTM D3039)	\$	1,540.00
20707	Tensile Strength – Additional Specimens (ASTM D3039) (ASTM D3039)	\$	297.00
20708	Heating Chamber Time – Per 24 Hr. Period	\$	110.00
Task			
Code	Calibration Services And Universal Machine Usage		Rate
20801	Calibration/Verification Services		Quotation
20803	Universal Test Machine Usage (Per Hour)	\$	523.00
- Cylic A	Ity Testing and Faligue Testing Programs On Special Products/Parts erring And Technical Supports/Design Of Prototypes And Special Te err/Coupling Full Testing Program Per New Regulations: Tension, Te		
- Faster Shea	ar, Double Shear, 8 Compressions lass/Composite Materials Field Testing Program (ASTM D1143 D124	12	

General Conditions

NOTE: Field inspection work conditions are established by contract with Operating Engineers, Local 12.

NOTE: A minimum of 24 hours notice is required for testing and inspection services.

NOTE: Pro projects subject to a Project Labor Agreement (PLA), if the terms and conditions of the PLA are more restrictive than those listed below, PLA terms and conditions will apply.

NOTE: Rates will be adjusted annually each July 1st to reflect increased costs.

Administrative Fees
All administrative fees, except as noted below, including report distribution and Twining Construction Hive system are billed at the following percentage of the monthly invoice total: 4%



General Conditions, Continued

Note that hard copies of reports will be sent only to governing jurisdictions that mandate them. All other parties will receive reports electronically. The administrative fee above will receive reports electronically. The administrative fee above will be increased by 1% if additional hard copies of reports are requested. Submittal of project specific forms or resumes will be billed

Minimum Charges (Inspection and Technician Personnel Only - Other Personnel Charged on Portal to Portal Basis) 2-Hour Minimum: Inspector arrives at jobsite, no work to perform 4-Hour Minimum: 1 to 4 hours of inspection

8-Hour Minimum; Over 4 to 8 hours of inspection

Regular Time (All Types of Inspection and also All Non-Exempt Employees)

The first 8 hours worked Monday through Friday between 5:00 a.m. and 5:00 p.m. except as noted otherwise below.

ne and One-Half (All Types of Inspection and also All Non-Exempt Employees)

All shifts will be billed based on the time and date of their start. Any increment past 8 hours through 12 hours worked Monday through Friday and the first 12 hours on Saturday. Time and one-half will also be charged for the first four hours before 5:00 a.m. and after 5:00 p.m.

Double Time (All Types of Inspection and also All Non-Exempt Employees)
All shifts will be billed based on the time and date of their start. After the first 12 hours worked Monday through Saturday, all day Sunday, and holidays. After the first four hours worked before 5:00 a.m. and after 5:00 p.m. Holidays are New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving, the day after Thanksgiving, Christmas Day, and Local 12 general meeting days (First Saturday in June, First Saturday in December).

Meal Period

When personnel are required by their duties to work more than five consecutive hours without a one-half hour uninterrupted meal period, one half hour at double time rate will be charged in addition to any applicable overlime for actual hours worked.

Shift Differential (Applies to Regularly Scheduled Shifts Only)

A \$1.00 per hour shift differential premium will be charged for all inspection hours that fall outside of the 5:00 a.m. to 5:00 p.m. time period. Twining will require 48-hour notice along with the General Contractors approved shift letter prior to beginning a shift that will include hours falling outside this time period. Should this notice not be provided, all work performed on that shift will be billed at the applicable overtime or double time rate

If three shifts per day are required, the first shift will be billed at the standard rate. The second shift shall be billed in accordance with the previous paragraph. The third shift shall be billed at 8 hours for the first 6 1/2 hours worked and appropriate overtime or double time for all hours thereafter.

Travel Time and Mileage

For projects outside a 50-mile radius from the nearest Twining facility, per excess mile to and from the project will be charged for inspectors and technicians. Other than small tools, whenever project related equipment is required to be transported to and from the project site, time and mileage for inspectors and field technicians will be billed on a portal to portal basis. For all projects, current IRS mileage rate per mile and applicable travel time will be charged portal to portal for engineers, consultants, supervisors, and laboratory technicians from the laboratory to the project site and return

For work locations located 100 miles or more from Twining, travel time will be charged at the relevant rate for inspectors and technicians in addition to a subsistence allowance as detailed

Weekend Sample Pick-Ups

In order to be in strict conformance with testing standards, it may be required that weekend pick-ups be performed (e.g. concrete specimens cast on Friday must be picked up on weekend in order to be in conformance with ASTM C31 requiring specimens to be moved to their final curring location within 48 hours of casting.) Applicable charges for weekend work will apply when this is required. Should these charges not be authorized, Twining will not be liable for any negative consequences.

Relmburgariable Expenses
Parking, air face, car rental, food, lodging and project specific software/applications (e.g. PlanGrid, Procore, etc.) will be charged at cost plus 20% per processed invoice, unless provided by client.

Project Specific Documents

Costs presented assume that client will provide project specific documents (plans, specifications, submittals, RFIs, etc.) for all inspection personnel. Should project specific documents be provided electronically through a "for fee" service, the client will be responsible for providing access and paying any fees for the service

Prices quoted assume that initial curing facilities for test samples that comply with relevant test standards and project requirements are provided by others. In addition, prices quoted assume that work/desk space for inspection staff are provided by others. Additional costs, provided by quotation, will apply should Twining be required to provide such facilities.

Subsistence on remote jobs will be charged per quotation.

Laboratory Testing Hours and Expedited Testing
Please note that laboratory testing will be billed on an hourly basis for non-standard tests. If testing is required to be performed on Saturdays, Sundays, holidays, or before 5:30 a.m. or after 4:00 p.m. on weekdays, an additional hourly charge, at the applicable regular, overtime or double time rate, with a minimum of one hour will be applied for the laboratory technician. For rush testing a 50% surcharge in addition to the regular test rate will apply.

Charges for Subcontracted Services

Material sent to outside laboratory for testing: Material sent to outside fabricator or machine shop: Cost plus 20% Cost plus 20% Glu-Lam beam inspection: Cost plus 20% Other subcontractors Project exclusive equipment purchase: Cost plus 20%

Client agrees to limit Twining's aggregate liability to all entities for alleged or actual errors and omissions in the performance of its professional services under this agreement to \$50,000.00 or the fees actually paid to Twining, whichever amount is greater. Higher limits may be available by quotation

Additional Insurance Coverage

Any requirements for additional insurance policies or coverage beyond our normal policies/limits (e.g. SML coverage) may be provided at an additional fee and will be quoted on a per project requirements basis.

Certified Payroll
Certified payroll will be provided, upon request, at an additional charge of \$150.00/month. Fee applies to every month that certified payroll must be submitted regardless of whether or not services were provided for any given monti



General Conditions, Continued

Final Reports Required by Jurisdiction
If a final report or affidavit is required, we must first review all inspection and testing reports and clear up any unresolved issues on these reports. These issues will typically require approval by the engineer or architect of record. This process can take several weeks or just a day, depending on the number and complexity of the issues. Cost for final reports will be billed hourly.

Terms of Payment
Fees charged are for professional and technical services and are due upon presentation. If not paid within 30 days from date of invoice, they are considered past due and the maximum legal finance charge will be added to the unpaid balance.

In addition, should the client require that invoices be submitted through a web based or electronic system, the client will be responsible for all costs associated with the use of the system.

A 3% fee will be applied for payments processed by credit card.

All invoice errors or necessary corrections shall be brought to the attention of Twining within 15 days of receipt of invoice. Thereafter, customer acknowledges invoices are correct and valid. Twining reserves the right to terminate its services to a customer without notice if all invoices are not current. Upon such termination of services, the entire amount accrued for all services performed shall immediately become due and payable. Customer waives any and all claims against Twining, its subsidiaries, affiliates, servants, and agents for termination of work on account of these terms.

In the event of any litigation arising from or related to any agreement to provide services whether verbal or written, the prevailing party shall be entitled to recover from the non-prevailing party all reasonable costs incurred, including staff time, court costs, attorney's fees and all other related expenses in such litigation. Additionally, in the event of a non-adjudicative settlement of litigation between the parties or a resolution of dispute by arbitration, that same process shall determine the prevailing party.

All "hold" specimens are charged at the applicable test rate whether tested or not

Specimen Sampling and Disposal

Twining samples materials used in construction in accordance with standard practices, methods, codes, and relevant project requirements. Representativeness of sampling and same accuracy of testing are subject to the same probabilistic and precision limitations as governing standards, codes and project technical provision

Should samples be provided by others Twining cannot warrant or guarantee that material is representative of material that is or will be used in actual construction of the project.

Specimens will be discarded after testing unless Twining has been notified prior to testing that the customer wishes to retrieve the specimens or storage arrangements are made. Costs for storage will be by quotation.

Oversize Specin

An extra charge will be made when test specimens require more than one person to handle because of size or weight.

In the event an elevated work platform is required to safely complete our work, the client must provide safe access for Twining personnel for all required inspection, testing, sampling, etc. including a trained and certified operator or qualified inspector as applicable, Twining will not be responsible for signing waivers associated with providing such access. Should Twining be required to supply an elevated work platform, we will contract with a qualified vendor and the markups shown above will apply.



RATE SHEET

		DATE		5/28/2025
Address	235 E. Broadway, Long Beach, CA 90802	PROJECT		On-Call Construction Management, Materials Testing, and Inspection Services for City of Huntington Beach
Certification	DBE/SBE	COMPANY		GHD
	C/O	HEELE	Natasha Johnson	
Prepared by	Benny Yu	Rate Valid	Until	12/31/2025
	byu@montezgroup.com	Escalat	ion	Based on CPI (Will be submitted per calendar year)
Name	Direct Labor Rate (Per Hour)	OH%	Profit	Billing Rate (Per Hour)
Estuardo Ramirez	\$90	127.21%	10%	\$225
Dickson Sum	\$75	127.21%	10%	\$187
Komal Nagare	\$70	127.21%	10%	\$175
Ricardo Rodriguez	\$75	127.21%	10%	\$187

• Base rate for regular working hours for the project

Note:

- Overtime hours Only as approved by the Client Base Rate x1.5
- ullet Escalation based on CPI will be submitted per calendar year

http://www.montezgroup.com

^{*} Subject to the Prevailing Wage per DIR



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 11/09/2025

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on											
this certificate does not confer rights to the certificate holder in lieu of s						CONTACT WITH Contificate Conter					
PRODUCER Willis Towers Watson Northeast, Inc.											
c/o 26 Century Blvd					(A/C, No, Ext): 1-877-945-7378 (A/C, No): 1-888-467-2378						
P.O. Box 305191					E-MAIL ADDRESS: certificates@wtwco.com						
Nashville, TN 372305191 USA					INSURER(S) AFFORDING COVERAGE NAIC #						
					INSURE	RA: Lloyd's	Syndicate	e 0623 (Beazley Furlo	nge G	B0356	
INSURED GHD Inc.					INSURER B:						
2055 Niagara Falls Blvd., Suite 1					INSURER C:						
Niagara Falls, NY 14304					INSURER D:						
					INSURER E :						
					INSURER F:						
COVERAGES CERTIFICATE NUMBER: W41718667					REVISION NUMBER:						
THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIC INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH TH CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERM EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.									VHICH THIS		
INSR LTR TYPE OF INSURANCE			SUBR WVD	POLICY NUMBER		POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMIT	s		
	COMMERCIAL GENERAL LIABILITY							EACH OCCURRENCE	\$		
	CLAIMS-MADE OCCUR							DAMAGE TO RENTED PREMISES (Ea occurrence)	\$		
								MED EXP (Any one person)	\$		
								PERSONAL & ADV INJURY	\$		
	GEN'L AGGREGATE LIMIT APPLIES PER:							GENERAL AGGREGATE	\$		
	POLICY PRO- JECT LOC							PRODUCTS - COMP/OP AGG	\$		
	OTHER:							7.11.02.00.10 00.11.701 71.00	\$		
	AUTOMOBILE LIABILITY							COMBINED SINGLE LIMIT	\$		
	ANY AUTO							(Ea accident) BODILY INJURY (Per person)	\$		
	OWNED SCHEDULED							BODILY INJURY (Per accident)	\$		
	AUTOS ONLY AUTOS NON-OWNED							PROPERTY DAMAGE	\$		
	AUTOS ONLY AUTOS ONLY							(Per accident)	\$		
	LIMPRELLALIAR										
	UMBRELLA LIAB OCCUR							EACH OCCURRENCE	\$		
	EXCESS LIAB CLAIMS-MADE							AGGREGATE	\$		
	DED RETENTION\$							DED OTH	\$		
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y/N							PER OTH- STATUTE ER			
	ANYPROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED?	N/A						E.L. EACH ACCIDENT	\$		
	(Mandatory in NH)							E.L. DISEASE - EA EMPLOYEE	\$		
	If yes, describe under DESCRIPTION OF OPERATIONS below							E.L. DISEASE - POLICY LIMIT	\$		
A	Professional Liability			B080113856P24		12/01/2024	12/01/2025	Each Claim	\$1,000	,000	
								Aggregate	\$1,000	,000	
DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required) RE: On-Call Construction Management, Materials Testing, and Inspection Services (2025-0613) (MSA)											
CERTIFICATE HOLDER (CANCELLATION					
City of Huntington Beach					SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.						
Attn: Director of Public Works					AUTHORIZED REPRESENTATIVE						
2000 Main Street Huntington Beach, CA 92648					Potricia a Forey						

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