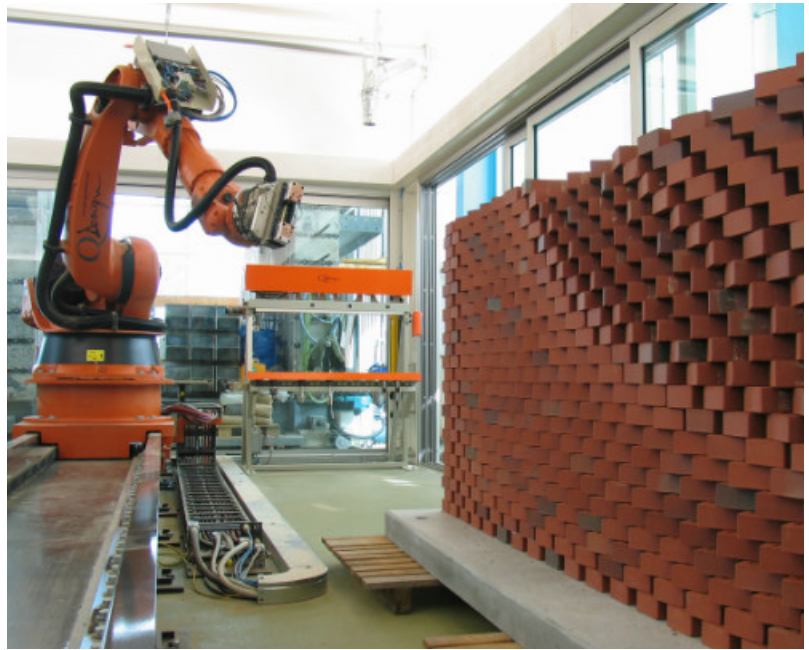


Three Emerging Technologies Impacting The Construction Industry



By **Nikhil Choudhary**,

Technology is shaping the world with everything from electric cars to hyperloop. But when it comes to the real estate construction industry, it is still underserved by technology. The construction industry contributes over 4% to the U.S. GDP, and it needs to adapt to new technologies in order to automate processes and decrease dependencies on manual labor.

However, the breakthrough technologies to make construction more efficient that have hit the market within the past five years have primed the industry for disruption. Below, read three of these technologies that I have come across and how each will shape the way we approach building in the future.

Robotics

No industry is as labor-intensive as construction. Since construction sites are uncontrolled (open) environments, it is most difficult to incorporate robotics, unlike in closed industrial environments. However, construction activities such as bricklaying are so repetitive and labor-intensive that the use of robotics is helpful to not only reduce costs, but also maintain quality and precision.

Very recently there have been breakthroughs in robotics for construction. One such pio-

neer product is the semi-automated mason — “SAM” — a bricklaying robot designed and engineered by Construction Robotics. It’s the first bricklaying robot commercially available and doesn’t actually replace a traditional mason. Rather, it works in collaboration with a mason, increasing their productivity up to five-fold.

Zak Podkaminer of Construction Robotics told me, “Construction will benefit from robotics in work that is dangerous, is repetitive, and where heavy lifting is required. [In] high precision work such as complex designs and patterns, robotics will provide a significant time savings allowing for more digital fabrication and provide architects more creative flexibility.”

While just the thought of machines replacing humans sounds alarming, the technology of collaborative robotics that can work alongside humans in order to prevent accidents and save lives is one I’m happy to see is likely here to stay.

Drone Imagery

A good site analysis is the foundation required before any construction project can be started. In parts of the developing world, access to high-

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Phone: (415) 778-6250, (800) 800-8534
Fax: (415) 778-6255**

**Publisher of
Small Business Exchange
weekly newspaper**



California Sub-Bid Request Ads



BROSAMER & WALL, INC.

An Equal Opportunity Employer is requesting quotations from all qualified DBE Professional services, sub-contractors, material suppliers and trucking for the following project:

Contract No. 04-4G8904

Bridge Seismic Retrofit

CONSTRUCTION ON STATE HIGHWAY IN CONTRA COSTA COUNTY IN RICHMOND AT SCOFIELD AVENUE UNDERCROSSING.

Bid Closing Date: April 11, 2018 @ 2:00 PM

DBE GOAL: 9%

CONTACT:

Robert Rosas

Brosamer & Wall Inc.

1777 Oakland Blvd, Suite 300 • Walnut Creek, California 94596

PH: 925-932-7900 • FAX: 925-279-2269

PROJECT SCOPE:

We are requesting bids for the following trades and/or material suppliers:

Brosamer & Wall Inc., is requesting quotes from all qualified subcontractors and suppliers including certified DBE firms for all items of work type, including but not limited to:

- TEMPORARY BRACING
- CORE DRILLING
- EROSION CONTROL
- FENCE
- GRADING
- JACKING
- LEAD PLAN
- SEISMIC MATERIAL SUPPLIERS
- METAL FABRICATORS
- PAINTING
- REBAR
- SCHEDULING
- STRUCTURE CONCRETE
- SWEEPING
- TEMPORARY SUPPORT
- TRAFFIC CONTROL

For the complete list of the Actual Project Bid Items go to:
<http://www.dot.ca.gov/des/oe/weekly-ads/oe-biditems.php?q=04-4G8904>

Requirements: Brosamer & Wall, Inc. will work with interested subcontractors/suppliers to identify opportunities to break down items into economically feasible packages to facilitate DBE Participation. Brosamer & Wall, Inc. is a union signatory contractor. Subcontractors must possess a current contractor's license, insurance coverage and worker's compensation for the entire length of the contract.

All subcontractors will be required to sign our standard Subcontract Agreement. 100% payment and performance bonds may be required. If you have any questions regarding this project or need assistance in obtaining/waiving insurance, bonding, equipment, materials and/or supplies please call or email Robert Rosas contact information below.

Plans and specifications can be viewed at our office located at 1777 Oakland Blvd Suite 300, Walnut Creek, Ca. 94596 or at no cost from Caltrans website. B&W will also make plans electronically please email rrosas@brosamerwall.com for free online link. Brosamer & Wall Inc., intends to work cooperatively with all qualified firms seeking work on this project. If you are interested in submitting a subcontractor bid for this project, you may contact Robert Rosas Chief Estimator at 925-932-7900 or fax us your quote at 925-279-2269. PLEASE SUBMIT A COPY OF YOUR CURRENT DBE CERTIFICATION WITH YOUR BID. Subcontractors, Dealers/Suppliers and Brokers please provide your designation code to us on or before the bid date. B&W, INC., IS AN EQUAL OPPORTUNITY EMPLOYER.

PROJECT: AC WATER & SEWER GROUP 1020 • CITY OF SAN DIEGO

CITY OF SAN DIEGO CONTRACT # K-18-1726-DBB-3

****THIS PROJECT HAS A 22.3% SLBE-ELBE GOAL****

BID DATE: MARCH 16TH, 2018 BID TIME: 2:00 P.M. **Please respond by 5:00 p.m., MARCH 15TH, 2018**

Coffman Specialties, Inc. (CSI) is requesting quotes from all qualified & certified SLBE & ELBE subcontractors and suppliers for the following items of work, including but not limited to:

- TRUCKING
- LEAD COMPLIANCE PLAN
- ARCHAEOLOGICAL & BIOLOGICAL MONITORING
- ASBESTOS HANDLING AND DISPOSE
- WATER/WASTEWATER SUPPLY
- VIDEO RECORDING & INSPECTION
- STRIPING/PAVEMENT MARKING
- CURB & GUTTER
- CONSTRUCTION AREA SIGNS/ROADSIDE SIGNS
- TRAFFIC CONTROL
- STREET SWEEPING
- COLD PLANE
- WATER TRUCK & EQUIPMENT RENTAL
- EARTHWORK/GRADING/ROADWAY EXCAVATION
- EROSION CONTROL
- ASPHALT SUPPLY
- MINOR CONCRETE
- LANDSCAPING/IRRIGATION
- AC OIL SUPPLY & HAUL
- CLEAR & GRUB
- UNDERGROUND UTILITIES
- ELECTRICAL
- CATHODIC PROTECTION
- JACK & BORE
- SWPPP/WPC
- AGGREGATE SUPPLY AGGREGATE BASE
- SURVEY/QC

Coffman Specialties, Inc. is signatory to Operating Engineers, Laborers, Teamsters, Cement Masons and Carpenters unions. Quotations must be valid for the same duration as specified by the Owner for contract award. Insurance and 100% Payment & Performance Bonds will be required, and will pay up to 1.5% for the cost of the bond. Waiver of Subrogation will be required. We will provide assistance/advice with obtaining Bonds/Insurance/Credit/Equipment/Materials and/or supplies. Subcontractors must provide contractor's license number and Department of Industrial Relations (DIR) registration number with their quote. **Plans and specs are available at no cost to interested firms from the CITY OF SAN DIEGO/PLANET BIDS using the Project ID # K-18-1726-DBB-3 and/or our San Diego Office.** We are an EOE & seriously intend to negotiate with qualified firms.

****Please send quotes via email to estimating@coffmanspecialties.com or via fax to (858) 586-0164**

If you have any questions or need further information, please contact Joe Eckardt @ (858) 536-3100 or email estimating@coffmanspecialties.com



9685 Via Excelencia, Ste 200 • San Diego, CA 92126

Phone: (858) 536-3100 • Bid Fax: (858) 586-0164 • e-mail inquiries to: estimating@coffmanspecialties.com

Ghirardelli Associates, Inc.
(a DBE/SBE/WBE certified Construction Management firm)

300 Frank H Ogawa Plaza, Suite 229,
Oakland CA 94612 | (510) 451-4180 |
outreach@ghirardelliassoc.com

We are requesting qualifications from all DBE/SBE subconsultants for the following:

Bay Area Rapid Transit (BART) District Construction Management Services for BART Projects, RFP No. 6M8132

Proposal Due Date: March 27, 2018 @ 2PM

We are seeking teaming partners with Systems Inspection, Electrical Inspection, Quality Assurance, Scheduling, and Estimating as it relates to commuter rail projects.

If you are interested, email outreach@ghirardelliassoc.com with Subject Line "BART 6M8132 Opps" to receive an email with our request to evaluate your qualifications and a link to download the RFP.

Ghirardelli Associates, Inc. is an Equal Opportunity Employer. Plans and Specs are available to view at our office. We will assist interested DBEs with obtaining insurance, equipment, supplies, materials, and related services.

Gordon N. Ball, Inc. is requesting sub-bids from qualified DBE subcontractors, suppliers, manufacturers, and truckers for:
Contra Costa County Public Works Department,
255 Glacier Drive, Martinez, CA

Project: Marsh Creek Road Bridge Replacement

Project No. 0662-6R4079

Engineer Estimate: \$4,877,000

No. of Working Days: 155

Bid Due Date: 3/13/18 at 2 PM

For the following (but not limited to) work: 28" Drilled Hole, Bar Reinforcing Steel, Biologist, Bridge Removal, Class 2 AB, Clearing and Grubbing, Cold Plane AC Pavement, Construction Area Signs, Construction Materials, Erosion Control, HMA Type A, Lead Compliance Plan, Portable Changeable Message Sign, Prepare SWPPP, Roadway Excavation, Rock Slope Protection, Steel Soldier Pile (HP 14 X 102), Striping Work, Structural Concrete, Temporary Erosion Control, Timber Lagging, Traffic Control System, Tree Removal, and Trucking.

If you are interested in bidding on this work or know someone who is, please contact Serina Sirna at 925-838-5675 Fax: 925-838-5915.

Plans, Specifications, and Requirements for the project are available for review at our office in Alamo or at the Contra Costa County Public Works Department, 255 Glacier Drive, Martinez, CA 94553 and are available for purchase online at www.cccounty.us/pwprojects.

For assistance in obtaining bonds, lines of credit, and/or insurance for this project please contact Serina at the noted phone number.

Gordon N. Ball, Inc.

333 Camille Ave., Alamo, CA 94507

www.ballconco.com

Contact: Serina Sirna

Phone: (925) 838-5675 Fax: (925) 838-5915

estimating@ballconco.com

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California Sub-Bid Request Ads

HAYWARD BAKER

A Keller Company



DBE SUBCONTRACTORS/SUPPLIER BIDS/
PROPOSALS REQUESTED

CONTRACT NO. C1146-2

Metro Facilities Grouting and Water Remediation
BID/PROPOSAL SUBMITTAL DATE:
MARCH 19, 2018 @ 2:00 PM

OWNER: LOS ANGELES COUNTY METROPOLITAN
TRANSPORTATION AUTHORITY (LACMTA)

PERFORMANCE/PAYMENT/ SUPPLY BOND AND
INSURANCE MAY BE REQUIRED

(ASSISTANCE OBTAINING BONDS AND INSUR-
ANCE IS AVAILABLE)

THIS ADVERTISEMENT IS IN RESPONSE TO
LACMTA'S DBE PROGRAM.
HBI. INTENDS TO CONDUCT ITSELF IN "GOOD
FAITH" WITH DBE FIRMS REGARDING
PARTICIPATION ON THIS PROJECT.
DRAWINGS AND SPECS CAN BE REVIEWED IN
OUR OFFICE (1780 E. LEMONWOOD DRIVE,
SANTA PAULA, CA 93060) MONDAY
THROUGH FRIDAY, 8:00 AM TO 5:00 PM OR AT
[https://www.dropbox.com/sh/zhbnwgmfvakvbtv/
AADPenQv4tJLJXLcKpM-dobOa?dl=0](https://www.dropbox.com/sh/zhbnwgmfvakvbtv/AADPenQv4tJLJXLcKpM-dobOa?dl=0).

QUOTES ARE REQUIRED BY COB, MARCH 16,
2018, SO THAT ALL BIDS/PROPOSALS
CAN BE FAIRLY EVALUATED. PLEASE SUBMIT
BIDS/PROPOSALS FOR THE
FOLLOWING WORK (BUT NOT LIMITED TO):
FABRICATED STRUCTURAL METAL
MANUFACTURING, GENERAL FREIGHT
TRUCKING, REBAR, ELECTRICAL AND
OTHER WIRING INSTALLATION CONTRACTORS,
MECHANICAL CONTRACTORS,
PLUMBING HEATING AND AIR-CONDITIONING
CONTRACTORS

CONTACT: DANE TAYLOR, PROJECT MANAGER
1780 E. LEMONWOOD DRIVE
SANTA PAULA, CA 93060
PHONE: (805) 933-1331 FAX: (805) 933-1338
DCTAYLOR@HAYWARDBAKER.COM

PARSONS

Parsons, as a Prime Contractor,
is seeking subcontractor and supplier quotes
from Local Business Enterprise (LBE) firms,
and qualified Disadvantaged Business Enterprise
(DBE) firms, including certified SBE, MBE, WBE
companies, for the following project:

Project Name: **Junita Millender-McDonald CRWRP
Phase II Expansion Project**

Project Owner: **West Basin Municipal District**
Bid Date: **March 15, 2018 @ 2:00 pm**

Project location:
21029 S. Wilmington Ave., Carson, CA

FOR ACCESS TO PROJECT BIDDING
INFORMATION, PLEASE SEND AN EMAIL TO
ESTIMATING@PARSONS.COM WITH YOUR
COMPANY CONTACT INFORMATION

Scopes of work, services and equipment requested
include, but are not limited to:

Aggregates, Asphalt Paving, Cathodic Protection, CIP
Concrete, Concrete Pumping, Conveying Systems,
Cranes, Dewatering, Doors & Windows, Earthwork,
Electrical, Erosion Control, Ext. Improvements, Fences
& Gates, Finishes, FRP Tanks, Geotextiles, Joint
Sealants, Masonry, Mechanical, Membrane Roof-
ing, Metals, Metal Decking, Metal Bldg. Specialties,
Painting, Piping, Precast Concrete, Ready Mix Supply,
Rebar, Roofing Insulation, Shoring, Soil Stabilization,
Thermal & Moisture Protection, Utilities, Valves, Water/
WW Equipment, Waterproofing, Woods, Plastics
& Composites

For questions or assistance with project
plans and specifications, bonding, insurance,
and lines of credit, please contact Victoria Shirley
at estimating@parsons.com

Please send quotes and required forms
in advance of the bid or by **March 15, 2018 @ 2pm**
to estimating@parsons.com or fax to (626) 440-2110.

DBE Subs and Suppliers are strongly
encouraged to participate and partner
with other DBE firms.

Parsons
100 W. Walnut Street, Pasadena, CA 91124
Phone: (626) 440-6235
Parsons, is an Equal Opportunity Employer



Proven Management, Inc.
225 3rd Street, Oakland, CA 94607
Phone: 510-671-0000 • Fax: 510-671-1000

Proven Management, Inc., is requesting proposals
for services from qualified DBE subcontractors,
suppliers, and other service providers for:
Contra Costa County Public Works Dept.,
255 Glacier Drive, Martinez, California.

**MARSH CREEK ROAD BRIDGE REPLACEMENT
County Project No. 0662-6R4079
Federal Project No. BRLS 5928 (107)
Bids: March 13, 2018 @ 2pm**

For the following work including, but not limited to:
Traffic Control; SWPPP; Earthwork; Erosion
Control; Finishing Roadway; Hot-Mix Asphalt;
Piling; Pre-stressed Concrete; Concrete Structures;
Misc Metals; Fences; Signs & Markers; Railings &
Barriers; Markings; Concrete; Geosynthetics

Bonding, insurance, lines of credit and any technical assistance
or information related to the plans & specifications
& requirements for the work will be made available to interested
DBE firms. Assistance with obtaining necessary
equipment, supplies, materials, or related assistance or
services for this project will also be offered to interested
DBE certified firms.

100% Payment & Performance bonds will be required from
a single, Treasury-listed surety company subject to PMI's
approval. PMI will pay bond premium up to 1.5%. Sub-
contractors awarded on any project will be on PMI's standard
form for subcontract without any modifications. For ques-
tions or assistance required on the above, please call Ben
Pearce at 510-671-0000.

We are an Equal Opportunity Employer

REQUESTING BIDS FROM
DBE/MBE/WBE/SBE/LBE/DVBE/OBE

Subcontractors and Vendors

Project: **Solar Panels on Milpitas
Parking Garage, Milpitas, CA**

Reference #: **C744(C17207F)**
Owner: **Santa Clara Valley**

Transportation Authority (VTA)

Bid date: **March 12, 2018 @ 2:00 pm**

DMZ Builders is bidding the above referenced
project as a Prime Contractor. We are requesting
bids from the following trades/vendors/suppliers:

1. Fire Protection Design and Installation of Solar
Photovoltaic (PV) Fire Sprinkler System,
Fire Alarm and Tamper Components
2. Furnish PV Panels and Electrical Components
3. LED lighting fixtures for new Solar Canopy
4. Structural Steel Supports for new roof top solar
PV system

Plans and specifications can be obtained from
<http://www.vta.org/about-us/procurement>.

Technical questions or assistance can be
obtained from Brady Poepping, Estimating at
916-919-0181 or fax 925-825-5400 or email
bpoepping@dmzbuilders.com.

Please send quotes to: estimating@dmzbuilders.com
or fax to 925-826-5766 at least by close of
business on 3/11/2018 and include any certifica-
tion you may have. Please contact DMZ if you
require assistance in obtaining bonding, lines of
credit, insurance, equipment, supplies, materials
or technical assistance.

DMZ BUILDERS
4070 Nelson Avenue, Ste A,
Concord, CA 94520
Phone 925-826-5387 • Fax: 925-825-5400
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California Sub-Bid Request Ads



O.C. Jones & Sons, Inc.
1520 Fourth Street • Berkeley, CA 94710
Phone: 510-526-3424 • FAX: 510-526-0990
Contact: Jean Sicard

REQUEST FOR MBE/WBE
SUBCONTRACTORS AND SUPPLIERS FOR:

**The Resurfacing of Del Valle Road from Mines Road
To the Mile Marker 3.9 in the Eastern
Unincorporated Areas of Alameda County, CA
Alameda County Public Works
BID DATE: March 29, 2018 @ 2:00 PM**

We are soliciting quotes for (including but not limited to): Trucking, Water Pollution Control, Sweeping, Traffic Control, Cold Plane Keycut, Inlet Protection, Standard Concrete Monument, Survey Monument Preservation, Striping & Marking, Crack Seal, Road-side Signs and Construction Materials

An Equal Opportunity Employer

100% Performance & Payment Bonds may be required. Worker's Compensation Waiver of Subrogation required. Please call OCJ for assistance with bonding, insurance, necessary equipment, material and/or supplies. OCJ is willing to breakout any portion of work to encourage MBE/WBE Participation. Plans & Specs are available for viewing at our office.

CAHILL/HERCULES

requests bids from Certified SBE Subcontractors and Suppliers for the following
DESIGN-BUILD TRADES:

HVAC / Electrical / Plumbing / Fire Sprinkler / Solar Hot Water / Exterior Building Maintenance

**CANDLESTICK POINT BLOCK 11A -
DESIGN BUILD BID**

Harney Way at Candlestick Point Drive, San Francisco CA

This is an OCII project with construction workforce and prevailing wage requirements.

BID DATE: 3/15/18 @ 2 PM

Voluntary Pre-bid Meeting:
2/28/18 @ 10AM, Cahill's Office
425 California St., Suite 2200
San Francisco, CA 94104

BID DOCUMENTS: Please contact Colby for access to documents on BuildingConnected.

CAHILL CONTRACTORS, LLC
Colby Smith at estimating@cahill-sf.com
(415) 677-0611

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SBE E-Newsletter



TUTOR PERINI CORPORATION

in response to California Department of Corrections and Rehabilitation, is seeking qualified bidders including, but not limited to, certified (DVBE), (MB), (SB) and (SB/NVSA) firms for:

**Ironwood State Prison - Heating, Ventilating
and Air Conditioning System
Bid Number: C5607832-D**

Bids due March 21, 2018 at 1:30 p.m.

Address bids to:

**Tutor Perini Corp,
15901 Olden Street, Sylmar, CA 91342
Attention: Shimon Barak
(818)362-0443 (Bid Day ONLY) • (818) 362-8391
(ALL OTHER DAYS) • FAX 818-364-8128**

Scopes of work include:

Acoustical Ceilings; Asbestos, Lead Abatement; Ceramic Tiles; Chemical Treatment of Chilled Water System; Concrete Work, Rebar; Demolition / Haul off / Disposal; Design-Build Fuel Oil System and Distribution; Design-Build Thermal Energy Storage Tank; Ductwork/Piping Insulation; Electrical; Entrance Floor Mats; Excavation/Trenching and Backfill : AC Paving; CI 2 AB placement; Street Signage & striping; SWPPP/ Erosion Control; Trucking; Demolition of existing pavement; Clear & Grub; PCC Sidewalk, Valley gutters, ADA ramps; PCC pavement; Pavement Rebar; Pavement header board; Excavation & Grading; Fencing and Gates; Precast Bumpers; Off-haul and disposal of existing stored HDPE/PVC/CMP pipe at site; Furnish/Install Storm Drain piping and structures; Furnish/Install Sewer System; Furnish/Install Water System; Furnish/Install Chilled Water System; Jack and Bore Steel Casing Pipe; Expansion Control; Fire Extinguisher Cabinet (F-1); Finish Carpentry; Fire Alarm (supply/install); Hollow Metal Doors/ Finished Hardware (F-1); HVAC; HVAC Controls & Instrumentation; Insulation; Masonry; Metal Building Systems; Metal Roofing; Metal Wall Panels; Painting, Coating, Roof Coating; Plumbing; Resilient Flooring; Roofing; Sealants & Caulking; Sheet Metal Ductwork; Signage, Site Signage; Sprayed on F.P.; Storefronts, Glazing, Skylights; Structural & Misc. Metals; Studs, Gypsum, Plaster; Toilet, Bath & Laundry Accessories

All questions with regard to the bidding of this project should be directed to Shimon Barak

Phone: 818-408-5517

Email: Estimating.Building@tutorperini.com
FAX 818-364-8128

Drawings / Specifications / Insurance Requirements (Contractors Controlled Insurance Program) as well as Scope (Bid Package) are available upon request.

Please email: Pauline.Rocha@tutorperini.com •
Phone: 818-362-8391

**TUTOR PERINI CORPORATION INTENDS TO
CONDUCT ITSELF IN GOOD FAITH
WITH (DVBE), (MB), (SB), AND (SB/NVSA)
BUSINESSES REGARDING PARTICIPATION
ON THIS PROJECT**

**NOTE: ASSISTANCE WILL BE GIVEN IN
OBTAINING BONDS, LINES OF CREDIT AND/
OR INSURANCE AS WELL AS NECESSARY
EQUIPMENT, SUPPLIES, MATERIALS OR
RELATED SERVICES**

TPC is an Equal Opportunity Employer

DESILVA GATES
CONSTRUCTION

11555 Dublin Boulevard • P.O. Box 2909
Dublin, CA 94568-2909
(925) 829-9220 / FAX (925) 803-4263
Estimator: Jim Yackley
Website: www.desilvagates.com
An Equal Opportunity Employer

DeSilva Gates Construction (DGC)
is preparing a bid as a Prime Contractor
for the project listed below:

**CALTRANS ROUTE 20 – CONSTRUCTION ON
STATE HIGHWAY IN COLUSA COUNTY IN AND
NEAR COLUSA FROM CYNTHIA DRIVE TO
NIAGARA AVENUE AND FROM 0.3 MILE WEST
OF STEIDLMEYER ROAD TO SACRAMENTO
RIVER BRIDGE, Contract No. 03-0G7404
Federal Aid Project No. ACNH-P020(178)E,
Disadvantaged Business Enterprise Goal**

Assigned is 12%

OWNER:

**STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
1727 30th Street, Bidder's Exchange, MS 26,
Sacramento, CA 95816**

BID DATE: MARCH 13, 2018 @ 2:00 P.M.

DGC is soliciting quotations from certified Disadvantaged Business Enterprises, for the following types of work and supplies/materials including but not limited to:

COLD PLANE, CONSTRUCTION AREA SIGNS, ELECTRICAL, EMULSION SUPPLIER, LEAD COMPLIANCE PLAN, RUMBLE STRIP, STRIPING, SWPPP/WATER POLLUTION CONTROL PLAN PREPARATION, TRAFFIC CONTROL SYSTEMS, TRUCKING, WATER TRUCKS, STREET SWEEPING, RUBBERIZED HMA (OPEN GRADE) MATERIAL.

Plans and specifications may be reviewed at our offices located at 11555 Dublin Boulevard, Dublin, CA or 7700 College Town Drive, Sacramento, CA, or at your local Builders Exchange, or reviewed and downloaded from the ftp site at <ftp://ftp%25desilvagates.com:17pa55wd@pub.desilvagates.com> (if prompted the username is ftp@desilvagates.com and password is 17pa55wd) or from the Owner's site at www.dot.ca.gov/hq/esc/oe/weekly_adv/all_adv_projects.php

Fax your bid to (925) 803-4263 to the attention of Estimator Jim Yackley. If you have questions for the Estimator, call at (925) 829-9220. When submitting any public works bid please include your DUNS number and DIR number. For questions regarding registration for DIR use the link at: www.dir.ca.gov/Public-Works/PublicWorks.html

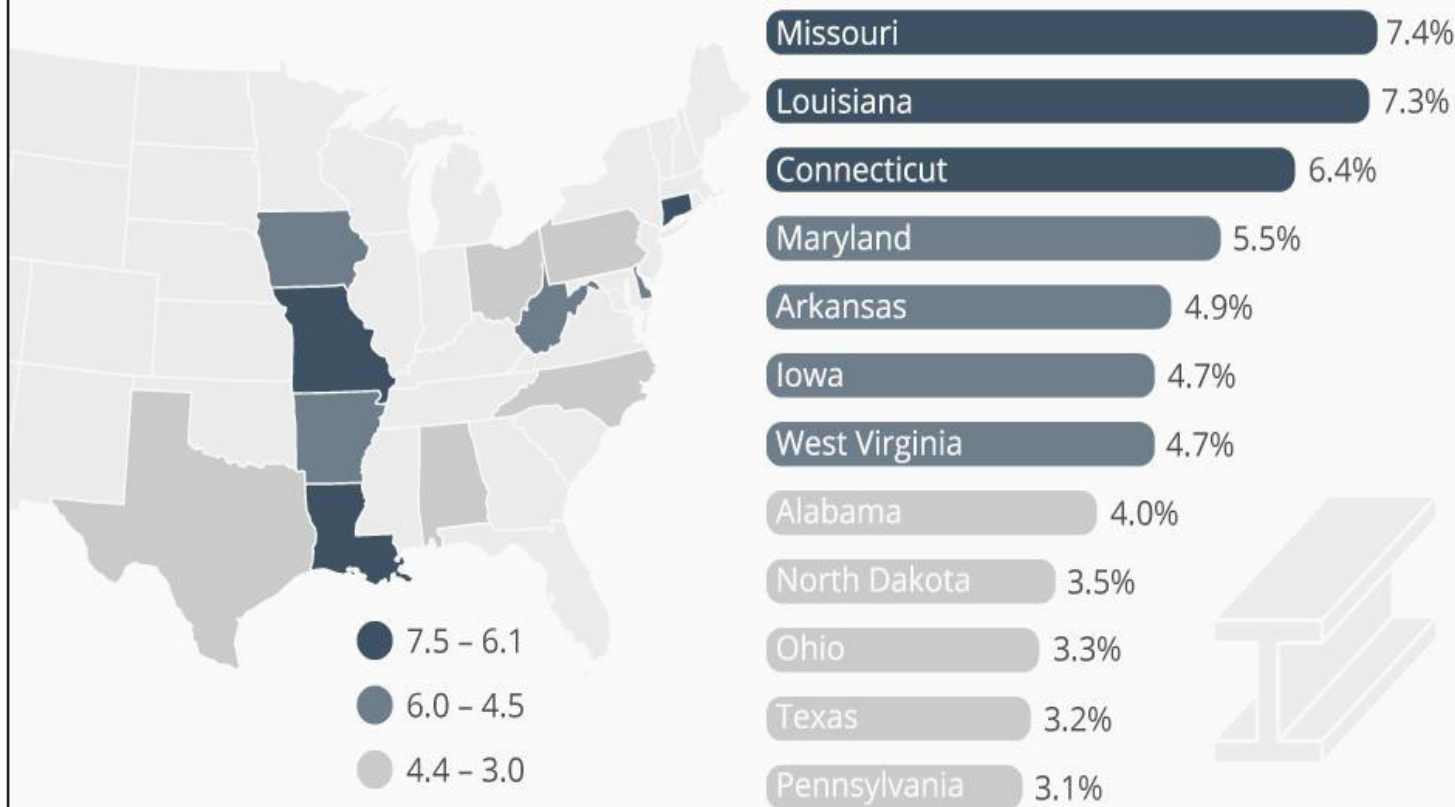
If you need DBE support services and assistance in obtaining bonding, lines of credit, insurance, necessary equipment, materials and/or supplies or related assistance or services, for this project call the Estimator at (925) 829-9220, or contact your local Small Business Development Center Network (<http://californiasbdc.org>) or contact the California Southwest Transportation Resource Center (www.transportation.gov/osdbu/SBTRCs). DGC is willing to breakout portions of work to increase the expectation of meeting the DBE goal.

At our discretion, 100% Payment and 100% Performance bonds may be required as a subcontract condition. This will be a PREVAILING WAGE JOB. DGC is an equal opportunity employer.

The U.S. States Most Reliant On Steel Imports

The U.S. States Most Reliant On Steel Imports

Percentage share of steel and aluminum in state total imports in 2017



@StatistaCharts Source: Brookings analysis of Census Bureau data



By Niall McCarthy,

On Thursday, the Trump administration announced it was imposing tariffs on steel and aluminum imports of 25 and 10 percent respectively, arguing they were justified on the grounds of national security and necessary to fight back against an “assault on our country” by foreign competitors. On the campaign trail, Donald Trump promised to save the American steel and aluminum industries, which have been hurt by imports of cheaper products. While the move to impose tariffs fits in perfectly with his “America First” policy, there are growing fears about its consequences.

It has already caused serious friction within the Republican Party, where there are fears of a trade war, and some have questioned whether it will undermine decades of progress in international trade. One of the core questions is whether or not protectionism could impact U.S. economic growth, particularly at state lev-

el. While the tariffs may throw American steel and aluminum companies a lifeline in a market flooded by foreign competition, they have already had consequences such as the imposition of retaliatory tariffs on important American exports to other countries. Higher prices for steel and aluminum could also have a knock-on effect in U.S. states, impacting a huge range of important industries such as construction and auto manufacturing.

The following infographic was created using a Brookings Institute analysis of Census Bureau data and it shows the states most likely to be impacted by the new tariffs. Steel and aluminum accounted for the biggest share of total imports in Missouri and Louisiana last year at just over seven percent. Louisiana is especially reliant on foreign steel for its oil, gas and petrochemical industries. Canada and Mexico were granted exclusions from the tariffs, though Trump threatened that could change depending

on the outcome of NAFTA renegotiation talks. Last year, the U.S. imported 5.7 million metric tons of steel from Canada, the highest amount of any country, while 3.2 million tons came from Mexico. Even so, the impact could still prove severe in certain places with many states counting on a longer list of countries to meet their steel needs. Illinois is a good example, relying on Brazil for 41 percent of its steel and China for 29 percent of its aluminum.

About the author

I am a Statista data journalist, covering technological, societal and media topics through visual representation. In fact, I love to write about all trending topics, illustrating patterns and trends in a quick, clear and meaningful way. Our work at Statista has been featured in publications including Mashable, the Wall Street Journal and Business Insider.

SOURCE: www.forbes.com



California Sub-Bid Request Ads

Barnard Bessac Joint Venture DBE Opportunities

Barnard Bessac Joint Venture, an Equal Opportunity Employer, is seeking quotes from interested and qualified Disadvantaged Business Enterprises (DBE's) and other subcontractors and suppliers for the following:

PROJECT:

Gravity Pipeline Progressive Design Build Project
OWNER: Silicon Valley Clean Water

Deadline: September 28, 2018

Firms that are certified by one of the following programs are qualified: Entities owned and/or controlled by socially and economically disadvantaged individuals, MBE, WBE, SBE, SBRA, LSAF and HUB.

OPPORTUNITIES INCLUDE:

Shaft - Slurry wall; Shaft - Secant pile; Jet Groat; Earth Pressure Balance Tunnel Boring Machine fabrication & delivery; Concrete foundations (flat work); Concrete demolition & off-haul (shallow structures); Site clearing & grading; Site fencing; Trucking (spoils off-haul & disposal); Temporary modular office trailer supply & installation; Office Janitorial services; Office Supplies; Security; Quality control testing and other laboratory testing services; Trucking of materials & equipment; Equipment rental (Loaders, Skidsteers, Excavators, Manlifts, Forklifts); Raw material supply (iron/steel, consumables, fluids); Fabrication; Jobsite supplies (PPE, tools, etc...); Printing services (plotting / signs / banners); Traffic control supply and/or services; Utility relocation; Trench excavation and shoring; Sheet pile installation; Potholing; Geotechnical investigation (Borings, CPT's); Instrumentation & Monitoring; Pre-condition surveys (buildings, roadways, utilities); Tunnel precast segmental lining manufacturing; Supply of moulds for precast segmental lining; Rebar supply and/or installation; Ready-Mix concrete supply; Street sweeping / cleaning; Utility inspections; Water treatment systems; Concrete pumping and placing; Dimensional lumber supply; and Paving subcontractors.

If interested in bidding, please contact:

Shannon Cozino:

shannon.cozino@barnard-inc.com (site office)

Susie Howells:

susie.howells@barnard-inc.com (HQ office)

DBE Subcontractors/Supplier Bids/Proposals Requested

Contract No. C40403C1151

Purple Line Extension Section 3 Tunnels Project - Design/Build

Bid Proposal Submittal Date

March 23, 2018 at 2:00 P.M.

Owner: Los Angeles County Metropolitan Transportation Authority (LACMTA)

Performance/Payment/Supply Bond may be required

This advertisement is in response to LACMTA's DBE Program, Barnard Obayashi SELI, JV intends to conduct itself in "Good Faith" with DBE firms regarding participation on this project. Drawings and specs will be available via iSqFt. Quotes are required by COB March 9, 2018. Quotes are fairly evaluated.

Please submit bids/proposals for the following work (but not limited to): Excavation; Potholing; Aggregates; Traffic Control; Trucking; Utility Installation; Electrical; Instrumentation and Monitoring; Environmental; Permitting; QA/QC Inspection; Armed Site Security; Survey; Curb, Gutter and Sidewalk; Asphalt; Tree Removal; Site Demolition and Restoration.

Contact: Tonya Topping
Barnard Obayashi SELI, JV
701 Gold Ave., Bozeman, MT 59715
406-586-1995 Fax: 406-586-3530
Email PL3@barnard-inc.com

MCCARTHY

3721 Douglas Blvd., #180 Roseville, CA 95661
Phone: 916-786-3833 Fax: 916-786-3234

McCarthy Building Companies, Inc. is requesting quotes from all certified DVBE subcontractors

INVITATION TO BID

Roseville Joint Union High School District New Sixth High School
(West Park Comprehensive High School)

Bids will be accepted on or before March 30th 2018 at 2:00 PM (PST).

- Via "BuildingConnected" - <https://app.buildingconnected.com/>
- by email to Jason Dreier JDreier@mccarthy.com
- or Delivered to McCarthy Building Companies, 3721 Douglas Blvd., #180 Roseville, CA 95661

Pre-Bid RFI Deadline: March 21, 2018 at 2:00 PM (PST). Submit RFIs to Pamela Culbertson (PCulbertson@McCarthy.com) and Serge Karageorgiou (SKarageorgiou@mccarthy.com).

Project Location: Between Westpark Drive and Hayden Parkway, north of Bob Doyle Drive in Roseville, CA 95747

Project Description:

Construct the West Park comprehensive High School, including but not limited to: site work; a 4,500 seat stadium; a 2,100 seat gymnasium with classrooms and locker rooms; a baseball field; a 500 seat football field/track stadium with restroom building; hard courts; classroom buildings; the school's main kitchen with an outdoor covered seating area; administration building; parking lots; and ancillary buildings/structures. McCarthy is seeking bids from qualified DVBE contractors. This project is subject to the regulations set forth by AB 566.

Public Contract Code Section 20111.6: Prequalification in compliance with Public Contract Code section 20111.6 is required for this Project. Subcontractors subject to these requirements are those with any of the following **license classifications: C-4, C-7, C-10, C-16, C-20, C-34, C-36, C-38, C-42, C-43, and C-46.** The District's prequalification application is available on the Internet at www.rjuhsd.com/domain/16 or can be obtained at the Facilities Development Department. **The prequalification application deadline is March 16, 2018.**

Public Works Registration Requirement: Notice is hereby given that this project is a public works project within the requirements of Division 2, Part 7, Chapter 1 of the California Labor Code, and that the LLB Entity and its subcontractors are required to be registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5 at the time of bidding. The LLB (lease-leaseback) Entity and its subcontractors, truckers and any suppliers and/or vendors subject to California's prevailing wage laws must be registered with the Department of Industrial Relations prior to the due date for Proposals on this RFP.

BID DOCUMENTS: Are available at ARC Northern Ca Public Planroom: https://order.e-arc.com/arcoc/pwell_main.asp and ARC Roseville: 106 N. Sunrise Avenue, Suite C-4; Roseville, CA 95661; (916) 782-8000.

Shimmick Construction Company Inc.

8201 Edgewater Drive, Suite 202 • Oakland, CA 94621
Phone (510) 777-5000 • Fax (510) 777-5099

DBE Subcontractor/Supplier Bids Requested For:

San Francisco Bay Area Rapid Transit District
TBT Cathodic Protection Reference Cell Replacement

Contract No. 09DJ-150A

Bid Date: April 17, 2018 at 2:00PM

Fax all quotes to 510-777-5099

Requesting certified DBE Subcontractor and Supplier Quotes on: **Electrical, Conduit Wire & Terminations for cathodic Protection System.**

IMPORTANT: This is a security sensitive contract and all 3rd party firms must sign a Non-Disclosure Agreement with BART before being allowed access to the plans and specifications. To begin the NDA process, please contact Jamie Helmick at jhelmick@shimmick.com. **NDA Packages must be submitted to BART by Monday, March 5th, 2018 @ 4pm.**

Security cleared Subcontractors and Suppliers interested in this project may contact Greg Adams by email at gadams@shimmick.com.

100% Performance and Payment bonds with a surety company subject to approval of Shimmick Construction Company, Inc. are required of subcontractors for this project. Shimmick Construction will pay bond premium up to 1.5%. Subcontractors will be required to abide by terms and conditions of the AGC Master Labor Agreements and to execute an agreement utilizing the latest SCCI Long Form Standard Subcontract incorporating prime contract terms and conditions, including payment provisions. Shimmick Construction's listing of a Subcontractor is not to be construed as an acceptance of all of the Subcontractor's conditions or exceptions included with the Subcontractor's price quote. Shimmick Construction requires that Subcontractors and Suppliers price quotes be provided at a reasonable time prior to the bid deadline to enable a complete evaluation. **For assistance with bonding, insurance or lines of credit contact Scott Fairgrieve at (510) 777-5000.**

Diversity is a reason for optimism



By William H. Frey,

As the waves from the nation's "Diversity Explosion" ripple out, young generations of new minorities—Hispanics, Asians, and multiracial Americans—are interacting with older minorities and white Americans in their pursuit of opportunities in a country that is in dire need of more youth. As the management textbooks might say, the growth of young, new minority populations from recent immigration and somewhat higher fertility is providing the country with a "just in time" demographic infusion as the largely white U.S. population continues to age.

Even though great disparities exist in wealth, income, and education between white and minority Americans, I think these demographic shifts are a reason for optimism. Opportunities will increase when the institutional players across our country—politicians, civic leaders, nonprofit leaders, and employers—recognize the potential of this new, more diverse generation.

Not least is the benefit to Social Security and other entitlement programs: in contrast to the population of labor-force age in Japan, Germany, Italy, and the United Kingdom—countries with generally older populations, lower fertility, and lower

immigration—the U.S. labor-force-age population is projected to grow more than five percent between 2010 and 2030. Yet were it not for new minorities, the country's labor force would decline by eight percent. Moreover, within the labor force, new minorities add needed youthfulness that brings with it innovation and an entrepreneurial spirit. Projections of the labor force show that in 2030, 54 percent of new minorities will be under age 40, compared to well under half of the rest of the labor force population.

SOURCE: www.brookings.edu

Wage discrimination in construction industry makes minimum standards a good idea Diversity

By Hilda L. Solis,

Equal pay for equal work remains elusive, even here in progressive California.

A recent study by Smart Cities Preval showed that Latinos make up two thirds of the construction workforce, yet only make about 70 cents on the dollar of white workers with the same skills. The study noted that Latino construction workers also are significantly more likely to be uninsured and to struggle with housing affordability.

Low minimum wage standards are one factor that contributes to these types of disparities.

California legislators are soon expected to consider streamlining development of more housing across our state. At its core, the proposal involves removing certain regulatory hurdles in exchange for guarantees that a small percentage of new developments will include "affordable" units.

A similar effort failed last year when no agreement was reached on wage standards for workers on streamlined projects.

According to industry research, workers' wages and benefits are just 15 percent of the total cost of constructing housing. By comparison, profits for developers and contractors are 18 percent of costs and growing faster than the cost of labor.

And while inflation-adjusted construction wages are down 25 percent over the last 20 years, hous-

ing prices have soared as much as 54 percent in some markets. Declining wages mean more worker reliance on MediCaid, Food Stamps and other assistance programs.

And with labor standards being eroded, other problems have become more pervasive.

For example, wage theft occurs when employees are paid for fewer hours than they worked, less than legally required, or when their employer is paying in cash and cheating on payroll taxes. California's construction industry has seen a 400 percent increase in wage theft since the 1970s—a period that has also seen a dramatic increase in the share of immigrants in our construction workforce.

A recent study by the Economic Roundtable found that one in six California construction workers is now affected by these crimes. Construction wage theft's annual cost to California workers and taxpayers is in the billions of dollars.

By including things like prevailing wage in a housing streamlining package, California can take an important step in combatting this cycle of exploitation.

Prevailing wage requirements provide a livable, minimum pay rate for construction workers that is consistent with local market standards. By stabilizing the wage floor, the requirement closes pay gaps that disproportionately impact commu-

nities of color, decreases the likelihood of working people living in poverty, increases rates of health coverage and increases the probability of a non-white individual pursuing a career in construction.

Prevailing wage also increases participation in skilled trade apprenticeship programs. These programs not only expand a worker's lifetime earnings by as much as \$240,000, but enable construction workers to acquire skills that improve safety, productivity and efficiency on the jobsite. These skills are essential if we hope to boost housing supply in sufficient quantities to close the affordability gap.

To formulate sound policy consistent with California's values, we need to have an honest conversation about how we arrived at our present crisis. By depressing wages and productivity and turning a blind eye to the growing wage theft epidemic, industry profits have exploded. But so has the income gap within the industry, as well as the number of Californians priced out of the housing market.

Something isn't working.

In housing reform, we are being asked to de-regulate one of our state's most lucrative industries. In return, aren't taxpayers entitled to ask that this industry do right by its workers?

SOURCE: www.mercurynews.com

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Why These Three Southern Cities Attract The Most Black Entrepreneurs

By *Brittney Oliver*,

There are currently 2.5 million businesses owned and operated by African-Americans, according to the U.S. Census's most recent survey of business owners.

Although black entrepreneurship is on the rise, black founders are still receiving less VC funding than their white peers and have limited access to capital. Less than 1% of black founders receive funding, and this lack of capital leaves many black-owned business to be operated by one person, limiting their ability to hire other employees in order to grow and build their businesses. As cost of living soars, underrepresentation and limited support for these business continues for many of these black enterprising professionals in tech hubs like New York City and Silicon Valley. However, others are thriving in the Southeast.

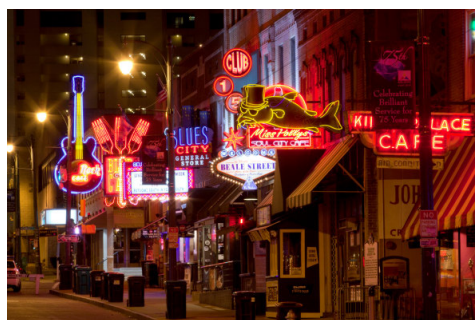
A recent report by Blacktech Week that used data from the U.S. Census Bureau Statistics Data and Kauffman Foundation's 2017 Index for Startup Activity revealed that the top three cities where black-owned businesses are thriving are Memphis, Montgomery, Alabama, and Atlanta.

With a large number of African-Americans residing in the Southeast, a low cost of living, an increase in incubators like Atlanta's Digital Undivided popping up in Southeastern metro cities, along with support a historical lineage of supporting their own, black entrepreneurs are finding their niche below the Mason-Dixon line.

Mandy Bowman, the founder of the Official Black Wallstreet app and website, which has a listing of over 4,000 black-owned businesses in the U.S. (and has been downloaded over 70,000 times), isn't surprised that the Southeast is popular with black entrepreneurs. "The reason why these cities stand out so much is that the cost of living is much lower. The South also has a long history of entrepreneurship, especially through the Jim Crow era. People in these cities had no choice but to start their own businesses, and because of that history, I think it's something that's been ingrained in those cities. On top of that, these cities have a large African-American population, which is why there are many entrepreneurs in the Southeast."

There's also been an increase in new residents: In the first decade of the 2000s, there's been a reversal migration of black Americans moving to the South. According to USA Today, "From 2005 to 2010, the average result each year was a gain for the South of 66,000 blacks. Many came from the Northeast, but the flow also includes the Midwest and West." As the South attracts college-graduate crowds and retirees to economic opportunities, it's also attracting entrepreneurs to grow their businesses. There are also over 1,600 listings of black-owned businesses in the Southeast on the

Official Black Wall Street app. Here's a look at why these three cities are the top choices for black entrepreneurs.



1. Memphis

Memphis reigns supreme as the top city for black-owned businesses. It offers more than great BBQ and music. The city's low unemployment rate in comparison to Atlanta and Montgomery supports a healthy economy to start a business. Nearby Bluff City also boasts a higher percentage of black-owned businesses than Atlanta, while having a lower cost of living index.

Brooklyn native Ekundayo Bandele moved to Memphis in 1994 and found a "thriving black intellectual and cultural community" where his love for theater flourished through his playwriting and eventually led him to become the founder and executive director of Hattiloo Theatre.

"The city invested in Hattiloo Theatre, which gave us \$1.5 million to help us build our infrastructure. We started as a community theater and have worked our way to the top. The generosity of the Memphis community to volunteer their time and talent helped make Hattiloo successful. The philanthropic community of Memphis understands the equity in Memphis," he says. His only drawback is access to talent. "Since Memphis is not categorically a theater town, there aren't as many technical theater people in terms of theater arts," he says.

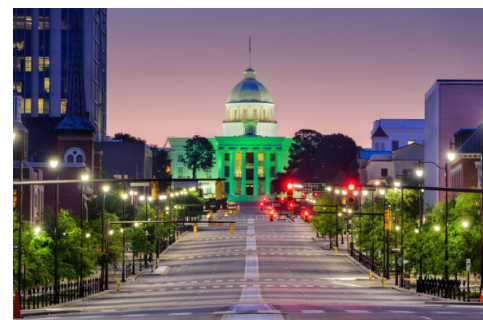
Brit Fitzpatrick, the founder and CEO of MentorMe, chose to move to Memphis because of its affordability. "The biggest advantage to starting up in Memphis as opposed to Silicon Valley is that it's more affordable. Having raised a relatively small amount of money, I was able to stretch it a little further," she explains. Proximity to other cities also makes Memphis a great choice for Fitzpatrick. "In the first two years of MentorMe, I traveled a lot to meet new customers, create partnerships, and find advisory board members. Memphis is a reasonable driving distance to cities I needed to hit."

Although the city is in an early stage in comparison to New York City and San Francisco, "Memphis has a culture of hustle and hard work. I love

that about the city. It makes it really conducive to entrepreneurship," says Fitzpatrick.

Fitzpatrick participated in a pitch event where there was support for women in tech, and it reinforced for her the decision to develop her business in Memphis. Fitzpatrick feels the growing conversation around diversity in technology now draws people in the industry outside of traditional hubs. "The Southeast and Memphis have an opportunity to play a major role in the diversity conversation. Because of the shared demographics of minority-majority cities, larger companies should look to invest more resources and capital in this region," explained Fitzpatrick.

Resources, access to capital, and lack of density are the cons Fitzpatrick faces while building her business in Memphis. "The tech community is smaller here than in a larger city, so the importance of networking throughout your region or getting connected with the tech community at large is higher. I had to prioritize it more than someone who lives in a city with a more established ecosystem," she says.



2. Montgomery, Alabama

Montgomery is the city where Dennis Wesley chose to start his business, On Time Taxi. This city houses nearly one-third of the businesses owned by African-American entrepreneurs, according to MadeInAlabama.com. "My reason for starting in Montgomery was because I knew it was less costly than starting in cities such as Atlanta and Birmingham. I started with one van two years ago, and now I have eight vehicles," he explains. He is also in the process of launching a mobile app for his taxi service and expanding to Troy and Selma. "I started as the smallest taxi service in Montgomery and became the largest in two years," he says.

Montgomery has provided Wesley with a fresh start after moving from Georgia. "Montgomery has provided me with that good old southern hospitality, which I don't think you can get in metropolitan cities. I have customers that invite me to their house for dinner, work functions, and [people with whom I've built a] friendship," Wesley explains. The relationship with his clients



Public Legal Notices



**CITY & COUNTY OF SAN FRANCISCO
DEPARTMENT OF PUBLIC WORKS**

**Contract No. 1000008639
GENERAL AS-NEEDED CONTRACT G07
CONCRETE SLICING**

Sealed bids will be received at 1155 Market Street, 4th Floor, San Francisco, California 94103 until **2:30:00 p.m. on 3/21/2018**, after which they will be publicly opened and read. Digital files of Bid Documents, Plan Holders Lists, and Addenda may be downloaded at no cost from the Public Works Electronic Bid Documents Download site at <http://www.sfpublicworks.org/biddocs>. Please visit the Contracts, Bids and Payments webpage at www.sfpublicworks.org for more information (click on Resources > Contractor Resources). Notices regarding Addenda and other bid changes will be distributed by email to Plan Holders.

The Work is sidewalk trip hazard repair using concrete slicing method at various locations in the City and County of San Francisco. The City will issue separate Work Orders which is to be the subject of Work under this Contract. The time allowed for completion is 1,095 consecutive calendar days. The Engineer's estimate is approximately \$7,000,000. For more information, contact the Project Manager, **Jerad Weiner** at 415-695-2084.

On July 1, 2014, the registration program under section 1725.5 of the California Labor Code went into effect. The program requires that all contractors and subcontractors who bid or work on a public works project register and pay an annual fee to the California Department of Industrial Relations ("DIR").

No contractor or subcontractor may be listed in a bid or awarded a contract for a public works project unless registered with the DIR as required by Labor Code section 1725.5 [with limited exceptions from this requirement for bid purposes only under Labor Code section 1771.1(a)].

This Project shall incorporate the required partnering elements for **Partnering Level 2**. Refer to Section 01 31 33 for more details.

Pursuant to San Francisco Administrative Code ("Administrative Code") Section 6.25 and Chapter 25 of the Environment Code, "Clean Construction" is required for the performance of all work.

This Contract is subject to the requirements of Administrative Code Chapter 12X, which prohibits the City from entering into any Contract with a Contractor that has its United States headquarters in a state with laws that perpetuate discrimination against LGBT populations ("Covered State") or where any or all of the work on the contract will be performed in any of those states. A list of states on the Covered State List can be found at: <https://oag.ca.gov/ab1887>.

The Specifications include liquidated damages. Contract will be on a Lump Sum Bid Items With Unit Prices basis. Progressive payments will be made.

The Contract will be awarded to the lowest responsible responsive bidder.

A bid may be rejected if the City determines that any of the bid item prices are materially unbalanced to the potential detriment of the City.

Bid discounts may be applied as per Administrative Code Chapter 14B. LBE Subcontracting Participation Requirement is **10%**. Call Lupe Arreola at 415-558-4059 for details. In accordance with Administrative Code Chapter 14B requirements, all bidders shall submit documented good faith efforts with their bids, except those who exceed the above stated LBE Subcontracting Participation Requirement by 35%. Bidders must achieve 80 out of 100 points to be deemed responsive. Bidders will receive 15 points for attending the pre-bid conference, if scheduled. Refer to CMD Form 2B.

A pre-bid conference will be held on **March 2, 2018 at 9:30 a.m.** at the Training Trailer at 2323 Cesar Chavez Street, San Francisco, CA 94124.

For information on the City's Surety Bond Program, call Jennifer Elmore at (415) 217-6578.

A corporate surety bond or certified check for ten percent (10%) of the amount bid must accompany each bid. Administrative Code Section 6.22(a) requires all construction greater than \$25,000 to include performance and payment bonds. The bonds shall be for a sum of not less than 100% of the cumulative value of all issued Contract Service Orders under the as-needed Contract or at least 25% of the Maximum Contract amount, whichever is greater.

Class "D-6" license required to bid.

In accordance with Administrative Code Chapter 6, no bid is accepted and no contract in excess of \$600,000 is awarded by the City and County of San Francisco until such time as the Mayor or the Mayor's designee approves the contract for award, and the Director of Public Works then issues an order of award. Pursuant to Charter Section 3.105, all contract awards are subject to certification by the Controller as to the availability of funds.

Minimum wage rates for this project must comply with the current General Prevailing Wage as determined by the State Department of Industrial Relations. Minimum wage rates other than applicable to General Prevailing Wage must comply with Administrative Code Chapter 12P, Minimum Compensation Ordinance.

This Project is subject to the requirements of the San Francisco Local Hiring Policy for Construction ("Policy") as set forth in Administrative Code Section 6.22(g). Bidders are hereby advised that the requirements of the Policy will be incorporated as a material term of any contract awarded for the Project. Refer to Section 00 73 30 of the Project Manual for more information.

Bidders are hereby advised that the Contractor to whom the Contract is awarded must be certified by the Contract Monitoring Division as being in compliance with the Equal Benefits Provisions of Chapter 12B of the Administrative Code within two weeks after notification of award.

If a bidder objects on any ground to any bid specification or legal requirement imposed by this Advertisement for Bids, the bidder shall, no later than the 10th working day prior to the date of Bid opening, provide written notice to the Contract Administration Division, San Francisco Public Works, setting forth with specificity the grounds for the objection.

Right reserved to reject any or all bids and waive any minor irregularities.

3/8/18

CNS-3105789#

SMALL BUSINESS EXCHANGE

Three Emerging Technologies Impacting The Construction Industry

■ **Continued from page 1**

quality imagery via Google Maps is a struggle that increases the dependency on a manual workforce to gather on-site data before construction. Especially when it comes to retrofitting an old building or adding solar panels to an existing building, good-quality images captured by machine can reduce a lot of human hours spent measuring a building.

Enter drone photography. The use of drones in construction allows users to map a site and create two-dimensional as well as three-dimensional images. Since most of the advanced drones use a coordinate-based system, it is possible nowadays to achieve absolute accuracy in measurements, although it is expensive.

Deep Chakraborty, CEO of ENACT Systems, told me, "While the use of drones is proliferating now, the construction industry lacks good software platforms and tools that can process such images rapidly and simplify the analytical activity." Drone-image processing software programs are already simplifying image usability, and vertical-specific software platforms are now adopting the use of such drone image processing to simplify workflows for solar field professionals. The next two to five years will bring more sophistication to the use of drone imagery in construction.

Digital Project Collaboration Tools

While the world is closer to a paperless and fully digital management structure, quite a lot of the construction industry is still maintaining physical binders, logging responses in Excel, using fax machines and picking up the phone for even the smallest exchanges of information.

Project collaboration tools are transforming how the construction industry operates by making communication between various parties seamless, with some tools also offering a centralized storage of all project related files. Dustin DeVan, CEO of Building Connected, told me, "Before the hammer hits the nail, hundreds and sometimes thousands of businesses communicate with one another to set budgets and decide who's working on what." Digitizing these processes is a no-brainer for the industry moving forward.

Overall, this technology is being rapidly adopted by the construction industry and the companies who do not quickly adapt will find themselves less competitive in the market.

SOURCE: www.forbes.com



Public Legal Notices

**CITY & COUNTY OF SAN FRANCISCO
DEPARTMENT OF PUBLIC WORKS**

**Contract No. 1000008752
POTRERO HILL RECREATION CENTER
IMPROVEMENTS**

Sealed bids will be received at 1155 Market Street, 4th Floor, San Francisco, California 94103 until **2:30:00 p.m. on March 30, 2018**, after which they will be publicly opened and read. Digital files of Bid Documents, Plan Holders Lists, and Addenda may be downloaded at no cost from the Public Works Electronic Bid Documents Download site at www.sfpublicworks.org/biddocs. Please visit the Contracts, Bids and Payments webpage at www.sfpublicworks.org for more information (click on Resources > Contractor Resources). Notices regarding Addenda and other bid changes will be distributed by email to Plan Holders.

The work to be done under this contract is located at Potrero Hill Recreation Center, 801 Arkansas Street, San Francisco and includes the renovation of a baseball and a softball field; grading, drainage, planting of new athletic field turf and irrigation; new chain link fencing and gates; concrete walkways, steps and retaining walls; metal handrails; asphalt paving; renovation of an existing walk trail with new surfacing and new grades; and lighting, including installation of new pedestrian pole lights and new PG&E power panel. Project is expected to import soil to fill the athletic field site in the amount of approximately 6,000 cubic yards (9,000 tons). The time allowed for completion is 240 consecutive calendar days. The Architect's estimate is approximately \$3,100,000. For more information, contact the Project Manager, **Paulina Araica** at 415-581-2558.

On July 1, 2014, the registration program under section 1725.5 of the California Labor Code went into effect. The program requires that all contractors and subcontractors who bid or work on a public works project register and pay an annual fee to the California Department of Industrial Relations ("DIR").

No contractor or subcontractor may be listed in a bid or awarded a contract for a public works project unless registered with the DIR as required by Labor Code section 1725.5 [with limited exceptions from this requirement for bid purposes only under Labor Code section 1771.1(a)].

This Project shall incorporate the required partnering elements for **Partnering Level 1**. Refer to Section 01 31 33 for more details.

Pursuant to San Francisco Administrative Code ("Administrative Code") Section 6.25 and Chapter 25 of the Environment Code, "Clean Construction" is required for the performance of all work.

This Contract is subject to the requirements of Administrative Code Chapter 12X, which prohibits the City from entering into any Contract with a Contractor that has its United States headquarters in a state with laws that perpetuate discrimination against LGBT populations ("Covered State") or where any or all of the work on the contract will be performed in any of those states. A list of states on the Covered State List can be found at: <https://oag.ca.gov/ab1887>.

The Specifications include liquidated damages. Contract will be on a Lump Sum Bid Items With Unit Prices basis. Progressive payments will be made.

The Contract will be awarded to the lowest responsible responsive bidder.

A bid may be rejected if the City determines that any of the bid item prices are materially unbalanced to the potential detriment of the City.

Bid discounts may be applied as per Administrative Code Chapter 14B. LBE Subcontracting Participation Requirement is **25%**. Call Finbar Jewell at 415-274-0511 for details. In accordance with Administrative

Code Chapter 14B requirements, all bidders shall submit documented good faith efforts with their bids, except those who exceed the above stated LBE Subcontracting Participation Requirement by 35%. Bidders must achieve 80 out of 100 points to be deemed responsive. Bidders will receive 15 points for attending the pre-bid conference, if scheduled. Refer to CMD Form 2B.

A pre-bid conference will be held on **March 14, 2018 at 10:00 a.m.** at 30 Van Ness Ave, Suite 3000 at Golden Gate Conference Room.

For information on the City's Surety Bond Program, call Jennifer Elmore at (415) 217-6578.

A corporate surety bond or certified check for ten percent (10%) of the amount bid must accompany each bid. Administrative Code Section 6.22(a) requires all construction greater than \$25,000 to include performance and payment bonds for 100% of the contract award.

Class "A", "B", or "C-27" license required to bid.

In accordance with Administrative Code Chapter 6, no bid is accepted and no contract in excess of \$600,000 is awarded by the City and County of San Francisco until such time as the General Manager of the Recreation and Park Department recommends the contract for award, and the Recreation and Park Commission then adopts a resolution awarding the Contract. Pursuant to Charter Section 3.105, all contract awards are subject to certification by the Controller as to the availability of funds.

Minimum wage rates for this project must comply with the current General Prevailing Wage as determined by the State Department of Industrial Relations. Minimum wage rates other than applicable to General Prevailing Wage must comply with Administrative Code Chapter 12P, Minimum Compensation Ordinance.

This Project is subject to the requirements of the San Francisco Local Hiring Policy for Construction ("Policy") as set forth in Administrative Code Section 6.22(g). Bidders are hereby advised that the requirements of the Policy will be incorporated as a material term of any contract awarded for the Project. Refer to Section 00 73 30 of the Project Manual for more information.

Bidders are hereby advised that the Contractor to whom the Contract is awarded must be certified by the Contract Monitoring Division as being in compliance with the Equal Benefits Provisions of Chapter 12B of the Administrative Code within two weeks after notification of award.

If a bidder objects on any ground to any bid specification or legal requirement imposed by this Advertisement for Bids, the bidder shall, no later than the 10th working day prior to the date of Bid opening, provide written notice to the Contract Administration Division, San Francisco Public Works, setting forth with specificity the grounds for the objection.

Right reserved to reject any or all bids and waive any minor irregularities.

3/8/18

CNS-3106203#

SMALL BUSINESS EXCHANGE

Three Southern Cities Attract The Most Black Entrepreneurs

Continued from page 9

is one you won't find with Uber and Lyft, helping to build loyal repeat customers.



3. Atlanta, Georgia

"In a given month [in 2016,] 430 adults out of every 100,000 inhabitants in Atlanta became entrepreneurs," according to Blacktech Week. That's why serial entrepreneur Maja Sly decided to call Atlanta home. Sly moved to Atlanta in 1998, and in four months had a full clientele and soon a salon in Buckhead that started her empire.

Sly calls herself an "accidental entrepreneur" whose journey led to the creation of her multiple businesses in the hair industry. After opening her first salon in 1998, she began her real estate venture that grew from her hair clientele. From there she opened her \$50 weave salons, Walk-In Weaves (she now licenses the name for franchise owners).

Her businesses led WeTV to make her a cast member of the reality series Cutting It in ATL, which garnered the national exposure to launch her successful online Pretty Hair packaged hair business and a coaching and marketing service for hair salon owners.

The Kauffman index showed that out of every four new entrepreneurs in Atlanta, three of them took their chances because they saw a market opportunity. "When I moved to Atlanta, I knew I found my groove. The streets are paved with gold here. If you can't make it in Atlanta, you can't make it anywhere," Sly explains. The low unemployment rate, a decent cost of living and city leadership like that of the newly elected mayor, Keisha Bottoms, makes Atlanta a popular metropolitan area for black entrepreneurs. Says Sly:

What I love about the city is that opportunities are everywhere. Unlike a lot of places, politics don't dictate the way businesses move here. This is an entrepreneurial city, so entrepreneurs dictate how things move here and the customer dictates how things move here. We don't have all of these bureaucratic guidelines and stipulations. It's not a city that you are boxed out. You can move here and not know anybody and make a name for yourself very quickly.

The African-Americans in the Southeast are not new to building a business out of necessity to maintain a living, but as the continued benefits of building a life in the South attracts interest, the opportunities to create are endless.

SOURCE: www.fastcompany.com



Public Legal Notices

OAKLAND UNIFIED SCHOOL DISTRICT

NOTICE TO BIDDERS

1. Notice is hereby given that the governing board ("Board") of the Oakland Unified School District ("District") will receive sealed bids for the following project, Bid No. 13179, ("Project" or "Contract"):

**Laurel Elementary School - Finishing Kitchen
3750 Brown Avenue, Oakland, CA 94602**

2. The Project consists of:

Scope of work includes demolition, earthwork, asbestos abatement, lead material removal, mold remediation, below & above grade utilities, new sanitary sewer lateral to public street, concrete footings and slab, rough & finish carpentry, structural steel, structural anchors, plywood roof sheathing, building expansion joints, mechanical, electrical, plumbing, low voltage systems, exhaust hoods, fire suppression system, food service equipment, coiling roll-up counter door, doors & hardware, restroom fixtures & accessories, drinking fountain, bottle filling station, lockers, urethane cement flooring, gypsum board, fiberglass reinforced panels, acoustical suspended ceiling, glue-on acoustical ceiling tiles, acoustical wall panels, attic access pull-down stairs, roof access ladder, rigid roof insulation, batt insulation, cabinetry, painting, exterior cement plaster, skylights, mineral cap built-up roofing, shingle composition roofing, roof safety tie-off anchors, roof gutters, roof downspouts, asphalt paving, striping and markings, signage, chain-link fencing & gates.

3. Engineer's Estimate: **\$2,300,000**

4. Project Manager for this project is **Mary Ledezma**, she can be reached at (510) 535-7055.

5. To bid on this Project, the Bidder is required to possess one or more of the following State of California contractor's license(s):

B – General Building Contractor

The Bidder's license(s) must remain active and in good standing throughout the term of the Contract.

6. To bid on this Project, the Bidder is required to be registered as a public works contractor with the Department of Industrial Relations pursuant to the Labor Code. The Bidder's registration must remain active throughout the term of the Contract.

7. Contract Documents will be available on or after **Monday, March 5, 2018**, for review at **East Bay Blue Print, located at 1745 14th Avenue, Oakland, CA 94606**. All requests should be addressed Attention: Sandy Petty. Plans can be ordered by:

Ph: 510-261-2990 Fax: 510-261-6077 Email: ebbp@eastbayblueprint.com, Attn: Sandy. Online using the Plan Command System at www.eastbayblueprint.com or plans can be de-

livered to a place of business, at requester's own expense. Payment for plan sets must be made with East Bay Blue Print and are **NON-REFUNDABLE**

In addition, Contract Documents are available for bidders' review at the following builders' exchanges:

Builder's Exchange of Alameda County
McGraw Hill Construction Data
San Francisco Builder's Exchange
Reed Construction Market Data
Contra Costa Builder's Exchange
Marin Builder's Exchange

8. Sealed bids will be received until **2:00 p.m., on Wednesday, April 11, 2018**, at the District Office, located at **900 High Street, Front Desk, Oakland, California**, at or after which time the bids will be opened and publicly read aloud. Any bid that is submitted after this time shall be non-responsive and returned to the bidder. Any claim by a bidder of error in its bid must be made in compliance with section 5100 et seq. of the Public Contract Code.

Pursuant to Public Contract Code section 20111.6, and the District's Prequalification for Prospective Certified Local/Small Local Resident Bidders, only prequalified bidders will be eligible to submit a bid for contracts \$1 million or more using or planning to use state bond funds. Any bid submitted by a bidder who is not prequalified shall be non-responsive and returned unopened to the bidder. Moreover, any bid listing subcontractors holding C-4, C-7, C-10, C-16, C-20, C-34, C-36, C-38, C-42, C-43 or C-46 licenses, if used, who have not been prequalified, shall be deemed non-responsive and will not be considered. Both First-Tier Subcontractors and Prime Contractors must be **Pre-qualified by Monday, April 2, 2018**. The list of Prequalified Contractors will be posted **on the OUSD's website**.

9. All bids shall be on the form provided by the District. Each bid must conform and be responsive to all pertinent Contract Documents, including, but not limited to, the Instructions to Bidders.

10. A bid bond by an admitted surety insurer on the form provided by the District, cash, or a cashier's check or a certified check, drawn to the order of the Oakland Unified School District, in the amount of ten percent (10%) of the total bid price, shall accompany the Bid Form and Proposal, as a guarantee that the Bidder will, within seven (7) calendar days after the date of the Notice of Award, enter into a contract with the District for the performance of the services as stipulated in the bid.

11. A mandatory pre-bid conference and site visit will be held on Wednesday, March 21, 2018 at 2:30 p.m. at Front Entrance of Laurel. All participants are required to sign in at the front Entrance of the Building. The site visit is expected to take approximately [1] hour. Failure to attend or tardiness will render bid ineligible.

12. The successful Bidder shall be required to furnish a 100% Performance Bond and a 100% Payment Bond if it is awarded the Contract for the Work.

13. The successful Bidder may substitute securities for any monies withheld by the District to ensure performance under the Contract, in accordance with the provisions of section 22300 of the Public Contract Code.

14. The successful bidder will be required to certify that it either meets the Disabled Veteran Business Enterprise ("DVBE") goal of three percent (3%) participation or made a good faith effort to solicit DVBE participation in this Contract if it is awarded the Contract for the Work.

15. The Contractor and all Subcontractors under the Contractor shall pay all workers on all Work performed pursuant to this Contract not less than the general prevailing rate of per diem wages and the general prevailing rate for holiday and overtime work as determined by the Director of the Department of Industrial Relations, State of California, for the type of work performed and the locality in which the work is to be performed within the boundaries of the District, pursuant to section 1770 et seq. of the California Labor Code. Prevailing wage rates are also available from the District or on the Internet at: <http://www.dir.ca.gov>.

16. This Project is subject to labor compliance monitoring and enforcement by the Department of Industrial Relations pursuant to Labor Code section 1771.4 and subject to the requirements of Title 8 of the California Code of Regulations. The Contractor and all Subcontractors under the Contractor shall furnish electronic certified payroll records directly to the Labor Commissioner weekly and within ten (10) days of any request by the District or the Labor Commissioner. The successful Bidder shall comply with all requirements of Division 2, Part 7, Chapter 1, Articles 1-5 of the Labor Code.

17. The District has entered into a Project Labor Agreement that is applicable to this Project. For questions or assistance concerning the Project Labor Agreement, **contact Maribel Alejandre, (510) 835-7603 X 21, Davillier-Sloan, Inc. 1630 12th Street, Oakland, California, 94607**.

18. The District shall award the Contract, if it awards it at all, to the lowest responsive responsible bidder based on:

A. The base bid amount only.

19. The Board reserves the right to reject any and all bids and/or waive any irregularity in any bid received. If the District awards the Contract, the security of unsuccessful bidder(s) shall be returned within sixty (60) days from the time the award is made. Unless otherwise required by law, no bidder may withdraw its bid for ninety (90) days after the date of the bid opening.