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# How Has Computer Aided Drafting (CAD) Revolutionized Engineering Industry



es or old manual drawings. Companies are using different approaches and techniques to take utmost advantage in terms of project execution. As mentioned earlier, CAD Services are no longer limited to one particular domain or segment. Arrays of services are covered under one umbrella. Besides project execution, computerized CAD Drawings or Images are easier to maintain, save or send across to clients. There is no risk of images or drawings being damaged in course of time. Errors can be rectified easily without taking much of time and can aid to quick turnaround. In software such as Revit, a change made in one part of the model reflects in the entire model by reducing manual intervention. This also facilitates definition and extraction of individual sheets or different part of drawings and every minute detail.

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#### By Kimberly C. Smith,

CAD, Computer Aided Design has brought about a technical revolution in the Engineering Industry. CAD Services can be classified into broad categories like Architectural Services, Structural Services, MEP and Mechanical Services. CAD for Engineers and Architects today is like Oxygen for the living. Cad Services is a boon for all companies' worldwide who would like to execute CAD projects with minimum cost and quick deliverable capacity. With the consistently growing demands in construction industry and CAD services have achieved eminence across the globe. This technology has contributed immensely in development of Construction Industry, Building and Infrastructure development, Green Building concept along with other Engineering Domains like Machine Designing, Aeronautical sheets, Transformer designing, GIS, Pressure vessel designing, etc..

Engineering industry today uses CAD Services to ensure Less cost, best quality, quick turnaround time along with excellent project efficiency. CAD is no longer limited to AutoCAD. There has been a great

evolution in the CAD Software too. CAD professionals globally use software which is helpful in are using latest software like AutoCAD, Revit, 3D Studio Max, Pro-E, Solid Works, Inventor, MicroStation, etc to execute Designing, Drafting and Modeling projects. With the help of such software, the entire project execution cycle has come to a new arena due to CAD Services. It is now possible to visualize an entire building and it's detail even before it is completed. This is possible with the help of "Virtual Construction Modeling" also referred to as Building Information Modeling in Engineering Industry. 3D Rendering makes it possible to give any building or product a photorealistic feel before the actual construction or manufacturing of a product. This development has also caused increase in companies providing Engineering and CAD Services. With transformation of blue prints created manually to digitization of CAD Drawings, many opportunities have opened up for Architects, Engineers and Drafters.

CAD services assure absolute digitization of manual drawings to computerized drawings via scanned pdfs, hand-drawn sketch-

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## California Sub-Bid Request Ads



P.O. BOX 100 • Folsom, CA 95763 Phone: (916) 351-0457 • Fax: (916) 351-1674 Contact: Brad Schieckoff

Sub-Bids Requested From MBE, WBE, SBE, SBRA, LSAF, HUB Subcontractors & Suppliers for:

Owner: Delta Diablo Sanitation District
Pump Station Facilities Repair
Project Nos 17128, 17129, 17130, 17131, 17132
Location: Antioch, Pittsburg and Bay Point, CA
BID DATE: October 23, 2018 @ 2:00 PM

#### Trades Solicited:

Survey, Water Truck, Demolition, Metals Supply, Roofing, Flashing, Door Supply, Door Install, Painting & Coating, Plumbing, HVAC, Electrical, Earthwork, Fencing and Gates, Pipe and Valve Supply, Construction Materials Supply, SWPP Materials Supply, Concrete Supply, Aggregates Supply, Paving

If a portion of the work is too large for you to handle, contact us and we will try and break it into smaller portions

Subcontractors and suppliers must be licensed to conduct business in the state of California. Must be able to provide payment and performance bonds provided by approved surety company. SRC will pay bond premium up to 1.5% of subcontract amount and will assist with insurance compliance. SRC will work with subcontractors on joint check agreements. Plans and specs are available for viewing at our Folsom office and upon request will provide FTP site for electronic viewing of project.

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



Requests quotes from qualified and certified **DBE** Subcontractors, Suppliers, and Service Providers for the following (but not limited to) work:

#### SUBS

Survey, Electrical, Fencing, Masonry, AC Paving

#### **SUPPLIERS**

Aggregate, Rip Rap, Misc Iron & Steel, Sewer Pump Well, Ready Mix Concrete, Pipeline Materials

HI-Desert Water District Wastewater Reclamation Project
Phase 1 Collection System

Bid Package B1 Paxton Pump Station
Located in Yucca Valley, San Bernardino County, California

HI-Desert Water District

BID DATE October 2, 2018 @ 2:00 p.m.

Sub & Vendor Bids Due Prior

#### **Sukut Construction, LLC**

4010 W. Chandler Avenue, Santa Ana, CA 92704 Contact: Rick Welshiemer

Phone: (714) 540-5351 • Fax: (714) 545-2003 • Email: estimating@sukut.com

Plans/specs are available for viewing at our office by appointment, by Sukut FTP at no cost. Subcontractors must be prepared to furnish 100% performance and payment bonds and possess current insurance and workers' comp coverage. Sukut Construction will assist qualified subcontractors in obtaining bonds, insurance, and/or lines of credit. Subcontractors/Vendors will be required to sign Sukut's Standard Subcontract/Purchase Order. Copies are available for examination. Please contact Sukut Construction for assistance in responding to this solicitation.

Sukut Construction's listing of a Subcontractor in its bid to the agency is not to be construed as an acceptance of all of the Subcontractor's conditions or exceptions included with Subcontractor's price quotes. Quotations must be valid for the same duration as specified by Owner for contract award.

Sukut Construction, LLC
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5225 Hellyer Avenue, Suite #220 San Jose, CA 95138 Phone (408) 574-1400 Fax (408) 365-9548 Contact: Bryan Jones Email: estimating@graniterock.com

REQUESTING SUB-QUOTES FROM QUALIFIED DBE Firms SUBCONTRACTORS/SUPPLIERS/ TRUCKERS FOR:

Light Rail Track Intrusion Prevention
Contract C18099F
Owner: Santa Clara Valley
Transportation Authority
Engineers' Estimate: \$3,500,000.
BID DATE: October 4, 2018 @ 2:00 PM

Items of work include but are not limited to: Traffic Control, Remove Striping & Markings, Concrete Barrier Wall, Slurry Seal, Chain Link Fence & Swing Gate, Metal Picket Fence & Sliding Gate, Signs, Striping & Markings, Electrical, Irrigation and Trucking. Granite Rock Company 'Graniterock' is signatory to Operating Engineers, Laborers, Teamsters, Carpenters and Cement Masons unions, 100% performance and payment bonds will be required from a qualified surety company for the full amount of the subcontract price. Bonding assistance is available. Graniterock will pay bond premium up to 1.5%. In addition to bonding assistance, subcontractors are encouraged to contact Graniterock Estimating with questions regarding obtaining lines of credit, insurance, equipment, materials and/or supplies, or with any questions you may have. Subcontractors must possess a current contractor's license, DIR number, insurance and worker's compensation coverage. Subcontractors will be required to enter into our standard contract. Graniterock intends to work cooperatively with all qualified firms seeking work on this project.

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#### Fisher Development, Inc.

We are requesting bids from MEP Subcontractors for the design build of approximately 25,000 sq ft of existing office space for the **440 Turk Street project**, **Contract 1000009329**, for the San Francisco Department of Public Works. Construction is approximately from 12/15/18, complete 3/31/2019. Precon design responsibility begins immediately after award.

We are looking for subcontractors to fulfill the 30% Local Hire and 20% LBE participation requirements as part of our submission.

#### Bids due: September 28, 2018 @ 2:00 PM

Fisher Development, Inc. 601 California Street, Suite 300 San Francisco, CA 94108 Phone: 415-228-3060 / Fax: 415-228-3028

Interested bidders please contact Maria Juachon at mjuachon@fisherinc.com or call 415-228-3055.



# California Sub-Bid Request Ads

## DESILVA MGATES

C O N S T R U C T I O N

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 185 – CONSTRUCTION ON STATE HIGHWAY IN ALAMEDA COUNTY

IN AND NEAR SAN LEANDRO, FROM ORA LOMA DITCH TO HESPERIAN BOULEVARD Contract No. 04-1K3404, Disabled Veteran Business Enterprise Goal Assigned is 5 %

OWNER:

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

BID DATE: OCTOBER 9, 2018 @ 2:00 P.M.

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

CONSTRUCTION AREA SIGNS, CRACK SEALING, ELECTRICAL, MINOR CONCRETE, STRIPING, SWPPP/WATER POLLUTION CONTROL PLAN PREPARATION, TRAFFFIC CONTROL SYSTEMS, TRUCKING, WATER TRUCKS, STREET SWEEPING, HOT MIX ASPHALT (TYPE A) MATERIAL, ASPHALT OIL.

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:f7pa55wd@pub.desilvagates.com (if prompted the username is ftp@desilvagates.com and password is f7pa55wd) or from the Owner's site at www.dot.ca.gov/hq/esc/oe/weekly\_ads/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 DVBE 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 DVBE 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.

### DeSilva 🖊 Gates

CONSTRUCTION

11555 Dublin Boulevard • P.O. Box 2909 Dublin, CA 94568-2909 (925) 829-9220 / FAX (925) 803-4263 Estimator: VICTOR LE 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 65 – CONSTRUCTION ON STATE HIGHWAY IN PLACER COUNTY IN AND NEAR ROSEVILLE AND ROCKLIN FROM 0.1 MILE SOUTH OF EAST ROSEVILLE VIADUCT TO 0.5 MILE SOUTH OF PLEASANT GROVE BOULEVARD OVERCROSSING, Contract No. 03-0H26U4

Federal Aid Project No. ACNH-P065(108)E, Disadvantaged Business Enterprise Goal Assigned is 12%

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

#### BID DATE: OCTOBER 2, 2018 @ 2:00 P.M.

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

MINOR CONCRETE (MISC. CONSTRUCTION), MINOR CONCRETE (ISLAND PAVING), VEGETATION CONTROL.

Fax your bid to (925) 803-4263 to the attention of Estimator Victor Le. 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.



ENVIRONMENTAL CONTRACTORS, INC.

CAL LIC. NO. 723241 11555 Dublin Boulevard Dublin, CA 94568-2909 Phone: (925) 803-4333 • FAX: (925) 803-4334 Estimator: Michael Collings mcollings@pacificstates.net

Pacific States Environmental Contractors, Inc. (PSEC) is preparing a bid as a Prime Contractor for the project listed below:

PROJECT:

Implementation of Removal Action Workplan, Sequoia High School Relocation Project Visalia, Tulare County, California (DTSC Site Code 104766-11) (VUSD#4916)

OWNER:

Visalia Unified School District

#### BID DATE: September 28, 2018 @ 11am

We hereby encourage responsible participation of DVBE's and solicit their subcontractors or materials and/or suppliers quotation for the following types of work including but not limited to:

Trucking -Semi-End Dumps of Contaminated Dirt from project to Class 1, Class 2 or Class 3 Landfill. Water Truck - Dust Control Erosion Control and BMP Installation

At our discretion, 100% Payment and 100% Performance bonds may be required as a subcontract condition. Please call if you need assistance in obtaining bonding, insurance, equipment, materials and/or supplies for this project.

#### This will be a PREVAILING WAGE JOB.

Specifications may be reviewed at our office located at 11555 Dublin Boulevard, Dublin, CA, or by visiting https://www.vusd.org/Page/248

PSEC is willing to breakout any portion of work to encourage DVBE's and solicit their subcontractor or materials and/or suppliers and trucking quotation as well as increase the expectations of meeting the Outreach Program goal. If you require any assistance, please contact the Estimator, Michael Collings, email him at mcollings@pacificstates.net or call (925) 803-4333 and bids may be faxed to us at (925) 803-4334. 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. We are an equal opportunity employer.

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# Looking for Subcontractors, Vendors, and Suppliers?

Advertise your Sub-Bid Requests in the Small Business Exchange.

With a monthly readership of 75,000, SBE reaches a diverse audience, cutting across ethnic and gender lines as well as tradional industry segments.



Call 1-800-800-8534 or visit us at www.sbeinc.com



## California Sub-Bid Request Ads



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

PMI requests proposals/quotes from all qualified and certified Disadvantaged Business Enterprise (DBE) subcontractors following project:

TOWER BRIDGE FENDER REPLACEMENT PROJECT CALTRANS CONTRACT NO. 03-3F5504 Bids: 10/02/18 @ 2 PM DBE GOAL - 14%

SWPPP; BIOLOGIST; EARTHWORK, ROCK EX-CAVATION; LANDSCAPING; FENCING; DEMOLI-TION, BRIDGE REMOVAL; RALINGS, BARRIERS; TRAFFIC CONTROL, TRAFFIC CONTROL EQUIP-MENT; CONCRETE, CURBS AND SIDEWALKS, AC PAVING; SLURRY SEALS; SHOTCRETE; STRIPING AND MARKINGS; ELECTRICAL, LIGHTING; OVERHEAD SIGNAGE, ILLUMINATED SIGNS; STEEL PIPE PILES; WOOD AND PLAS-TIC LUMBER; DRAINAGE FACILITIES; FIBER-GLASS REINFORCED GRATING; REBAR; STEEL STRUCTURES; MISCELLANEOUS METALS: STRUCTURAL STEEL COATINGS

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 certified suppliers and subcontractors. Assistance with obtaining necessary equipment, supplies, materials, or related assistance or services for this project will also be offered to interested DBE certified suppliers, subcontractors, truckers. PMI is a signatory to the Operating Engineers, Carpenters and Laborers Collective Bargaining Agreements.

PMI will provide assistance in obtaining necessary bonding, insurance, equipment, supplies, materials or other related services. 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%. Subcontractors awarded on any project will be on PMI's standard form for subcontract without any modifications. For questions or assistance required on the above, please call 510-671-0000

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

PMI requests proposals/quotes from all qualified and certified Disadvantaged Business Enterprise (DBE) subcontractors following project:

LIGHT RAIL TRACK INTRUSION PREVENTION PROJECT SANTA CLARA VALLEY TRANSIT AUTHORITY #C18099F

Bids: 10/04/18 @ 2 PM **DBE GOAL - 3.48%** 

The work in this contract includes but is not limited to: Demolition; Subsurface Investigation; Portland Cement and CIP Concrete, Concrete Formwork, Reinforcing Steel, Non-Shrink Grout; Joint Sealants; Traffic Control, Traffic Signage, Traffic Signal Systems; Fence Grounding (Electrical); Asphalt Concrete Paving; Surry Seal; Pavement Markings; Chain Link Fence; Metal Picket Fencing and Gates; Irrigation Systems.

PMI will provide assistance in obtaining necessary bonding, insurance, equipment, supplies, materials or other related services. 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%. Subcontractors awarded on any project will be on PMI's standard form for subcontract without any modifications. For questions or assistance required on the above. please call 510-671-0000. PMI is signatory to the Operating Engineers, Carpenters, and Laborers Collective Bargaining

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### **How Has Computer Aided Drafting (CAD)** Revolutionized Engineering Industry

#### Continued from page 1

These are one of the main reasons that across the globe, major construction houses or Infrastructure companies are eminently outsourcing CAD Services. This process over a period helps companies gain advantage over their competitors who do not outsource their requirements. Cad Technology has evolved into a different era in a short span of time and is constantly evolving into giving better shape to the Engineering industry. CAD Services now helps CAD companies and professionals manage their Designing Drafting or Modeling projects more efficiently. Companies offering CAD Services and companies who

are constantly upgrading their technical skills will always be in an advantageous position compared to companies who still rely on traditional methods of executing

TESLA Outsourcing Services, a leading Engineering CAD services company. CAD Drafting Company offers Detailing, Drafting and Design Services across all the industries. To know more about CAD Services: www.caddoutsourcingservices.com

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Project: Pima Freeway (SR 101) Interstate 17 to Pima Road Design and Construct General Purpose Lanes
ADOT Project Number: 101-B-(213)S; TRACS Number: F012101C PLEASE SUBMIT PROPOSALS BY OCTOBER 1ST, 2018 **DBE Goal 8.35%** 

The Department programmed amount for design and construction of this project is \$185,400,000. The proposed Design-Build project is in Maricopa County on SR 101L, from I-17 to Pima Road. The scope includes design and construction for new general purpose lanes on SR 101L in both travel directions. The work includes constructing pavement, structures, retaining walls, barrier, drainage, signing, pavement markings, street lighting, traffic signals, ITS, utilities relocation, landscape restoration,

For the ADOT Design Concept Report (DCR) and RFP Specifications, please visit: https://www.azdot.gov/business/ContractsandSpecifications/AdvertisedAlternativeDeliveryProjects

Please contact Coffman Ames Joint Venture to receive a sub-quote package when they become available.

Coffman Ames Joint Venture is seeking quotes from small business enterprises, including certified DBE firms to perform work on the project, including, but not limited to, the following items of work:

- Removals
- Bridge Demo
- Traffic Control Services
- Pavement Markings
- · Signs and Sign Structures
- Concrete Barrier Rail
- Noise Walls
- · Reinforcina Steel · Electrical and Lighting
- Drainage
- Erosion Control

- Landscaping
- Trucking
- Milling
- Asphalt Paving
- Saw and Seal Joints
- Slope Paving
- Drilled Shaft Foundations
- · Aggregate and AC Bases
- Precast Girders
- Post Tensioning
- Concrete Curb and Gutter

- Fencing
- Guardrail
- · Miscellaneous Metal
- Deck Joints
- Bearing Pads • Painting
- Form-liners Concrete Pumping
- QC and Material Testing
- Surveying
- Site Biologist

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. Coffman Ames Joint Venture will pay up to 1.5% for the cost of the bond. Waiver of Subrogation will be required. We will provide assistance or advice with obtaining bonds, insurance, lines of credit, and equipment. Subcontractors must provide their AZ contractor's license number with their quote. DCR Plans and RFP Specifications are available at no cost to interested DBE firms from the ADOT website at the web address listed above. Confidential sub-quote bid packages will be available at no cost to interested DBE firms directly from Coffman Ames Joint Venture. You must have a valid AZ UTRACS registration. This project requires Certified Payroll. We are an EOE & seriously intend to negotiate with qualified firms

If you have questions, please email estimating@coffmanspecialties.com, or contact Ken Brunker at (480) 368-5558 or Gus Rios at (858) 536-3100 x 266



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