CM CLARIFICATION BULLETIN #1

BULLETIN NO: ONE (1)  DATE: July 19, 2022

PROJECT: KCCD – ARVIN EDUCATIONAL CENTER MEASURE J PROJECT

PROJECT NO: CCC #22-017

DISTRICT: KERN COMMUNITY COLLEGE DISTRICT

ARCHITECT: IBI GROUP

CONSTRUCTION MANAGER: COLOMBO CONSTRUCTION CO., INC.  REVISED August 9, 2022 @

BID DATE: 2:00 P.M.

3211 Rio Mirada Drive
Bakersfield, CA  93308
661-316-0100

NOTICE TO ALL CONTRACTORS SUBMITTING BIDS FOR THIS WORK AND TO ALL PLAN HOLDERS:

You are hereby notified of the following changes, clarifications, or modifications to the original Manual/Forms/Plans. This Bulletin shall supersede the original Manual/Forms/Plans, and previous CM Bulletins where it contradicts the same and shall take precedence over anything to the contrary therein. All other conditions remain unchanged.

ITEM 1 - DVBE:

1. The following documents are issued for your use/information with regards to the DVBE:
   - DVBE Participation Forms. (CM Clarification 01 – Attachment 1)
   - Compliance News Ad/Affidavit and Fax Confirmations. (CM Clarification 01 – Attachment 2)

ITEM 2 - BID DATE/LOCATION REVISIONS:

1. Bid Date has been changed to Tuesday, August 9, 2022, at 2:00 p.m.
2. Location of bid receipt has been changed to Kern Community College District, 2100 Chester Avenue, Room 201, Bakersfield, CA  93301.
3. Bids are to be addressed to Jamal Powell/Colombo Construction Co., Inc.

ITEM 3 – INSTRUCTIONS TO BIDDERS:

1. See the attached Instructions to Bidders. (CM Clarification 01 – Attachment 3)
ITEM 4 – ALL BID PACKAGES:

1. Delete Bid Package 06-10-000 General Construction—Doors/Frames/Hardware in its entirety. Specification Sections previously shown in this Bid Package have been assigned their own Bid Package numbers or inserted into other Bid Packages.
2. See the attached KCCD Bid Request, advertising in the “Bakersfield Californian”, Tuesday, July 19, 2022 and July 26, 2022, for the following Bid Packages (CM Clarification 01 – Attachment 4):
   a. 01-74-000/Janitorial (CM Clarification 01 – Attachment 5)
   b. 02-23-000/Chain Link Fencing (CM Clarification 01 – Attachment 6)
   c. 08-10-000/Doors/Frames/Hardware (CM Clarification 01 – Attachment 7)
   d. 08-30-000/Ceiling Doors/Operable Partitions (CM Clarification 01 – Attachment 8)
3. See the attached Non-Mandatory Job Walk sign-in sheet. (CM Clarification 01 – Attachment 9)
4. ALL Bid Packages FOR INFORMATION ONLY: See attached BC Arvin Ed Center shop drawings email with Lab Casework shop drawings and anchorage drawings provided by District’s vendor indicating layout and configuration of casework and appurtenances in the Laboratory Classroom. (CM Clarification 01 – Attachments 10 & 11)

ITEM 5 – BP 02-05-000/SITE DEMO & EARTHWORK:

1. This contractor is to remove an existing 12” concrete irrigation line located on the west side of Walnut Street as shown on the accompanying sketch. Approximate depth is 24” BSG and the line is approximately 900’ long. (CM Clarification 01 – Attachments 13)
2. Per Item 29 this scope contractor to construct grades at curbs, gutters, and sidewalks per the attached sketch. (CM Clarification 01 – Attachments 14)

ITEM 6 – BP 02-15-000/SITE CONCRETE:

1. Grade will be cut for curbs, gutters, and sidewalks, per the attached sketch. (CM Clarification 01 – Attachments 14)
2. This contractor shall be responsible for Section 10 75 00 Flagpole and is to provide the flagpole per specifications.

ITEM 7 – BP 07-50-000/PVC ROOFING:

1. This contractor shall be responsible for Section 07 72 00 Roof Accessories and will provide the roof hatch as described in the specifications.

ITEM 8 – BP 09-22-000/METAL STUDS/EIFS/DRYWALL:

1. This contractor is to coat exposed exterior concrete building curbs to match EIFS and Metal Wall Panel colors after installation of concrete walks.
ITEM 9 – BP 10-20-000/ARCHITECTURAL SPECIALTIES:

1. This contractor shall be responsible for Section 10 11 00 Visual Display Units. This Bid Package is to provide installation of all Owner Furnished Contractor Installed Markerboards and Tackboards, including backing/blocking layout and verification of proper location and quantities prior to installation of drywall or other concealing finishes.
2. This contractor shall be responsible for Section 10 26 10 Wall Protection. This Bid Package is to provide all wall protection materials per specifications.

ITEM 10 – BP 16-00-000/ELECTRICAL:

1. This contractor shall be responsible for Section 06 10 53 Miscellaneous Rough Carpentry and will provide fire-rated plywood on the walls of IDF, MDF, and Electrical rooms and plywood telephone and CATV backboards.
2. See attached PG&E email and drawing PM 35263823 dated 8/25/21 of new service requirements for inclusion into work of this Bid Package. (CM Clarification 01 – Attachment 15)
3. This contractor is to install conduits for Charter Communications data cabling (see notes 7 & 8 on sheet E1001) to same pole as shown on PG&E Drawing PM 35263823 dated 8/25/21. Sweep conduits up in different quadrant of pole than shown for service power conduit. (CM Clarification 01 – Attachment 15)

COLOMBO CONSTRUCTION CO., INC.

Joe Ballard

Joe Ballard,
Vice President, Operations
DVBE PARTICIPATION

PRIME BIDDER CERTIFICATION OF DISABLED VETERAN BUSINESS ENTERPRISE PARTICIPATION

To be completed by the Prime Bidder.

GENERAL INSTRUCTIONS
All or part of the funding for the proposed work/services/equipment/supplies for which your firm is bidding has been made available by the State Allocation Board (SAB) through the Lease-Purchase Program or the State Relocatable Classroom Program and as a result, the contract award must be made in accordance with the SAB participation requirements for Disabled Veterans Business Enterprises (DVBE). The SAB requires that all contracts over $10,000 awarded must meet a DVBE participation goal of not less than three percent of the contract amount. If your firm cannot meet the three percent DVBE participation goal, you must demonstrate a good faith effort to attempt to meet the three percent participation. The school district issuing this solicitation document, not the SAB/OPSC, is responsible to assure compliance with the DVBE program.

PART I—IDENTIFICATION INFORMATION

<table>
<thead>
<tr>
<th>BIDDER’S NAME</th>
<th>TELEPHONE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BUSINESS ADDRESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kern Community College District</td>
</tr>
<tr>
<td>Kern</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>COUNTY</th>
<th>APPLICATION NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kern</td>
<td>N/A</td>
</tr>
</tbody>
</table>

PART II—METHOD OF COMPLIANCE WITH DVBE PARTICIPATION GOALS

Include this form and any other applicable documents listed in this table with your bid/proposal. Read the three columns in the table below as sentences from left to right. Check the appropriate box to indicate your method of committing the contract dollar amount. If no box can be checked, your bid/proposal will be deemed non-responsive and disqualified.

Important note
Architectural, engineering, environmental, land surveying or construction management firms must indicate their method of compliance by marking the appropriate box A, B, C, or D after selection by the district and before the contract is signed.

YOUR BUSINESS ENTERPRISE..... AND YOU..... AND YOU.....

A. ☐ is Disabled Veteran owned and your forces will perform at least three percent of this contract

B. ☐ is Disabled Veteran owned but is unable to perform the three percent of this contract with your forces

C. ☐ is not Disabled Veteran owned

D. ☐ is unable to meet the required participation goals

Note
An Office of Small Business and Disabled Veteran Business Enterprises Services (OSDS) letter must be attached for each DVBE participating in the contract. The DVBE letter is obtained from the participating DVBE. If the letter is not provided, the bid may be deemed nonresponsive and may be ineligible for award of the contract.

Continued on page 2
PART III—DVBE DOLLAR PARTICIPATION OF BID/PROPOSAL
Architectural, engineering, environmental, land surveying or construction management firms complete this part after selection by the district and before the contract is signed. All others must complete this section and include it with the bid.

Show deduction alternate(s) in parenthesis. For more alternates/base bids, use a separate page to show items.

A. If your business enterprise is a DVBE, list in the appropriate column the total dollar amount of your bid to be performed by your own participation.

B. List all of your DVBE subcontractors/suppliers. Enter in the appropriate column the dollar amount for each of your subcontractors/suppliers.

C. Enter the total of Lines A and B for each column.

D. Enter the dollar amount of the bid/proposal to be performed by non-DVBE firms. Note: This line is the sum of the prime and subcontractor(s) non-DVBE dollar participation.

E. Enter the sum of the column totals from Line C and Line D. Note: Please be aware that the final determination of DVBE compliance is made based on the contract amount resulting from the district’s acceptance or rejection or alternates.

<table>
<thead>
<tr>
<th>Base Bid/Proposal</th>
<th>Alternate No. 1</th>
<th>Alternate No. 2</th>
<th>Alternate No. 3 or Base Bid B</th>
<th>Alternate No. 4 or Base Bid C</th>
<th>Alternate No. 5 (Modernization or Reconstruction Only)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Prime Bidder, if DVBE (own participation)</td>
<td>$</td>
<td>$</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>B. DVBE subcontractor or supplier 1.</td>
<td>2.</td>
<td>3.</td>
<td>4.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C. Subtotal (A and B)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D. Non-DVBE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E. Total Bid</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>
This worksheet is to be used to assist the Prime Builder in meeting the three percent DVBE participation goal for project funded through the Lease-Purchase Program or the State Relocatable Classroom Program.

<table>
<thead>
<tr>
<th>Bidder</th>
<th>Contact Person</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Business Address</th>
<th>Telephone</th>
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</table>

<table>
<thead>
<tr>
<th>School District</th>
<th>County</th>
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</thead>
<tbody>
<tr>
<td>Colombo Construction Co. Inc as Construction Manager on behalf Kern Community College District</td>
<td>Kern</td>
</tr>
</tbody>
</table>

**GENERAL INSTRUCTIONS**

If specific information is not provided for Parts I through III, you do not meet the test of the “Good Faith Effort” and cannot so certify. If you are qualifying based on a “Good Faith Effort” you must include this form with your bid/proposal to the district.

**PART I—CONTACTS**

To identify DVBE sub-contractors/suppliers for the participation in your bid/proposal, contact must be made with each of the following categories. It is recommended that you contact several DVBE organizations.

<table>
<thead>
<tr>
<th>CATEGORY</th>
<th>TELEPHONE NUMBER</th>
<th>DATE CONTACTED</th>
<th>PERSON CONTACTED*</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. School District – Colombo Construction Co. Inc. as Construction Mgr. on behalf of Kern Community College District</td>
<td>661-316-0100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Local Referral Organization: DBE/DVBE Resource Ctr.: <a href="http://www.dvbe.net">www.dvbe.net</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. DVBE Organizations (List):</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Compliance News</th>
<th>800-599-6996</th>
<th>7-5-22</th>
<th>Online</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

*Write “recorded message” in this column, if applicable

Continued on page 4
**DVBE PARTICIPATION**

**PRIME BIDDER GOOD FAITH EFFORT WORKSHEET**

**PART II—ADVERTISEMENTS**

You must make at least two (2) advertisements, one (1) in a paper that focuses on DVBE and one (1) in a trade paper. Advertisements must be published at least 14 days prior to bid/proposal opening; if you cannot advertise 14 days prior, advertise as soon as possible and provide an explanation. (Advertisements must be published in time to allow for a reasonable response.) Advertisements must include that your firm is seeking DVBE participation, the project name and location, your firm’s name, your firm’s contact person, and phone number.

Attach copies of advertisements to this form.

<table>
<thead>
<tr>
<th>FOCUS/TRADE PAPER NAME</th>
<th>CHECK ONE</th>
<th>DATE OF ADVERTISEMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kern Community College District, awarding agency, has chosen to waive the advertising requirements. The CM will complete the advertising requirements for each bid package and make the results available to all Prime Bidders. Call the CM, Colombo Construction Co., Inc., 661-316-0100, for the results.</td>
<td>FOCUS</td>
<td>TRADE</td>
</tr>
<tr>
<td>X</td>
<td>X</td>
<td>7-6-22</td>
</tr>
</tbody>
</table>

**PART III—DVBE SOLICITATIONS**

List DVBE subcontractors.suppliers that were invited to bid. Use the following instructions to complete the remainder of this section (read the three columns as a sentence from left to right). If you need additional space to list DVBE solicitations, please use a separate page and attach to this form.

<table>
<thead>
<tr>
<th>IF THE DVBE…</th>
<th>THEN…</th>
<th>AND…</th>
</tr>
</thead>
<tbody>
<tr>
<td>was selected to participate</td>
<td>check “YES” in the “SELECTED” column, include the applicable dollar amount in Part III of the “Prime Bidder Certification of Disabled Veteran” form.</td>
<td>Include a copy of their DVBE letter from OSDC.</td>
</tr>
<tr>
<td>was not selected to participate</td>
<td>check “NO” in the “SELECTED” column.</td>
<td>State why in the “REASON NOT SELECTED” column.</td>
</tr>
<tr>
<td>did not respond to solicitation</td>
<td>Check the “NO RESPONSE” column.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DISABLED VETERANS BUSINESS ENTERPRISES CONTACTED</th>
<th>SELECTED</th>
<th>REASON NOT SELECTED THIS SECTION MUST BE COMPLETED</th>
<th>NO RESPONSE</th>
</tr>
</thead>
</table>

**IMPORTANT NOTE**

Please be aware that certification of the “Good Faith Effort” may only be made if you fully complete Parts I, II, and III on both sides of this form. A copy of this form must be retained by you and may be subject to a future audit.

**Certification**

I, ___________________________ certify that I am the bidder’s Chief Executive Officer and that I have made a diligent effort to ascertain the facts with regard to the representations made herein. In making this certification, I am aware of section 12650 et seq. of the Government Code providing for the imposition of treble damages for making false claims.

**SIGNATURE OF THE CHIEF EXECUTIVE OFFICER**

**DATE**
To: Colombo Construction Co., Inc.
3211 Rio Mirada Drive
Bakersfield, CA 93308
Phone: 661-316-0100
Fax: 661-215-5130

RECEIPT FOR ORDER #11152
Published on 07-05-2022 at 02:48 PM PST
Project Name: KCCD - Arvin Educational Center - Measure J Project
Contract/Bid #: 661-316-0100
Awarding Agency: Kern Community College District

Total Amount PAID: $85.00
Colombo Construction Co., Inc. is seeking certified and qualified DVBE subcontractors and/or suppliers to provide Site Demo/Earthwork, Site Utilities, Site Concrete, AC Paving, Landscape/Irrigation, Structural Concrete, Masonry, Structural Steel/Misc. Iron, General Construction/Doors/Frame Hardware, Insulation, Metal Roofing, PVC Roofing, Alum. Doors/Windows/Glass/Glazing, Metal Studs/EIFS/Drywall, Ceramic Tile, Acoustical Ceilings/FRP, Painting, Architectural Specialties, Toilet Partitions/Accessories, Fire Sprinkler System, Plumbing, HVAC/Sheet Metal, and Electrical.

**PROJECT NAME:**
KCCD - Arvin Educational Center - Measure J Project

**CONTRACT #:**
661-316-0100

**AWARDING AGENCY:**
Kern Community College District

**PROJECT LOCATION:**
901 Varsity Road, Arvin, CA, 93203

**DUE DATE:**
07-27-2022 at 02:00 PM

**OUTREACH COORDINATOR:**
Priscilla Phillips

**TELEPHONE:**
661-316-0100

**FAX:**
661-215-5130

**ADDRESS:**
3211 Rio Mirada Drive Bakersfield, CA, 93308

**EMAIL:**
pphillips@colomboconstruction.com

**PROJECT DETAILS:**

This is a CM @ Risk project, all successful contractors will be required to enter into a contract with the Owner and sign a trade re-assignment agreement transferring the contract to Colombo Construction. You will be required to provide insurance listing the Owner, CM, and Architect as additional insured; and dual obligee payment/performance bonds.
The Colombo Construction Co., Inc. Good Faith Effort advertisement has been published in both the Compliance News Internet and Hard-Copy publications (located online at: http://www.compliancenews.com). The undersigned declares: I am over the age of 18 years and a citizen of the United States of America. I am the principal publisher of the Compliance News Trade and Focus Journal in the United States of America. The notice a true copy of which is attached was published on 07-05-2022 at 02:48 PM PST. I declare under penalty of perjury that the foregoing is true and correct.

J.H. Sprague

Copyright 2021 Compliance News Business License Account #BU21911074 All Rights Reserved
Colombo Construction Co., Inc.
is seeking certified and qualified DVBE subcontractors and/or suppliers to provide Site Demo/Earthwork, Site Utilities, Site Concrete, AC Paving, Landscape/Irrigation, Structural Concrete, Masonry, Structural Steel/Misc. Iron, General Construction/Doors/Frames/Hardware, Insulation, Metal Roofing, PVC Roofing, Alum. Doors/Windows/Glass/Glazing, Metal Studs/EIFS/Drywall, Ceramic Tile, Acoustical Ceilings/FRP, Painting, Architectural Specialties, Toilet Partitions/Accessories, Fire Sprinkler System, Plumbing, HVAC/Sheet Metal, and Electrical.

**PROJECT NAME:**
KCCD - Arvin Educational Center - Measure J Project

**CONTRACT #:**
661-316-0100

**AWARDING AGENCY:**
Kern Community College District

**PROJECT LOCATION:**
901 Varsity Road, Arvin, CA, 93203

**DUE DATE:**
07-27-2022 at 02:00 PM

**PROJECT DETAILS:**
This is a CM @ Risk project, all successful contractors will be required to enter into a contract with the Owner and sign a trade re-assignment agreement transferring the contract to Colombo Construction. You will be required to provide insurance listing the Owner, CM, and Architect as additional insured; and dual obligee payment/performance bonds.

**OUTREACH COORDINATOR:**
Priscilla Phillips

**TELEPHONE:**
661-316-0100

**FAX:**
661-215-5130

**ADDRESS:**
3211 Rio Mirada Drive Bakersfield, CA, 93308

**EMAIL:**
pphillips@colomboconstruction.com
The Colombo Construction Co., Inc. Good Faith Effort advertisement has been published in both the Compliance News Internet and Hard-Copy publications (located online at: http://www.compliancenews.com). The undersigned declares: I am over the age of 18 years and a citizen of the United States of America. I am the principal publisher of the Compliance News Trade and Focus Journal in the United States of America. The notice a true copy of which is attached was published on 07-05-2022 at 02:48 PM PST. I declare under penalty of perjury that the foregoing is true and correct.

J.H. Sprague

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Many Good Faith Efforts may require the bidding contractor to CALL the awarding department or owner and talk with their Outreach coordinator. SEE YOUR CONTRACT DOCUMENTS FOR THIS TELEPHONE NUMBER. Call it and record the result below.

<table>
<thead>
<tr>
<th>Awarding Department Contact Action:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colombo Construction Co., Inc. contacted the awarding department issuing this contract at (tel number) ______________ at (time) ______________ on (date) __________ and discussed the Good-Faith Effort with (Awarding Department Contact) ____________________________________________________________________________________________________________</td>
</tr>
<tr>
<td>Remarks: (left message, etc.) ____________________________________________________________________________________________________________</td>
</tr>
<tr>
<td>Phone call was made by Prime Contractor Rep. ____________________________________________________________________________________________________________</td>
</tr>
<tr>
<td>(Name/Signature)</td>
</tr>
</tbody>
</table>
C. Federal, State, & Local Agency Databases Accessed

Federal Agency: System for Award Management (SAM) at https://www.sam.gov/SAM/ at 02:48 PM PST on 07-05-2022


State Agency: California's Unified Certification Program (CUCP) at https://ucp.dot.ca.gov/licenseForm.htm at 02:48 PM PST on 07-05-2022


**D. Summary of Firms Sent Bid Invitations**

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Address</th>
<th>Phone</th>
<th>Fax</th>
<th>Email</th>
<th>Work Categories</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMS BKL Drywall &amp; Interior Systems Inc</td>
<td>2900 E Belle Terr Unit A, Bakersfield, CA, USA, 93307</td>
<td>4155084968</td>
<td>Not Available</td>
<td><a href="mailto:kkuhn@sfinteriorsinc.com">kkuhn@sfinteriorsinc.com</a></td>
<td>Drywall Metal Stud Framing</td>
</tr>
</tbody>
</table>

**Date/s-Time/s Solicited by Phone:**

Person Contacted and Comments for Solicitation:

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Address</th>
<th>Phone</th>
<th>Fax</th>
<th>Email</th>
<th>Work Categories</th>
</tr>
</thead>
</table>
Company Name: NIX GRID INC
Address: 3109 TOMLINSON ST, BAKERSFIELD, CA, USA, 93313
Phone: 6618327087
Fax: 6618327087
Email: Amador55@att.net
Work Categories: COMMERCIAL, Engineering, Solar, Energy, Grid, ELECTRICAL, GENERAL, GENERAL, MICRO, COMMERCIAL

Date/s-Time/s Solicited by Phone:
Person Contacted and Comments for Solicitation :

Company Name: Good Life Engineering
Address: 6408 Caracas Ct, Bakersfield, CA, USA, 93313
Phone: 6613641575
Fax: Not Available
Email: dirt.mover.gle@gmail.com
Work Categories: Grading, Trenching, Cold-Planing, Asphalt-Grinding, Vegetation-clearing, mastication, Site-cleanup,

Date/s-Time/s Solicited by Phone:
Person Contacted and Comments for Solicitation :

Company Name: Steven M Fowler Construction Inc
Address: 7114 ST. ANDREWS DRIVE, BAKERSFIELD, CA, USA, 93309
Phone: 6613024985
Fax: 6613024983
Email: steve@smfcinc.net
Work Categories: General, Contractor

Date/s-Time/s Solicited by Phone:
Person Contacted and Comments for Solicitation :

Company Name: CFP Designs Inc
Address: 3121 N. Sillect Ave. Unit #300, Bakersfield, CA, USA, 93308
Phone: 6619038940
Fax: Not Available
Email: dan@dlbfire.com
Work Categories: Fire Suppression System

Date/s-Time/s Solicited by Phone:
Person Contacted and Comments for Solicitation :

Company Name: LCS ELECTRICAL AND INDUSTRIAL SERVICE, INC.
Address: 3600 PEGASUS DRIVE #11, BAKERSFIELD, CA, USA, 93308
Phone: 6615358280
Fax: 6615358279
Email: lester@quantumindustries.net
Work Categories: ELECTRICAL CONTRACTING, INSTRUMENTATION SERVICES

Date/s-Time/s Solicited by Phone:
Person Contacted and Comments for Solicitation:

Company Name: DENNIS A SMITH
Address: 12800 Jasmine Ave, BAKERSFIELD, CA, USA, 93312
Phone: 6613453276
Fax: 6616649705
Email: dsls8449@gmail.com
Work Categories: Topography, GPS Surveys, Legal descriptions, Staking, Construction, Elevation Certificates, ALTA Surveys, Right of Way, Boundary Survey

Date/s-Time/s Solicited by Phone:
Person Contacted and Comments for Solicitation:

Company Name: K2 Construction
Address: 2064 W Ave J PMB 391, Lancaster, CA, USA, 93536
Phone: 6618161279
Fax: Not Available
Email: mattkelpis@gmail.com

Date/s-Time/s Solicited by Phone:
Person Contacted and Comments for Solicitation:

Company Name: RYMAC GENERAL CONTRACTING, INC
Address: 15440 Joseph Phelps Ave, Bakersfield, CA, USA, 93314
Phone: 6619324488
Fax: Not Available
Email: rymac-gc@att.net
Work Categories: General Contractor, Contractor, Construction, Building

Date/s-Time/s Solicited by Phone:
Person Contacted and Comments for Solicitation:

Company Name: SHE MARINE CONSTRUCTION SUPPLY
Address: P.O. Box 3726, Lake Isabella, CA, USA, 93240
Phone: 661.447.1817
Fax: 661.200.7916
Email: rebecca@wersmcs.com
Work Categories: STEEL PIPE VALVE FLANGE CLAMP PVC STAINLESS STEEL COUPLING THREADED NIPPLE CONNECTOR BUSHING, erosion control, rebar, SUPPLY, TUBULAR, PVF, COUPLING, CONNECTOR, THREADED PVC, GAUGE, FITTING, NIPPLE, COMMERCIAL, INDUSTRIAL, STEEL, RAIL, VALVE, FLANGE, PIPE LINER, ACTUATOR, PIPE
Company Name: IECLT, INC
Address: 44943 10th St West, LANCASTER, CA, USA, 93534
Phone: 6613050177
Fax: 6617937140
Email: lee_poorman@yahoo.com
Work Categories: Landscape, Facilities, Janitorial, Construction, Hardscape, and Landscape, Control, Pesticide, Irrigation, Abatement, Weed, Removal, Trimming, Tree Inclining, Services, Maintenance

Company Name: REMODELING UNLIMITED
Address: 45446 7TH ST E SPC 20, LANCASTER, CA, USA, 93535
Phone: 6612120627
Fax: Not Available
Email: Rppepler@gmail.com
Work Categories: Carpentry, Shelves, Decks, Patio Repair and Replace, Door Replacing, Drywall Texture and Finishing, Drywall Refinishing, Door Refinishing, Finish Carpentry, Drywall Patch and Repair, Drywall Repair and Installation, Door Hardware Repair, Replacement and Installer, Doors Replacement and Restore, Window Replacement, Repair and Restore, Door Repair and Replace, Door Installation, Door Installer

Company Name: Tony Vacca Construction, Inc.
Address: 408 Bryant Circle F-2, Ojai, CA, USA, 93023
Phone: 8056402410
Fax: Not Available
Email: tvaccaconstruc@aol.com
Work Categories: General Construction

Company Name: DVBE LOW VOLTAGE SYSTEMS INC
Address: 26333 EMERALD DOVE DRIVE, VENTURA, CA, USA, 91355
Phone: 8185357999
Fax: 8184502577
Email: rett@dvbelowvoltage.com

Company Name: JB WHOLESALE ROOFING & BUILDING SUPPLIES, INC.
Address: P O BOX 5289, CHATSWORTH, CA, USA, 91313-5289
Company Name: BENTLEY CONSTRUCTION GROUP INC  
Address: 240 FORD AVE, VENTURA, CA, USA, 93003  
Phone: 8056470748  
Fax: Not Available  
Email: woodybcsi@sbcglobal.net  
Work Categories: General, electrical, HAZ, Plumbing, Conditioning, Air, ventilating, heat, air, Warm, Electrical, Contractor, Building, Engineering  

Date/s-Time/s Solicited by Phone:  
Person Contacted and Comments for Solicitation:

Company Name: SEAL TEAM CONSTRUCTION INC  
Address: 18653 VENTURA BLVD STE 251, TARZANA, CA, USA, 91356  
Phone: 8183427767  
Fax: 8183427167  
Email: sealteamconstruction@gmail.com  
Work Categories: HVAC, General Construction  

Date/s-Time/s Solicited by Phone:  
Person Contacted and Comments for Solicitation:

Company Name: VET CON LLC  
Address: 1525 E NOBLE AVE STE 386, VISALIA, CA, USA, 93292-3043  
Phone: 559.627.5601  
Fax: 559.747.7101  
Email: evab@vetconconstruction.com  
Work Categories: General Construction  

Date/s-Time/s Solicited by Phone:  
Person Contacted and Comments for Solicitation:

Company Name: Guard Building Corp.  
Address: 840 E Green St #218, Pasadena, CA, USA, 91101  
Phone: 18005412041  
Fax: Not Available  
Email: herman@guardbuildingcorp.com  
Work Categories: General Contractor, Paving, Concrete, Minor B Contracts, Emergency Work, Metal Stud, Public Works, Road Barrier, Road Maintenance, Transportation Service, demolition, demo, drywall, service contract, build, design, interior finishes, exterior finishes, commercial, industrial, land development, single family, multi family, DVBE  

Date/s-Time/s Solicited by Phone:  
Person Contacted and Comments for Solicitation:
MONACO MECHANICAL, INC.
5742 VENICE BOULEVARD, LOS ANGELES, CA, USA, 90019
3239399990
beni@monacomech.com
PLUMBING, STEAM FITTING, HOT WATER HEATING, BOILER, PIPING

TL VETERANS CONSTRUCTION INC
520 S La Fayette Park Place #101, Los Angeles, CA, USA, 90057
2133252725
harrison.lee@tlveterans.com
GENERAL, CARPENTRY, PAINTING, CONTRACTOR, BUILDING

TEXTURE SPECIALTIES, INC.
295 MCCREARY AVE, HANFORD, CA, USA, 93230
5599046047
Kristin62727@yahoo.com
subcontractor for exterior finishes such as lath and plaster

BROWNS ELECTRICAL
1673 E ALVIN AVE, SANTA MARIA, CA, USA, 93454
8052600791
browngary971@aol.com
electrical, HVAC, controls, fire, communications, telephone, consulting, electrical, data, and, voice, voltage, low, supplies, solar, materials, construction, supplies, electrical, supplies, hardware, materials, construction

Angelica molina
502 E 61st street, Los angeles, CA, USA, 90003
21342281811
molina.angelica3@gmail.com
HVAC
Company Name: Douglas Doors
Address: 509B Tiffany dr, Santa Maria, CA, USA, 93454
Phone: 8052664492
Fax: Not Available
Email: douglasdoorrepair@gmail.com
Work Categories: Doors and windows and glass

Date/s-Time/s Solicited by Phone:
Person Contacted and Comments for Solicitation:

Company Name: K.J. CAIN CO. INC
Address: 4692 Woodmere Rd, SANTA MARIA, CA, USA, 93455
Phone: 8053108111
Fax: Not Available
Email: kareem@kjcainc.com
Work Categories: HVAC, DVBE, SDVOSB, MATERIAL, DRYWALL, STUCCO, PLUMBING, ELECTRICAL

Date/s-Time/s Solicited by Phone:
Person Contacted and Comments for Solicitation:

Company Name: V. LOPEZ JR. & SONS G.E.C., INC.
Address: P O BOX 488, SANTA MARIA, CA, USA, 93456
Phone: 8059281198
Fax: 8059288262
Email: vince@vlopezjrandsons.com
Work Categories: EXCAVATION, DEMOLITION, ASPHALT, CONCRETE, GRADING, UTILITIES, UNDERGROUND

Date/s-Time/s Solicited by Phone:
Person Contacted and Comments for Solicitation:

Company Name: REBEL CONCRETE BREAKING SERVICE
Address: 1618 E 87TH PL, LOS ANGELES, CA, USA, 90002-1348
Phone: 3235749974
Fax: 3108351324
Email: cpreciado@rebelcontracting.com
Work Categories: ASPHALT, CONCRETE, PAVING & REPAIR UTILIZATION. Form Work-- LAY FOUNDATIONS, CONCRETE REPLACEMENT, SAW CUTTING, PREP, CLEAN UP, TRUCK & TRACTOR WORK, CAR BUMPERS, LINE STRIPING SITE, EXCAVATION, DEMOLITION & GRADING

Date/s-Time/s Solicited by Phone:
Person Contacted and Comments for Solicitation:

Company Name: Kenyatta Construction
Address: 2930 W Imperial Hwy Ste 506, Inglewood, CA, USA, 90303
Phone: 2135703609
Fax: 3237799957
Email: mkenyatta01@gmail.com
Work Categories: General Construction Services,

Date/s-Time/s Solicited by Phone:
Person Contacted and Comments for Solicitation:
E. Proofs of Email Bid Invitations

Attn: DMS BKL Drywall & Interior Systems Inc
2900 E Belle Terr Unit A
Bakersfield, CA, 93307

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AWARDING AGENCY: Kern Community College District
CONTRACT #: 661-316-0100
LOCATION: Arvin, California, 93203
DUE DATE: 27-07-2022 at 02:00 PM

Quotes are needed for:
Site Demo/Earthwork, Site Utilities, Site Concrete, AC Paving, Landscape/Irrigation, Structural Concrete, Masonry, Structural Steel/Misc.
Iron, General Construction/Doors/Frames/Hardware, Insulation, Metal Roofing, PVC Roofing, Alum. Doors/Windows/Glass/Glazing,
Metal Studs/EIFS/Drywall, Ceramic Tile, Acoustical Ceilings/FRP, Painting, Architectural Specialties, Toilet Partitions/Accessories, Fire
Sprinkler System, Plumbing, HVAC/Sheet Metal, and Electrical.

See the entire bid invitation at: https://www.compliancenews.com//trade-journal-detail/1/1585

LET US KNOW IF YOU PLAN TO BID

Email: pphillips@colomboconstruction.com
Tel: 661-316-0100
Fax: 661-215-5130

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Iron, General Construction/Doors/Frames/Hardware, Insulation, Metal Roofing, PVC Roofing, Alum. Doors/Windows/Glass/Glazing,
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Attn: CFP Designs Inc
3121 N. Sillect Ave. Unit #300
Bakersfield, CA, 93308

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Attn: DENNIS A SMITH
12800 Jasmine Ave
BAKERSFIELD, CA, 93312

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Iron, General Construction/Doors/Frames/Hardware, Insulation, Metal Roofing, PVC Roofing, Alum. Doors/Windows/Glass/Glazing,
Metal Studs/EIFS/Drywall, Ceramic Tile, Acoustical Ceilings/FRP, Painting, Architectural Specialties, Toilet Partitions/Accessories, Fire
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AWARDING AGENCY: Kern Community College District
CONTRACT #: 661-316-0100
LOCATION: Arvin, California, 93203
DUE DATE: 27-07-2022 at 02:00 PM

Quotes are needed for:

See the entire bid invitation at: https://www.compliancenews.com//trade-journal-detail/1/1585

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Tel: 661-316-0100
Fax: 661-215-5130

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Attn: Guard Building Corp. 
840 E Green St #218 
Pasadena, CA, 91101 

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Quotes are needed for:
Site Demo/Earthwork, Site Utilities, Site Concrete, AC Paving, Landscape/Irrigation, Structural Concrete, Masonry, Structural Steel/Misc.
Iron, General Construction/Doors/Frames/Hardware, Insulation, Metal Roofing, PVC Roofing, Alum. Doors/Windows/Glass/Glazing,
Metal Studs/EIFS/Drywall, Ceramic Tile, Acoustical Ceilings/FRP, Painting, Architectural Specialties, Toilet Partitions/Accessories, Fire
Sprinkler System, Plumbing, HVAC/Sheet Metal, and Electrical.

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Tel: 661-316-0100
Fax: 661-215-5130
Outreach Coordinator: Priscilla Phillips
Email: pphillips@colomboconstruction.com

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LOCATION: Arvin, California, 93203
DUE DATE: 07-27-2022 at 02:00 PM
CONTRACT#: 661-316-0100
AWARDING AGENCY: Kern Community College District

Quotes are needed for:

See the entire bid invitation at: https://www.compliancenews.com/trade-journal-detai/1/1585

PLEASE INDICATE IF YOU WILL BE BIDDING ON THIS PROJECT

You can email or fax back this invitation with your response

Yes, we will send you a fax quote by the bid date.

No, we are not interested in your bid invite

We are interested, but we would like to see more information. Please contact us at:

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Attn: VET CON LLC  
1525 E NOBLE AVE STE 386  
VISALIA, CA, 93292-3043  

INVITATION TO BID  

From:  
Colombo Construction Co., Inc.  
3211 Rio Mirada Drive  
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Attn: REBEL CONCRETE BREAKING SERVICE
1618 E 87TH PL
LOS ANGELES, CA, 90002-1348

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<td><a href="mailto:kkuhn@sfinteriorsinc.com">kkuhn@sfinteriorsinc.com</a></td>
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<td>Good Life Engineering</td>
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<td>Jul-05-2022</td>
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<td>02:49 pm PST</td>
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<td>Jul-05-2022</td>
<td>02:50 pm PST</td>
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<td>DENNIS A SMITH</td>
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<td>K2 Construction</td>
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<td>02:50 pm PST</td>
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<td><a href="mailto:rebecca@wersmcs.com">rebecca@wersmcs.com</a></td>
<td>Sent</td>
<td>Jul-05-2022</td>
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<td><a href="mailto:lvaccaconstruc@aol.com">lvaccaconstruc@aol.com</a></td>
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02-INSTRUCTIONS TO BIDDERS

WARNING: READ THIS DOCUMENT CAREFULLY
DO NOT ASSUME THAT IT IS THE SAME AS OTHER
SIMILAR DOCUMENTS YOU MAY HAVE SEEN
EVEN IF FROM THE SAME OWNER

PROJECT TITLE/BID #: ARVIN EDUCATIONAL CENTER MEASURE J PROJECT
OWNER: KERN COMMUNITY COLLEGE DISTRICT

1. Preparation of Bid Form.

The Owner invites bids on the form attached to be submitted at the time and place stated
in the Notice to Contractors Calling for Bids. Bids shall be submitted on the prescribed
Bid Form, completed in full. All bid items and statements shall be properly and legibly
filled out. Numbers shall be stated both in words and in figures where so indicated, and
where there is a conflict in the words and the figures, the words shall govern. The
signatures of all persons shall be in longhand. Prices, wording, and notations must be in
ink or typewritten.

2. Form and Delivery of Bids.

The bid must conform to and be responsive to all Contract Documents and shall be made
on the Bid Form provided. The complete bid, together with any additional materials
required, shall be enclosed in a sealed envelope, addressed and hand-delivered or
mailed to the Owner at the address set forth in the Notice to Contractors Calling for Bids,
and must be received on or before the time set for the opening of bids. The envelope
shall be plainly marked in the upper left-hand corner with the bidder's name, the project
designation, and the date and time for the opening of bids. It is the bidder's sole
responsibility to ensure that its bid is received prior to the bid deadline. In accordance
with Government Code Section 53068, any bid received after the scheduled closing time
for receipt of bids shall be returned to the bidder unopened.

At the time set for the opening of bids, the sealed bids will be opened and publicly read
aloud at the place indicated in the Notice to Contractors Calling for Bids. However, if this
project calls for prequalification of bidders pursuant to Public Contract Code Section
20111.5, only those sealed bids received from bidders who have been prequalified for at
least one day prior to bid opening shall be opened and publicly read aloud.


Each bid shall be accompanied by a bid security in cash, a certified or cashier's check, or
bid bond in an amount not less than 10 percent of the total bid price payable to the
Owner. The bid security shall be given as a guarantee that if awarded the contract the
bidder will execute and return the Construction Agreement within 10 working days after.
award of the contract and will furnish on the prescribed forms a satisfactory Payment (labor and material) Bond and separate Performance Bond, in accordance with the Contract Documents and Civil Code Sections 9550 et seq., and certificates evidencing that the required insurance is in effect in the amounts set forth in the Contract Documents. In case of refusal or failure to timely execute the Construction Agreement and furnish the required bonds and insurance certificates, the bid security shall be forfeited to the Owner. If the bidder elects to furnish a bid bond as its bid security, the bidder shall use the bid bond form included in the Contract Documents, unless the Owner elects to waive the use of the form provided, in its sole discretion.

4. **Signature.**

At the various times such documents are required to be submitted, the Bid Form, all bonds, the Designation of Subcontractors form, all Information Required of Bidder or prequalification forms, Workers Compensation Certificate, Drug-Free Workplace Certification, Non-Collusion Affidavit, Asbestos and Lead Based Paint Certification, Iran Contracting Act Certification, the Construction Agreement, and all Guarantees must be signed in the name of the bidder and must bear the signature of the person or persons duly authorized to sign these documents. Where indicated, if bidder is a corporation, the legal name of the corporation shall first be set forth, together with two signatures: one from among the chairman of the board, president, or vice president, and one from among the secretary, chief financial officer, or assistant treasurer. Alternatively, the signature of other authorized officers or agents may be affixed, if duly authorized by the corporation. Such documents shall include the title of such signatories below the signature and shall bear the corporate seal. Where indicated, if bidder is a joint venture or partnership, the bidder shall submit with the bid certifications signed by authorized officers of each of the parties to the joint venture or partnership, naming the individual (1) who shall be the agent of the joint venture or partnership, (2) who shall sign all necessary documents for the joint venture or partnership and, (3) should the joint venture or partnership be the successful bidder, who shall act in all matters relative to the resulting contract for the joint venture or partnership. If bidder is an individual, his/her signature shall be placed on such documents.

5. **Modifications.**

Changes in or additions to any of the bid documents, the summary of the work bid upon, or the alternative proposals, or any other modifications which are not specifically called for by the Owner, may result in the Owner’s rejection of the bid as not being responsive. No oral or telephonic modification of any bid will be considered. However, prior to the opening of bids, a telegraphic modification signed by the bidder and postmarked and received prior to the opening of bids, or a facsimile modification duly signed by the bidder received prior to the opening of bids, may be considered if included within a sealed bid.
6. **Erasures, Inconsistent, or Illegible Bids.**

The bid submitted must not contain any erasures, interlineations, or other corrections unless each correction creates no inconsistency and is suitably authenticated and noted by signature of the bidder. In the event of inconsistency between words and figures in the bid, words shall control figures. In the event the Owner determines that any bid is unintelligible, illegible, or ambiguous, the Owner may reject the bid as not being responsive.

7. **Examination of Site and Contract Documents.**

At its own expense and prior to submitting bids, each bidder shall examine all documents relating to the project, visit the site, and determine the local conditions which may in any way affect the performance of the work, including the general prevailing rate of per diem wages and other relevant cost factors. Each bidder shall be familiar with all federal, state, and local laws, ordinances, rules, regulations, and codes affecting the performance of the work, including the cost of permits and licenses required for the work. Each bidder shall make such surveys and investigations, including investigation of subsurface or latent physical conditions at the site or where work is to be performed, as it may deem necessary for performance of the work at the price being bid. Each bidder shall determine the character, quality, and quantities of the work to be performed and the materials and equipment to be provided, and shall correlate its observations, investigations, and determinations with all requirements of the project.

The Contract Documents show and describe the existing conditions as they are believed to have been used in the design of the work and are only provided as information for the bidder. **The Owner is not making any warranties regarding this information.** **The Owner shall not be liable for any loss sustained by the successful bidder resulting from any variance between the conditions and design data given in the Contract Documents and the actual conditions revealed during the bidder's pre-bid examination or during the progress of the work.** Bidder agrees that the submission of a bid shall be incontrovertible evidence that the bidder has complied with and agrees to further comply with all the requirements of this section.

8. **Withdrawal of Bids.**

Any bid may be withdrawn, either personally, by written request, or by telegraphic or facsimile request confirmed in the manner specified above for bid modifications, at any time prior to the scheduled closing time for receipt of bids. In accordance with this paragraph, the bid security shall be returned for bids withdrawn prior to the scheduled closing time for receipt of bids. No bidder may withdraw any bid for a period of 60 days after the award of the contract. A bidder’s unawarded alternative bids remain open for a period of six months after award of contract as irrevocable offers to enter into either change orders or separate contracts for the stated price adjustment.
9. **Agreement and Bonds.**

The Construction Agreement and the form of the Payment and Performance Bonds which the successful bidder as Contractor will be required to execute are included in the Contract Documents and should be carefully examined by the bidder. The Payment Bond shall be in an amount not less than 100 percent of the amount of the contract in accordance with Civil Code section 9554. The successful bidder as Contractor will also be required to furnish a separate Performance Bond in the amount of 100 percent of the contract amount. Sufficient bonds shall be fully executed and returned to Owner with the executed Construction Agreement.

10. **Interpretation of Contract Documents.**

If any bidder is in doubt as to the true meaning of any part of the Contract Documents, or finds discrepancies in or omissions from the drawings and specifications, a written request for an interpretation or correction shall be submitted to the Owner. The bidder submitting the written request shall be responsible for its prompt delivery. Any interpretation or correction of the Contract Documents will be made only by addendum issued by the Owner, and a copy of any addendum will be hand-delivered, mailed, or faxed to each bidder known to have received a set of the Contract Documents. No person is authorized to make any oral interpretation of any provision in the Contract Documents, nor shall any oral interpretation be binding on the Owner. If there are discrepancies on drawings, plans, or specifications, or conflicts between drawings, plans, specifications, terms, or conditions, the interpretation of the Owner shall prevail. Bidder shall become familiar with the plans, specifications, and drawings.

**SUBMISSION OF A BID WITHOUT REQUESTING CLARIFICATIONS SHALL BE INCONTOVERTIBLE EVIDENCE THAT THE BIDDER HAS DETERMINED THAT THE PLANS, SPECIFICATIONS, AND DRAWINGS ARE SUFFICIENT FOR BIDDING AND COMPLETING THE WORK, THAT BIDDER IS CAPABLE OF READING, FOLLOWING AND COMPLETING THE WORK IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS, AND DRAWINGS, AND THAT THE PROJECT CAN AND WILL BE COMPLETED ACCORDING TO THE OWNER’S TIME LINES AND ACCORDING TO THE PROGRESS SCHEDULE TO BE SUBMITTED BY THE SUCCESSFUL BIDDER INCORPORATING THE OWNER’S TIME LINES FOR COMPLETION OF THE PROJECT.**

11. **Bidders Interested in More Than One Bid.**

No person, firm, or corporation shall be allowed to make or file or be interested in more than one bid for the same work unless alternate bids are specifically called for by the Owner. A person, firm, or corporation that has submitted a sub-proposal to a bidder, or that has quoted prices of materials to a bidder, is not disqualified from submitting a
12. **Award of Contract.**

(a) The Owner reserves the right to reject any or all bids, or to waive any irregularities or informalities in any bids or in the bidding process, and to award more than one contract. If two identical low bids are received from responsive and responsible bidders, the Owner will determine which bid will be accepted pursuant to Public Contract Code Section 20117.

(b) If made by the Owner, award of the contract will be by action of the governing board or other governing body to the lowest responsive and responsible bidder. In the event an award of the contract is made to a bidder and that bidder fails or refuses to execute the Agreement and provide the required documents within the time required, the Owner may award the contract to the next lowest responsive and responsible bidder or release all bidders. An election by the Owner to reject all bids does not release the bid security of any bidder who has previously been awarded the contract and failed or refused to execute the Agreement and provide the required documents.

(c) In ascertaining the low bidder, the bids will be examined without reference to any substitutions requested by any bidder, whether or not the substitution request would result in a modification of the contract price.

13. **Alternatives.**

If alternate bids are called for, the contract will be awarded to the lowest responsive and responsible bidder on the basis indicated in the Notice to Contractors Calling for Bids. Owner reserves the right to award or reject any, all, or any combination of the alternates called for in the bid documents, whether or not the alternate(s) was included in the calculations used to identify the low bidder. All bid alternates not part of the contract initially awarded by Owner shall remain open and valid for a period of six months after the contract is awarded as irrevocable offers to enter into either change orders or separate contracts on the items for the price adjustment contained in the bid alternate.

14. **Public Contract Code Section 20111.5—Discretionary Prequalification of Bidders.**

[check one]

- [ ] Discretionary Prequalification is not required to bid on this project.
- [ ] Discretionary Prequalification is required to bid on this project. Prospective bidders are required to submit to the Owner a completed prequalification questionnaire and financial statement, on forms provided by the Owner, no later than five days prior to the date fixed for the public opening of sealed bids. These
documents will be the basis for determining which bidders are qualified to bid the project. Bidders will be notified by telephone and mail of their prequalification status within four days after submission of prequalification documents. Bids will not be accepted from any bidder who has not been prequalified at least one day prior to the bid opening. Pursuant to Public Contract Code Section 20111.5, the information in the prequalification questionnaire and financial statement will be kept confidential. Prequalification documents may be obtained by contacting the Owner or by downloading them from N/A (this project).

15. Public Contract Code Section 20111.6—Mandatory Prequalification of General Contractors and Mechanical, Electrical and Plumbing Subcontract Bidders.

[check one]

☑ Mandatory Prequalification of general contractors and mechanical, electrical and plumbing subcontractors is not required to bid on this project.

☐ Mandatory Prequalification of general contractors and mechanical, electrical and plumbing subcontractors is required to bid on this project. Prospective bidders holding licenses in classifications A, B, C-4, C-7, C-10, C-20, C-24, C-34, C-36, C-38, C-42, C-43 and C-46 are required to submit to the Owner a completed prequalification questionnaire and financial statement, on forms provided by the Owner, no later than ten (10) working days prior to the date fixed for the public opening of sealed bids. These documents will be the basis for determining which bidders in the listed license categories are qualified to bid the project. Bidders will be notified by telephone, mail or email of their prequalification status within five (5) working days after submission of prequalification documents. Bids will not be accepted from any bidder who is required to prequalify and who has not been prequalified at least five (5) working days prior to the bid opening. Pursuant to Public Contract Code Section 20111.6, the information in the prequalification questionnaire and financial statement will be kept confidential. Prequalification documents may be obtained by contacting the Owner or by downloading them from N/A (this project).

15. Competency of Bidders.

In selecting the lowest responsive and responsible bidder, consideration will be given not only to the financial standing but also to the general competency of the bidder for performance of the work. By submitting a bid, each bidder agrees that in determining the successful bidder and its eligibility for the award, the Owner may consider the bidder's experience, facilities, conduct, and performance under other contracts, financial condition, reputation in the industry, and other factors relating to or which could affect the bidder's performance of the project.

The Owner may also consider the qualifications and experience of subcontractors and
other persons and organizations (including those who are to furnish the principal items of material and equipment) proposed for those portions of the work. Operating costs, maintenance considerations, performance data, and guarantees of materials and equipment may also be considered by the Owner. In this regard, the Owner may conduct such investigations as the Owner deems necessary to assist in the evaluation of any bid and to establish the responsibility, qualifications, and financial ability of the bidder, proposed subcontractors, and other persons and organizations to do the work to the Owner’s satisfaction within the prescribed time. The Owner reserves the right to reject the bid of any bidder who does not pass any such evaluation to the satisfaction of the Owner, or in the Owner’s sole discretion, to permit substitution of subcontractor(s) found non-responsible.

16. **Listing Subcontractors.**

Each bidder shall submit a list of the proposed subcontractors, including their address, California contractor’s license number and DIR Registration number, on the project as required by the Subletting and Subcontracting Fair Practices Act (Public Contract Code Section 4100 and following sections) on the form furnished with the Contract Documents. If alternate bids are called for and the bidder intends to use different or additional subcontractors, a separate list of subcontractors must be submitted for each such alternate bid. The Owner may request that bidder submit information to assess the responsibility of the bidder’s proposed subcontractors. The apparent low bidder shall, within 24 hours of the bid opening, provide a complete listing of all subcontractors, including full name, address, telephone numbers, contractor’s license number and type and DIR Registration number.

17. **Workers’ Compensation.**

In accordance with the provisions of Labor Code Section 3700, the successful bidder shall secure the payment of compensation to all employees. The successful bidder awarded the contract shall sign and file with the Owner, at the time of returning the executed Construction Agreement, the certificate which is included as a part of the Contract Documents.

18. **Contractor’s License.**

At the bid opening date and time, if a bidder is not properly licensed and registered to perform the project in accordance with Division 3, Chapter 9, of the California Business and Professions Code, Labor Code section 1725.5 and the Notice Calling for Bids, as required, that bidder’s bid will be rejected as non-responsive. Business and Professions Code Section 7028.15 precludes payment for work or materials unless the Registrar of Contractors verifies to the Owner that the bidder was properly licensed at the time the bid was submitted. If this project is federally funded, the bidder must be properly licensed prior to the award of the contract. Any bidder not properly licensed and registered with DIR is subject to penalties under the law and the contract can be considered void. If the
license classification specified in these Contract Documents is that of a “specialty contractor” as defined in Business and Professions Code Section 7058, the specialty contractor awarded the contract for this work shall construct a majority of the work in accordance with the provisions of Business and Professions Code Section 7059.

19. **Anti-Discrimination.**

It is the policy of the Owner that in all work performed under contracts there be no unlawful discrimination against any prospective or active employee engaged in the work because of race, color, ancestry, national origin, religious creed, sex, age, marital status, physical disability, mental disability, or medical condition. The successful bidder agrees to comply with applicable federal and state laws, including but not limited to the California Fair Employment and Housing Act, beginning with Government Code Section 12900 and Labor Code Section 1735. In addition, the successful bidder agrees to require like compliance by any subcontractors employed on the work by that bidder.

20. **Hold Harmless.**

The successful bidder awarded the contract shall hold harmless and indemnify various parties as more clearly set forth elsewhere in the Contract Documents.

21. **Substitutions.**

(a) All bids should be calculated and submitted on the project as described in the bid documents, and on the assumption that substitution requests submitted with the bid will not be approved. Notwithstanding the foregoing, substitution requests submitted with bids will be given due consideration and adjustments to the contract, which may include adjustment to contract price, will be contained in a change order should the request be approved. Bidders not desiring to bid without prior approval of a proposed substitution should follow the procedure contained in this section for pre-bid review of proposed substitutions.

(b) Should the bidder wish to request prior to bid opening any substitution for the specified materials, process, service, or equipment, the bidder shall submit a written request at least ten (10) working days before the bid opening date and time. If the requested substitution is acceptable, the Owner will approve it in an addendum issued to all bidders of record. Requests received less than ten (10) working days prior to bid opening will not be considered prior to the bid date. Extensions of the bid date shall not operate to extend the deadline for requesting substitutions unless the Owner so states in an addendum issued to all bidders of record.

(c) If a substitution is not requested and considered prior to the bid date, the bidder shall submit with the bid all proposed substitutions, if any, on the Substitution Listing form contained in the bid documents.
(d) With respect to any materials, process, service, or equipment listed in the bid, unless the bidder clearly indicates in its Substitution Listing that it is proposing to use an "equal" material, process, service, or equipment, its bid shall be considered as offering the specified material, process, service, or equipment referred to by the brand name or trade name specified.

(e) Unless expressly authorized in the bid documents, no bid may be conditioned on the Owner’s acceptance of a proposed substitution. Any bid containing any such condition may be treated as a non-responsive bid.

(f) It is expressly understood and agreed that the Owner reserves the right to reject any proposed substitution. It is further expressly understood and agreed that in the event the Owner rejects a proposed “equal” item, or any other requested substitution, the specified material, process, service, or equipment designated by brand name or trade name, or other item as specified, will be provided.

(g) No substitution request of any kind or nature may be made after the bid date, except by the express written permission of the Owner and on such terms as Owner may require, or in an emergency, as in the case where a specified material, process, service, equipment, or other item has become unavailable through no fault of the bidder.

(h) These time limitations shall be complied with strictly, and in no case will an extension of time for completion be granted because of the failure to request the substitution of an item at the times and in the manner set forth herein.

(i) Prior to contract award, the Owner shall notify the bidder of the Owner’s decision concerning proposed substitutions of “equal” items submitted with the bid. The Owner shall notify bidder of the Owner’s decision on any other proposed substitutions as those decisions are made. Notification of all decisions by the Owner shall be in writing, and no proposed substitution shall be deemed approved unless the Owner has confirmed it in writing.

(j) With respect to all proposed substitutions, the requirements applicable to the Contractor in the Contract Documents shall be applicable to all bidders requesting substitutions.

22. **Surety Qualifications.**

Bid bonds executed by a surety insurer admitted in the State of California for purposes of issuance of such bonds will be accepted by Owner as sufficient.

Payment and/or performance bonds executed by a surety insurer admitted in the State of
California with a minimum “A minus, VIII” rating (A minus V” when the price stated in the Contract Documents is less than $500,000) as rated by the current edition of Best’s Key Rating Guide published by A.M. Best Company, Oldwick, New Jersey 08858, shall be presumed by Owner to be sufficient for the issuance of such bonds. In the alternative, any admitted surety company which satisfies the requirements set forth in Code of Civil Procedure Section 995.660 shall be accepted and approved for the issuance of bonds, and documents demonstrating satisfaction of the requirements of Section 995.660 with respect to the bid bond must be submitted with the bid. No personal sureties will be accepted.

23. **Liquidated Damages.**

All work must be completed within the time limits set forth in the Contract Documents. Bidders must understand that the goodwill, educational process, and other business of the Owner will be damaged if the project is not completed within the time limits required. Should the work not be completed within the specified time for completion, the successful bidder awarded the contract may be liable for liquidated damages and for expenses incurred by the Owner for failure to timely complete the project. Such damages shall be deducted from any payments due or to become due to the successful bidder.

**SUBMISSION OF A BID ON THIS PROJECT SHALL BE TAKEN AS CONCLUSIVE AND IRREFUTABLE EVIDENCE THAT BIDDER AGREES WITH THE REQUIREMENTS OF THIS SECTION.**

24. **Drug-Free Workplace Certification.**

Pursuant to Government Code section 8350 and following, the successful bidder will be required to execute and return to Owner the Drug-Free Workplace Certificate contained in the Contract Documents with the executed Construction Agreement. The bidder will be required to take positive measures outlined in the certificate to ensure the presence of a drug-free workplace. Failure to abide with the conditions set forth in the Drug-Free Workplace Act could result in penalties, including termination of the Construction Agreement or suspension of payment under the Construction Agreement.

25. **Non-Collusion Declaration.**

In accordance with the provisions of Public Contract Code section 7106, each bid must be accompanied by a Non-Collusion Declaration executed under penalty of perjury under the laws of the State of California.

26. **Implementation of Disabled Veteran Business Enterprises Requirements.**

In accordance with Education Code Section 17076.11, the Owner has a participation goal for disabled veteran business enterprises of at least three percent per year of the overall dollar amount of funds allocated to the Owner by the State Allocation Board pursuant to
the Leroy F. Greene School Facilities Act of 1998 for construction or modernization and expended each year by the Owner. Prior to and as a condition precedent for final payment under any contract for this project, the successful bidder will be required to provide appropriate documentation to the Owner identifying the amount paid to disabled veteran business enterprises in conjunction with the contract, so the Owner can assess its success at meeting this goal.

27. Asbestos and Lead-Based Paint Certification.

The form of Contractor's Certificate Regarding Non-Asbestos Containing Materials and Exclusion of Lead Products, as contained in the Contract Documents, shall be executed and submitted with the bid.

28. Fingerprinting Requirements.

The successful bidder and all subcontractors at any level will be required to comply with any applicable laws on fingerprinting construction workers. Minimum requirements are set forth in the Contract Documents, and the form for certification of compliance is contained in the Contract Documents. The successful bidder must complete and return this form when directed by Owner.

29. California Products.

Price, fitness, and quality being equal with regard to supplies, the Owner may prefer supplies grown, manufactured, or produced in California. The Owner may next prefer supplies partially grown, manufactured, or produced in California. Where the Owner has a preference, the bids of the suppliers or the prices quoted by them (i) must not exceed by more than five percent the lowest bids/prices quoted by out-of-state suppliers, (ii) the major portion of the manufacture of the supplies is not done outside of California, and (iii) the public good will be served. Refer to specifications for indications of Owner preferences. Government Code Sections 4330-4334.

30. Contractor License And DIR Registration Required.

To perform the work required for this project, Bidder must possess the type of contractor’s license specified in the Notice to Contractors Calling for Bids, and must be registered with the Department of Industrial Relations (DIR) as a public works contractor. Contractor registration can be accomplished through the portal https://efiling.dir.ca.gov/PWCR/. No CONTRACTOR or subcontractor shall be qualified to bid on, be listed in a bid proposal, subject to the requirements of § 4104 of the Public Contract Code, for a public works project (submitted on or after March 1, 2015) unless currently registered with the DIR and qualified to perform public work pursuant to Labor Code § 1725.5. No CONTRACTOR or subcontractor may be awarded a contract for public work on a public works project (awarded after April 1, 2015) unless registered with the DIR.
31. **Post-Bid Credits.**

Should any bidder or proposed subcontractor to any bidder issue any credit or otherwise reduce its bid or quote pertaining to the work of this project, the value of the credit or other reduction shall be passed on to the Owner less only the applicable markups for profit and overhead as specified in the Contract Documents on change orders.

32. **Contents of Bid.**

The bid will include the following documents: Bid Form, List of Subcontractors, Substitution Listing form, Non-collusion Declaration, Exclusion of Asbestos and Lead Based Paint Products Certification, Contractors’ Qualification Questionnaire (if required) Mandatory Prequalification Package (if required), Iran Contracting Act Certification (if required), Bid Bond or other bid security, and Certification of Attendance at Mandatory Job Walk, if a job walk is required on this project.

33. **Bid Protests.**

Any bidder having submitted a bid on the project may file a protest against the proposed contract award or challenging the validity of other bids. The protest must meet all of the following requirements:

(a) The protest shall be submitted in writing and shall contain all the materials required by these provisions; one that does not contain all the required material shall not be recognized.

(b) The protest shall be received by the Owner no later than close of business on the second business day after bid opening; one received after that time shall not be recognized.

(c) Each protest shall contain the following:

(i) Identification by name, address, and telephone number of the protesting person(s), company and/or organization and identification of the project to which the protest pertains.

(ii) The protest shall set forth in detail all grounds for the protest, including without limitation all facts, identification by name of any other bids or bidders involved in the protest, all supporting documentation, together with any legal authorities and/or argument in support of the grounds for the protest. Any matters not set forth in the written protest shall be deemed waived. All factual contentions must be supported by competent, admissible, and credible evidence.
(d) Any protest not conforming to the requirements of this section shall be rejected as invalid.

(e) Where a protest is filed in conformity with this section, the Owner’s staff, or such individual(s) as may be designated by the Owner, shall review and evaluate the basis of the protest and provide a written decision to the protesting bidder. The written decision shall either concur with or deny the protest.

(f) Submission of a written protest to and receipt of a written decision from the Owner staff shall be considered an administrative remedy, and failure to follow this procedure shall be a bar to any legal action.

(g) The written decision by the Owner’s staff may be appealed to the Owner. The appeal must be filed with the Owner’s governing board or other governing body within two business days of the protesting bidder’s receipt of the written decision of the Owner’s staff.

(h) The appeal must clearly state the reasons and basis for appealing the decision of the Owner’s staff, making specific reference to any portions of the material submitted with the protest required.

(i) A hearing on the appeal shall be held before the Owner’s governing board or other governing body within 45 days of receipt of the appeal.

(j) The Owner’s governing board or other governing body will make a decision within seven days following the hearing. The decision of the Owner’s governing board or other governing body is not subject to arbitration, mediation, reconsideration, or further appeal.

(k) Submission of an appeal to and receipt of a decision from the Owner’s governing board or other governing body shall be considered an administrative remedy, and failure to follow this procedure shall be a bar to any legal action.

34. Procedure for Protesting Being Deemed A Non-Responsible Bidder.

Any bidder or prospective bidder deemed non-responsible after having submitted a bid may file an appeal of the action to the Owner’s governing board or other governing body. The protest must meet all of the following requirements:

(a) The appeal shall be submitted in writing, and shall contain all the materials required by these provisions; one that does not contain all the required material shall not be recognized.

(b) The appeal must be received by the Owner’s governing board or other governing body within two business days of the action by Owner giving rise to the
protest; one received after that time shall not be recognized.

(c) A hearing on the appeal shall be held before the Owner’s governing board or other governing body prior to the award of contract.

(d) The decision of the Owner’s governing board or other governing body is not subject to arbitration, mediation, reconsideration, or further appeal.

(e) Submission of a protest to and receipt of a decision from the Owner’s governing board or other governing body shall be considered an administrative remedy, and failure to follow this procedure shall be a bar to any legal action.

35. **All Projects Over $1,000 Are Subject to Prevailing Wage Monitoring and Enforcement By the Labor Commissioner**

The project is subject to prevailing wage monitoring and enforcement by the DIR, as indicated in the Notice Calling for Bids. The successful bidder and all subcontractors will be subject to the requirements of Subchapter 4.5 of Chapter 8 of Title 8 of the California Code of Regulations. The successful bidder and all subcontractors will be required to furnish certified payroll records to the Labor Commissioner on the frequency specified in the Notice Calling for Bids using the DIR’s eCPR system. To access the DIR’s eCPR system and to obtain additional information and assistance, bidders may go to DIR website [www.dir.ca.gov/Public-Works/Certified-Payroll-Reporting.html](http://www.dir.ca.gov/Public-Works/Certified-Payroll-Reporting.html). Failure to timely submit certified payroll records may result in debarment from public works projects by the Labor Commissioner for a period of one to three years.
THE KERN COMMUNITY COLLEGE DISTRICT
BID REQUEST

Notice is hereby given that the Kern Community College District (OWNER) will receive sealed bids for KCCD-ARVIN EDUCATIONAL CENTER -MEASURE J PROJECT.

All bids must be received at the Kern Community College District Office, 2100 Chester Avenue, Room 201, Bakersfield, CA 93301 by 2:00 p.m. on 9th day, August, 2022 and will be publicly opened at or after that time.

A Non-Mandatory Job Walk will be held on 27th day, July, 2022 at 10:00 a.m. at 1001 Varsity Road, Arvin, CA 93203.

A $100.00 deposit is required for each set of bid documents and is refundable upon return of documents in 14 days after bid opening. All shipping charges must be prepaid. The Plans and Specifications, including standard proposal forms, to be used for bidding on this project are available at the Kern Community College District Office, 2100 Chester Avenue, Bakersfield, CA 93301. No bid will be considered unless it is made on the bid form furnished by the District. This is a prevailing wage project. OWNER has ascertained the general prevailing rate of per diem wages in the locality in which this work is to be performed for each craft or type of worker needed to execute this contract.

These rates are on file at OWNER’S office, and a copy may be obtained upon request, or at www.dir.ca.gov. It shall be mandatory upon the contractor to whom the contract is awarded (CONTRACTOR), and upon any subcontractor, to pay not less than the specified rates to all workers employed by them in the execution of the contract.

This Project X is ____is not subject to the requirements of Subchapter 4.5 of Chapter 8 of Title 8 of the California Code of Regulations. If subject to such requirements, Contractor and all subcontractors must furnish certified payroll records to the Department of Industrial Relations’ Compliance Monitoring Unit (CMU) [specify weekly, bi-weekly or monthly] using the CMU’s eCPR system – My LCM. To enroll in My LCM or obtain additional information and assistance, go to the third party non-government website at https://app.mylcm.com.

The following notice is given as required by Labor Code Section 1771.5(b)(1): CONTRACTOR and any subcontractors are required to review and comply with the provisions of the California Labor Code, Part 7, Chapter I, beginning with Section 1720, as more fully discussed in the Contract Documents. These sections contain specific requirements concerning, for example, determination and payment of prevailing wages, retention, inspection, and auditing payroll records, use of apprentices, payment of overtime compensation, securing workers’ compensation insurance, and various criminal penalties or fines which may be imposed for violations of the requirements of the chapter. Submission of a bid constitutes CONTRACTORS’s representation that CONTRACTOR has thoroughly reviewed these requirements. In order to perform the work required by this contract, CONTRACTOR must possess the following type of license/certification issued by the State of California: See Below:

<table>
<thead>
<tr>
<th>BID PACKAGE</th>
<th>SCOPE OF WORK</th>
<th>LICENSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>01-74-00</td>
<td>Janitorial</td>
<td>C61/D63</td>
</tr>
<tr>
<td>02-23-000</td>
<td>Chain Link Fencing</td>
<td>C13</td>
</tr>
<tr>
<td>08-10-000</td>
<td>Doors/Frames/Hardware</td>
<td>B, C61/D16/D24/D28</td>
</tr>
<tr>
<td>08-30-000</td>
<td>Coiling Doors/Operable Partitions</td>
<td>C61/D28</td>
</tr>
</tbody>
</table>

The Board of Trustees of the Kern Community College District reserves the right to reject all bids and/or waive any irregularities in a bid.

Kern Community College District
By: ____________________________
Title: __________________________

PROJECT: ARVIN EDUCATIONAL CENTER MEASURE J PROJECT

Architect’s Project No. 125951
CCC Project No. 22-017

OWNER: KERN COMMUNITY COLLEGE DISTRICT
2100 Chester Ave.
Bakersfield, CA 93301

Provide all work specified within the following specification sections and revised drawings, with the exception of items listed as “work by others” below.

Section – 01 77 00- Project Closeout (Final Cleaning)

DESCRIPTION:

Drawings and general provisions of Contract, including General and Supplementary Conditions, Division - 00 Bidding and Contract Requirements and Division 01 General Requirements apply to the work of this Bid Package. The work under this Bid Package shall include the furnishing and installing of all material, equipment, procedures, methods, items and labor as required to complete the work described in this Bid Package. The work shall be completed as shown on the Drawings and specified in any applicable specification sections.

COMPLETION OF WORK:

The work of this bid package must be complete according to the construction schedule included with contract documents.

The construction schedule prepared by the Construction Manager (CM) and/or other target dates pertaining to this bid package must be adhered to by the Prime Contractor or liquidated damage will be assessed by OWNER in the amount listed in the Agreement. No extension of time will be granted unless the circumstances are within the stipulations of the General Conditions.

Procurement of materials and/or equipment shall be done in a timely manner to comply with the project schedule. Materials and/or equipment properly stored, in accordance with the Owner’s requirements, will be paid for as noted in the Contract Documents.

Clean-up related to work performed under this section. Clean-up of one area before moving to another area to perform work.

Provide submittals as required by contract documents to include product data, shop drawings, samples, and/or color charts as applicable.
NOTE: The term “provide” means to “furnish and install, complete and ready for the intended use.”

The work includes, but is not necessarily limited to, the items numerically listed below and in accordance with the applicable Drawings and Specifications section(s). Provide all work specified within this Bid Package and applicable Specification sections with exception of items listed as “Work by Others.”

While the ways, means, and methods will be the responsibility of the Contractor, the following items are presented for construction clarifications.

SCOPE INCLUDES BUT IS NOT LIMITED TO:

1. Work of this contract shall be done as shown on the Project Schedule included in the Bid Documents. Contractor shall include all mobilization and demobilization costs necessary to comply with the project schedule.

2. Each area of work must be manned continually as scheduled until this Bid Package portion of the work is complete so that work of other trades may proceed on schedule.

3. Provide all notifications, permits, submittals, equipment identification, materials, labor transportation, appliances, testing certification and security necessary for the execution of work in this bid package and as shown on the Drawings and Specifications. Prime contractor is responsible for securing all tools, equipment and stored materials until such materials are installed and accepted.

4. Provide notification at least 48 hours in advance of required observation for inspection. All inspection requests shall be scheduled through the Construction Manager superintendent.

5. Prime Contractor shall provide all closeout documents and requirements 30 days after being notified for such. If multiple requests are required, a Deductive Change Order will be issued to the contract amount of $100.00 per request.

6. Provide all equipment, materials, labor and tools required to perform work of this Bid Package.

7. Provide temporary power (generators, cords, etc.) to perform work of this Bid Package. Power supply may be limited at site locations. Prime contractors will be responsible for their own source of power where not available.

8. Provide temporary task lighting as needed to perform work of this Bid Package.

9. The Construction Manager will provide trash container(s) for general construction waste. Prime contractors generating construction waste such as wood, metal, concrete, asphalt, plaster, CMU block will be responsible for containing materials onsite and legally disposing material offsite. Contractor shall separate and recycle construction waste. Contractor is to maintain records and
provide them to the Construction Manager indicating how much solid waste was generated and how much of this was delivered to a recycling center.

10. Provide weekly removal of all construction materials, debris and waste generated by this Bid Package.

**ALTERNATE BID(S):**

There are no alternate bids at this time.

**BASE BID for BID PACKAGE 01-74-000/JANITORIAL CLEANING:**

Base bid shall include all work outlined in this Bid Package, and as described on the drawings and specifications, pertaining to this Bid Package.

**JANITORIAL CLEANING:**

1. Provide Pre-Final Inspection Cleaning and Final Cleaning.

   a) Pre-final Inspection Cleaning shall include, but not be limited to the following:

   i) Cleaning shall occur upon the request of the Construction Manager and shall be done as the construction nears completion.

   ii) Remove all labels that are not intended to be permanent.

   iii) Remove all protective plastic from construction components.

   iv) Clean and mop all hard floor surfaces. Apply wax per flooring manufacturers’ recommendations.

   v) Vacuum all carpeted areas. Spot clean as necessary.

   vi) Wiping down of all baseboards until thoroughly cleaned.

   vii) Wiping and cleaning of all wall surfaces.

   viii) Sweeping and mopping of all mechanical/electrical rooms.

   ix) Dusting of all equipment and exposed ductwork.

   x) Cleaning of all restroom fixtures, mirrors, walls, floors, and partitions.

   xi) Cleaning of all janitorial closets and sinks.

   xii) Vacuuming and wiping down of all HVAC diffusers and returns.

   xiii) Dusting of all exposed faces of light fixtures, lenses and bulbs. Restore reflective surfaces to their original condition.

   xiv) Cleaning of all doors and frames.

   xv) Cleaning of all door hardware.

   xvi) Cleaning of all handrails, guard rails, etc.

   xvii) Washing of all interior and exterior windows and glass doors and windows in doors.

   xviii) Cleaning of cabinets, millwork, countertops, display cabinets, fixtures, racks, wall units, shelving storage cabinets, etc.

   xix) Power-washing of all exterior surfaces as needed.
b) Final Cleaning – final cleaning shall occur at conclusion of Punch List work by other contractors, and as scheduled by the Construction Manager. This work shall include but not be limited to the following:
   i) Floor mopping and vacuuming.
   ii) Dusting of all hard surfaces.
   iii) Cleaning of plumbing fixtures and miscellaneous spots and stains in each area of the building.

   c) Cleaning Exclusions
   i) Cleaning of Roofs, other than debris from this Bid Package.
   ii) Spray or power-washing of asphalt
   iii) Cleaning or changing of HVAC filters.

2. Contractor shall include all costs for multiple move-ins per the Project Schedule.

3. Provide clean-up, broom sweep, and washing concrete and asphalt concrete paved areas, removing tire marks caused by operations of this Bid Package on concrete areas.

**WORK BY OTHERS:**

1. Concrete Moisture Control System preparation and application is by others.
PROJECT: ARVIN EDUCATIONAL CENTER MEASURE J PROJECT

Architect’s Project No. 125951
CCC Project No. 22-017

OWNER: KERN COMMUNITY COLLEGE DISTRICT
2100 Chester Ave.
Bakersfield, CA 93301

Provide all work specified within the following specification sections and revised drawings, with the exception of items listed as “work by others” below.

Section - 03 30 00 - Cast-in-Place Concrete (as pertains to this BP)
Section - 31 20 00 - Earthwork-Civil (as pertains to this BP)
    Chain Link Fencing Per Plans

DESCRIPTION:

Drawings and general provisions of Contract, including General and Supplementary Conditions, Division - 00 Bidding and Contract Requirements and Division 01 General Requirements apply to the work of this Bid Package. The work under this Bid Package shall include the furnishing and installing of all material, equipment, procedures, methods, items and labor as required to complete the work described in this Bid Package. The work shall be completed as shown on the Drawings and specified in any applicable specification sections.

COMPLETION OF WORK:

The work of this bid package must be complete according to the construction schedule included with contract documents.

The construction schedule prepared by the Construction Manager (CM) and/or other target dates pertaining to this bid package must be adhered to by the Prime Contractor or liquidated damage will be assessed by OWNER in the amount listed in the Agreement. No extension of time will be granted unless the circumstances are within the stipulations of the General Conditions.

Procurement of materials and/or equipment shall be done in a timely manner to comply with the project schedule. Materials and/or equipment properly stored, in accordance with the Owner’s requirements, will be paid for as noted in the Contract Documents.

Clean-up related to work performed under this section. Clean-up of one area before moving to another area to perform work.
Provide submittals as required by contract documents to include product data, shop drawings, samples, and/or color charts as applicable.

NOTE: The term “provide” means to “furnish and install, complete and ready for the intended use.”

The work includes, but is not necessarily limited to, the items numerically listed below and in accordance with the applicable Drawings and Specifications section(s). Provide all work specified within this Bid Package and applicable Specification sections with exception of items listed as “Work by Others.”

While the ways, means, and methods will be the responsibility of the Contractor, the following items are presented for construction clarifications.

SCOPE INCLUDES BUT IS NOT LIMITED TO:

1. Work of this contract shall be done as shown on the Project Schedule included in the Bid Documents. Contractor shall include all mobilization and demobilization costs necessary to comply with the project schedule.

2. Each area of work must be manned continually as scheduled until this Bid Package portion of the work is complete so that work of other trades may proceed on schedule.

3. Provide all notifications, permits, submittals, equipment identification, materials, labor transportation, appliances, testing certification and security necessary for the execution of work in this bid package and as shown on the Drawings and Specifications. Prime contractor is responsible for securing all tools, equipment and stored materials until such materials are installed and accepted.

4. Provide notification at least 48 hours in advance of required observation for inspection. All inspection requests shall be scheduled through the Construction Manager superintendent.

5. Prime Contractor shall provide all closeout documents and requirements 30 days after being notified for such. If multiple requests are required, a Deductive Change Order will be issued to the contract amount of $100.00 per request.

6. Provide all equipment, materials, labor and tools required to perform work of this Bid Package.

7. Provide temporary power (generators, cords, etc.) to perform work of this Bid Package. Power supply may be limited at site locations. Prime contractors will be responsible for their own source of power where not available.

8. Provide temporary task lighting as needed to perform work of this Bid Package.
9. The Construction Manager will provide trash container(s) for general construction waste. Prime contractors generating construction waste such as wood, metal, concrete, asphalt, plaster, CMU block will be responsible for containing materials onsite and legally disposing material offsite. Contractor shall separate and recycle construction waste. Contractor is to maintain records and provide them to the Construction Manager indicating how much solid waste was generated and how much of this was delivered to a recycling center.

10. Provide weekly removal of all construction materials, debris and waste generated by this Bid Package.

11. Provide weekly removal of all concrete waste generated by this Bid Package including clean-out from ready-mix trucks. Provide truck washout areas per SWPPP Plan or BMP. Location(s) of truck washout area must be approved by the Construction Manager’s superintendent.

12. Provide dust control for all work relating to this Bid Package.

13. Should Prime Contractor’s trenches or other excavations fill partially or completely with water due to any weather conditions, ground water, site drainage, or other conditions, Prime Contractor shall immediately and continuously pump the water from such trenches and excavations to an appropriate drainage receptacle in accordance with the Best Management Practices of the SWPPP in effect. Thereafter Prime Contractor shall immediately “muck-out” and remove soft or unsuitable soils as required by any inspector having jurisdiction over the work including Construction Manager’s superintendent.

14. Concrete Truck Delivery Drivers must be paid Prevailing Wage on this project. See the California Department of Industrial Relations for further information. (www.dir.ca.gov) The Contractor purchasing and providing the concrete is solely responsible to ensure these workers are paid per the Prevailing Wage Law. Failure to do so may cause fines and back-pay to be assessed by the state against the Contractor.

**ALTERNATE BID(S):**

There are no alternate bids at this time.

**BASE BID for Bid Package 02-23-000/CHAIN LINK FENCING:**

Base bid shall include all work outlined in this Bid Package as described on the drawings and specifications, pertaining to this Bid Package.

**CHAIN LINK FENCING:**

1. Provide all chain link fencing, posts, footings, head rails, braces, fittings, fabric, rough hardware, gates, and concrete anchorage as required for work of this contract.

2. There is no specification for this Bid Package. Provide submittals per Division 1 Section 01 33 00 Submittal Procedures and construct all chain link fence, gates, posts, bracing, etc. per City Standard Plates D8 and D9 on Sheet C5.00.
3. Provide redwood slats in fence per Note 5 on Plate 9/C5.00.

4. Provide all equipment, materials, labor and tools required to perform work of this Bid Package.

5. If this contractor disturbs any SWPPP Measures it is responsible to replace the measures in a like new condition as defined on the SWPPP Plan.

6. Provide notification to USA, Dig Alert, 811 and pothole as required to prevent damage to existing utilities.

7. Provide all survey and layout required for work of this Bid Package.

8. Provide trenching, excavation, backfilling, and spoil haul off-site maintaining +/-0.10’ of finish grade. Backfilling and compaction shall be in accordance with Section 31 20 00.

9. Coordinate placement of posts with Site Concrete Contractor.

10. Provide terminal corner post at all terminals.

**WORK BY OTHERS:**

1. Mow Curbs under Chain Link Fencing will be by B 02-15-000 Site Concrete Contractor.
Provide all work specified within the following specification sections and revised drawings, with the exception of items listed as “work by others” below.

Section – 08 11 13 – Hollow Metal Doors and Frames
Section – 08 71 00 – Door Hardware
Section – 07 92 00 – Joint Sealants (As it pertains to this BP)

DESCRIPTION:

Drawings and general provisions of Contract, including General and Supplementary Conditions, Division - 00 Bidding and Contract Requirements and Division 01 General Requirements apply to the work of this Bid Package. The work under this Bid Package shall include the furnishing and installing of all material, equipment, procedures, methods, items and labor as required to complete the work described in this Bid Package. The work shall be completed as shown on the Drawings and specified in any applicable specification sections.

COMPLETION OF WORK:

The work of this bid package must be complete according to the construction schedule included with contract documents.

The construction schedule prepared by the Construction Manager (CM) and/or other target dates pertaining to this bid package must be adhered to by the Prime Contractor or liquidated damage will be assessed by OWNER in the amount listed in the Agreement. No extension of time will be granted unless the circumstances are within the stipulations of the General Conditions.

Procurement of materials and/or equipment shall be done in a timely manner to comply with the project schedule. Materials and/or equipment properly stored, in accordance with the Owner's requirements, will be paid for as noted in the Contract Documents.

Clean-up related to work performed under this section. Clean-up of one area before moving to another area to perform work.

Provide submittals as required by contract documents to include product data, shop drawings, samples, and/or color charts as applicable.
NOTE: The term “provide” means to “furnish and install, complete and ready for the intended use.”

The work includes, but is not necessarily limited to, the items numerically listed below and in accordance with the applicable Drawings and Specifications section(s). Provide all work specified within this Bid Package and applicable Specification sections with exception of items listed as “Work by Others.”

While the ways, means, and methods will be the responsibility of the Contractor, the following items are presented for construction clarifications.

**SCOPE INCLUDES BUT IS NOT LIMITED TO:**

1. Work of this contract shall be done as shown on the Project Schedule included in the Bid Documents. Contractor shall include all mobilization and demobilization costs necessary to comply with the project schedule.

2. Each area of work must be manned continually as scheduled until this Bid Package portion of the work is complete so that work of other trades may proceed on schedule.

3. Provide all notifications, permits, submittals, equipment identification, materials, labor transportation, appliances, testing certification and security necessary for the execution of work in this bid package and as shown on the Drawings and Specifications. Prime contractor is responsible for securing all tools, equipment and stored materials until such materials are installed and accepted.

4. Provide notification at least 48 hours in advance of required observation for inspection. All inspection requests shall be scheduled through the Construction Manager superintendent.

5. Prime Contractor shall provide all closeout documents and requirements 30 days after being notified for such. If multiple requests are required, a **Deductive Change Order** will be issued to the contract amount of **$100.00** per request.

6. Provide all equipment, materials, labor and tools required to perform work of this Bid Package.

7. Provide temporary power (generators, cords, etc.) to perform work of this Bid Package. Power supply may be limited at site locations. Prime contractors will be responsible for their own source of power where not available.

8. Provide temporary task lighting as needed to perform work of this Bid Package.

9. The Construction Manager will provide trash container(s) for general construction waste. Prime contractors generating construction waste such as wood, metal, concrete, asphalt, plaster, CMU block will be responsible for containing materials onsite and legally disposing material offsite. Contractor shall separate and recycle construction waste. Contractor is to maintain records and provide them to the Construction Manager indicating how much solid waste was generated and how much of this was delivered to a recycling center.
10. Provide weekly removal of all construction materials, debris and waste generated by this Bid Package.

**ALTERNATE BID(S):**

There are no alternate bids at this time.

**BASE BID for BID PACKAGE 08-10-000/DOORS/FRAMES/HARDWARE:**

Base bid shall include all work outlined in this Bid Package, and as described on the drawings and specifications, pertaining to this Bid Package.

**DOORS/FRAMES/HARDWARE**

1. **Provide submittals for Hollow Metal Doors and Frames within 30 days of Notice to Proceed.**

2. Provide all survey and layout required for work of this Bid Package. This contractor is responsible for coordination of installation of work of this contract with all contract documents including but not limited to Architectural, Structural and Civil Drawings.

3. Provide mock-ups per specifications and/or as required by Owner and Architect.

4. All caulking installed by this Bid Package shall be in accordance with Section 07 92 00.

5. This contractor is responsible for coordination of headouts/backing/blocking required for installation of work of this Bid Package. Verify proper locations and quantities prior to installation of drywall or other concealing finishes.

6. Provide doweling and grouting of frame bottoms as indicated on Drawings.

7. Provide all hollow metal doors and frames including hollow metal window frames. Doors and frames are to be delivered to the site labeled with the door opening number marked on each piece. This contractor is responsible to supply Hollow Metal Jambs sufficiently in advance that they can be incorporated into metal stud walls as they are built and before drywall is installed.

8. Coordinate with Painting Contractor regarding installation of new hardware.

9. This contractor is responsible to verify wall thicknesses for Hollow Metal throat dimensions prior to submission of shop drawings.

10. Prepare all doors and frames to receive finish hardware.

11. Provide door lite frames ready for glazing.

12. Doors are to be prepared for any through-bolts required by door lites.
13. Provide all finish hardware. Hardware is to be delivered to the site labeled with door opening number. Finish hardware is to include padlocks and latch sets for Trash Enclosure and sump chain link fence gates. Cane bolts and hinges are by others.

14. This package is to provide temporary keyed-alike locks and hasps for all exterior doors during construction. Provide keys to Construction Manager and Owner (six keys minimum).

15. Provide daily cleanup of work areas while on site.

WORK BY OTHERS:

1. Glazing of doors and windows will be by others.
KERN COMMUNITY COLLEGE DISTRICT
ARVIN EDUCATIONAL CENTER
BP 08-30-000 OVERHEAD COILING COUNTER DOORS/OPERABLE PARTITIONS

PROJECT: ARVIN EDUCATIONAL CENTER MEASURE J PROJECT

Architect's Project No. 125951
CCC Project No. 22-017

OWNER: KERN COMMUNITY COLLEGE DISTRICT
2100 Chester Ave.
Bakersfield, CA 93301

Provide all work specified within the following specification sections and revised drawings, with the exception of items listed as “work by others” below.

Section- 08 33-13 – Overhead Coiling Counter Doors
Operable Partition Per Plans
Section- 07 92 00 - Joint Sealants (As it pertains to this BP)

DESCRIPTION:

Drawings and general provisions of Contract, including General and Supplementary Conditions, Division - 00 Bidding and Contract Requirements and Division 01 General Requirements apply to the work of this Bid Package. The work under this Bid Package shall include the furnishing and installing of all material, equipment, procedures, methods, items and labor as required to complete the work described in this Bid Package. The work shall be completed as shown on the Drawings and specified in any applicable specification sections.

COMPLETION OF WORK:

The work of this bid package must be complete according to the construction schedule included with contract documents.

The construction schedule prepared by the Construction Manager (CM) and/or other target dates pertaining to this bid package must be adhered to by the Prime Contractor or liquidated damage will be assessed by OWNER in the amount listed in the Agreement. No extension of time will be granted unless the circumstances are within the stipulations of the General Conditions.

Procurement of materials and/or equipment shall be done in a timely manner to comply with the project schedule. Materials and/or equipment properly stored, in accordance with the Owner’s requirements, will be paid for as noted in the Contract Documents.

Clean-up related to work performed under this section. Clean-up of one area before moving to another area to perform work.
Provide submittals as required by contract documents to include product data, shop drawings, samples, and/or color charts as applicable.

NOTE: The term “provide” means to “furnish and install, complete and ready for the intended use.”

The work includes, but is not necessarily limited to, the items numerically listed below and in accordance with the applicable Drawings and Specifications section(s). Provide all work specified within this Bid Package and applicable Specification sections with exception of items listed as “Work by Others.”

While the ways, means, and methods will be the responsibility of the Contractor, the following items are presented for construction clarifications.

SCOPE INCLUDES BUT IS NOT LIMITED TO:

1. Work of this contract shall be done as shown on the Project Schedule included in the Bid Documents. Contractor shall include all mobilization and demobilization costs necessary to comply with the project schedule.

2. Each area of work must be manned continually as scheduled until this Bid Package portion of the work is complete so that work of other trades may proceed on schedule.

3. Provide all notifications, permits, submittals, equipment identification, materials, labor transportation, appliances, testing certification and security necessary for the execution of work in this bid package and as shown on the Drawings and Specifications. Prime contractor is responsible for securing all tools, equipment and stored materials until such materials are installed and accepted.

4. Provide notification at least 48 hours in advance of required observation for inspection. All inspection requests shall be scheduled through the Construction Manager superintendent.

5. Prime Contractor shall provide all closeout documents and requirements 30 days after being notified for such. If multiple requests are required, a Deductive Change Order will be issued to the contract amount of $100.00 per request.

6. Provide all equipment, materials, labor and tools required to perform work of this Bid Package.

7. Provide temporary power (generators, cords, etc.) to perform work of this Bid Package. Power supply may be limited at site locations. Prime contractors will be responsible for their own source of power where not available.

8. Provide temporary task lighting as needed to perform work of this Bid Package.
9. The Construction Manager will provide trash container(s) for general construction waste. Prime contractors generating construction waste such as wood, metal, concrete, asphalt, plaster, CMU block will be responsible for containing materials onsite and legally disposing material offsite. Contractor shall separate and recycle construction waste. Contractor is to maintain records and provide them to the Construction Manager indicating how much solid waste was generated and how much of this was delivered to a recycling center.

10. Provide weekly removal of all construction materials, debris and waste generated by this Bid Package.

ALTERNATE BID(S):

There are no alternate bids at this time.

BASE BID for BID PACKAGE 08-30-000/COILING COUNTER DOORS/OPERABLE PARTITION:

Base bid shall include all work outlined in this Bid Package, and as described on the drawings and specifications, pertaining to this Bid Package.

COILING COUNTER DOORS/OPERABLE PARTITION:

1. This contractor is responsible for coordination of installation of work of this contract with all contract documents including but not limited to Architectural and Structural Drawings.

2. Provide all equipment, materials, labor and tools required to perform work of this Bid Package.

3. Provide shop drawings upon approved submittal for use by other contractors in coordination of work.

4. Provide mock-ups per specifications and/or as required by Owner and Architect.

5. Contractor shall include all costs for multiple move-ins per the Project Schedule.

6. All caulking installed by this Bid Package shall be done in accordance with Section 07 92 00.

7. This contractor is responsible for coordination of headouts/backing/blocking required for installation of work of this Bid Number. Verify proper locations and quantities prior to installation of drywall or other concealing finishes.

8. Review shop drawings and coordinate with Structural Steel Contractor for installation details of miscellaneous and structural steel as needed.

WORK BY OTHERS:

1. Not Applicable.
<table>
<thead>
<tr>
<th>Name</th>
<th>Contact Info</th>
<th>Company</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hunter Meyer</td>
<td>625-2121</td>
<td>Colombo</td>
<td>1616-erq</td>
</tr>
<tr>
<td>Alex Holmes</td>
<td>1332-0414</td>
<td>Colombo</td>
<td>1616-erq</td>
</tr>
<tr>
<td>Rick Eastwood</td>
<td>392-2111</td>
<td>Colombo</td>
<td>1616-erq</td>
</tr>
<tr>
<td>John Anderson</td>
<td>523-2545</td>
<td>Colombo</td>
<td>1616-erq</td>
</tr>
<tr>
<td>Samuel @ Colombo</td>
<td>590-2545</td>
<td>Colombo</td>
<td>1616-erq</td>
</tr>
<tr>
<td>Nurse @ Colombo</td>
<td>590-2545</td>
<td>Colombo</td>
<td>1616-erq</td>
</tr>
<tr>
<td>J. Powell, RCC, EDC</td>
<td>691-913</td>
<td>Colombo</td>
<td>1616-erq</td>
</tr>
<tr>
<td>I. Knoll</td>
<td>525-2125</td>
<td>Colombo</td>
<td>1616-erq</td>
</tr>
<tr>
<td>W. Burton</td>
<td>525-2125</td>
<td>Colombo</td>
<td>1616-erq</td>
</tr>
<tr>
<td>T. Johnson</td>
<td>1716-7422</td>
<td>Colombo</td>
<td>1616-erq</td>
</tr>
</tbody>
</table>

ATTENDEE SIGN-IN SHEET

Place: 1004 Varsity Road, Aryn, CA 93203
Reference: Job Walk - Sign In Sheet; 7/14/22 @ 10:00 A.M.
Bakersfield College-Arvin Campus

Bakersfield, CA

PROVIDED BY: SIERRA SCHOOL EQUIPMENT COMPANY
1911 MINERAL COURT

BAKERSFIELD, CA 93308

CONTACT: Philip McDermott
PHONE: (661) 399-2993
EMAIL: philipmcdermott@ssecinc.com

MANUFACTURED BY: DIVERSIFIED WOODCRAFTS, INC.
300 SOUTH KRUEGER STREET
SURING, WI 54174

CONTACT: Ryan Gust
PHONE: (920) 842-2136 Ext. 159
FAX: (920) 842-5420
EMAIL:rgust@diversifiedcasework.com

PROJECT ID NO.: Bakersfield College-Arvin Campus
CASEWORK SUBMITTALS

| ORIGINAL SUBMITTAL | 10/6/2020 |
| Rev. Drawings 6    | 11/09/2020 |
| Rev. Drawings 7    | 11/11/2020 |
| Rev. Drawings 8    | 04/21/2021 |
| Rev. Drawings 9    | 06/03/2021 |
| Rev. Drawings 10   | 06/17/2021 |

J:\CAP\2020 Quotes\Sierra School Equipment\Bakersfield College-Arvin Campus\Drawings\8. Drawings\10-6-20\Bakersfield College-Arvin Campus - 10-06-2020.dwg
### General

All casework will be built based on Diversed Casework specifications and the options selected below. If project specific requirements differ from Diversed Casework's standard specification it is the Owner's responsibility to bring those requirements to the attention of Diversed Casework.

<table>
<thead>
<tr>
<th>Style</th>
<th>Finish</th>
<th>Shelf Thickness</th>
<th>Shelf Edge Banding</th>
<th>Cabinet Body Materials</th>
<th>Drawer/Door Core Material</th>
<th>Cabinet Back Material</th>
<th>Glass In Doors</th>
<th>Edgebanding</th>
<th>Special Requirements, etc.</th>
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<tbody>
<tr>
<td>REVEALS</td>
<td>Standard Reveals</td>
<td>3/4&quot; x 1&quot; x 38&quot; wide or greater</td>
<td>Front Edge Only</td>
<td>Veneer Core Plywood</td>
<td>MDF Particleboard Core Plywood</td>
<td>1/4&quot; Hardboard</td>
<td>1/3&quot; Tempered Glass</td>
<td>Edgebanding</td>
<td>NAS Certified</td>
</tr>
<tr>
<td>VENEERED MATERIALS</td>
<td>Vertical Grain Match</td>
<td>3/4&quot; x 1&quot; x 38&quot; wide or greater</td>
<td>Front Edge Only</td>
<td>Veneer Core Plywood</td>
<td>MDF Particleboard Core Plywood</td>
<td>1/4&quot; Hardboard</td>
<td>1/3&quot; Tempered Glass</td>
<td>Edgebanding</td>
<td>NAS Certified</td>
</tr>
<tr>
<td>MDF</td>
<td>Mixed Species &amp; Grade</td>
<td>3/4&quot; x 1&quot; x 38&quot; wide or greater</td>
<td>Front Edge Only</td>
<td>Veneer Core Plywood</td>
<td>MDF Particleboard Core Plywood</td>
<td>1/4&quot; Hardboard</td>
<td>1/3&quot; Tempered Glass</td>
<td>Edgebanding</td>
<td>NAS Certified</td>
</tr>
<tr>
<td><strong>EXPOSED VENERE CUT</strong></td>
<td>Full Base</td>
<td>3/4&quot; x 1&quot; x 38&quot; wide or greater</td>
<td>Front Edge Only</td>
<td>Veneer Core Plywood</td>
<td>MDF Particleboard Core Plywood</td>
<td>1/4&quot; Hardboard</td>
<td>1/3&quot; Tempered Glass</td>
<td>Edgebanding</td>
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### Hardware

<table>
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<tr>
<th>Door Catches</th>
<th>Keying</th>
<th>Locks</th>
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<tbody>
<tr>
<td>Nylon Double Roller Catch</td>
<td>N/A</td>
<td>N/A</td>
</tr>
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<td>Key Locks Alkali</td>
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<td>N/A</td>
</tr>
<tr>
<td>Key Locks Different</td>
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</tr>
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<td>Key Locks by Room</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Stamped Keys &amp; Pin Detaining + Mayer AntiS</td>
<td>Yes</td>
<td>N/A</td>
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### Buyouts

<table>
<thead>
<tr>
<th>Acid &amp; Flammable Cabinets</th>
<th>Wood Construction - Match Casework</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>DC standard sizes due to UL limitations</td>
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### Drawers

<table>
<thead>
<tr>
<th>Drawer Slides</th>
<th>File Drawer Slides</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2&quot; Baltic Birch Plywood</td>
<td>20D Full Ext Zinc Plated</td>
</tr>
<tr>
<td>1/2&quot; White Faced Hardboard</td>
<td></td>
</tr>
</tbody>
</table>

### Notes

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VENIER & HARDWOOD FINISH DISCLAIMER:

All color characteristics of wood will change as it ages and this will gradually change the color of the wood and stain. The amount of change depends on many factors including wood type, stain color, and the amount of direct light exposure. Other factors that may change the color include exposure to smoke, chemicals, and man-made light. Because of these subtle changes, previously installed cabinetry with diversified casework standard finishes may not be an exact match.

Diversified Casework can provide custom stain colors. An exact match to the grain and color provided to Diversified Casework cannot be guaranteed and variation is to be expected. Diversified Casework will supply a sample of the matching stain and notification of approval must be provided before production can begin.

I have read and understand the above explanation and find it acceptable. I agree not to hold Diversified Casework responsible for any claims or problems resulting from these characteristics.

Company: __________________________ Date: __________________________

Signature: __________________________ TITLE: __________________________

SELECT FINISH COLOR:

(Colors listed in order from Light to Dark)

☐ Northwoods (Recommended)
☐ Coosa
☐ Golden Tan
☐ Pecan
☐ Rich Honey
☐ Color Match (Control Sample Required)
☐ To Be Determined
Majestic
STANDARD REVEAL

SECTION A

*DRAWER BOX NOT SHOWN FOR CLARITY
LAB 111

THE INFORMATION, DATA, DESIGN, AND DRAWINGS EMBODIED IN THIS DOCUMENT AND ALL REPRODUCTIONS THEREOF ARE THE EXCLUSIVE PROPERTY OF DIVERSIFIED WOODCRAFTS, INC.

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1" THICK BLACK EPoxy TOP FROM OAK STOCK

33 1/2

60

33 1/2

30

TABLES

(QTY: 6)
"DIMENSIONS ARE NOMINAL, PROVIDED FOR PLANNING PURPOSES ONLY. CONTACT DURCON FOR RECOMMENDED SINK CUTOUT DIMENSIONS TO INSURE A QUALITY INSTALLATION."

<table>
<thead>
<tr>
<th>SINK</th>
<th>WEIGHT</th>
<th>OUTLET LOCAL.</th>
<th>CODE</th>
</tr>
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<tbody>
<tr>
<td>A55</td>
<td>51 LBS</td>
<td>CORNER</td>
<td>SNKA-55</td>
</tr>
</tbody>
</table>

FACTORY
TAYLOR TX

DATE: 4/27/10
SCALE: 1=1
DRAWN: RMJ
FILE: A55.DWG
SURE-GRIP® EX FLAMMABLE SAFETY CABINET, CAP. 45 GALLONS, 2 SHELVES, 2 SELF-CLOSE DOORS

High performance, market leading cabinets in most popular sizes

MODEL NO. AND COLOR OPTIONS:
- YELLOW 894520 Part #207770
- RED 894521
- GRAY 894523
- WHITE 894525

Product Overview

Protect workers, reduce fire risks, and improve productivity by storing flammable fuels and chemicals in code-compliant safety cabinets. Designed to meet OSHA and NFPA standards, Sure-Grp® EX cabinets are constructed of sturdy 18-gauge (1-mm) thick double-wall, welded steel with 1-1/2" (38-mm) of insulating air space for fire resistance. High-performance, self-latching doors close easily and securely for maximum protection under fire conditions. Fail-safe closing mechanism ensures three-point stainless steel bullet latching system works every time.

For added security, U-Loc™ handle comes with a cylinder lock and key set or accepts an optional padlock. Haz-Alert™ reflective warning labels are highly visible under fire conditions or during power outages when illuminated with a flashlight.

Patented SplitSlope® galvanized steel shelves direct spills to back and bottom of a leakproof 2" (51-mm) bottom sump. They adjust on 3" (76-mm) centers for versatile storage. Cabinets also feature dual vents with flame arresters, four adjustable self-leveling feet, grounding connector, and trilingual warning label. Durable lead-free epoxy/polyester powder-coat finish provides excellent chemical resistance.

Manual-close door(s) opens to a full 180 degrees and self-latches when pushed closed. Self-close door(s) shuts and latches automatically when a fusible link melts at 165°F (74°C) under fire conditions. Unique, concealed self-closing mechanism offers obstruction-free access to contents.

All door styles meet OSHA and NFPA 30; self-close door styles also meet NFPA 1 and the International Fire Code.

Most cabinets are FM approved and all come with a ten-year warranty.

Attributes and Specs

<table>
<thead>
<tr>
<th>ATTRIBUTE</th>
<th>SPECIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model No. and Color Options:</td>
<td>894520 (Yellow), 894521 (Red), 894523 (Gray), 894525 (White)</td>
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<tr>
<td>Equivalent International Model No:</td>
<td>8945201 (Yellow), 8945211 (Red), 8945231 (Gray)</td>
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<tr>
<td>Material Specifications:</td>
<td>18 Ga CR Steel</td>
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<tr>
<td>Capacity:</td>
<td>45 gallon(s)</td>
</tr>
<tr>
<td>No. of Doors:</td>
<td>2</td>
</tr>
<tr>
<td>Door Type:</td>
<td>Self-Close</td>
</tr>
<tr>
<td>No. of Shelves:</td>
<td>2</td>
</tr>
<tr>
<td>Adjustable Shelves:</td>
<td>Yes</td>
</tr>
<tr>
<td>Dimensions, Exterior:</td>
<td>43&quot; W x 65&quot; H x 18&quot; D</td>
</tr>
<tr>
<td>Dimensions, Interior:</td>
<td>1092 W x 1651 H x 457 D (mm)</td>
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<tr>
<td>39.5&quot; W x 60.5&quot; H x 14.562&quot; D</td>
<td></td>
</tr>
<tr>
<td>1003 W x 1537 H x 370 D (mm)</td>
<td></td>
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<tr>
<td>Approvals:</td>
<td>FM</td>
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<tr>
<td>Compliance:</td>
<td>NFPA, OSHA, U (NFPA)</td>
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</table>
GEOTECHNICAL ENGINEERING INVESTIGATION AND GEOHAZARDS REPORT

BAKERSFIELD COLLEGE – ARVIN EDUCATIONAL CENTER

ARVIN, CALIFORNIA

BSK PROJECT G20-033-11B

PREPARED FOR:

KERN COMMUNITY COLLEGE DISTRICT
C/O MEASURE J PROGRAM MANAGEMENT TEAM
1801 PANORAMA DRIVE, PMT OFFICE TRAILERS P14
BAKERSFIELD, CA 93305

MARCH 9, 2020
GEOTECHNICAL ENGINEERING INVESTIGATION AND GEOHAZARDS REPORT
BAKERSFIELD COLLEGE – ARVIN EDUCATIONAL CENTER
ARVIN, CALIFORNIA

Prepared for:

Mr. Ralph Burnette, Contracts Administrator
Kern Community College District
c/o Measure J Program Management Office
1801 Panorama Drive, PMT Office Trailers P14
Bakersfield, CA 93305

Bakersfield Project: G20-033-11B

March 9, 2020

Prepared by:

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Bakersfield Branch Manager

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Senior Engineering Geologist

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Bakersfield, California 93301
(661) 327-0671
(661) 324-4218 FAX

Distribution: Client (Email: [ralph.burnette@parsons.com])
# Table of Contents

1. **INTRODUCTION** ...................................................................................................................................................... 1  
   1.1. Planned Construction .............................................................................................................................................. 1  
   1.2. Purpose and Scope of Services .............................................................................................................................. 1  
2. **FIELD INVESTIGATION AND LABORATORY TESTING** ................................................................................................. 1  
   2.1. Field Exploration ...................................................................................................................................................... 1  
   2.2. Laboratory Testing .................................................................................................................................................... 2  
3. **SITE AND GEOLOGY/SEISMICITY CONDITIONS** ...................................................................................................... 2  
   3.1. Site Description and Surface Conditions ................................................................................................................ 2  
   3.2. Regional Geology and Seismic Hazards Assessment .............................................................................................. 2  
       3.2.1 Regional Geology ................................................................................................................................................. 2  
       3.2.2 Seismic Hazards Assessment ............................................................................................................................... 2  
   3.3. Subsurface Conditions ............................................................................................................................................. 3  
   3.4. Groundwater Conditions ......................................................................................................................................... 3  
4. **CONCLUSIONS AND RECOMMENDATIONS** ............................................................................................................... 4  
   4.1. Seismic Design Criteria ........................................................................................................................................ 4  
   4.2. Soil Corrosivity ....................................................................................................................................................... 4  
   4.3. Site Preparation Recommendations ....................................................................................................................... 4  
   4.4. Foundations ............................................................................................................................................................ 6  
       4.4.1 Shallow Foundations ............................................................................................................................................ 6  
       4.4.2 Pole-Foundations .............................................................................................................................................. 6  
   4.5. Lateral Earth Pressures and Frictional Resistance .................................................................................................. 7  
   4.6. Excavation Stability ................................................................................................................................................. 7  
   4.7. Trench Backfill and Compaction ............................................................................................................................ 8  
   4.8. Concrete Slabs on Grade .......................................................................................................................................... 8  
   4.9. Drainage Considerations .................................................................................................................................... 9  
   4.10 Light Duty Asphalt Concrete Pavement .............................................................................................................. 9  
5. **PLANS AND SPECIFICATIONS REVIEW** ................................................................................................................ 10  
6. **CONSTRUCTION TESTING AND OBSERVATIONS** ............................................................................................... 10  
7. **LIMITATIONS** ...................................................................................................................................................... 10  
8. **REFERENCES** ...................................................................................................................................................... 11
Tables
Table 1: Seismic Design Parameters
Table 2: Recommended Static Lateral Earth Pressures for Footings

Appendices

Appendix A: Field Exploration
Table A-1: Consistency of Coarse-Grained Soil by Sampler Blow Count
Table A-2: Apparent Relative Density of Fine-Grained Soil by Sampler Blow Count
Figure A-1: Site Vicinity Map
Figure A-2: Boring Location Map
Figure A-3: Soil Classification Chart and Key to Test Data
Boring Logs: Borings B-1 to B-15

Appendix B: Laboratory Testing
Table B-1: Summary of Corrosion Test Results
Table B-2: Summary of Minus #200 Wash Test Results
Figures B-1 and B-2: Direct Shear Test Results
Figures B-3 through B-6: Collapse Potential Test Results
Figures B-7 and B-8: Expansion Index Test Results
Figures B-9 through B-10: R-Value Test Results

Appendix C: Geological/Seismic Hazard Evaluation
1. INTRODUCTION

This report presents the results of a Geotechnical Engineering Investigation conducted by BSK Associates (BSK), for the proposed Bakersfield College Arvin Educational Center in Arvin, California (Site). The Site is located in an open field south of 900 Varsity Road in Arvin, California, as shown on the Site Vicinity Map, Figure A-1. The geotechnical engineering investigation was conducted in accordance with BSK Proposal GB20-19529 dated January 17, 2020.

This report provides a description of the geotechnical conditions at the Site and provides specific recommendations for earthwork and foundation design with respect to the planned facility. In the event that changes occur in the design of the project, this report’s conclusions and recommendations will not be considered valid unless the changes are reviewed with BSK and the conclusions and recommendations are modified or verified in writing. Examples of such changes would include location, size of structures, foundation loads, etc.

1.1. Planned Construction

BSK understands that the project will consist of a new 27,000 square foot General Education Building, 12 modular classrooms, 3 modular restrooms, roadway extension of Walnut Street, and paved parking. The Site property is approximately 39 acres in size. Future development of the Site includes an additional LRC building.

In the event that significant changes occur in the design of the proposed improvements, this report’s conclusions and recommendations will not be considered valid unless the changes are reviewed with BSK and the conclusions and recommendations are modified or verified in writing.

1.2. Purpose and Scope of Services

The objective of this geotechnical investigation was to characterize the subsurface conditions in the areas of the proposed structures, and provide geotechnical engineering recommendations for the preparation of plans and specifications and bearing and lateral earth pressure conditions. The scope of the investigation included a field exploration, laboratory testing, engineering analyses, and preparation of this report. Our scope of services did not include environmental site assessment, sampling, testing and analysis for hazardous materials.

2. FIELD INVESTIGATION AND LABORATORY TESTING

2.1. Field Exploration

The field exploration for this investigation was conducted under the oversight of a BSK staff member. Fifteen (15) boring were drilled at the Site on February 10, 2020 using a B-Mobile 61 rig provided by Baja Exploration to a maximum depth of 51.5 feet beneath the existing ground surface (bgs).

The soil materials encountered in the Borings were visually classified in the field, and the logs were recorded during the drilling and sampling operations. Visual classifications of the materials encountered in the borings were made in general accordance with the Unified Soil Classification System (ASTM D 2488).
A soil classification chart is presented in Appendix A. Stratification lines were approximated by the field staff based on observations made at the time of drilling, while the actual boundaries between soil types may be gradual and soil conditions may vary at other locations.

2.2 Laboratory Testing
Laboratory tests were performed on selected soil samples to evaluate moisture content, dry density, shear strength, collapse potential, fines content, R-value, expansion index, and corrosion characteristics. A description of the laboratory test methods and results are presented in Appendix B.

3. SITE AND GEOLOGY/SEISMICITY CONDITIONS

The following sections address the Site descriptions and surface conditions, regional geology and seismic hazards, subsurface conditions, and groundwater conditions at the Site. This information is based on BSK’s field exploration and published maps and reports.

3.1 Site Description and Surface Conditions
The Site is located at the open field located at the southwest corner of Varsity Road and Campus Drive in Arvin, California. The surface of the site is currently a grass field with dirt paths. The Site is located in the north half of the southwest quarter of Section 23, Township 31 South, and Range 29 East of the Mount Diablo Meridian. The NAD 83 GPS coordinates for the center of the Site are 35.2152 degrees North latitude and 118.8352 degrees West longitude.

3.2 Regional Geology and Seismic Hazards Assessment
Our Scope of services included a review of published maps and reports to assess the regional geology and potential for seismic hazards.

3.2.1 Regional Geology
The Site is located in the transitional area of the Great Valley geomorphic province and the Sierra Nevada geomorphic province. The Site is located in the structural region identified by the U.S.G.S. (Bartow, 1991) as the San Joaquin Valley portion of the southern Sierran block. This area forms a broad syncline with deposits of marine and overlying continental sediments, Jurassic to Holocene in age. The thickness of the sediments increases to the west and reach a thickness of as much as 20,000-feet on the west side of the San Joaquin Valley syncline. Northeast of the Site, the relatively flat geomorphology transitions into the foothills of Sierra Nevada, which generally consist of pre-Cretaceous metamorphic rocks, Mesozoic ultramafic rocks, and Mesozoic granitic rocks.

3.2.2 Seismic Hazards Assessment
The types of geologic and seismic hazards assessed include surface ground fault rupture, liquefaction, seismically induced settlement, slope failure, flood hazards and inundation hazards.

The purpose of the Alquist-Priolo Geologic Hazards Zones Act, as summarized in CDMG Special Publication 42 (SP 42), is to "prohibit the location of most structures for human occupancy across the traces of active faults and to mitigate thereby the hazard of fault-rupture." As indicated by SP 42, "the State Geologist is required to delineate "earthquake fault zones" (EFZs) along known active faults in California. Cities and
counties affected by the zones must regulate certain development 'projects' within the zones. They must withhold development permits for sites within the zones until geologic investigations demonstrate that the sites are not threatened by surface displacement from future faulting.

The Site is not located in a Fault-Rupture Hazard Zone. The closest Fault-Rupture Hazard Zone is associated with the White Wolf fault, approximately 3.7 miles southwest of the Site.

Zones of Required Investigation referred to as "Seismic Hazard Zones" (SHZ) in CCR Article 10, Section 3722, are areas shown on Seismic Hazard Zone Maps where site investigations are required to determine the need for mitigation of potential liquefaction and/or earthquake-induced landslide ground displacements. The site is within the Arvin 7.5 Minute Quadrangle and there are no mapped areas that have Seismic Hazard Zones in the project area.

The project area is essentially flat and the potential hazard due to landslides from adjacent properties is not applicable.

### 3.3 Subsurface Conditions

The subsurface material generally consisted of loose to very firm silty sand/sandy silt, loose to medium dense silty sand, loose to medium dense sand, firm to very firm silt, stiff clay, and medium dense clayey sand throughout to the bottom of the boreholes. Although not encountered during our investigation, undocumented fill may be present in the area identified as Lease Property (69,768 sf) on Figure A-2 as a result of underground storage tank removal.

The upper 5 feet of material is anticipated to have very low potential for expansion with an expansion index of 0 at Boring B-2.

Based on the results of the consolidation test, the on-site soils below 5 feet are considered to have a low potential for hydrocompaction.

The boring logs in Appendix A provide a more detailed description of the materials encountered, including the applicable Unified Soil Classification System symbols.

### 3.4 Groundwater Conditions

The Site is within the Kern County sub-basin of the San Joaquin Basin Hydrologic Study Area. Groundwater was not encountered at the time of drilling on February 10, 2020. To ascertain groundwater levels for the area, groundwater elevation data from the California Department of Water Resources (DWR) was obtained for wells in the vicinity of the Site. Appendix C, Figure C-2, presents data from well #1S29E25C001M located approximately 4,000 feet southeast of the Site. The groundwater data indicates that during the 1980s the depth to groundwater was approximately 180 feet below the ground surface (bgs) and more recent data indicates that groundwater is greater than 290 feet bgs.
Please note that the groundwater level may fluctuate both seasonally and from year to year due to variations in rainfall, temperature, pumping from wells and possibly as the result of other factors such as irrigation, that were not evident at the time of our investigation.

4. CONCLUSIONS AND RECOMMENDATIONS

Based upon the data collected during this investigation, and from a geotechnical engineering standpoint, it is our opinion that the soil conditions would not preclude the construction of the proposed improvements. Although not encountered during our investigation, BSK understands an underground storage tank was previously located in the area identified as Lease Property (69,768 sf) on Figure A-2. BSK is not aware of compacted fill testing performed during tank removal. Therefore, the material should be considered undocumented and should be evaluated for future phases of site development.

4.1 Seismic Design Criteria
For general seismic design criteria, please refer to Appendix C of this report.

4.2 Soil Corrosivity
A surface soil sample obtained from the Site was tested to provide a preliminary screening of the potential for concrete deterioration or steel corrosion due to attack by soil-borne soluble salts. The test results are presented in Appendix B.

The corrosivity evaluation was performed by BSK on soil samples obtained at the time of drilling. The soil was evaluated for minimum resistivity (ASTM G57), pH (ASTM D4972), and soluble sulfate and chlorides (CT 417 and CT 422). At Boring B-4, the minimum resistivity was 4,400 ohm-cm, pH was 7.51, sulfate was not detected, and chloride was detected at 25 parts per million (ppm). At Boring B-5, the minimum resistivity was 7,000 ohm-cm, pH was 7.55, sulfate and chloride were not detected. At Boring B-15, the minimum resistivity was 1,300 ohm-cm, pH was 7.34, sulfate and chloride were not detected.

The water-soluble sulfate content severity class is considered not severe to concrete (Exposure Category S0 per Table 4.2.1 of ACI 318-11). Representative samples of the Site soil in the vicinity has a minimum resistivity range of 1,300 to 7,000 ohm-cm which is considered severely to mildly corrosive to buried metal conduit. Therefore, buried metal conduits, ferrous metal pipes, and exposed steel should have a protective coating in accordance with the manufacturer’s specification.

4.3 Site Preparation Recommendations
The following procedures must be implemented during Site preparation for the proposed Site improvements. References to maximum dry density, optimum moisture content, and relative compaction are based on ASTM D 1557 (latest test revision) laboratory test procedures.

1. The areas of proposed improvements must be cleared of surface vegetation and debris. Materials resulting from the clearing and stripping operations must be removed and properly disposed of off-site. In addition, all undocumented fills should be removed where encountered and where fills or structural improvements will be placed. BSK recommends at the proposed structures, the exposed ground surface should be overexcavated to 2-feet below the existing grade or bottom of
footing elevation, whichever is greater. Following site stripping, pavement areas and flatwork may be scarified a minimum depth of 12 inches and recompacted to at least 90 percent relative compaction. Over excavation should extend a minimum of five feet outside exterior footing lines and pavement. Yielding areas should be observed by the geotechnical consultant and removed and recompacted if necessary.

2. After overexcavation, the bottom of the exposed soil should be scarified 8 inches, moisturized to optimum moisture content, and compacted to 90 percent of ASTM D1557.

3. Following the required stripping and overexcavation, the exposed ground surface must be inspected by the Geotechnical Engineer to evaluate if loose or soft zones are present that will require over excavation.

4. Imported soil or native excavated soils, free of organic materials or deleterious substances, may be placed as compacted engineered fill. The material must be free of oversized fragments greater than 3-inches in greatest dimension. Engineered fill underneath and extending 5-feet beyond shallow foundations and pavement areas and must be placed in uniform layers not exceeding 8-inches in loose thickness, moisture conditioned to within 2 to 4 percent above optimum moisture content, and compacted to at least 90 percent relative compaction.

5. BSK must be called to the site to verify the import material properties through laboratory testing.

6. If possible, earthwork operations should be scheduled during a dry, warm period of the year. Should these operations be performed during or shortly following periods of inclement weather, unstable soil conditions may result in the soils exhibiting a “pumping” condition. This condition is caused by excess moisture in combination with moving construction equipment, resulting in saturation and zero air voids in the soils. If this condition occurs, the adverse soils will need to be over-excavated to the depth at which stable soils are encountered and replaced with suitable soils compacted as engineered fill. Alternatively, the Contractor may proceed with grading operations after utilizing a method to stabilize the soil subgrade, which should be subject to review and approval by BSK prior to implementation.

7. Import fill materials must be free from organic materials or deleterious substances. The project specifications must require the contractor to contact BSK to review the proposed import fill materials for conformance with these recommendations at least one week prior to importing to the Site, whether from on-site or off-site borrow areas. Imported fill soils must be non-hazardous and derived from a single, consistent soil type source conforming to the following criteria:

<table>
<thead>
<tr>
<th>Plasticity Index:</th>
<th>&lt; 12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Expansion Index:</td>
<td>&lt; 20 (Very Low Expansion Potential)</td>
</tr>
<tr>
<td>Maximum Particle Size:</td>
<td>3 inches</td>
</tr>
<tr>
<td>Percent Passing #4 Sieve:</td>
<td>65 - 100</td>
</tr>
<tr>
<td>Percent Passing #200 Sieve:</td>
<td>20 - 45</td>
</tr>
<tr>
<td>Low Corrosion Potential:</td>
<td>Soluble Sulfates &lt; 1,500 ppm</td>
</tr>
<tr>
<td></td>
<td>Soluble Chlorides &lt; 150 ppm</td>
</tr>
<tr>
<td></td>
<td>Minimum Resistivity &gt; 3,000 ohm-cm</td>
</tr>
</tbody>
</table>
4.4 Foundations

Miscellaneous structural improvements may be supported on shallow foundations or pole-type foundations. A structural engineer should evaluate reinforcement and embedment depth of structural elements based on the requirements for the structural loadings, shrinkage and temperature stresses.

4.4.1 Shallow Foundations

Continuous and isolated spread footings must have a minimum width of 12 inches and 24 inches, respectively. Continuous footing foundations may be designed using a net allowable bearing pressure of 3,000 pounds per square foot (psf). Isolated spread footing foundations may be designed using a net allowable bearing pressure of 3,000 psf. The net allowable bearing pressure applies to the dead load plus live load (DL + LL) condition; it may be increased by 1/3 for wind or seismic loads. Total foundation settlements are expected to be less than 0.5 inches and differential settlements between similarly loaded (DL + LL) and sized footings are anticipated to be less than 0.25 inches. Differential settlement of continuous footings, expressed in terms of angular distortion, is estimated to be approximately 1/600. For slab on grades, a soil modulus of 180 pci may be used for design.

4.4.2 Pole-Foundations

The structures may be supported on pole-type foundations. This type of foundation should be designed in accordance with Section 1807A.3 of the 2019 CBC. However, it is recommended that an allowable lateral soil bearing pressure of 210 psf per foot of embedment be used to develop parameters $S_1$ and $S_3$ rather than one of the values given in Table 1806A.2. This value includes a factor of safety of 2. The upper one foot of the soil should be ignored when calculating the minimum embedment depth. If the pole-foundation is located in the asphalt concrete area, the upper one foot can be used to calculate the minimum embedment depth.

Pole-foundations with a minimum diameter of 18 inches and minimum embedment depth of 6 feet may be designed for an allowable end bearing pressure of 3,000 psf (includes a factor of safety of 3) and an allowable average skin friction of 250 psf (includes a factor of safety of 2) to support vertical loads applied to the pile foundations. Pole-foundations should be sized according to design loads. Pole-foundations should be spaced a minimum of 3 pile diameters apart. The total settlement of pile foundations designed in accordance with these recommendations should not exceed one-half inch.

Casing may be required when drilling in loose and or dry sands. BSK recommends that the means and method be determined by an experienced drilling contractor in the area. If the casing is left in place, BSK recommends under drilling the hole and driving casing to ensure cohesion between the casing and the soil. Tamped soil surrounding the direct embedment should be moisture conditioned to near optimum moisture content, placed in loose lifts of no greater than 8 inches in thickness, and tamped in place under the observation of a BSK representative.

For pole-foundations, loose or disturbed soils should be removed from pole-foundation excavations. If end bearing is used to provide vertical support for the planned structures, a clean out bucket should be used to remove loose soil from the bottom of the pier holes. Alternatively, the bottom of the holes should
be tamped to the satisfaction of the Geotechnical Engineer to compact loose soil at the bottom of the pier holes. A representative of BSK will be required on site to observe the drilling and clean-out associated with the construction of pole foundations to assess whether the actual bearing conditions are compatible with the conditions anticipating during the preparation of this report. We recommend that construction of the pole-foundations be completed on the same day the holes are drilled to reduce the potential for drying of the soil along the sides of the hole.

4.5 Lateral Earth Pressures and Frictional Resistance
Provided the Site is prepared as recommended above, the following earth pressure parameters for footings may be used for design purposes. The parameters shown in the table below are for drained conditions of select engineered fill or undisturbed native soil.

<table>
<thead>
<tr>
<th>Lateral Pressure Condition</th>
<th>Equivalent Fluid Density (pcf) Drained Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Pressure</td>
<td>30</td>
</tr>
<tr>
<td>At Rest Pressure</td>
<td>50</td>
</tr>
<tr>
<td>Passive Pressure</td>
<td>430</td>
</tr>
</tbody>
</table>

The lateral earth pressures listed herein are obtained by the conventional equation for active, at rest, and passive conditions assuming level backfill and a bulk unit weight of 105 pcf for the Site soils. A coefficient of friction of 0.35 may be used between soil sub-grade and the bottom of footings.

The coefficient of friction and passive earth pressure values given above represent ultimate soil strength values. BSK recommends that a safety factor consistent with the design conditions be included in their usage in accordance with Sections 1806.3.1 through 1806.3.3 of the 2019 CBC. For stability against lateral sliding that is resisted solely by the passive earth pressure against footings or friction along the bottom of footings, a minimum safety factor of 1.5 is recommended. For stability against lateral sliding that is resisted by combined passive pressure and frictional resistance, a minimum safety factor of 2.0 is recommended. For lateral stability against seismic loading conditions, a minimum safety factor of 1.2 is recommended.

4.6 Excavation Stability
Soils encountered within the depth explored are generally classified as Type C soils in accordance with OSHA (Occupational Safety and Health Administration). The slopes surrounding or along temporary excavations may be vertical for excavations that are less than five feet deep and exhibit no indication of potential caving, but should be no steeper than 1.5H:1V for excavations that are deeper than five feet, up to a maximum depth of 15 feet. Certified trench shields or boxes may also be used to protect workers during construction in excavations that have vertical sidewalls and are greater than 5 feet deep. Temporary excavations for the project construction should be left open for as short a time as possible and should be protected from water runoff. In addition, equipment and/or soil stockpiles must be maintained at least 10 feet away from the top of the excavations. Because of variability in soils, BSK must be afforded the opportunity to observe and document sloping and shoring conditions at the time of construction.
Slope height, slope inclination, and excavation depths (including utility trench excavations) must in no case exceed those specified in local, state, or federal safety regulations, (e.g., OSHA Health and Safety Standards for Excavations, 29 CFR Part 1926, or successor regulations).

4.7 **Trench Backfill and Compaction**

Processed on-site soils, which are free of organic material, are suitable for use as general trench backfill above the pipe envelope. Native soil with particles less than three inches in the greatest dimension may be incorporated into the backfill and compacted as specified above, provided they are properly mixed into a matrix of friable soils. The backfill must be placed in thin layers not exceeding 12 inches in loose thickness, be well-blended and consistent texture, moisture conditioned to at least optimum moisture content, and compacted to at least 90 percent of the maximum dry density as determined by the ASTM D1557. The uppermost 12 inches of trench backfill below pavement sections must be compacted to at least 95 percent of the maximum dry density as determined by ASTM D1557. Moisture content within two percent of optimum must be maintained while compacting this upper 12-inch trench backfill zone.

We recommend that trench backfill be tested for compliance with the recommended Relative Compaction and moisture conditions. Field density testing should conform to ASTM Test Methods D1556 or D6938. We recommend that field density tests be performed in the utility trench bedding, envelope and backfill for every vertical lift, at an approximate longitudinal spacing of not greater than 150 feet. Backfill that does not conform to the criteria specified in this section should be removed or reworked, as applicable over the trench length represented by the failing test so as to conform to BSK recommendations.

4.8 **Concrete Slabs on Grade**

Non-structural concrete slab-on-grade floors must be a minimum of 4-inches thick and must be supported on a compacted subgrade prepared in accordance with Section 4.3. In order to regulate cracking of the slabs, construction joints and/or control joints must be provided in each direction at a maximum spacing of 10 feet along with steel reinforcement as recommended by the Project Structural Engineer. Control joints must have a minimum depth of one-quarter of the slab thickness. Due to the difficulty of installing and maintaining woven or welded wire mesh (WWM) in the middle of concrete slabs-on-grade during construction, it is recommended that any steel reinforcement used in concrete slabs-on-grade consist of steel rebar. Structural concrete slabs-on-grade may be designed using a modulus of subgrade reaction equal to 150 pci.

Interior concrete slabs must be successively underlain by: 1½ inches of washed concrete sand; a durable vapor barrier; and a smooth, compacted subgrade surface. The vapor barrier must meet the requirements of ASTM E 1745 Class A and have a water vapor transmission rate (WVTR) of less than or equal to 0.012 Perms as tested by ASTM E 96. Examples of acceptable vapor barrier products include: Stego Wrap (15-mil) Vapor Barrier by STEGO INDUSTRIES LLC; W.R. Meadows Premoulded Membrane with Plasmatic Core; and Zero-Perm by Alumiseal. Because of the importance of the vapor barrier, joints must be carefully spliced and taped. If migration of subgrade moisture through the slab is not a concern, then the vapor barrier and overlying sand may be deleted. The building subgrade must be kept in a moist condition until
the vapor barrier or concrete slab is placed. A representative from BSK must be called to the Site to review soil and moisture conditions immediately prior to placing the vapor barrier or concrete slab.

As indicated in the recent PCA Engineering Bulletin 119, Concrete Floors and Moisture, and applicable ACI Committee reports (see ACI 360R-06, Design of Slabs-on-Ground, dated October 2006 and ACI 302.1R-04, Guide for Concrete Floor and Slab Construction, dated June 2004), the sand layer between the vapor barrier and concrete floor slab may be omitted. This must reduce the amount of moisture that can be transmitted through the slab (especially if the sand layer becomes very moist or wet prior to placing the concrete); however, the risk of slab “curling” is much greater. The “curling” may result from a sharp contrast in moisture-drying conditions between the exposed slab surface and the surface in contact with the membrane. As recommended in the referenced ACI Committee reports, measures must be taken to reduce the risk of “curling” such as reducing the joint spacing, using a low shrinkage mix design, and reinforcing the concrete slab. In order to regulate cracking of the slab, we recommend that full depth construction joints and control joints be provided in each direction with slab thickness and steel reinforcing recommended by the structural engineer.

Excessive landscape water or leaking utility lines could create elevated moisture conditions under concrete slabs, which could result in adverse moisture or mildew conditions in floor slabs or walls.

Accordingly, care must be taken to avoid excess irrigation around the structures, as well as to periodically monitor for leaking utility lines. Likewise, positive surface drainage must be provided around the perimeter of the structures.

As indicated above, the control of the deleterious effects of moisture vapor transmission on flooring materials can be substantially improved by the use of a low porosity concrete. This can be achieved by specifying a low water: cement ratio (0.45 or less by weight), 4,000 psi compressive strength at 28 days and a minimum of 7 days wet-curing.

4.9 Drainage Considerations
The control surface drainage in the project areas is an important design consideration. BSK recommends that final grading around shallow foundations must provide for positive and enduring drainage away from the structures, and ponding of water must not be allowed around, or near the shallow foundations. Ground surface profiles next to the shallow foundations must have at least a 2 percent gradient away from the structures.

4.10 Light Duty Asphalt Concrete Pavement
The Traffic Index (TI) for the pavement areas was not available to us at the time of our investigation. Asphalt concrete pavement sections for various assumed TI values are presented herein. The project design consultant(s) may select the pavement section corresponding to the TI value appropriate for the subject project. Based on the three R-values tests results, BSK calculated the conventional pavement section thicknesses using a subgrade R-Value of 50. Using an R-value of 50 and a range of assumed Traffic Index values, alternative pavement sections are provided in the following table:
Asphalt concrete should conform to Section 39 (Type B Asphalt) of the State of California Transportation Department Standard Specifications. The upper 12-inches of subgrade soils and the aggregate base layer should be compacted to at least 95 percent relative compaction. The pavement should be compacted to a minimum of 92 percent of the maximum laboratory density, according to Caltrans Section 39.

5. PLANS AND SPECIFICATIONS REVIEW

BSK recommends that it be retained to review the draft plans and specifications for the project, with regard to foundations and earthwork, prior to their being finalized and issued for construction bidding.

6. CONSTRUCTION TESTING AND OBSERVATIONS

Geotechnical testing and observation during construction is a vital extension of this geotechnical investigation. BSK recommends that it be retained for those services. Field review during Site preparation and grading allows for evaluation of the exposed soil conditions and confirmation or revision of the assumptions and extrapolations made in formulating the design parameters and recommendations. BSK’s observations must be supplemented with periodic compaction tests to establish substantial conformance with these recommendations. BSK must also be called to the Site to observe foundation excavations, prior to placement of reinforcing steel or concrete, in order to assess whether the actual bearing conditions are compatible with the conditions anticipated during the preparation of this report. BSK must also be called to the Site to observe placement of foundation and slab concrete.

If a firm other than BSK is retained for these services during construction, then that firm must notify the owner, project designers, governmental building officials, and BSK that the firm has assumed the responsibility for all phases (i.e., both design and construction) of the project within the purview of the geotechnical engineer. Notification must indicate that the firm has reviewed this report and any subsequent addenda, and that it either agrees with BSK’s conclusions and recommendations, or that it will provide independent recommendations.

7. LIMITATIONS

The analyses and recommendations submitted in this report are based upon the data obtained from the Borings performed at the locations shown on the Boring Location Map, Figure A-2. The report does not reflect variations which may occur between or beyond the Borings. The nature and extent of such

<table>
<thead>
<tr>
<th>Traffic Index</th>
<th>AC Thickness (inches)</th>
<th>Aggregate Base Thickness (inches)</th>
<th>Total Pavement Section Thickness (inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>2</td>
<td>5</td>
<td>7</td>
</tr>
<tr>
<td>5</td>
<td>3</td>
<td>5</td>
<td>8</td>
</tr>
<tr>
<td>6</td>
<td>3</td>
<td>5</td>
<td>8</td>
</tr>
</tbody>
</table>
variations may not become evident until construction is initiated. If variations then appear, a re-evaluation of the recommendations of this report will be necessary after performing on-Site observations during the excavation period and noting the characteristics of the variations.

The validity of the recommendations contained in this report is also dependent upon an adequate testing and observation program during the construction phase. BSK assumes no responsibility for construction compliance with the design concepts or recommendations unless it has been retained to perform the testing and observation services during construction as described above.

The findings of this report are valid as of the present. However, changes in the conditions of the Site can occur with the passage of time, whether caused by natural processes or the work of man, on this property or adjacent property. In addition, changes in applicable or appropriate standards may occur, whether they result from legislation, governmental policy or the broadening of knowledge.

BSK has prepared this report for the exclusive use of the Client and members of the project design team. The report has been prepared in accordance with generally accepted geotechnical engineering practices which existed in Kern County at the time the report was written. No other warranties either expressed or implied are made as to the professional advice provided under the terms of BSK’s agreement with Client and included in this report.

8. REFERENCES


APPENDIX A

FIELD EXPLORATION
APPENDIX A

FIELD EXPLORATION

The field exploration for this investigation was conducted under the oversight of a BSK staff member. Fifteen (15) boring were drilled at the Site on February 10, 2020 using a B-Mobile 61 rig provided by Baja Exploration to a maximum depth of 51.5 feet beneath the existing ground surface (bgs).

The soil materials encountered in the test borings were visually classified in the field, and the logs were recorded during the drilling and sampling operations. Visual classification of the materials encountered in the test borings was made in general accordance with the Unified Soil Classification System (ASTM D 2488). A soil classification chart is presented herein. Boring logs are presented herein and should be consulted for more details concerning subsurface conditions. Stratification lines were approximated by the field staff based on observations made at the time of drilling, while the actual boundaries between soil types may be gradual and soil conditions may vary at other locations.

Subsurface samples were obtained at the successive depths shown on the boring logs by driving samplers which consisted of a 2.5-inch inside diameter (I.D.) California Sampler and a 1.4-inch I.D. Standard Penetration Test (SPT) Sampler. The samplers were driven 18 inches using a 140-pound hammer dropped from a height of 30 inches by means of either an automatic hammer or a down-hole safety hammer. The number of blows required to drive the last 12 inches was recorded as the blow count (blows/foot) on the boring logs. The relatively undisturbed soil core samples were capped at both ends to preserve the samples at their natural moisture content. Soil samples were also obtained using the SPT Sampler lined with metal tubes or unlined in which case the samples were placed and sealed in polyethylene bags. At the completion of the field exploration, the test borings were backfilled with the excavated soil cuttings.

It should be noted that the use of terms such as “loose”, “medium dense”, “dense” or “very dense” to describe the consistency of a soil is based on sampler blow count and is not necessarily reflective of the in-place density or unit weight of the soils being sampled. The relationship between sampler blow count and consistency is provided in the following Tables A-1 and A-2 for coarse-grained (sandy and gravelly) soils and fine grained (silty and clayey) soils, respectively.
### Table A-1: Consistency of Coarse-Grained Soil by Sampler Blow Count

<table>
<thead>
<tr>
<th>Consistency Descriptor</th>
<th>SPT Blow Count (#Blows / Foot)</th>
<th>2.5” I.D. California Sampler Blow Count (#Blows / Foot)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Very Loose</td>
<td>&lt;4</td>
<td>&lt;6</td>
</tr>
<tr>
<td>Loose</td>
<td>4 – 10</td>
<td>6 – 15</td>
</tr>
<tr>
<td>Medium Dense</td>
<td>10 – 30</td>
<td>15 – 45</td>
</tr>
<tr>
<td>Dense</td>
<td>30 – 50</td>
<td>45 – 80</td>
</tr>
<tr>
<td>Very Dense</td>
<td>&gt;50</td>
<td>&gt;80</td>
</tr>
</tbody>
</table>

### Table A-2: Consistency of Fine-Grained Soil by Sampler Blow Count

<table>
<thead>
<tr>
<th>Consistency Descriptor</th>
<th>SPT Blow Count (#Blows / Foot)</th>
<th>2.5” I.D. California Sampler Blow Count (#Blows / Foot)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Very Soft</td>
<td>&lt;2</td>
<td>&lt;3</td>
</tr>
<tr>
<td>Soft</td>
<td>2 – 4</td>
<td>3 – 6</td>
</tr>
<tr>
<td>Medium Stiff</td>
<td>4 – 8</td>
<td>6 – 12</td>
</tr>
<tr>
<td>Stiff</td>
<td>8 – 15</td>
<td>12 – 24</td>
</tr>
<tr>
<td>Very Stiff</td>
<td>15 – 30</td>
<td>24 – 45</td>
</tr>
<tr>
<td>Hard</td>
<td>&gt;30</td>
<td>&gt;45</td>
</tr>
</tbody>
</table>
Approximate location of previous underground storage tank. Adjacent to east side of shed.
# Soil Classification Chart and Key to Test Data

## Unified Soil Classification System

<table>
<thead>
<tr>
<th>Major Divisions</th>
<th>Typical Names</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Coarse Grained Soils</strong> More than Half &gt;#200</td>
<td></td>
</tr>
<tr>
<td>Gravel</td>
<td>Clean Gravels with little or no fines</td>
</tr>
<tr>
<td>Gravels with over 15% fines</td>
<td>GM</td>
</tr>
<tr>
<td>Gravels with over 15% fines</td>
<td>GC</td>
</tr>
<tr>
<td>Sands</td>
<td>Clean Sands with little or no fines</td>
</tr>
<tr>
<td>Sands with over 15% fines</td>
<td>SM</td>
</tr>
<tr>
<td>Sands with over 15% fines</td>
<td>SC</td>
</tr>
<tr>
<td><strong>Fine Grained Soils</strong> More than Half ≤#200</td>
<td></td>
</tr>
<tr>
<td>Silts and Clays Liquid Limit Less Than 50</td>
<td>ML</td>
</tr>
<tr>
<td>Silts and Clays Liquid Limit Greater Than 50</td>
<td>MH</td>
</tr>
<tr>
<td><strong>Highly Organic Soils</strong></td>
<td>Pt</td>
</tr>
</tbody>
</table>

Note: Dual symbols are used to indicate borderline soil classifications.

### Key to Test Data

- Pushed Shelby Tube
- Standard Penetration Test
- Modified California
- Auger Cuttings
- Grab Sample
- Sample Attempt with No Recovery
- Chemical Analysis
- Consolidation
- Compaction
- Direct Shear
- Permeability
- Pocket Penetrometer
- R-Value
- Sieve Analysis
- Swell Test
- Cyclic Triaxial
- Unconsolidated Undrained Triaxial
- Torvane Shear
- Unconfined Compression
- Water Level at Time of Drilling
- Water Level after Drilling (with date measured)

PLATE: Figure A-3
**LOG OF BORING NO. B-01**

**Project Name:** Bakersfield College - Arvin Educational Center  
**Project Number:** G20-033-11B  
**Project Location:** Arvin, CA  
**Logged by:** A. Rios  
**Checked by:** A. Terronez

---

### MATERIAL DESCRIPTION

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Surface El.</th>
<th>Location:</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Surface: tall grass.</td>
<td></td>
</tr>
</tbody>
</table>

- **SM/ML: SILTY SAND/ SANDY SILT:** brown, fine grained, slightly moist.
- loose
  - Sample Number: 15
  - Penetration Blows / Foot: 96
  - % Passing No. 200 Sieve: 3

- loose
  - Sample Number: 12
  - Penetration Blows / Foot: 94
  - % Passing No. 200 Sieve: 4

- Increase in silt, dry, very firm
  - Sample Number: 15
  - Penetration Blows / Foot: 97
  - % Passing No. 200 Sieve: 3

- **SM: SILTY SAND:** brown, fine grained, increase in sand with depth, dry.
  - Sample Number: 13
  - Penetration Blows / Foot: 87
  - % Passing No. 200 Sieve: 6

- End of boring.

---

**Completion Depth:** 16.5  
**Date Started:** 2/10/20  
**Date Completed:** 2/10/20  
**California Sampler:** 2.4" inner diameter  
**SPT Sampler:** 1.4" inner diameter  
**Drilling Equipment:** Mobile B-61  
**Drilling Method:** Hollow Stem Auger  
**Drive Weight:** 140 pounds  
**Hole Diameter:** 8 inches  
**Drop:** 30 inches  
**Remarks:** Borings backfilled with cuttings
Surface: tall grass.

SM/ML: SILTY SAND/ SANDY SILT: brown, fine grained, slightly moist.

SM: SILTY SAND: brown, fine grained, medium dense, dry, increase fine sand with depth.

medium dense, trace clay

End of boring.

**LOG OF BORING NO. B-02**

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Surface El.:</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Location:</td>
</tr>
<tr>
<td>5</td>
<td>Sample Number</td>
</tr>
<tr>
<td>10</td>
<td>181</td>
</tr>
<tr>
<td>15</td>
<td>17</td>
</tr>
<tr>
<td>20</td>
<td>18</td>
</tr>
</tbody>
</table>

**Completion Depth:** 6.5

**Date Started:** 2/10/20

**Date Completed:** 2/10/20

**California Sampler:** 2.4" inner diameter

**SPT Sampler:** 1.4" inner diameter

**Drilling Equipment:** Mobile B-61

**Drilling Method:** Hollow Stem Auger

**Drive Weight:** 140 pounds

**Hole Diameter:** 8 inches

**Drop:** 30 inches

**Remarks:** Borings backfilled with cuttings
### MATERIAL DESCRIPTION

**Surface:** tall grass.

**SM/ML: SILTY SAND/ SANDY SILT:** brown, fine grained, slight moisture, trace organics.

**SP: SAND:** brown, fine grained, loose, dry, trace silt.

loose, fine to medium grained [disturbed]

**SM: SILTY SAND:** brown, fine grained, loose, dry.

increase in fine sand, loose

---

**LOG OF BORING NO. B-03**

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Surface El.:</th>
<th>Location:</th>
</tr>
</thead>
</table>

**Bakersfield College - Arvin Educational Center**

**Project Number:** G20-033-11B

**Project Location:** Arvin, CA

**Logged by:** A. Rios

**Checked by:** A. Terronez

**Completion Depth:** 51.5

**Date Started:** 2/10/20

**Date Completed:** 2/10/20

**California Sampler:** 2.4" inner diameter

**SPT Sampler:** 1.4" inner diameter

**Drilling Equipment:** Mobile B-61

**Drilling Method:** Hollow Stem Auger

**Drive Weight:** 140 pounds

**Hole Diameter:** 8 inches

**Drop:** 30 inches

**Remarks:** Borings backfilled with cuttings
**LOG OF BORING NO. B-03**

**Project Name:** Bakersfield College - Arvin Educational Center
**Project Number:** G20-033-11B
**Project Location:** Arvin, CA
**Logged by:** A. Rios
**Checked by:** A. Terronex

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Location:</th>
<th>Material Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td></td>
<td>ML: SILT: olive brown, fine grained, firm, slightly moist.</td>
</tr>
<tr>
<td>30</td>
<td></td>
<td>SM: SILTY SAND: pale brown, fine grained, medium dense, slightly moist.</td>
</tr>
<tr>
<td>35</td>
<td></td>
<td>CL: CLAY with SAND: olive brown, fine grained sand, very firm, dry.</td>
</tr>
<tr>
<td>40</td>
<td></td>
<td>SM: SILTY SAND: brown, fine grained, medium dense, dry.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Samples</th>
<th>Sample Number</th>
<th>Penetration Blows / Foot</th>
<th>Pocket Penetro-meter, TSF</th>
<th>% Passing No. 200 Sieve</th>
<th>In-Situ Dry Weight (pcf)</th>
<th>In-Situ Moisture Content (%)</th>
<th>Liquid Limit</th>
<th>Plastic Limit</th>
<th>Plasticity Index</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>7</td>
<td>89</td>
<td>16</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>49</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td>14</td>
<td>83</td>
<td>9</td>
<td></td>
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<td>19</td>
<td>34</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

**Completion Depth:** 51.5
**Date Started:** 2/10/20
**Date Completed:** 2/10/20
**California Sampler:** 2.4" inner diameter
**SPT Sampler:** 1.4" inner diameter
**Drilling Equipment:** Mobile B-61
**Drilling Method:** Hollow Stem Auger
**Drive Weight:** 140 pounds
**Hole Diameter:** 8 inches
**Drop:** 30 inches
**Remarks:** Borings backfilled with cuttings
### LOG OF BORING NO. B-03

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Surface El.:</th>
<th>Location:</th>
<th>MATERIAL DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-45</td>
<td>SP: SAND:</td>
<td>brown, fine to coarse grained, medium dense, trace medium gravel, subangular, slightly moist, poorly graded.</td>
<td></td>
</tr>
<tr>
<td>45-50</td>
<td>SM: SILTY SAND:</td>
<td>olive brown, fine to medium grained, medium dense, slightly moist.</td>
<td></td>
</tr>
<tr>
<td>50-55</td>
<td>SP: SAND: pale yellowish brown, medium to coarse grained, medium dense, poorly graded, subangular to subrounded, slightly moist, trace silt.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

End of boring.

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Completion Depth:</th>
<th>51.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date Started:</td>
<td>2/10/20</td>
<td></td>
</tr>
<tr>
<td>Date Completed:</td>
<td>2/10/20</td>
<td></td>
</tr>
<tr>
<td>California Sampler:</td>
<td>2.4&quot; inner diameter</td>
<td></td>
</tr>
<tr>
<td>SPT Sampler:</td>
<td>1.4&quot; inner diameter</td>
<td></td>
</tr>
<tr>
<td>Drilling Equipment:</td>
<td>Mobile B-61</td>
<td></td>
</tr>
<tr>
<td>Drilling Method:</td>
<td>Hollow Stem Auger</td>
<td></td>
</tr>
<tr>
<td>Drive Weight:</td>
<td>140 pounds</td>
<td></td>
</tr>
<tr>
<td>Hole Diameter:</td>
<td>8 inches</td>
<td></td>
</tr>
<tr>
<td>Drop:</td>
<td>30 inches</td>
<td></td>
</tr>
<tr>
<td>Remarks:</td>
<td>Borings backfilled with cuttings</td>
<td></td>
</tr>
</tbody>
</table>
**LOG OF BORING NO. B-04**

- **Project Name:** Bakersfield College - Arvin Educational Center
- **Project Number:** G20-033-11B
- **Project Location:** Arvin, CA
- **Logged by:** A. Rios
- **Checked by:** A. Terronez

### MATERIAL DESCRIPTION

- **Surface:** tall grass.
- **SM/ML: SILTY SAND/ SANDY SILT:** brown, fine grained, dry, trace organics. 
  - Depth: 6
  - Sample Number: 13
  - Pocket Penetrometer: 33
  - TSF: 4
  - % Passing 200 Sieve: 13
  - In-Situ Dry Weight (pcf): 91
  - In-Situ Moisture Content (%): 4
  - Liquid Limit: 93
  - Plastic Limit: 3

- **SM: SILTY SAND:** brown, fine grained, loose, dry.
  - Depth: 8
  - Sample Number: 13
  - Pocket Penetrometer: 93
  - TSF: 3

- **SP: SAND:** yellowish brown, medium to coarse grained, loose, slight moisture, trace fine gravel, trace silt.
  - Depth: 18
  - Sample Number: 15
  - Pocket Penetrometer: 112
  - TSF: 2

- **ML: SILT with SAND:** brown, fine grained, soft, slightly moist.
  - Depth: 20
  - Sample Number: 6
  - Pocket Penetrometer: 86
  - TSF: 18

### Completion Details

- **Completion Depth:** 51.5
- **Date Started:** 2/10/20
- **Date Completed:** 2/10/20

**Drilling Equipment:** Mobile B-61
**Drilling Method:** Hollow Stem Auger
**Drive Weight:** 140 pounds
**Hole Diameter:** 8 inches
**Drop:** 30 inches
**Remarks:** Borings backfilled with cuttings

---

**LOG OF BORING NO. B-04**

- **Surface El.:**
- **Location:**

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Samples</th>
<th>Sample Number</th>
<th>Pocket Penetrometer</th>
<th>TSF</th>
<th>% Passing 200 Sieve</th>
<th>In-Situ Dry Weight (pcf)</th>
<th>In-Situ Moisture Content (%)</th>
<th>Liquid Limit</th>
<th>Plastic Limit</th>
<th>Plasticity Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
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</tr>
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<td>20</td>
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<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**LOG OF BORING NO. B-04**

**Project Name:** Bakersfield College - Arvin Educational Center  
**Project Number:** G20-033-11B  
**Project Location:** Arvin, CA  
**Logged by:** A. Rios  
**Checked by:** A. Terronez

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Location:</th>
<th>Material Description</th>
<th>Samples</th>
<th>Penetration Blows / Foot</th>
<th>Pocket Penetrometer, TSF</th>
<th>% Passing No. 200 Sieve</th>
<th>In-Situ Dry Weight (pcf)</th>
<th>In-Situ Moisture Content (%)</th>
<th>Liquid Limit</th>
<th>Plastic Limit</th>
<th>Plasticity Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td></td>
<td>ML: SILT with SAND: brown, fine grained, soft, slightly moist.(continued)</td>
<td>8</td>
<td>67</td>
<td>17</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>25</td>
<td></td>
<td>ML: SANDY SILT: brown, fine grained, firm, slightly moist.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>25</td>
<td></td>
<td>CL: CLAY with SAND: brown/ olive brown, fine grained, stiff, moist.</td>
<td>9</td>
<td>85</td>
<td>25</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30</td>
<td></td>
<td>SP: SAND with SILT: grayish brown, fine grained, medium dense, slight moisture.</td>
<td>21</td>
<td>8</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>35</td>
<td></td>
<td>ML: SANDY SILT: brown, fine grained, stiff, moist.</td>
<td>9</td>
<td>60</td>
<td>17</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Completion Depth:** 51.5

**Date Started:** 2/10/20  
**Date Completed:** 2/10/20  
**California Sampler:** 2.4" inner diameter  
**SPT Sampler:** 1.4" inner diameter

**Drilling Equipment:** Mobile B-61  
**Drilling Method:** Hollow Stem Auger  
**Drive Weight:** 140 pounds  
**Hole Diameter:** 8 inches  
**Drop:** 30 inches  
**Remarks:** Borings backfilled with cuttings
### LOG OF BORING NO. B-04

**Project Name:** Bakersfield College - Arvin Educational Center  
**Project Number:** G20-033-11B  
**Project Location:** Arvin, CA  
**Logged by:** A. Rios  
**Checked by:** A. Terronez

#### MATERIAL DESCRIPTION

**SM: SILTY SAND:** grayish brown, fine to coarse grained, medium dense, slightly moist.  
Sample: 19  
Blows / Foot: 13  
% Passing No. 200 Sieve: 6

**SC: CLAYEY SAND:** olive brown, fine grained, medium dense, moist.  
Sample: 23  
Blows / Foot: 44  
% Passing No. 200 Sieve: 11

End of boring.

---

**Depth, feet**

<table>
<thead>
<tr>
<th>Depth</th>
<th>Graphic Log</th>
</tr>
</thead>
<tbody>
<tr>
<td>45</td>
<td></td>
</tr>
<tr>
<td>50</td>
<td></td>
</tr>
<tr>
<td>55</td>
<td></td>
</tr>
<tr>
<td>60</td>
<td></td>
</tr>
<tr>
<td>65</td>
<td></td>
</tr>
</tbody>
</table>

**Completion Depth:** 51.5

**Date Started:** 2/10/20  
**Date Completed:** 2/10/20  
**California Sampler:** 2.4” inner diameter  
**SPT Sampler:** 1.4” inner diameter  
**Drilling Equipment:** Mobile B-61  
**Drilling Method:** Hollow Stem Auger  
**Drive Weight:** 140 pounds  
**Hole Diameter:** 8 inches  
**Drop:** 30 inches  
**Remarks:** Borings backfilled with cuttings
Surface: tall grass

**SM: SILTY SAND:** brown, fine to medium grained, slight moisture.

loose, dry, increase in sand with depth

---

**SP: SAND:** brown, fine to medium grained, loose, dry, trace silt. [partial recovery]

---

**SM/ML: SILTY SAND/SANDY SILT:** brown, fine grained, loose, dry.

loose

End of boring.

---

**LOG OF BORING NO. B-05**

**Project Name:** Bakersfield College - Arvin Educational Center

**Project Number:** G20-033-11B

**Project Location:** Arvin, CA

**Logged by:** A. Rios

**Checked by:** A. Terronez

---

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Sample Number</th>
<th>Pocket Penetrometer Blows / Foot</th>
<th>% Passing No. 200 Sieve</th>
<th>In-Situ Dry Weight (pcf)</th>
<th>In-Situ Moisture Content (%)</th>
<th>Liquid Limit</th>
<th>Plastic Limit</th>
<th>Plasticity Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>11</td>
<td>11</td>
<td>90</td>
<td>90</td>
<td>5</td>
<td>5</td>
<td>30</td>
<td>5</td>
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<tr>
<td>5</td>
<td>12</td>
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<td>30</td>
<td>5</td>
</tr>
<tr>
<td>10</td>
<td>10</td>
<td>10</td>
<td>2</td>
<td>2</td>
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</tr>
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<td>2</td>
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</tbody>
</table>

**Completion Depth:** 16.5

**Date Started:** 2/10/20

**Date Completed:** 2/10/20

**California Sampler:** 2.4" inner diameter

**SPT Sampler:** 1.4" inner diameter

**Drilling Equipment:** Mobile B-61

**Drilling Method:** Hollow Stem Auger

**Drive Weight:** 140 pounds

**Hole Diameter:** 8 inches

**Drop:** 30 inches

**Remarks:** Borings backfilled with cuttings
LOG OF BORING NO. B-06

Bakersfield College - Arvin Educational Center
G20-033-11B
Arvin, CA
A. Rios
A. Terronez

Surface El.:

Location:

MATERIAL DESCRIPTION

Surface: tall grass

SM/ML: SILTY SAND/ SANDY SILT: brown, fine grained, slight moisture.

loose

loose, increase in fine to medium grained sand, moist.

SP: SAND: pale brown, medium grained, loose, dry, poorly graded.

SM: SILTY SAND: brown, fine grained, loose, moist.

End of boring.

Depth, feet

Samples

Surface Description

Penetration

Blows / Foot

Pocket Penetrometer, TSF

% Passing No. 200 Sieve

In-Situ Dry Weight (pcf)

In-Situ Moisture Content (%)

Liquid Limit

Plastic Limit

Plasticity Index

Depth, feet

Samples

Surface Description

Penetration

Blows / Foot

Pocket Penetrometer, TSF

% Passing No. 200 Sieve

In-Situ Dry Weight (pcf)

In-Situ Moisture Content (%)

Liquid Limit

Plastic Limit

Plasticity Index

Completion Depth: 16.5

Date Started: 2/10/20

Date Completed: 2/10/20

California Sampler: 2.4” inner diameter

SPT Sampler: 1.4” inner diameter

Drilling Equipment: Mobile B-61

Drilling Method: Hollow Stem Auger

Drive Weight: 140 pounds

Hole Diameter: 8 inches

Drop: 30 inches

Remarks: Borings backfilled with cuttings

BSK Associates
700 22nd Street
Bakersfield, CA 93301
Telephone: (661) 327-0671
Fax: (661) 324-4218

GEO_TARGET BORING LOGS_BC ARVIN CAMPUS.GPJ  GEOTECHNICAL 08.GDT  3/3/20
**LOG OF BORING NO. B-07**

**Project Name:** Bakersfield College - Arvin Educational Center  
**Project Number:** G20-033-11B  
**Project Location:** Arvin, CA  
**Logged by:** A. Rios  
**Checked by:** A. Terronez

### MATERIAL DESCRIPTION

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Surface El.:</th>
<th>Location:</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Surface:</th>
<th>Sample Number</th>
<th>Penetration</th>
<th>Pocket Penetro-meter</th>
<th>% Passing No. 200 Sieve</th>
<th>In-Situ Dry Weight (pcf)</th>
<th>In-Situ Moisture Content (%)</th>
<th>Plasticity Index</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Tall Grass</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>SM: Silty Sand</td>
<td>28</td>
<td>3</td>
<td></td>
<td></td>
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<td>5</td>
<td>SP: Sand</td>
<td>9</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>SM/ML: Silty Sand/Sandy Silt</td>
<td>14</td>
<td>127</td>
<td>2</td>
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<td>15</td>
<td>SP: Sand</td>
<td>15</td>
<td>2</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>SM/ML: Silty Sand/Sandy Silt</td>
<td>10</td>
<td>89</td>
<td>13</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Surface:** tall grass
- **SM: Silty Sand:** brown, fine grained, moist.
- **SP: Sand:** brown, fine grained, loose, trace silt, dry.
- **SM/ML: Silty Sand/Sandy Silt:** brown, fine grained, loose, dry.
- **SP: Sand:** yellowish brown, fine to medium grained, loose, subrounded to subangular, trace fine gravel, dry. [disturbed]
- **SM/ML: Silty Sand/Sandy Silt:** brown, fine grained, loose, moist, trace clay.

*End of boring.*

**Completion Depth:** 16.5 feet  
**Date Started:** 2/10/20  
**Date Completed:** 2/10/20  
**Drilling Equipment:** Mobile B-61  
**Drilling Method:** Hollow Stem Auger  
**Drive Weight:** 140 pounds  
**Hole Diameter:** 8 inches  
**Drop:** 30 inches  
**Remarks:** Borings backfilled with cuttings
### LOG OF BORING NO. B-08

**Surface El.:**

- **SM: SILTY SAND:** brown, fine grained, dry, cemented.
- medium dense

- **SC/CL: CLAYEY SAND/ SANDY CLAY:** olive brown, fine grained, dry.
  - **SP: SAND:** brown, fine grained, loose, dry.
  - medium dense, yellowish brown, medium to coarse grained, poorly graded, subrounded to subangular

- **SM: SITLY SAND:** brown, fine grained, loose, moist.
  - End of boring.

---

**Completion Depth:** 16.5
**Date Started:** 2/10/20
**Date Completed:** 2/10/20
**California Sampler:** 2.4" inner diameter
**SPT Sampler:** 1.4" inner diameter

**Drilling Equipment:** Mobile B-61
**Drilling Method:** Hollow Stem Auger
**Drive Weight:** 140 pounds
**Hole Diameter:** 8 inches
**Drop:** 30 inches
**Remarks:** Borings backfilled with cuttings

---

**Surface:** tall grass

- **SM: SILTY SAND:** brown, fine grained, dry, cemented.
  - medium dense

- **SC/CL: CLAYEY SAND/ SANDY CLAY:** olive brown, fine grained, dry.
  - **SP: SAND:** brown, fine grained, loose, dry.
  - medium dense, yellowish brown, medium to coarse grained, poorly graded, subrounded to subangular

- **SM: SITLY SAND:** brown, fine grained, loose, moist.
  - End of boring.
### MATERIAL DESCRIPTION

#### Surface: tall grass

**SM/ML: SILTY SAND/ SANDY SILT:** brown, fine grained, slight moisture.

- Loose

#### SP: SAND:

- Brown, fine grained, loose, dry, trace silt.

#### SM: SILTY SAND:

- Brown, fine to coarse grained, medium dense, dry, increase in sand with depth.

#### SM/ML: SILTY SAND/ SANDY SILT:

- Brown, fine grained, loose, moist, trace oxidation.

End of boring.
**LOG OF BORING NO. B-10**

**Project Name:** Bakersfield College - Arvin Educational Center  
**Project Number:** G20-033-11B  
**Project Location:** Arvin, CA  
**Logged by:** A. Rios  
**Checked by:** A. Terronez

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Sample Number</th>
<th>Penetration Blows / Foot</th>
<th>Pocket Penetrometer, TSF</th>
<th>% Passing No. 200 Sieve</th>
<th>In-Situ Dry Weight (pcf)</th>
<th>In-Situ Moisture Content (%)</th>
<th>Liquid Limit</th>
<th>Plastic Limit</th>
<th>Plasticity Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td></td>
<td></td>
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<td></td>
<td></td>
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<tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**MATERIAL DESCRIPTION**

- **Surface:** sandy silt
- **ML:** SANDY SILT: brown, fine grained sand, dry.

**End of boring.**

**Completion Depth:** 5.0  
**Date Started:** 2/10/20  
**Date Completed:** 2/10/20  
**California Sampler:** 2.4" inner diameter  
**SPT Sampler:** 1.4" inner diameter  
**Drilling Equipment:** Mobile B-61  
**Drilling Method:** Hollow Stem Auger  
**Drive Weight:** 140 pounds  
**Hole Diameter:** 8 inches  
**Drop:** 30 inches  
**Remarks:** Borings backfilled with cuttings
## LOG OF BORING NO. B-11

**Project Name:** Bakersfield College - Arvin Educational Center  
**Project Number:** G20-033-11B  
**Project Location:** Arvin, CA  
**Logged by:** A. Rios  
**Checked by:** A. Terronez

### MATERIAL DESCRIPTION

- **Surface:** Silty sand
- **SM: SILTY SAND:** brown, fine grained, slightly moist.

- **End of boring.**

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Surface El.:</th>
<th>Location:</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Surface:</td>
<td>Location:</td>
</tr>
<tr>
<td>5</td>
<td>SM: Silty</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Sand</td>
<td></td>
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<tr>
<td>15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### LOG OF BORING NO. B-11

<table>
<thead>
<tr>
<th>Boring No.</th>
<th>B-11</th>
<th>Depth, feet</th>
<th>5</th>
</tr>
</thead>
</table>

### Technical Details

- **Completion Depth:** 5.0  
- **Date Started:** 2/10/20  
- **Date Completed:** 2/10/20  
- **California Sampler:** 2.4” inner diameter  
- **SPT Sampler:** 1.4” inner diameter  
- **Drilling Equipment:** Mobile B-61  
- **Drilling Method:** Hollow Stem Auger  
- **Drive Weight:** 140 pounds  
- **Hole Diameter:** 8 inches  
- **Drop:** 30 inches  
- **Remarks:** Borings backfilled with cuttings

**BSK Associates**  
700 22nd Street  
Bakersfield, CA 93301  
Telephone: (661) 327-0671  
Fax: (661) 324-4218

**Location:** Bakersfield College - Arvin Educational Center  
**Project Name:** G20-033-11B  
**Logged by:** A. Rios  
**Checked by:** A. Terronez  
**Correspondence:** BSK Associates  
700 22nd Street  
Bakersfield, CA 93301  
Telephone: (661) 327-0671  
Fax: (661) 324-4218
### LOG OF BORING NO. B-12

**Bakersfield College - Arvin Educational Center**  
G20-033-11B  
Arvin, CA  
A. Rios  
A. Terronez

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Surface EI.</th>
<th>Location:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Surface:</strong></td>
<td>tall grass</td>
<td></td>
</tr>
<tr>
<td><strong>ML: SANDY SILT:</strong></td>
<td>brown, fine grained, slight moisture.</td>
<td></td>
</tr>
<tr>
<td><strong>SM: SILTY SAND:</strong></td>
<td>brown, fine to medium grained, medium dense, dry.</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>22</td>
<td>2</td>
</tr>
<tr>
<td>10</td>
<td>104</td>
<td>2</td>
</tr>
<tr>
<td>21</td>
<td>102</td>
<td>2</td>
</tr>
</tbody>
</table>

**End of boring.**

**Completion Depth:** 6.5  
**Date Started:** 2/10/20  
**Date Completed:** 2/10/20  
**California Sampler:** 2.4" inner diameter  
**SPT Sampler:** 1.4" inner diameter

**Drilling Equipment:** Mobile B-61  
**Drilling Method:** Hollow Stem Auger  
**Drive Weight:** 140 pounds  
**Hole Diameter:** 8 inches  
**Drop:** 30 inches  
**Remarks:** Borings backfilled with cuttings
**LOG OF BORING NO. B-13**

**Surface El.:** tall grass

**SM: SILTY SAND:** brown, fine grained, dry.

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Sample</th>
<th>Penetration Blows / Foot</th>
<th>Pocket Penetrometer, TSF</th>
<th>% Passing No. 200 Sieve</th>
<th>In-Situ Dry Weight (pcf)</th>
<th>In-Situ Moisture Content (%)</th>
<th>Liquid Limit</th>
<th>Plastic Limit</th>
<th>Plasticity Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>8</td>
<td>8</td>
<td>91</td>
<td>4</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>10</td>
<td>10</td>
<td>115</td>
<td>3</td>
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<td></td>
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<td>11</td>
<td>96</td>
<td>3</td>
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**Remarks:** Borings backfilled with cuttings

**Completion Depth:** 16.5
**Date Started:** 2/10/20
**Date Completed:** 2/10/20
**California Sampler:** 2.4" inner diameter
**SPT Sampler:** 1.4" inner diameter

**Drilling Equipment:** Mobile B-61
**Drilling Method:** Hollow Stem Auger
**Drive Weight:** 140 pounds
**Hole Diameter:** 8 inches
**Drop:** 30 inches
**LOG OF BORING NO. B-14**

**Project Name:** Bakersfield College - Arvin Educational Center  
**Project Number:** G20-033-11B  
**Project Location:** Arvin, CA  
**Logged by:** A. Rios  
**Checked by:** A. Terronez

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Location:</th>
<th>MATERIAL DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Surface:</td>
<td>tall grass</td>
</tr>
<tr>
<td>10</td>
<td>SM/ML:</td>
<td>SILTY SAND/ SANDY SILT: brown, fine grained, dry.</td>
</tr>
<tr>
<td>15</td>
<td>SM:</td>
<td>SILTY SAND: brown, fine grained, loose, dry.</td>
</tr>
<tr>
<td>20</td>
<td>SM/ML:</td>
<td>SILTY SAND/ SANDY SILT: brown, fine grained, dry.</td>
</tr>
<tr>
<td>25</td>
<td>loose,</td>
<td>trace clay</td>
</tr>
<tr>
<td>30</td>
<td>SP:</td>
<td>SAND: grayish brown, fine to medium grained, loose, trace silt, dry.</td>
</tr>
<tr>
<td>35</td>
<td>End of boring.</td>
<td></td>
</tr>
</tbody>
</table>

**Completion Depth:** 16.5  
**Date Started:** 2/10/20  
**Date Completed:** 2/10/20  
**California Sampler:** 2.4" inner diameter  
**SPT Sampler:** 1.4" inner diameter  
**Drilling Equipment:** Mobile B-61  
**Drilling Method:** Hollow Stem Auger  
**Drive Weight:** 140 pounds  
**Hole Diameter:** 8 inches  
**Drop:** 30 inches  
**Remarks:** Borings backfilled with cuttings
## MATERIAL DESCRIPTION

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Surface El.: Surface</th>
<th>ML: SILT:</th>
<th>SP: SAND:</th>
<th>SC: CLAYEY SAND:</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>tall grass</td>
<td>brown, fine grained, moist.</td>
<td>brown/dark brown, fine to medium grained, dense, dry, trace silt, cemented.</td>
<td>olive brown, fine to medium grained, cemented, dry.</td>
</tr>
<tr>
<td>5</td>
<td>medium dense [disturbed]</td>
<td>24 125 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>15</td>
<td>End of boring.</td>
<td></td>
<td></td>
<td></td>
</tr>
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<td>20</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sample Number</th>
<th>Penetration Blows / Foot</th>
<th>Pocket Penetrometer, TSF</th>
<th>% Passing No. 200 Sieve</th>
<th>In-Situ Dry Weight (pcf)</th>
<th>In-Situ Moisture Content (%)</th>
<th>Liquid Limit</th>
<th>Plastic Limit</th>
<th>Plasticity Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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</tr>
</tbody>
</table>

**Completion Depth:** 16.5
**Date Started:** 2/10/20
**Date Completed:** 2/10/20
**California Sampler:** 2.4” inner diameter
**SPT Sampler:** 1.4” inner diameter

**Drilling Equipment:** Mobile B-61
**Drilling Method:** Hollow Stem Auger
**Drive Weight:** 140 pounds
**Hole Diameter:** 8 inches
**Drop:** 30 inches
**Remarks:** Borings backfilled with cuttings
APPENDIX B

LABORATORY TESTING RESULTS
Moisture-Density Tests
The field moisture content, as a percentage of dry weight of the soils, was determined by weighing the samples before and after oven drying in accordance with ASTM D 2216 test procedures. Test results are presented on the boring logs in Appendix A.

Direct Shear Test
Two (2) Direct Shear Tests were performed on an in-situ soil sample from a selected Boring. The tests were conducted to determine the soil strength characteristics. The standard test method is ASTM D 3080, Direct Shear Test for Soil under Consolidated Drained Conditions. The results of the direct shear test are presented graphically on Figures B-1 and B-2.

Collapse Potential Test
Four (4) Collapse Potential Tests were performed on relatively undisturbed soil samples to evaluate collapse potential characteristics. The tests were performed in general accordance with ASTM D 5333. The sample was initially loaded under as-received moisture content to a selected stress level, loaded to a maximum load of 1300 psf and then saturated. The test results are presented on Figures B-3 through B-6.

Expansion Index Test
Two (2) Expansion Index Tests were performed on bulk soil samples in the Site area. The test was performed in general accordance with UBC Standard 18-2. The test results are presented on Figures B-7 and B-8.

R-Value Test
Three (3) Resistance-Value tests were performed on samples of the soil obtained at the time of drilling in the area of planned construction to evaluate the subgrade material for a pavement design. The soil was evaluated in accordance with California Department of Transportation’s Test Method 301. The R-Value tests results are presented on Figures B-9 through B-11.

Soil Corrosivity
Three (3) Corrosivity Evaluation were performed on bulk soil samples obtained at the time of drilling in the area of planned construction. The soil was evaluated for minimum resistivity (ASTM G57). The test results are presented in Table B-1.

Minus #200 Wash Tests
Twenty-nine (29) #200 Wash Tests were performed on selected soil samples obtained at the time of drilling in the area of planned construction. The tests were performed to determine the amount of fine material present in the subsurface material. The tests were performed in general accordance with ASTM Test Method D1140. The test results are presented in Table B-2 and the boring logs in Appendix A.
### Table B-1: Summary of Corrosion Test Results

<table>
<thead>
<tr>
<th>Sample Location</th>
<th>pH</th>
<th>Sulfate, ppm</th>
<th>Chloride, ppm</th>
<th>Minimum Resistivity, ohm-cm</th>
</tr>
</thead>
<tbody>
<tr>
<td>B-4 @ 0-5 feet bgs</td>
<td>7.51</td>
<td>Not Detected</td>
<td>25</td>
<td>4,400</td>
</tr>
<tr>
<td>B-5 @ 0-5 feet bgs</td>
<td>7.55</td>
<td>Not Detected</td>
<td>Not Detected</td>
<td>7,000</td>
</tr>
<tr>
<td>B-15 @ 0-5 feet bgs</td>
<td>7.34</td>
<td>Not Detected</td>
<td>Not Detected</td>
<td>1,300</td>
</tr>
</tbody>
</table>

### Table B-2: Summary of Minus #200 Wash Test Results

<table>
<thead>
<tr>
<th>Test Location</th>
<th>Percent Fines</th>
</tr>
</thead>
<tbody>
<tr>
<td>B-2 @ 0-5 feet bgs</td>
<td>27</td>
</tr>
<tr>
<td>B-3 @ 0-5 feet bgs</td>
<td>21</td>
</tr>
<tr>
<td>B-3 @ 5.5-6 feet bgs</td>
<td>8</td>
</tr>
<tr>
<td>B-3 @ 11-11.5 feet bgs</td>
<td>45</td>
</tr>
<tr>
<td>B-3 @ 16-16.5 feet bgs</td>
<td>28</td>
</tr>
<tr>
<td>B-3 @ 20-21.5 feet bgs</td>
<td>89</td>
</tr>
<tr>
<td>B-3 @ 25-26.5 feet bgs</td>
<td>49</td>
</tr>
<tr>
<td>B-3 @ 30-31.5 feet bgs</td>
<td>83</td>
</tr>
<tr>
<td>B-3 @ 35-35.5 feet bgs</td>
<td>34</td>
</tr>
<tr>
<td>B-3 @ 40-41.5 feet bgs</td>
<td>4</td>
</tr>
<tr>
<td>B-4 @ 0-5 feet bgs</td>
<td>33</td>
</tr>
<tr>
<td>B-4 @ 11-11.5 feet bgs</td>
<td>5</td>
</tr>
<tr>
<td>B-4 @ 15-16.5 feet bgs</td>
<td>84</td>
</tr>
<tr>
<td>B-4 @ 20-21.5 feet bgs</td>
<td>67</td>
</tr>
<tr>
<td>B-4 @ 25-26.5 feet bgs</td>
<td>85</td>
</tr>
<tr>
<td>B-4 @ 30-31.5 feet bgs</td>
<td>8</td>
</tr>
<tr>
<td>B-4 @ 35-35.5 feet bgs</td>
<td>60</td>
</tr>
<tr>
<td>B-4 @ 40-41.5 feet bgs</td>
<td>13</td>
</tr>
<tr>
<td>B-4 @ 45-46.5 feet bgs</td>
<td>44</td>
</tr>
</tbody>
</table>
### Table B-2: Summary of Minus #200 Wash Test Results (continue)

<table>
<thead>
<tr>
<th>Test Location</th>
<th>Percent Fines</th>
</tr>
</thead>
<tbody>
<tr>
<td>B-4 @ 50-51.5 feet bgs</td>
<td>27</td>
</tr>
<tr>
<td>B-5 @ 0-5 feet bgs</td>
<td>21</td>
</tr>
<tr>
<td>B-7 @ 0-5 feet bgs</td>
<td>28</td>
</tr>
<tr>
<td>B-10 @ 0-5 feet bgs</td>
<td>69</td>
</tr>
<tr>
<td>B-11 @ 0-5 feet bgs</td>
<td>40</td>
</tr>
<tr>
<td>B-12 @ 0-5 feet bgs</td>
<td>22</td>
</tr>
<tr>
<td>B-14 @ 0-5 feet bgs</td>
<td>27</td>
</tr>
<tr>
<td>B-15 @ 0-5 feet bgs</td>
<td>31</td>
</tr>
</tbody>
</table>
Direct Shear Test

ASTM D 3080

Project Name: Bakersfield College-Arvin Educational Center
Project Number: G20-033-11B
Lab Tracking ID: B20-018
Sample Location: B-8 @ 3.0-3.5 feet bgs
Sample Description: SM: SILTY SAND: brown, fine grained sand, dry.

Sample Date: 2/10/2020
Test Date: 02/14/2020
Report Date: 02/17/2020
Sampled By: A. Rios
Tested By: C. Irving

Reviewed By: Ian Remotique

Figure B-1

SM: SILTY SAND: brown, fine grained sand, dry.

SHEAR STRENGTH DIAGRAM

- DRY DENSITY: 106 pcf
- MOISTURE CONTENT: 4%
- INTERNAL FRICTION ANGLE, φ = 32°
- COHESION, c = 0.24 KSF
**Direct Shear Test**

**ASTM D 3080**

---

**Project Name:** Bakersfield College-Arvin Educational Center  
**Project Number:** G20-033-11B  
**Lab Tracking ID:** B20-018  
**Sample Location:** B-14 @ 3.0-3.5 feet bgs  
**Sample Description:** SM: SILTY SAND: brown, fine grained sand, dry.

---

**Sample Date:** 2/10/2020  
**Test Date:** 2/18/2020  
**Report Date:** 2/17/2020  
**Sampled By:** A. Rios  
**Tested By:** C. Irving

---

**Figure B-2**

**SHEAR STRENGTH DIAGRAM**

- **Dry Density:** 96 pcf  
- **Moisture Content:** 3%  
- **Internal Friction Angle, \( \phi = 31^\circ \)**  
- **Cohesion, \( c = 0.22 \text{ KSF} \)**

---

**Reviewed By:** Ian Remotique
<table>
<thead>
<tr>
<th>Project Name:</th>
<th>Bakersfield College-Arvin Educational Center</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Number:</td>
<td>G20-033-11B</td>
</tr>
<tr>
<td>Sample Location:</td>
<td>B-1 @ 3.0-3.5 Feet bgs</td>
</tr>
<tr>
<td>Sample Description:</td>
<td>SM: SILTY SAND: brown, fine grained sand, moist, dry.</td>
</tr>
<tr>
<td>Sample Date:</td>
<td>2/10/2020</td>
</tr>
<tr>
<td>Test Date:</td>
<td>2/11/2020</td>
</tr>
<tr>
<td>Sampled By:</td>
<td>A. Rios</td>
</tr>
<tr>
<td>Tested By:</td>
<td>I. Remotigue</td>
</tr>
<tr>
<td>Collapse Potential:</td>
<td>0.07 percent collapse at 1300 psf</td>
</tr>
<tr>
<td>Peak Load (psf):</td>
<td>1300</td>
</tr>
<tr>
<td>Dry Density (pcf):</td>
<td>96</td>
</tr>
<tr>
<td>Initial Moisture Content (%):</td>
<td>3</td>
</tr>
</tbody>
</table>

**CONSOLIDATION PROPERTIES**

![Consolidation Properties Graph](#)
 Collapse Potential Test
ASTM D 5333, One-Dimensional Analysis

Project Name: Bakersfield College-Arvin Educational Center
Project Number: G20-033-11B
Sample Location: B-3 @ 3.0-3.5 Feet bgs
Sample Description: SP: SAND: brown, fine grained sand, dry, trace silt.
Sample Date: 2/10/2020
Test Date: 2/13/2020
Sampled By: A. Rios
Tested By: C. Irving

Collapse Potential: 0.29 percent collapse at 1300 psf
Peak Load (psf): 1300
Dry Density (pcf): 98
Initial Moisture Content (%): 2

CONSOLIDATION PROPERTIES

NORMAL STRESS IN KIPS PER SQUARE FOOT
LENGTH CHANGE IN PERCENT

CONSOLIDATION
SOAKED

Figure B-4
Collapse Potential Test

ASTM D 5333, One-Dimensional Analysis

Project Name: Bakersfield College-Arvin Educational Center
Project Number: G20-033-11B
Sample Location: B-4 @ 6.0-6.5 Feet bgs
Sample Description: SM: SILTY SAND: brown, fine grained sand, dry.
Sample Date: 2/10/2020
Test Date: 2/13/2020
Sampled By: A. Rios
Tested By: C. Irving

Collapse Potential: 0.86 percent collapse at 1300 psf
Peak Load (psf): 1300
Dry Density (pcf): 93
Initial Moisture Content (%): 3

CONSOLIDATION PROPERTIES

LENGTH CHANGE IN PERCENT

CONSOLIDATION

SOAKED

NORMAL STRESS IN KIPS PER SQUARE FOOT

Figure B-5
Collapse Potential Test

ASTM D 5333, One-Dimensional Analysis

Project Name: Bakersfield College-Arvin Educational Center
Project Number: G20-033-11B
Sample Location: B-13 @ 3.0-3.5 Feet bgs
Sample Description: SM: SILTY SAND: brown, fine grained sand, dry.
Sample Date: 2/10/2020
Test Date: 2/13/2020
Sampled By: A. Rios
Tested By: C. Irving

Collapse Potential: 0.49 percent collapse at 1300 psf
Peak Load (psf): 1300
Dry Density (pcf): 91
Initial Moisture Content (%): 4

CONSOLIDATION PROPERTIES

LENGTH CHANGE IN PERCENT

CONsolidation

SOAKED

NORMAL STRESS IN KIPS PER SQUARE FOOT

Figure B-6
EXPANSION INDEX OF SOILS

Project Name: Bakersfield College-Arvin Educational Center
Project Number: G20-033-11B
Lab Tracking ID: B20-018
Sample Location: B-5 @ 0.00-5.00 feet bgs
Sample Description: SM: SILTY SAND: brown, fine to medium grained sand.
Sampled By: A. Rios
Tested By: F. Velez
Reviewed By: I.L.T. Remotigue
Sample Date: 2/10/2020
Test Date: 2/17/2020

### TEST DATA

<table>
<thead>
<tr>
<th>INITIAL SET-UP DATA</th>
<th>FINAL TAKE-DOWN DATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sample + Tare Weight (g)</td>
<td>759.8</td>
</tr>
<tr>
<td>Tare Weight (g)</td>
<td>368.9</td>
</tr>
<tr>
<td>Moisture Content Data</td>
<td>Moisture Content Data</td>
</tr>
<tr>
<td>Wet Weight + Tare</td>
<td>200.0</td>
</tr>
<tr>
<td>Dry Weight + Tare</td>
<td>181.4</td>
</tr>
<tr>
<td>Tare Weight (g)</td>
<td>0</td>
</tr>
<tr>
<td>Moisture Content (%)</td>
<td>10.3%</td>
</tr>
<tr>
<td>Initial Volume (ft³)</td>
<td>0.007272</td>
</tr>
<tr>
<td>Remolded Wet Density (pcf)</td>
<td>118.5</td>
</tr>
<tr>
<td>Remolded Dry Density (pcf)</td>
<td>107.5</td>
</tr>
<tr>
<td>Degree of Saturation</td>
<td>48.8</td>
</tr>
</tbody>
</table>

### EXPANSION READINGS

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial Gauge Reading (in)</td>
<td>0.2540</td>
</tr>
<tr>
<td>Final Gauge Reading (in)</td>
<td>0.2540</td>
</tr>
<tr>
<td>Expansion (in)</td>
<td>0.0000</td>
</tr>
</tbody>
</table>

| Uncorrected Expansion Index | 0 |
| Corrected Expansion Index, EI | 0 |

### Classification of Expansive Soil

<table>
<thead>
<tr>
<th>EI</th>
<th>Potential Expansion</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 20</td>
<td>Very Low</td>
</tr>
<tr>
<td>21 - 50</td>
<td>Low</td>
</tr>
<tr>
<td>51 - 90</td>
<td>Medium</td>
</tr>
<tr>
<td>91 - 130</td>
<td>High</td>
</tr>
<tr>
<td>&gt;130</td>
<td>Very High</td>
</tr>
</tbody>
</table>

Remarks: The material has very low Potential Expansion

Figure B-7
**EXPANSION INDEX OF SOILS**

**Bakersfield College-Arvin Educational Center**

**G20-033-11B**

**B20-018**

**B-15 @ 0.00-5.00 feet bgs**

**SM: SILTY SAND: brown, fine to medium grained sand.**

**A. Rios**  
**F. Velez**  
**I.L.T. Remotigue**

### TEST DATA

<table>
<thead>
<tr>
<th>INITIAL SET-UP DATA</th>
<th>FINAL TAKE-DOWN DATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sample + Tare Weight (g)</td>
<td>797.4</td>
</tr>
<tr>
<td>Tare Weight (g)</td>
<td>373.0</td>
</tr>
<tr>
<td><strong>Moisture Content Data</strong></td>
<td></td>
</tr>
<tr>
<td>Wet Weight + Tare</td>
<td>200.0</td>
</tr>
<tr>
<td>Dry Weight + Tare</td>
<td>186.1</td>
</tr>
<tr>
<td>Tare Weight (g)</td>
<td>0</td>
</tr>
<tr>
<td>Moisture Content (%)</td>
<td>7.5%</td>
</tr>
<tr>
<td>Initial Volume (ft$^3$)</td>
<td>0.007272</td>
</tr>
<tr>
<td>Remolded Wet Density (pcf)</td>
<td>128.7</td>
</tr>
<tr>
<td>Remolded Dry Density (pcf)</td>
<td>119.7</td>
</tr>
<tr>
<td>Degree of Saturation</td>
<td>49.5</td>
</tr>
</tbody>
</table>

### EXPANSION READINGS

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial Gauge Reading (in)</td>
<td>0.2523</td>
</tr>
<tr>
<td>Final Gauge Reading (in)</td>
<td>0.2558</td>
</tr>
<tr>
<td>Expansion (in)</td>
<td>0.0035</td>
</tr>
</tbody>
</table>

| Uncorrected Expansion Index | 4 |
| Corrected Expansion Index, EI | 3 |

**Remarks:** The material has very low Potential Expansion

**Classification of Expansive Soil**

<table>
<thead>
<tr>
<th>El</th>
<th>Potential Expansion</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 20</td>
<td>Very Low</td>
</tr>
<tr>
<td>21 - 50</td>
<td>Low</td>
</tr>
<tr>
<td>51 - 90</td>
<td>Medium</td>
</tr>
<tr>
<td>91 - 130</td>
<td>High</td>
</tr>
<tr>
<td>&gt;130</td>
<td>Very High</td>
</tr>
</tbody>
</table>

Figure B-8
**Sample Description:** SM: SILTY SAND: brown, fine to medium grained sand.

<table>
<thead>
<tr>
<th>SPECIMEN</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXUDATION PRESSURE, LOAD (lb)</td>
<td>9683.5</td>
<td>6131.1</td>
<td>2225.8</td>
</tr>
<tr>
<td>EXUDATION PRESSURE, PSI</td>
<td>771</td>
<td>488</td>
<td>177</td>
</tr>
<tr>
<td>EXPANSION, * 0.0001 IN</td>
<td>0.0048</td>
<td>0.0034</td>
<td>0.0036</td>
</tr>
<tr>
<td>EXPANSION PRESSURE, PSF</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>STABILOMETER PH AT 2000 LBS</td>
<td>26</td>
<td>32</td>
<td>58</td>
</tr>
<tr>
<td>DISPLACEMENT</td>
<td>4.76</td>
<td>4.8</td>
<td>4.76</td>
</tr>
<tr>
<td>RESISTANCE VALUE &quot;R&quot;</td>
<td>73</td>
<td>68</td>
<td>48</td>
</tr>
<tr>
<td>&quot;R&quot; VALUE CORRECTED FOR HEIGHT</td>
<td>73</td>
<td>68</td>
<td>48</td>
</tr>
<tr>
<td>% MOISTURE AT TEST</td>
<td>50.6</td>
<td>51.6</td>
<td>52.6</td>
</tr>
<tr>
<td>DRY DENSITY AT TEST, PCF</td>
<td>85.5</td>
<td>84.8</td>
<td>85.1</td>
</tr>
<tr>
<td>&quot;R&quot; VALUE AT 300 PSI</td>
<td></td>
<td></td>
<td>56</td>
</tr>
<tr>
<td>EXUDATION PRESSURE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&quot;R&quot; VALUE BY EXPANSION</td>
<td></td>
<td></td>
<td>N/A</td>
</tr>
<tr>
<td>PRESSURE TI = 4.0, GF=1.50</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Standard Test Methods for Resistance R-Value and Expansion Pressure of Compacted Soil
ASTM D-2844

Project Name: Bakersfield College-Arvin Educational Center
Project Number: G20-033-11B
Lab Tracking ID: B20-018
Sample Location: B-10 @ 0.0-5.0 feet bgs

Sample Date: 2/10/2020
Test Date: 2/19/2020
Report Date: 2/24/2020
Tested By: ILT Remotigue

Sample Description: ML: SANDY SILT: brown, fine grained sand.

<table>
<thead>
<tr>
<th>SPECIMEN</th>
<th>A</th>
<th>B</th>
<th>C</th>
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</thead>
<tbody>
<tr>
<td>EXUDATION PRESSURE, LOAD (lb)</td>
<td>3926.5</td>
<td>2369.4</td>
<td>1550.6</td>
</tr>
<tr>
<td>EXUDATION PRESSURE, PSI</td>
<td>313</td>
<td>189</td>
<td>123</td>
</tr>
<tr>
<td>EXPANSION, * 0.0001 IN</td>
<td>0.0037</td>
<td>0.0037</td>
<td>0.0037</td>
</tr>
<tr>
<td>EXPANSION PRESSURE, PSF</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>STABILOMETER PH AT 2000 LBS</td>
<td>56</td>
<td>70</td>
<td>84</td>
</tr>
<tr>
<td>DISPLACEMENT</td>
<td>4</td>
<td>3.87</td>
<td>4.2</td>
</tr>
<tr>
<td>RESISTANCE VALUE &quot;R&quot;</td>
<td>54</td>
<td>45</td>
<td>35</td>
</tr>
<tr>
<td>&quot;R&quot; VALUE CORRECTED FOR HEIGHT</td>
<td>54</td>
<td>45</td>
<td>35</td>
</tr>
<tr>
<td>% MOISTURE AT TEST</td>
<td>13.5</td>
<td>14.5</td>
<td>15.5</td>
</tr>
<tr>
<td>DRY DENSITY AT TEST, PCF</td>
<td>116.1</td>
<td>115.8</td>
<td>112.0</td>
</tr>
<tr>
<td>&quot;R&quot; VALUE AT 300 PSI</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EXUDATION PRESSURE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&quot;R&quot; VALUE BY EXPANSION PRESSURE TI = 4.0, GF=1.50</td>
<td>53</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Figure B-10
**Standard Test Methods for Resistance R-Value and Expansion Pressure of Compacted Soil**

**ASTM D-2844**

**Project Name:** Bakersfield College-Arvin Educational Center  
**Project Number:** G20-033-11B  
**Lab Tracking ID:** B20-018  
**Sample Location:** B-12 @ 0.0-5.0 feet bgs

**Sample Date:** 2/10/2020  
**Test Date:** 2/19/2020  
**Report Date:** 2/24/2020  
**Tested By:** ILT Remotigue

**Sample Description:** SM: SILTY SAND: brown, fine grained sand.

<table>
<thead>
<tr>
<th>SPECIMEN</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXUDATION PRESSURE, LOAD (lb)</td>
<td>6399.1</td>
<td>4162.5</td>
<td>2163.5</td>
</tr>
<tr>
<td>EXUDATION PRESSURE, PSI</td>
<td>509</td>
<td>331</td>
<td>172</td>
</tr>
<tr>
<td>EXPANSION, * 0.0001 IN</td>
<td>0.003</td>
<td>0.0031</td>
<td>0.0034</td>
</tr>
<tr>
<td>EXPANSION PRESSURE, PSF</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>STABILOMETER PH AT 2000 LBS</td>
<td>28</td>
<td>40</td>
<td>52</td>
</tr>
<tr>
<td>DISPLACEMENT</td>
<td>5.42</td>
<td>5.3</td>
<td>5.12</td>
</tr>
<tr>
<td>RESISTANCE VALUE &quot;R&quot;</td>
<td>68</td>
<td>59</td>
<td>50</td>
</tr>
<tr>
<td>&quot;R&quot; VALUE CORRECTED FOR HEIGHT</td>
<td>68</td>
<td>59</td>
<td>50</td>
</tr>
<tr>
<td>% MOISTURE AT TEST</td>
<td>10.8</td>
<td>11.8</td>
<td>12.8</td>
</tr>
<tr>
<td>DRY DENSITY AT TEST, PCF</td>
<td>118.3</td>
<td>112.3</td>
<td>113.6</td>
</tr>
<tr>
<td>&quot;R&quot; VALUE AT 300 PSI</td>
<td>57</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EXUDATION PRESSURE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&quot;R&quot; VALUE BY EXPANSION PRESSURE</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Figue B-11

Reviewed By: Ian Leo T. Remotigue
APPENDIX C

GEOLOGICAL/ SEISMIC HAZARD EVALUATION
GEOLOGIC/SEISMIC HAZARD EVALUATION
Bakersfield College
Arvin Educational Center
Arvin, California

Table of Contents

C1. INTRODUCTION .......................................................................................................................... 1
C1.1 Purpose and Scope of Services ................................................................................................. 1
C1.2 Site Location ............................................................................................................................ 1
C1.3 Site Topography ....................................................................................................................... 1
C1.4 Groundwater Conditions ......................................................................................................... 2
C2.0 GEOLOGIC SETTING ............................................................................................................. 2
C2.1 Subsurface Conditions ........................................................................................................... 3
C3.0 GEOLOGIC/SEISMIC HAZARDS ......................................................................................... 3
C3.1 Fault Rupture Hazard Zones in California .......................................................................... 3
C3.2 State of California Seismic Hazard Zones (Liquefaction and Landslides) ......................... 3
C3.3 Local General Plans Safety Element ...................................................................................... 4
C3.4 Slope Stability and Potential for Slope Failure ..................................................................... 4
C3.5 Flood and Inundation Hazards ............................................................................................... 4
C3.5.1 Flood Hazards ...................................................................................................................... 4
C3.5.2 Inundation Hazards - Dams ............................................................................................... 4
C3.6 Volcanic Hazards .................................................................................................................... 4
C3.7 Corrosion .................................................................................................................................. 4
C3.8 Expansive Soils ....................................................................................................................... 4
C3.9 Land Subsidence ..................................................................................................................... 4
C4. SEISMIC HAZARD ASSESSMENT ......................................................................................... 5
C4.1 Seismic Source Deaggregation ............................................................................................... 5
C4.2 Historical Seismicity ................................................................................................................. 5
C4.3 Earthquake Ground Motion, 2019 California Building Code .............................................. 6
C4.3.1 Site Class ............................................................................................................................... 6
C4.3.2 Seismic Design Criteria ....................................................................................................... 6
C4.3.4 Geometric Mean Peak Ground Acceleration ...................................................................... 7
C4.4 Seismically Induced Ground Failure ..................................................................................... 8
C4.4.1 Liquefaction ......................................................................................................................... 8
C4.4.2 Lateral Spread ...................................................................................................................... 8
C4.4.3 Dynamic Compaction/Seismic Settlement .......................................................................... 9
C5. REFERENCES ............................................................................................................................ 10
Figures

Figure C-1  Topographic Map
Figure C-2  Area Hydrographs
Figure C-3  Geologic Map
Figure C-4  Site Map
Figure C-5  Cross Section A-A’
Figure C-6  Earthquake Fault Zones
Figure C-7  Flood Hazard Map
Figure C-8  Area Subsidence
Figure C-9  Area Fault Map
Figure C-10  Earthquake Epicenter Map
Figure C-11  Liquefaction Analysis B-3
Figure C-12  Liquefaction Analysis B-4
C1. INTRODUCTION

This report presents the geologic and seismic hazards assessment prepared in accordance with the 2019 California Building Code (CBC), CCR Title 24, Chapters 16A and 18A requirements for a Geotechnical/Engineering Geologic Report. The assessment was performed in conformance with California Geological Survey (CGS) Note 48 (2019).

C1.1 Purpose and Scope of Services

The purpose of the geologic and seismic hazards assessment is to provide the Client with an evaluation of potential geologic or seismic hazards which may be present at the site or due to regional influences. BSK’s scope of services for this assessment included the following:

1. Review of published geologic literature, and current and past investigations at the site;
2. Evaluation of the data collected and preparation of geologic cross sections;
3. Evaluation of potential geologic hazards affecting the site;
4. Determination of Site Class and seismic design parameters.

The observations and conclusions presented in this report specifically exclude the assessment of environmental characteristics, particularly those involving hazardous substances, and a high-pressure pipeline risk evaluation.

C1.2 Site Location

The proposed project is located within Section 23, Township 31 South, Range 29 East, Mount Diablo Meridian. The proposed project is in the south eastern portion of the San Joaquin Valley. The site coordinates of the center of the property are:

Latitude 35.2150ºN
Longitude -118.8369ºW

The surrounding area is mostly residential and farmland. Adjacent properties to the west and east are residential with Grimmway Academy School located to the south and Arvin High School located to the north.

C1.3 Site Topography

As shown on Figure C-1, the Site area slopes to the southeast with a slope gradient of approximately 0.4% (Vertical/Horizontal). Elevations range from approximately 455 feet (NAVD27 datum) near the...
northeast corner of Site perimeter to 447 feet (NAVD27 datum) near the southwest Site perimeter. There are no mapped drainages or streams that cross or are near the Site.

C1.4 Groundwater Conditions

The Site is within the Kern County sub-basin of the San Joaquin Basin Hydrologic Study Area. This includes approximately the southern two-thirds of the Great Valley. Within the Study Area, 39 groundwater basins and areas of potential storage have been identified. The boundaries of these areas are based largely on hydrologic as well as political considerations.

Groundwater was not observed in our soil borings completed to 51.5 feet below the ground surface (bgs) in February 2020. Please note that the groundwater level may fluctuate both seasonal and from year to year due to variations in rainfall, temperature, pumping from wells and possibly as the result of other factors that were not evident at the time of our investigation.

To ascertain groundwater levels for the area, groundwater elevation data from the California Department of Water Resources (DWR) was obtained for wells in the vicinity of the Site. Figure C-2, presents data from well #1S29E25C001M located approximately 4,000 feet southeast of the Site. The groundwater data indicates that during the 1980s the depth to groundwater was approximately 180 feet below the ground surface (bgs) and more recent data indicates that groundwater is greater than 290 feet bgs.

C2.0 GEOLOGIC SETTING

The Site is located in the transitional area of the Great Valley geomorphic province and the Sierra Nevada geomorphic province. The Site is located in the structural region identified by the U.S.G.S. (Bartow, 1991) as the San Joaquin Valley portion of the southern Sierran block. This area forms a broad syncline with deposits of marine and overlying continental sediments, Jurassic to Holocene in age. The thickness of the sediments increases to the west and reach a thickness of as much as 20,000-feet on the west side of the San Joaquin Valley syncline. Northeast of the Site, the relatively flat geomorphology transitions into the foothills of Sierra Nevada, which generally consist of pre-Cretaceous metamorphic rocks, Mesozoic ultramafic rocks, and Mesozoic granitic rocks.

As shown on Figure C-2, the Site is situated on young (mid-early Holocene) alluvial fan deposits derived from the hills east of the Site.

Nearby major active faults include the White Wolf fault located approximately 4 miles south of the site, the Edison fault located approximately 10 miles north of the Site, and the Garlock fault located approximately 22 miles southwest of the Site.
C2.1 Subsurface Conditions

Subsurface conditions are described in the 2020 geotechnical investigation report prepared by BSK Associates (BSK) and to which this geologic and seismic hazards report is appended. The site was the subject of a current field investigation of 15 soil borings completed to a maximum depth of approximately 51.5 feet bgs. The soil units present at the site are predominately interbedded sandy silt, silt with sand, silty sand and sand. A clay layer was encountered at depths of 25 and 30 feet bgs (B-4) to 30 and 35 feet bgs (B-3). A cross section presenting the subsurface conditions in the proposed improvement area is presented on Figure C-5, Geologic Cross Section.

C3.0 GEOLOGIC/SEISMIC HAZARDS

The types of geologic and seismic hazards assessed include surface ground fault rupture, liquefaction, seismically induced settlement, slope failure, flood hazards and inundation hazards.

C3.1 Fault Rupture Hazard Zones in California

The purpose of the Alquist-Priolo Geologic Hazards Zones Act, as summarized in CDMG Special Publication 42 (SP 42), is to "prohibit the location of most structures for human occupancy across the traces of active faults and to mitigate thereby the hazard of fault-rupture." As indicated by SP 42, "the State Geologist is required to delineate "earthquake fault zones" (EFZs) along known active faults in California. Cities and counties affected by the zones must regulate certain development 'projects' within the zones. They must withhold development permits for sites within the zones until geologic investigations demonstrate that the sites are not threatened by surface displacement from future faulting.

As shown on Figure C-6, the Site is not located in a Fault-Rupture Hazard Zone. The closest Fault-Rupture Hazard Zone is associated with the White Wolf fault, approximately 3.7 miles southwest of the Site.

C3.2 State of California Seismic Hazard Zones (Liquefaction and Landslides)

Zones of Required Investigation referred to as "Seismic Hazard Zones" (SHZ) in CCR Article 10, Section 3722, are areas shown on Seismic Hazard Zone Maps where site investigations are required to determine the need for mitigation of potential liquefaction and/or earthquake-induced landslide ground displacements.

The site is within the Arvin 7.5 Minute Quadrangle and there are no mapped areas that have Seismic Hazard Zones in the project area.
C3.3  Local General Plans Safety Element
The 2009 Kern County General Plan did not identify the area of the Site as being in a geologic hazard zone.

C3.4  Slope Stability and Potential for Slope Failure
The project area is essentially flat and the potential hazard due to landslides from adjacent properties is not applicable.

C3.5  Flood and Inundation Hazards
An evaluation of flooding at the site includes review of potential hazards from flooding during periods of heavy precipitation and flooding due to a catastrophic dam breach from up-gradient surface impoundments.

C3.5.1  Flood Hazards
Federal Emergency Management Agency (FEMA) flood hazard data was obtained to present information regarding the potential for flooding at the Site. As shown on Figure C-7, according to FEMA Flood Hazard Map Layer GIS data, dated 8/03/2018, the project Site is in FEMA flood zone AO (River or stream flood hazard areas, and areas with a 1% or greater chance of shallow flooding each year). The FEMA flood hazard data indicates that the flood depth at the Site would be one foot or less.

C3.5.2  Inundation Hazards - Dams
As shown on Figure C-7, the Site is not located in the Lake Isabella inundation area or in the inundation pathway from a catastrophic breach of other dams or reservoirs.

C3.6  Volcanic Hazards
According to USGS Bulletin 1847, dated 1989, the site is not located in an area which would be subject to hazards from volcanic eruptions (Miller, 1989).

C3.7  Corrosion
Please refer to the section titled “Corrosion Assessment” in the geotechnical report for discussion of the corrosivity of the site soils.

C3.8  Expansive Soils
As discussed in the geotechnical report, the near-surface soils encountered within the current borings throughout the site are silt/sandy silt which exhibit a low to non-expansion potential.

C3.9  Land Subsidence
Four types of subsidence are known to occur in the San Joaquin Valley (Galloway, 1999). In order of decreasing magnitude, they are:
(1) Subsidence caused by aquifer system compaction due to the lowering of ground-water levels by sustained ground-water overdraft;
(2) Subsidence caused by the hydrocompaction of moisture-deficient deposits above the water table;
(3) Subsidence related to fluid withdrawal from oil and gas fields; and
(4) Subsidence related to crustal neotectonic movements.

The site is not located in an area known to be susceptible to subsidence due to petroleum withdrawal. As shown on Figure C-8 the Site is located in an area of minimal subsidence due to groundwater withdrawal. The site is not located in an area in which soils are known to be impacted by hydrocompaction.

C4. SEISMIC HAZARD ASSESSMENT

C4.1 Seismic Source Deaggregation

Figures C-9 presents fault maps showing the major faults that may impact the site in the future. Seismically induced ground motion at a site can be caused by earthquakes on any of the sources surrounding the site. Deaggregation of the seismic hazard was performed by using the USGS Interactive Deaggregation website. The deaggregation determination, at the maximum considered earthquake (MCE) hazard level, results in distance, magnitude and epsilon (ground-motion uncertainty) for each source that contributes to the hazard. Each source has a corresponding epsilon, which is the probabilistic value relative to the mean value of ground motion for that source.

Deaggregation based on a probabilistic model developed by the USGS indicates that the extreme seismic source with the highest magnitude that contributes to the peak ground acceleration (PGA) is a magnitude 8.04 earthquake from the San Andreas Fault. For liquefaction and seismic settlement, the modal magnitude (Mw) of 5.50 with a distance of 10 km would be appropriate for probabilistic input parameter that is consistent with the design earthquake ground motion.

C4.2 Historical Seismicity

Table C-1 provides the location, earthquake magnitude, site to earthquake distances, dates and the resulting site peak horizontal acceleration for the period 1800 to 2016. Figure C-7 presents historical earthquake magnitudes and locations relative to the site.
### TABLE C-1
HISTORIC EARTHQUAKES WITHIN 100 MILES OF THE SITE
GROUND MOTION GREATER THAN 0.10G

<table>
<thead>
<tr>
<th>File Code</th>
<th>Latitude (North)</th>
<th>Longitude (West)</th>
<th>Date</th>
<th>Depth (km)</th>
<th>Earthquake Magnitude</th>
<th>Site Acceleration (g)</th>
<th>Distance mi (km)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMG</td>
<td>35.217</td>
<td>118.817</td>
<td>7/23/1952</td>
<td>0</td>
<td>5.7</td>
<td>0.36</td>
<td>1.1( 1.8)</td>
</tr>
<tr>
<td>DMG</td>
<td>35.000</td>
<td>119.017</td>
<td>7/21/1952</td>
<td>0</td>
<td>7.7</td>
<td>0.30</td>
<td>18.0( 29.0)</td>
</tr>
<tr>
<td>DMG</td>
<td>35.217</td>
<td>118.817</td>
<td>12/15/1953</td>
<td>0</td>
<td>4.6</td>
<td>0.20</td>
<td>1.1( 1.8)</td>
</tr>
<tr>
<td>DMG</td>
<td>35.133</td>
<td>118.767</td>
<td>7/21/1952</td>
<td>0</td>
<td>5.5</td>
<td>0.18</td>
<td>6.9( 11.1)</td>
</tr>
<tr>
<td>DMG</td>
<td>35.383</td>
<td>118.850</td>
<td>7/29/1952</td>
<td>0</td>
<td>6.1</td>
<td>0.18</td>
<td>11.6( 18.7)</td>
</tr>
<tr>
<td>DMG</td>
<td>35.333</td>
<td>118.917</td>
<td>8/22/1952</td>
<td>0</td>
<td>5.8</td>
<td>0.18</td>
<td>9.3( 15.0)</td>
</tr>
<tr>
<td>DMG</td>
<td>35.000</td>
<td>119.000</td>
<td>7/21/1952</td>
<td>0</td>
<td>6.4</td>
<td>0.15</td>
<td>17.5( 28.1)</td>
</tr>
<tr>
<td>T-A</td>
<td>34.830</td>
<td>118.750</td>
<td>11/27/1852</td>
<td>0</td>
<td>7.0</td>
<td>0.15</td>
<td>27.0( 43.5)</td>
</tr>
<tr>
<td>DMG</td>
<td>35.300</td>
<td>118.800</td>
<td>12/23/1905</td>
<td>0</td>
<td>5.0</td>
<td>0.15</td>
<td>6.2( 10.0)</td>
</tr>
<tr>
<td>DMG</td>
<td>35.300</td>
<td>119.800</td>
<td>01/09/1857</td>
<td>0</td>
<td>7.9</td>
<td>0.14</td>
<td>54.6( 87.9)</td>
</tr>
<tr>
<td>DMG</td>
<td>35.367</td>
<td>118.583</td>
<td>7/23/1952</td>
<td>0</td>
<td>6.1</td>
<td>0.13</td>
<td>17.7( 28.5)</td>
</tr>
<tr>
<td>DMG</td>
<td>35.333</td>
<td>118.600</td>
<td>7/31/1952</td>
<td>0</td>
<td>5.8</td>
<td>0.12</td>
<td>15.6( 25.2)</td>
</tr>
<tr>
<td>DMG</td>
<td>35.000</td>
<td>119.017</td>
<td>1/12/1954</td>
<td>0</td>
<td>5.9</td>
<td>0.12</td>
<td>18.0( 29.0)</td>
</tr>
<tr>
<td>DMG</td>
<td>35.183</td>
<td>118.650</td>
<td>7/21/1952</td>
<td>0</td>
<td>5.1</td>
<td>0.11</td>
<td>10.8( 17.3)</td>
</tr>
</tbody>
</table>

The Table C-1 shows that the site has experienced mean plus one sigma peak horizontal acceleration up to 0.36g from the 1952 Kern County earthquake. In general the site has been subjected to relatively low intensity ground motion, primarily from large earthquakes on distance faults and low magnitude earthquakes closer to the site.

### C4.3 Earthquake Ground Motion, 2019 California Building Code

#### C4.3.1 Site Class

Based on Section 1613A.2.2 of the 2019 California Building Code (CBC), the Site shall be classified as Site Class A, B, C, D, E or F based on the Site soil properties and in accordance with Chapter 20 of ASCE 7-16. Based on the “N” values from our soil borings, as per Table 20.3-1 of ASCE 7-16, the Site is Class E (N ≤15).

#### C4.3.2 Seismic Design Criteria

The 2019 California Building Code (CBC) utilizes ground motion based on the Risk-Targeted Maximum Considered Earthquake (MCE_R) that is define in the 2019 CBC as the most severe earthquake effects considered by this code, determined for the orientation that results in the largest maximum response to horizontal ground motions and with adjustment for targeted risk. Ground motion parameters in the 2019 CBC are based on ASCE 7-16, Chapter 11.
The United States Geologic Survey (USGS) has prepared maps presenting the Risk-Targeted MCE spectral acceleration (5% damping) for periods of 0.2 seconds ($S_S$) and 1.0 seconds ($S_L$). The values of $S_S$ and $S_L$ can be obtained from the OSHPD Seismic Design Maps Application available at: https://seismicmaps.org/

Table C-2 below presents the spectral acceleration parameters produced for Site Class E by the OSHPD Ground Motion Parameter Application and Chapter 16 of the 2019 CBC based on ASCE 7-16.

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Value</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCE Mapped Spectral Acceleration (g)</td>
<td>$S_S = 1.173$</td>
<td>USGS Mapped Value</td>
</tr>
<tr>
<td>Site Coefficients (Site Class E)</td>
<td>$F_a = \text{Null}^2 (1.2)^2$</td>
<td>ASCE Table 11.4</td>
</tr>
<tr>
<td>Site Adjusted MCE Spectral Acceleration (g)</td>
<td>$S_{MS} = \text{Null}^2 (1.407)^2$</td>
<td>ASCE Equations 11.4.1-2</td>
</tr>
<tr>
<td>Design Spectral Acceleration (g)</td>
<td>$S_{DS} = \text{Null}^2 (0.938)^2$</td>
<td>ASCE Equations 11.4.3-4</td>
</tr>
<tr>
<td>Site Long-Period - $T_S$ (Seconds)</td>
<td>$T_S = 0.703$</td>
<td></td>
</tr>
<tr>
<td>Site Short Period - $T_L$ (Seconds)</td>
<td>$T_L = 12$</td>
<td>USGS Mapped Value</td>
</tr>
</tbody>
</table>

Using ASCE 7-16 exception 11.4.8 #1, in lieu of a site-specific ground motion analysis results in the values presented in Table C-2, above. The value of $S_{DS}$ can be used in the equivalent static force procedure, provided that the structure period ($T$) is less than $T_S$ (0.703).

**C4.3.4 Geometric Mean Peak Ground Acceleration**

As per Section 1803A.5.12 of the CBC, peak ground acceleration (PGA) utilized for dynamic lateral earth pressures and liquefaction, shall be based on a site-specific study (ASCE 7-16, Section 21.5) or ASCE 7-16, Section 11.8.3. The USGS Ground Motion Parameter Application based on ASCE 7-16, Section 11.8.3 produced the values shown in Table C-3 based on Site Class E.

---

1 Requires site-specific ground motion procedure or exception as per ASCE 7-16 Section 11.4.8
2 As Per Exception 11.4.8 #1, $S_S > 1.0$, therefore $F_a$ taken as Site Class C.
3 Values from ASCE 7-16 supplement, shall only be used to calculate $T_S$
### TABLE C-3

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Value</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mapped Peak Ground Acceleration (g)</td>
<td>PGA = 0.509</td>
<td>USGS Mapped Value</td>
</tr>
<tr>
<td>Site Coefficients (Site Class E)</td>
<td>F&lt;sub&gt;PGA&lt;/sub&gt; = 1.191</td>
<td>ASCE Table 11.8-1</td>
</tr>
<tr>
<td>Geometric Mean PGA (g)</td>
<td>PG&lt;sub&gt;M&lt;/sub&gt; = 0.606</td>
<td>ASCE Equations 11.8-1</td>
</tr>
</tbody>
</table>

### C4.4  Seismically Induced Ground Failure

#### C4.4.1 Liquefaction

Settlement of the ground surface with consequential differential movement of structures is a major cause of seismic damage for buildings founded on alluvial deposits. Vibration settlement of relatively dry and loose granular deposits beneath structures can be readily induced by the horizontal components of ground shaking associated with even moderate intensity earthquakes. Silver and Seed (1971) have demonstrated that settlement of dry sands due to cyclic loading is a function of 1) the relative density of the soil; 2) the magnitude of the cyclic shear stress; and 3) the number of strain cycles. As indicated above, seismically-induced ground settlement can also occur due to the liquefaction of relatively loose, saturated granular deposits.

In order for liquefaction triggering to occur due to ground shaking, it is generally accepted that four conditions will exist:

1. The subsurface soils are in a relatively loose state
2. The soils are saturated
3. The soils have low plasticity
4. Ground shaking is of sufficient intensity to act as a triggering mechanism

The current and historical depth to groundwater is greater than 50 feet bgs, therefore the liquefaction potential is low.

#### C4.4.2 Lateral Spread

Lateral spreading is a potential hazard commonly associated with liquefaction where extensional ground cracking and settlement occur as a response to lateral migration of subsurface liquefiable material. These phenomena typically occur adjacent to free faces such as slopes and creek channels. Sloped ground or channel free-faces are not present in the area, therefore the potential for lateral spreading to take place at the site is low.
C4.4.3 Dynamic Compaction/Seismic Settlement

Another type of seismically induced ground failure, which can occur as a result of seismic shaking, is dynamic compaction, or seismic settlement. Such phenomena typically occur in unsaturated, loose granular material or uncompacted fill soils.

A seismic settlement analysis was performed using the program Liquefy Pro version 5.8k using soil boring data from B-3 and B-4. Input parameters for the liquefaction and settlement analysis were based upon:

- Soil densities estimated from soil boring data
- PGA based upon the geometric mean peak ground acceleration or 0.606g.
- Magnitude 5.5 of controlling earthquake from Deaggregation of the seismic hazard.
- Assumed depth to groundwater of greater than 50 feet bgs from historical high.
- A Factor of Safety of 1.3 was used for analysis.

Based on the analysis, dry seismic settlement is estimated to be 3.5 inches (B-3) and 3.2 inches (B-4). Differential settlements were determined by taking the difference between the calculated total settlement of the two borings (0.3 inch) and the horizontal distance between the borings (approximately 340 feet). The differential settlement meets the criteria values allowed under ASCE 7-16, Section 12.13.9.
C5. REFERENCES


California Building Code, Title 24, 2019, also known as, the California Code of Regulations, (CCR), Title 24, Part 1 and Part 2.


California Division of Mines and Geology, 1997, Guidelines for Evaluating and Mitigating Seismic Hazards in California, Special Publication 117.


Galloway, D., Jones, D.R., Ingebritsen, S.E., 1999, Land Subsidence in the United States, USGS Circular 1182

Idriss, I.M., and Boulanger, R.W., 2008, Soil Liquefaction During Earthquakes, Earthquake Engineering Research Institute, Berkeley, California.


NASA JPL, InSAR Subsidence Data, Interferometric Synthetic Aperture Radar (InSAR) from JPL https://data.cnra.ca.gov/dataset/nasa-jpl-insar-subsidence


USGS, 2018, Areas of Land Subsidence in California [https://ca.water.usgs.gov/land_subsidence/california-subsidence-areas.html](https://ca.water.usgs.gov/land_subsidence/california-subsidence-areas.html)
State Well Number: 31S29E25C001M
Latitude (NAD83): 35.210000
Longitude (NAD83): -118.8204
Groundwater Basin (code): Kern County (5-022.14)
Reference Point Elevation (NAVD88 ft): 449.550
Ground Surface Elevation (NAVD88 ft): 449.550
NOTES:
1) Locations are Approximate.
Geologic/Seismic Hazard Evaluation
Kern Community College District
Bakersfield College, Arvin Educational Center
Arvin, California

Figure C-7
Flood Hazard Map
BSK Project G2003311B

Legend
FEMA Flood Hazard Zones
- A, Areas with a 1% annual chance of flooding
- AE, The base floodplain where base flood elevations are provided
- AH, Areas with a 1% annual chance of shallow flooding, usually in the form of a pond
- AO, River or stream flood hazard areas, and areas with a 1% or greater chance of shallow flooding each year
- D, Flooding possible but undetermined flood hazards, as no analysis of flood hazards has been
- X, 0.2 PCT ANNUAL CHANCE FLOOD HAZARD
- X, AREA OF MINIMAL FLOOD HAZARD
- Base Flood Elevation (feet)
- Lake Isabella Inundation Area

Reference: FEMA Flood Hazard Layer, 06029C-NFHL, Kern County, California NFHL Extract, 8/03/2018
Geologic/Seismic Hazard Evaluation
Kern Community College District
Bakersfield College, Arvin Educational Center
Arvin, California

Figure C-8
Area Subsidence
BSK Project G2003311B

Data based on Interferometric Synthetic Aperture Radar (InSAR) from JPL
https://data.cnra.ca.gov/dataset/nasa-jpl-insar-subsidence

Legend
Vertical Displacements 2015-2016 (Inches)
-3 - 0
-7 - -4
-11 - -8
-15 - -12
-19 - -16
-23 - -20
-28 - -24

Map Date: 2/25/2020

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community
LIQUEFACTION ANALYSIS
Arvin Educational Center

Hole No.=B-3  Water Depth=190 ft  Magnitude=5.5
Acceleration=0.606g

SPT or BPT test

N-Value

Unit Weight -pcf

Fines %

Soil Description

Silty Sand/Sandy Silt
Sand
Silty Sand
Silt
Silty Sand
Clay w/sand
Silty Sand
Sand
Silty Sand
Sand

Soil Description
LIQUEFACTION ANALYSIS
Arvin Educational Center

Hole No.=B-3  Water Depth=190 ft  Magnitude=5.5  Acceleration=0.606g

Shear Stress Ratio

Factor of Safety

Settlement

Soil Description

<table>
<thead>
<tr>
<th>Soil Description</th>
<th>Settlement</th>
<th>Factor of Safety</th>
<th>Shear Stress Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silty Sand/Sandy Silt</td>
<td>3.49 in.</td>
<td>1</td>
<td>1.30</td>
</tr>
<tr>
<td>Sand</td>
<td>0 in.</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Silty Sand</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Silt</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Silty Sand</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clay w/sand</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Silty Sand</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sand</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Silty Sand</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sand</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Shaded Zone has Liquefaction Potential

Saturated

Unsaturated
LIQUEFACTION ANALYSIS SUMMARY

Input Data:
Surface Elev.=
Hole No.=B-2
Depth of Hole= 51.50 ft
Water Table during Earthquake= 190.00 ft
Water Table during In-Situ Testing= 190.00 ft
Max. Acceleration= 0.61 g
Earthquake Magnitude= 5.50

No-Liquefiable Soils: Based on Analysis

1. SPT or BPT Calculation.
2. Settlement Analysis Method: Tokimatsu, M-correction
3. Fines Correction for Liquefaction: Stark/Olson et al.*
4. Fines Correction for Settlement: During Liquefaction*
5. Settlement Calculation in: All zones*
6. Hammer Energy Ratio, \( Ce = 1.3 \)
7. Borehole Diameter, \( Cb = 1 \)
8. Sampling Method, \( Cs = 1 \)
9. User request factor of safety (apply to CSR) , \( User = 1.3 \)
10. Use Curve Smoothing: No
* Recommended Options

In-Situ Test Data:

<table>
<thead>
<tr>
<th>Depth (ft)</th>
<th>SPT</th>
<th>gamma</th>
<th>Fines (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.00</td>
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<td>100.00</td>
<td>21.00</td>
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<td>5.00</td>
<td>7.00</td>
<td>100.00</td>
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<td>37.00</td>
</tr>
<tr>
<td>50.00</td>
<td>21.00</td>
<td>89.00</td>
<td>5.00</td>
</tr>
</tbody>
</table>

Output Results:
Settlement of Saturated Sands=0.00 in.
Settlement of Unsaturated Sands=3.49 in.
Total Settlement of Saturated and Unsaturated Sands=3.49 in.
Differential Settlement=1.746 to 2.305 in.
LIQUEFACTION ANALYSIS
Arvin Educational Center

Hole No.=B-4  Water Depth=190 ft

Magnitude=5.5
Acceleration=0.606g

N-Value

Unit Weight - pcf

Fines %

Soil Description

SPT or BPT test

Silty Sand/Sandy Silt
Silty Sand
Sand
Silt
Clay w/sand
Sandy Silt
Silty Sand
Clayey Sand
LIQUEFACTION ANALYSIS
Arvin Educational Center

Hole No.: B-4  Water Depth: 190 ft
Magnitude: 5.5
Acceleration: 0.606g

Soil Description

- Silty Sand/Sandy Silt
- Silty Sand
- Sand
- Silt
- Clay w/sand
- Sandy Silt
- Silty Sand
- Clayey Sand

Shear Stress Ratio

Factor of Safety

Settlement

Shaded Zone has Liquefaction Potential

S = 3.20 in.
LIQUEFACTION ANALYSIS SUMMARY
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Input File Name: T:\Project Docs\G2003311B - Bakerfield College Arvin Ed Center\B-4.liq
Title: Arvin Educational Center
Subtitle:
Surface Elev.=
Hole No.=B-2
Depth of Hole= 51.50 ft
Water Table during Earthquake= 190.00 ft
Water Table during In-Situ Testing= 190.00 ft
Max. Acceleration= 0.61 g
Earthquake Magnitude= 5.50

Input Data:
Surface Elev.=
Hole No.=B-2
Depth of Hole=51.50 ft
Water Table during Earthquake= 190.00 ft
Water Table during In-Situ Testing= 190.00 ft
Max. Acceleration=0.61 g
Earthquake Magnitude=5.50
No-Liquefiable Soils: Based on Analysis

1. SPT or BPT Calculation.
2. Settlement Analysis Method: Tokimatsu, M-correction
3. Fines Correction for Liquefaction: Stark/Olson et al.*
4. Fines Correction for Settlement: During Liquefaction*
5. Settlement Calculation in: All zones*
6. Hammer Energy Ratio, Ce = 1.3
7. Borehole Diameter, Cb = 1
8. Sampling Method, Cs = 1
9. User request factor of safety (apply to CSR), User = 1.3
10. Use Curve Smoothing: No

* Recommended Options

In-Situ Test Data:
Depth  SPT  gamma  Fines
ft    pcfc   %
2.00  8.00  95.00  33.00
5.00  8.00  96.00  33.00
10.00 10.00 114.00  5.00
15.00  4.00 101.00  84.00
20.00  8.00 101.00  67.00
25.00  9.00 101.00  85.00
30.00 21.00 101.00  8.00
35.00  9.00 101.00  60.00
40.00 19.00 101.00 13.00
45.00 23.00 101.00 44.00
50.00 17.00 101.00 27.00

Output Results:
Settlement of Saturated Sands=0.00 in.
Settlement of Unsaturated Sands=3.20 in.
Total Settlement of Saturated and Unsaturated Sands=3.20 in.
Differential Settlement=1.602 to 2.114 in.
CONSTRUCT GRADE SO AS TO ALLOW 6' SPACE BEHIND CURBS AS SHOWN.

6" CURB & GUTTER
SCALE: 3/4" = 1'-0"

CONCRETE CURB
SCALE: 3/4" = 1'-0"

SIDE WALK
SEE CIVIL DRAWINGS
FOR LOCATION

NOTE #1
PATCHING
OF ASPHALT BY PAVING CONTRACTOR.

NOTE #2
ALL CONCRETE WALKS,
CURBS, AND GUTTER BY
SITE CONCRETE CONTRACTOR.

6" CURB & GUTTER @ SIDE WALK
SCALE: 3/4" = 1'-0"

KCCD - ARVIN EDUCATIONAL CENTER
MEASURE J PROJECT
CCC JOB #22-017

Attachment 14
Curb Cut Detail